

FACTS & FIGURES: AGRICULTURE IN GHANA, 2020

Issued by

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

December 2021

FOREWORD

This document, Agriculture in Ghana: Facts and Figures (2020), has been prepared by the Statistics Research and Information Directorate (SRID) of the Ministry of Food and Agriculture (MoFA). It is the 30th 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 endeavour, 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:

The Director
Statistics, Research, and Information Directorate, MOFA
P. O. Box M.37, Accra.
Tel: +233 (208339706)
WhatsApp: +233 (506565325)
Email: **srid@mofa.gov.gh**

Hon. Minister of Food and Agriculture
(December 2021)

ACKNOWLEDGEMENT

The 30th edition of the Agriculture in Ghana: Facts and Figures document was prepared by SRID, MoFA, with contributions from various sources. The Directorate wishes to express its profound gratitude to all the Organizations, Institutions, Ministries, Departments and Agencies (MDAs) who made inputs, in one way or the other, for their invaluable contributions towards the successful production of this document.

We are particularly grateful to MoFA top Management, led by the sector minister 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 wish to say thank you. 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.

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 appreciate, 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.

TABLE OF CONTENTS

FOREWORD ***2***

ACKNOWLEDGEMENT ***4***

TABLE OF CONTENTS ***5***

LIST OF TABLES ***6***

LIST OF TABLES ..... *Error! Bookmark not defined.*

LIST OF FIGURES ***8***

LIST OF APPENDICES ***9***

SECTION 1: BACKGROUND OF GHANA ***10***

SE*CTION 2*: *LAND USE, VEGETATION, SOILS AND CLIMATE* ***12***

2.1 VEGETATION *13*

2.2 SOILS *17*

2.3 FARMING SYSTEMS *19*

2.4 CLIMATE *19*

SECTION 3: AGRICULTURE POPULATION ***21***

3.1 DISTRIBUTION OF LABOUR FORCE BY ECONOMIC ACTIVITY *25*

SECTION 4: AGRICULTURE PRODUCTIVITY ***26***

4. 1: CROP SECTOR *26*

4.1.1: PRINCIPAL AGRICULTURAL PRODUCE *26*

4. 1. 2: PRODUCTION OF MAJOR CROP IN GHANA *28*

4. 1. 3: ANALYSIS OF YIELD BY CROP AND BY DISTRICT *33*

4. 2: LIVESTOCK SUB-SECTOR *43*

4. 3: FISHERIES SUB-SECTOR *52*

SECTION 5: SERVICE IN AGRICULTURE ***50***

5. 1: CREDIT SUPPORT *50*

5. 2: AGRICULTURAL MANPOWER DEVELOPMENT AND RESEARCH SUPPORT *54*

5. 3: STAFFING LEVELS OF MOFA *55*

5. 4: AGRICULTURAL MACHINERY WITH FUNDING SOURCE *56*

SECTION 6: AGRO-PROCESSING FIRMS ***71***

SECTION 7: AGRICULTURAL COMMODIY PRICES ***93***

SECTION 8: AGRICULTURE AND NATIONAL ECONOMY ***97***

APPENDIX ***105***

LIST OF TABLES

TABLE 1. 1: GEOGRAPHIC BACKGROUND OF GHANA
TABLE 1. 2: DEMOGRAPHIC BACKGROUND OF GHANA
TABLE 1. 3: ECONOMIC BACKGROUND OF GHANA
TABLE 2. 1: LAND USE
TABLE 2. 2: LAND USE PATTERN
TABLE 2. 3: LAND AREA OF 16 ADMINISTRATIVE REGIONS
TABLE 2. 4: LAND COVER CLASSES
TABLE 2. 5: RAINFALL DISTRIBUTION BY AGRO-ECOLOGICAL ZONES.
TABLE 2. 6: LAND AREA OF VEGETATION BY ZONES
TABLE 2. 7: FERTILITY STATUS OF SOILS IN THE REGIONS OF GHANA
TABLE 2. 8: FERTILITY STATUS OF SOILS IN THE ECOLOGICAL ZONES OF GHANA
TABLE 2. 9: ANNUAL REGIONAL RAINFALL DATA IN MM
TABLE 3. 1: DISTRIBUTION OF AGRICULTURAL AND NON-AGRICULTURAL HOUSEHOLDS BY REGION
TABLE 3. 2: DISTRIBUTION OF AGRICULTURAL AND NON-AGRICULTURAL INSTITUTIONS BY REGION
TABLE 3. 3: PROPORTION OF AGRICULTURE INSTITUTIONS BY REGION
TABLE 3. 4: AGRICULTURAL HOUSEHOLDS BY TYPE OF ACTIVITY AND REGION
TABLE 3. 5: HOUSEHOLDS ENGAGED IN PROCESSING OF AGRICULTURE PRODUCE BY REGION
TABLE 3. 6: INSTITUTIONS ENGAGED IN MARKETING OF AGRICULTURE PRODUCE BY REGION
TABLE 4. 1: CROPPED AREA OF MAJOR CROPS (HEACTRES)
TABLE 4. 2: CROPPED AREA OF OTHER CROPS (HEACTRES)
TABLE 4. 3: GROWTH RATE OF AVERAGE CROPPED AREA OF MAJOR CROPS
TABLE 4. 4: PRODUCTION OF MAJOR CROPS (METRIC TONS)
TABLE 4. 5: PRODUCTION GROWTH RATE FOR MAJOR CROPS
TABLE 4. 6: ANALYSIS OF YIELD FOR MAIZE BY DISTRICT
TABLE 4. 7: ANALYSIS OF YIELD FOR RICE BY DISTRICT
TABLE 4. 8: ANALYSIS OF YIELD FOR MILLET BY DISTRICT
TABLE 4. 9: ANALYSIS OF YIELD FOR SORGHUM BY DISTRICT
TABLE 4. 10 ANALYSIS OF YIELD FOR CASSAVA BY DISTRICT
TABLE 4.11: ANALYSIS OF YIELD FOR YAM BY DISTRICT
TABLE 4.12: ANALYSIS OF YIELD FOR COCOYAM BY DISTRICT
TABLE 4.13: ANALYSIS OF YIELD FOR PLANTAIN BY DISTRICT
TABLE 4.14: ANALYSIS OF YIELD FOR GROUNDNUT BY DISTRICT
TABLE 4.15: ANALYSIS OF YIELD FOR COWPEA BY DISTRICT
TABLE 4.16: ANALYSIS OF YIELD FOR SOYABEAN BY DISTRICT
TABLE 4.17: APPARENT PER CAPITA CONSUMPTION
TABLE 4.18: FOOD BALANCE SHEET 2020/2021
TABLE 4.19: PRODUCTION OF INDUSTRIAL CROPS (MT)
TABLE 4.20: TREND OF LIVESTOCK POPULATION (‘000)
TABLE 4.21: LIVESTOCK SLAUGHTER SUMMARY (NUMBERS)
TABLE 4.22: LIVE ANIMAL IMPORTS BY SPECIES
TABLE 4. 23: IMPORTATION OF DAY-OLD CHICKS AND PARENT STOCK (NUMBERS)
TABLE 4. 24: QUANTITY OF FROZEN MEAT IMPORTS BY CATEGORY (MT)
TABLE 4. 25: VALUE (GH₵) OF MEAT IMPORTS BY CATEGORY
TABLE 4. 26: VALUE (US $) OF MEAT IMPORTS BY CATEGORY
TABLE 4. 27: DOMESTIC MEAT PRODUCTION (MT)
TABLE 4. 28: FISH CAPTURE BY SOURCE (MT)
TABLE 4. 30: FISH IMPORTS AND EXPORTS (MT)
TABLE 5. 1: SECTORIAL DISTRIBUTION OF CREDIT BY DEPOSIT MONEY BANKS (%)
TABLE 5. 2: BANK LENDING RATE
TABLE 5. 3: BANKS IN GHANA
TABLE 5. 4: AGRICULTURE-RELATED RESEARCH INSTITUTES
TABLE 5. 5: STAFFING LEVELS OF MOFA BY CATEGORY
TABLE 5. 6: AGRICULTURAL MACHINERY AND EQUIPMENT
TABLE 5. 7: TOTAL AREA UNDER IRRIGATION
TABLE 5. 8: AGRICULTURAL MACHINERY/EQUIPMENT DEALERS/IMPORTERS
TABLE 5. 9: LIST OF AGRICULTURAL MECHANIZATION SERVICES CENTRE’S (AMSECS)
TABLE 6. 1: SOME AGRO-PROCESSING FIRMS
TABLE 7. 1: ANNUAL NOMINAL WEIGHTED AVERAGE RURAL WHOLESALE PRICE (GH₵ PER MT).
TABLE 7. 2: ANNUAL REAL AVERAGE RURAL WHOLESALE PRICES (GH₵ PER MT).
TABLE 7. 3: NATIONAL AVERAGE PRICES OF SELECTED AGRICULTURAL INPUTS (GH₵)
TABLE 7.4: COST AND FERTILIZER: FULL VS. SUBSIDIZED COST OF FERTILIZER – 2020
TABLE 7.5: COST AND QUANTITY OF FERTILIZER SUBSIDY

TABLE 7.6: COST AND QUANTITY OF SEED SUBSIDY
TABLE 8. 1: CONTRIBUTION OF VARIOUS SUB-SECTORS TO AGRICULTURAL GDP (2013 CONSTANT PRICES) (%)
TABLE 8. 2: SHARE OF AGRICULTURE AND OTHER SECTORS IN GDP (%)
TABLE 8. 3: AGRICULTURE AND OTHER SECTOR GDP GROWTH RATES AT 2013 CONSTANT PRICES (%)
TABLE 8. 4: AGRICULTURE SUB- SECTOR GDP GROWTH RATES AT 2013 CONSTANT PRICES (%)
TABLE 8. 5: PERFORMANCE OF NON-TRADITIONAL AGRICULTURAL EXPORTS
TABLE 8. 6: VOLUME OF MAIN NON-TRADITIONAL AGRICULTURAL EXPORTS (MT.)
TABLE 8. 7: VALUE OF MAIN AGRICULTURAL NON-TRADITIONAL EXPORTS (US $'000)
TABLE 8. 8: CEREAL IMPORTS
TABLE 8. 9: FERTILIZER IMPORTS
TABLE 8. 10: PESTICIDE IMPORTS

LIST OF FIGURES

FIGURE 1: LARGE LAND COVER CLASSES
FIGURE 2: SMALL LAND COVER CLASSES
FIGURE 3: SHARE OF TOTAL LABOUR FORCE BY SECTOR (PERSONS AGED 15 YEARS AND OLDER)
FIGURE 4: TOP FIVE MAIZE PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)
FIGURE 5: TOP FIVE RICE PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)
FIGURE 6: TOP FIVE SORGHUM PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)
FIGURE 7: TOP FIVE CASSAVA PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)
FIGURE 8: TOP FIVE YAM PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)
FIGURE 9: TOP FIVE PLANTAIN PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)
FIGURE 10: TOP FIVE COWPEA PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)
FIGURE 11: TOP FIVE SOYABEAN PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)
FIGURE 12: PERCENTAGE SHARE OF TOTAL LIVE ANIMAL IMPORTS BY SPECIES
FIGURE 13: ANNUAL AQUACULTURE PRODUCTION (MT)
FIGURE 14: AGRICULTURAL GDP (%) BY SUB-SECTOR

LIST OF APPENDICES

APPENDIX 1: AVERAGE RURAL WHOLESALE PRICE FOR MAIZE
APPENDIX 2: AVERAGE RURAL WHOLESALE PRICE FOR RICE (LOCAL)
APPENDIX 3: AVERAGE RURAL WHOLESALE PRICE FOR MILLET
APPENDIX 4: AVERAGE RURAL WHOLESALE PRICE FOR SORGHUM
APPENDIX 5: AVERAGE RURAL WHOLESALE PRICE FOR CASSAVA
APPENDIX 6: AVERAGE RURAL WHOLESALE PRICE FOR YAM
APPENDIX 7: AVERAGE RURAL WHOLESALE PRICE FOR COCOYAM
APPENDIX 8: AVERAGE RURAL WHOLESALE PRICE FOR PLANTAIN
APPENDIX 9: AVERAGE RURAL WHOLESALE PRICE FOR GROUNDNUT
APPENDIX 10: AVERAGE RURAL WHOLESALE PRICE FOR TOMATO
APPENDIX 11: AGRO-ECOLOGICAL ZONES IN GHANA
APPENDIX 12: SOILS-CROP SUITABILITY MAP OF GHANA
APPENDIX 13: IMPORTS OF ANIMAL FEED (MT)
APPENDIX 14: CRITERIA FOR ESTIMATING DOMESTIC MEAT PRODUCTION
APPENDIX 15: ANNUAL PRODUCTION OF SOME MAJOR CROPS IN GHANA (MT)
APPENDIX 16: ANNUAL CULTIVATED AREA OF SOME MAJOR CROPS IN GHANA (HA)
APPENDIX 17: TOP FIVE MAIZE PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)
APPENDIX 18: TOP FIVE RICE PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)
APPENDIX 19: TOP FIVE SORGHUM PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)
APPENDIX 20: TOP FIVE CASSAVA PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)
APPENDIX 21: TOP FIVE YAM PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)
APPENDIX 22: TOP FIVE PLANTAIN PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)
APPENDIX 23: TOP FIVE COWPEA PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)
APPENDIX 24: TOP FIVE SOYABEAN PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)
APPENDIX 25: DOMESTIC MEAT PRODUCTION VRS. IMPORTED MEAT (MT)
APPENDIX 26: INDUSTRY OF CURRENTLY EMPLOYED PERSONS AGED 15 AND OLDER BY LOCALITY AND SEX (%)
APPENDIX 27: COMPARISON OF AVERAGE YIELD PERFORMANCE OF MAIZE BY REGION WITH NATIONAL AVERAGE. AND ACHIEVABLE (POTENTIAL) YIELDS.
APPENDIX 28: COMPARISON OF AVERAGE YIELD PERFORMANCE OF RICE BY REGION WITH NATIONAL AVERAGE. AND ACHIEVABLE (POTENTIAL) YIELDS
APPENDIX 29: ADMINISTRATIVE MAP OF GHANA

SECTION 1: BACKGROUND OF GHANA

TABLE 1.1: GEOGRAPHIC BACKGROUND OF GHANA

GEOGRAPHIC LOCATION:	Western Africa, bordering the Gulf of Guinea, between Cote d'Ivoire and Togo. Latitude 4° 44'N and 11° 11'N, Longitude 3° 11' W and 1° 11'E.
AREA:	Total Area: 238,533 sq. km (Land Area: 227,533 sq. km, Water Area: 11,000 sq. km
BOUNDARY:	Total: 2,420 km Border Countries: Burkina Faso 602 km, Cote d'Ivoire 720 km, Togo 1098 km
COASTLINE:	539 km
CLIMATE:	Tropical; Warm and Comparatively Dry Along South East Coast; Hot and Humid in South West; Hot and Dry in North
MARITIME CLAIMS	Territorial Sea: 12 nm, Contiguous Zone: 24 nm, Exclusive Economic Zone: 200 nm, Continental Shelf: 200 nm
TERRAIN:	Mostly Low Plains with Dissected Plateau in South-Central Area
ELEVATION:	Highest Point: Mount Afadjato 885 m, Lowest Point: Atlantic Ocean 0 m, Mean Elevation: 190 m
NATURAL RESOURCES:	Gold, Timber, Diamonds, Bauxite, Manganese, Fish, Water bodies, Petroleum, Salt, Limestone

SOURCES: CIA WORLD FACT BOOK (2021)

TABLE 1.2: DEMOGRAPHIC BACKGROUND OF GHANA

CAPITAL	Accra
ADMINISTRATIVE REGIONS	16[1]
ADMINISTRATIVE DISTRICTS	260 (Metropolitan = 6, Municipal = 109, District = 145)
POPULATION	30,955,204[2]
POPULATION GROWTH RATE:	2.10%
ETHNIC GROUPS:	Akan 47.5%, Mole-Dagbon 16.6%, Ewe 13.9%, Ga-Dangme 7.4%, Gurma 5.7%, Guan 3.7%, Grusi 2.5%, Mande 1.1%, other 1.4%
LANGUAGES:	Asante 16%, Ewe 14%, Fante 11.6%, Boron (Brong) 4.9%, Dagomba 4.4%, Dangme 4.2%, Dagarte (Dagaba) 3.9%, Kokomba 3.5%, Akyem 3.2%, Ga 3.1%, other 31.2%
RELIGIONS:	Christian 71.2%, Muslim 17.6%, Traditional 5.2%, None 5.2%, Other 0.8%

SOURCES: CIA WORLD FACT BOOK (2021)

1 REGIONS: WESTERN, WESTERN NORTH, CENTRAL, GREATER ACCRA, VOLTA, OTI, EASTERN, ASHANTI, BONO, BONO EAST, AHAFO, NORTHERN, NORTH EAST, SAVANNAH, UPPER EAST AND UPPER WEST. 2010 POPULATION AND HOUSING CENSUS GENERAL REPORT

2 GSS 2020 POPULATION PROJECTIONS

TABLE 1.3: ECONOMIC BACKGROUND OF GHANA

GDP (PURCHASING POWER PARITY)	$ 164.8 Billion (2020)
GDP PER CAPITA	$ 2,213 (2020)
GDP GROWTH RATE	0.40% (2020)
GDP	$ 68.5 Billion (2020)
INFLATION RATE (CONSUMER PRICES)	10.4% (December 2020)
GDP – COMPOSITION	Agriculture: 20.5% (2020)
	Industry: 31.6% (2020)
	Services: 47.9% (2020)
AGRICULTURAL PRODUCE:	Maize, Rice, Cassava, Yam, Plantain, Cocoyam, Oil Palm, Rubber, Cocoa, Citrus, Pineapple.
INDUSTRIES:	Mining, Lumbering, Light Manufacturing, Aluminium Smelting, Food Processing, Cement, Small Commercial Ship Building, Petroleum
EXPORTS:	$13.84 Billion: Gold, Crude Petroleum, Cocoa Products, Manganese, Cashew Nut. PARTNERS: Switzerland 23%, India 17%, China 12%, UAE 8%, South Africa 8% (2019)
IMPORTS:	$12.65 Billion (2017 Est.) Metal Tubing, Ships, Cars, Refined Petroleum, Rice PARTNERS: China 24%, Nigeria 22%, US 5% (2019)

SOURCES: CIA WORLD FACT BOOK (2021), ANNUAL GDP REPORT – APRIL 2021 (GSS)

SECTION 2: LAND USE, VEGETATION, SOILS AND CLIMATE

TABLE 2.1: LAND USE

CATEGORY	AREA (SQ. KM)	PERCENTAGE
LAND	227,533	100 %
AGRICULTURAL LAND	157,225	69.1%
ARABLE LAND	47,099	20.7%
PERMANENT CROPS	27,076	11.9%
PERMANENT PASTURE	83,050	36.5%
FOREST	48,237	21.2%
OTHER	22,071	9.7%
WATER	11,000	100%

SOURCES: CIA WORLD FACT BOOK (2021). OTHERS (INCLUDE: FOREST RESERVES, SAVANNAH, WOODLAND ETC), WATER (INCLUDE:

TABLE 2.2: LAND USE PATTERN

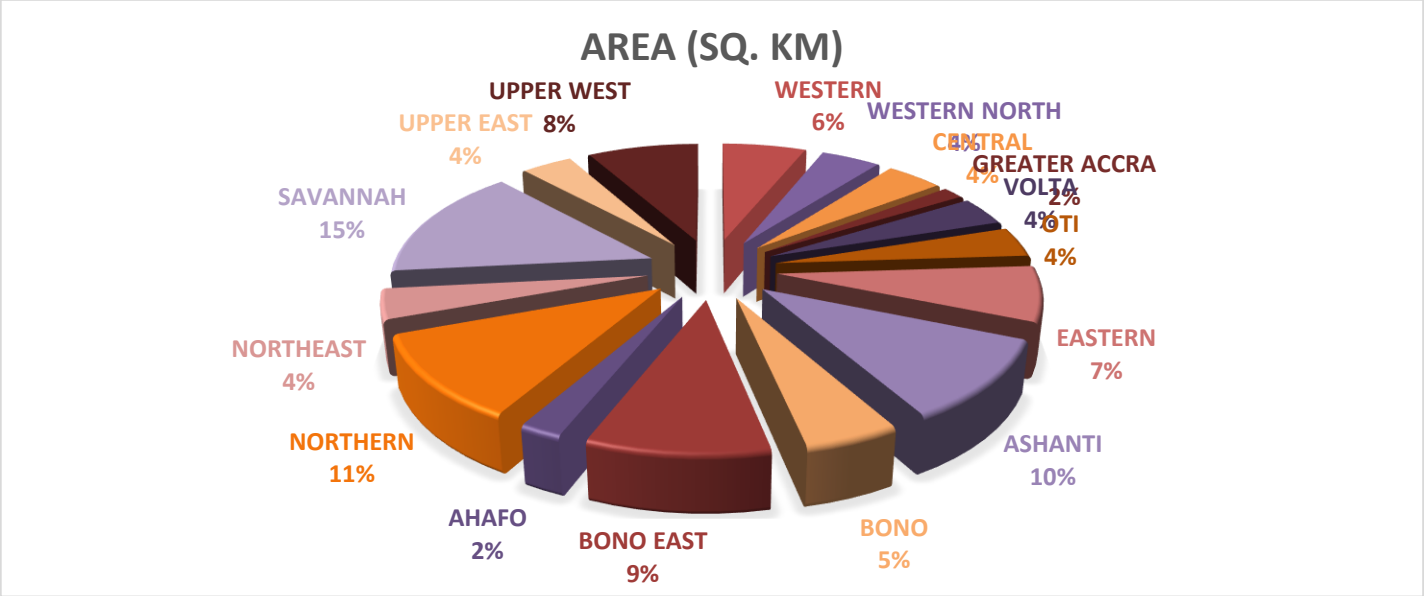
LAND USE	('000) SQ.KM	% OF TOTAL
AGRICULTURE		
ANNUAL CROPS	12	5
TREE CROPS	17	7
BUSH FALLOW AND OTHER USES	60	25
UNIMPROVED PASTURE	36	15
SUB TOTAL	125	52
NON-AGRICULTURE		
FOREST RESERVES	26	11
SAVANNAH WOODLAND	71	30
WILDLIFE RESERVES	12	5
UNRESERVED FOREST	5	2
SUB TOTAL	114	48
TOTAL	239	100

SOURCE: MINISTRY OF FOOD AND AGRICULTURE, MEDIUM TERM AGRIC. DEVELOPMENT PROGRAM (MTADP), (1990).

TABLE 2.3: LAND AREA OF THE 16 ADMINISTRATIVE REGIONS

REGIONS	AREA (SQ. KM)
WESTERN	14,227
WESTERN NORTH	10,068
CENTRAL	9,631
GREATER ACCRA	3,651
VOLTA	8,704
OTI	9,116
EASTERN	16,705
ASHANTI	24,260
BONO	11,437
BONO EAST	21,945
AHAFO	5,142
NORTHERN	25,545
NORTH EAST	9,088
SAVANNAH	34,084
UPPER EAST	8,628
UPPER WEST	18,882

SOURCE: THE GHANA SURVEY DEPT. (2020).



2.1 VEGETATION

2.1.1 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 parts 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 savannah, woodlands, and forests. From 1975 to 2000, agricultural lands expanded from 13 to 28 percent of Ghana's total area and continued to expand 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 about 6 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 cover. 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).*

TABLE 2.4: LAND COVER CLASSES

	1975 AREA (KM^2)	PERCENT OF TOTAL AREA	2000 AREA (KM^2)	PERCENT OF TOTAL AREA	2013 AREA (KM^2)	PERCENT OF TOTAL AREA
AGRICULTURE	31,600	13.22	67,364	28	77,896	33
AGRICULTURE IN SHALLOWS AND RECESSION	4	0.00	4	0	64	0
BARE SOIL	84	0.04	104	0.04	100	0
CLOUD	15,512	6.49	224	0.09	-	0
DEGRADED FOREST	33,008	13.81	30,528	12.77	27,452	11
FOREST	16,444	6.88	15,560	6.51	12,420	5
GALLERY FOREST AND RIPARIAN FOREST	6,172	2.58	5,636	2.36	3,756	2
HERBACEOUS SAVANNA	440	0.18	440	0.18	440	0
IRRIGATED AGRICULTURE	28	0.01	164	0.07	504	0
MANGROVE	20	0.01	40	0.02	24	0
OPEN MINE	-	0.00	128	0.05	428	0
PLANTATION	48	0.02	116	0.05	316	0
ROCKY LAND	56	0.02	52	0.02	24	0
SANDY AREA	16	0.01	16	0.01	40	0
SAVANNA	121,580	50.86	103,368	43.24	96,736	40
SETTLEMENTS	1,468	0.61	2,564	1.07	3,836	2
WATER BODIES	8,372	3.5	8,000	3.35	8,508	4
WETLAND – FLOODPLAIN	4,044	1.69	4,516	1.89	6,276	3
WOODLAND	136	0.06	208	0.09	212	0
TOTAL MAPPED AREA (KM^2)	239,032		239,032		239,032	

SOURCE: CILSS (2016) LANDSCAPES OF WEST AFRICA: A WINDOW ON A CHANGING WORLD. US GEOLOGICAL SURVEY.

FIGURE 1: LARGE LAND COVER CLASSES

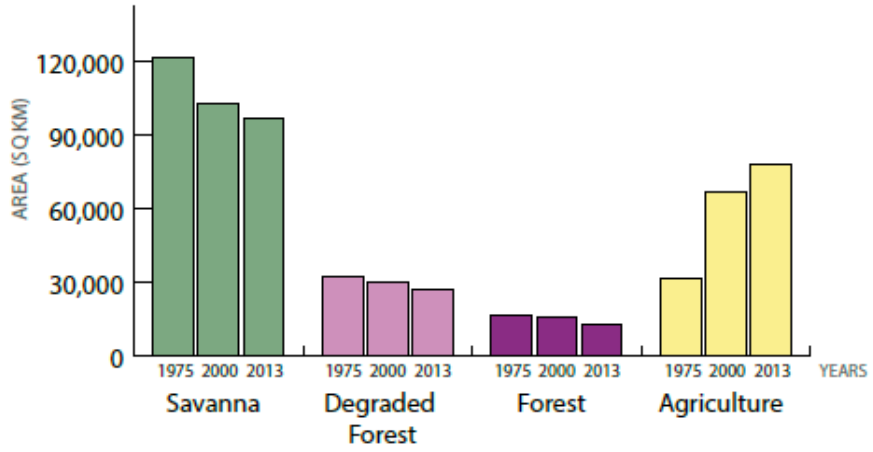
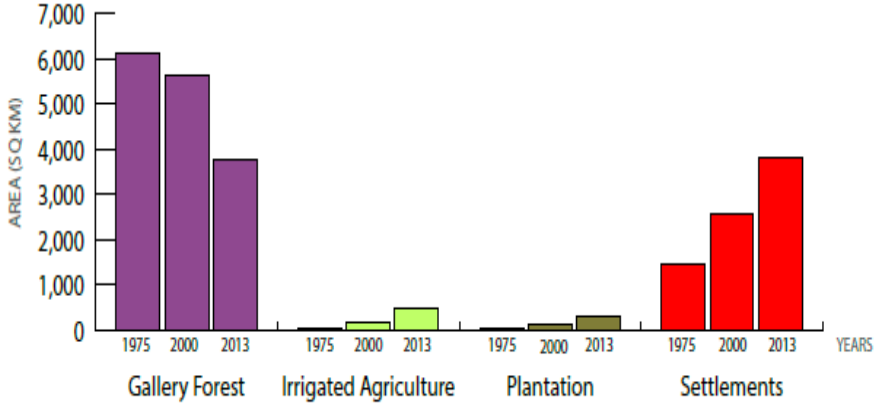


FIGURE 2: SMALL LAND COVER CLASSES



SOURCE: CILSS (2016) LANDSCAPES OF WEST AFRICA: A WINDOW ON A CHANGING WORLD. US GEOLOGICAL SURVEY

2.1.2 AGRO-ECOLOGICAL ZONES

There are seven main agro-ecological zones defined, based on climate, reflected by the natural vegetation, and influenced by the soils. These are Sudan Savanna, Guinea Savanna, Transitional, Deciduous Forest, Moist Evergreen, Wet Evergreen and Coastal Savanna. For rainfall data gathering, Moist Evergreen and Wet Evergreen Ecological zones are classified as Rain Forest. See appendix 11 for map.

TABLE 2.5: RAINFALL DISTRIBUTION BY AGRO-ECOLOGICAL ZONES

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

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

SOURCE: MINISTRY OF LAND AND FORESTRY, ACCRA

2.2 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 SAVANNA	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 SAVANNA	4.10-7.40	0.00-6.74	0.00-0.14	0.00-7.60	0.00-7.85
SUDAN SAVANNA	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

2.3 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 use of hoe and cutlass. Mechanized farming is minimal; however, bullock farming is practiced in some parts of the country 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.

2.4 CLIMATE

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

TABLE 2.9: ANNUAL REGIONAL RAINFALL DATA IN MILLIMETERS (MM)

REGION		WESTERN	CENTRAL	GREATER ACCRA	VOLTA	EASTERN	ASHANTI	BRONG AHAFO	NORTHERN	UPPER EAST	UPPER WEST	TOTAL	AVERAGE
2011		1,445	1,144	812	928	1,337	1,170	823	1,083	665	523	9,929	993
2012		1,298	1,029	646	1,061	1,204	1,224	1,049	1,002	956	1,136	10,605	1,061
2013		1,025	920	365	1,075	1,080	1,215	1,814	1,066	997	434	9,992	999
2014		1,654	1,447	777	1,368	1,271	1,381	1,239	1,084	707	300	11,228	1,123
2015		1,144	1,051	689	1,213	999	1,025	1,048	870	918	724	9,679	968
2016		1,268	894	786	1,085	1,171	790	852	860	503	448	8,658	866
2017		1,780	1,551	833	1,189	1,547	1,303	1,061	1,017	857	747	11,885	1,189
2018		1,512	1,743	830	1,105	1,277	1,463	1,273	1,207	950	714	12,074	1,207
2019		1,681	1,662	884	1,483	1,395	1,175	1,325	1,135	1,862	1,097	13,699	1,370
2020		1,218	30	814	1,437	1,041	1,129	1,186	762	1,149	1,094	10,445	1,899
10-YR	AVERAGE	1,456	1,280	749	1,152	1,276	1,214	1,174	1,069	940	675	10,984	1,099
30-YR	AVERAGE*	1,558	1,252	788	1,340	1,180	1,345	1,244	1,155	912	1,022	11,796	1,180
(%) CHANGE	2020/30-YR AVERAGE	15.7	-97.6	3.3	7.2	-11.8	-16.1	-4.7	-34	26	7	-11.5	60.9
(%) CHANGE	2020/2019	7.3	-98.2	-7.9	-3.1	-25.4	-3.9	-10.5	-32.9	-38.3	-0.3	-23.8	38.6

SOURCE: GHANA METEOROLOGICAL AGENCY

SECTION 3: AGRICULTURE POPULATION

TABLE 3.1: DISTRIBUTION OF AGRICULTURAL AND NON-AGRICULTURAL HOUSEHOLDS BY REGION

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

SOURCE: GHANA STATISTICAL SERVICES (GSS): GHANA CENSUS OF AGRICULTURE (2018)

TABLE 3.2: DISTRIBUTION OF AGRICULTURAL AND NON-AGRICULTURAL INSTITUTIONS BY REGION

REGION	INSTITUTIONS	AGRIC. INSTITUTIONS	NON-AGRIC. INSTITUTIONS	CAPTURE FISHERIES	
				AGRIC. INSTITUTIONS	NON-AGRIC. INSTITUTIONS
ALL REGIONS	578,641	37,000	541,641	177	292
WESTERN	67,355	3,739	63,616	11	52
CENTRAL	54,659	3,338	51,321	11	76

REGION	INSTITUTIONS	AGRIC. INSTITUTIONS	NON-AGRIC. INSTITUTIONS	CAPTURE FISHERIES	
				AGRIC. INSTITUTIONS	NON-AGRIC. INSTITUTIONS
GREATER ACCRA	152,625	4,058	148,567	32	69
VOLTA	31,745	2,957	28,788	34	34
EASTERN	61,717	6,006	55,711	65	16
ASHANTI	85,034	5,844	79,190	6	20
BRONG-AHAFO	45,863	4,215	41,648	5	12
NORTHERN	38,590	2,998	35,592	6	6
UPPER EAST	24,164	2,182	21,982	3	5
UPPER WEST	16,889	1,663	15,226	4	2

SOURCE: GHANA STATISTICAL SERVICES (GSS): GHANA CENSUS OF AGRICULTURE (2018

)

TABLE 3.3: PROPORTION OF AGRICULTURAL INSTITUTIONS BY REGION

REGION	ALL INSTITUTIONS	AGRICULTURE INSTITUTIONS	PROPORTION OF INSTITUTIONS ENGAGED IN AGRICULTURE
ALL REGIONS	578,641	37,000	6
WESTERN	67,355	3,739	6
CENTRAL	54,659	3,338	6
GREATER ACCRA	152,625	4,058	3
VOLTA	31,745	2,957	9
EASTERN	61,717	6,006	10
ASHANTI	85,034	5,844	7
BRONG-AHAFO	45,863	4,215	9
NORTHERN	38,590	2,998	8
UPPER EAST	24,164	2,182	9
UPPER WEST	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
ALL REGIONS	2,568,146	91.2	46.2	41.1	0.3	2	0.4
WESTERN	280,496	83.4	78.3	35.1	0.5	4.5	1.1
CENTRAL	260,347	91.2	67.6	30.8	0.3	2.1	0.2
GREATER ACCRA	91,236	67.9	27.6	32.6	1.1	0.7	0.1
VOLTA	283,288	93.6	21.2	36.5	0.3	1.1	0.6
EASTERN	314,574	90.5	58	39.7	0.2	1.3	0.2
ASHANTI	436,019	90.9	64.4	30.7	0.2	1.4	0.3
BRONG-AHAFO	319,548	91.5	58.3	32.1	0.2	2.4	0.3
NORTHERN	297,743	97.1	10.4	58.9	0.2	1.2	0.7
UPPER EAST	186,859	98	6.9	75.3	0.2	3.4	0.3
UPPER WEST	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 AGRICULTURAL 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
ALL REGIONS	4,864,276	2,568,146	511,492	100	2,296,130	64,025	100
WESTERN	475,820	280,496	43,895	9	195,324	6,944	11
CENTRAL	519,869	260,347	73,059	14	259,522	15,132	24
GREATER ACCRA	834,058	91,236	15,425	3	742,822	12,319	19
VOLTA	449,200	283,288	108,012	21	165,912	8,610	13
EASTERN	505,788	314,574	66,282	13	191,214	4,932	8
ASHANTI	910,647	436,019	59,465	12	474,628	6,970	11
BRONG-AHAFO	460,879	319,548	22,898	5	141,331	3,418	5
NORTHERN	373,707	297,743	60,215	12	75,964	3,359	5
UPPER EAST	213,644	186,859	35,049	7	26,785	1,268	2
UPPER WEST	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 AGRICULTURAL PRODUCE BY REGION

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

SOURCE: GHANA STATISTICAL SERVICES (GSS): GHANA CENSUS OF AGRICULTURE (2018)

3.1 DISTRIBUTION OF LABOUR FORCE BY ECONOMIC ACTIVITY

Figure 3 presents the share (%) of total labour force (number 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 Services. Agriculture's contribution to total employment is estimated to be 38.3 percent, with the Services and Industry sectors accounting for 43.5 percent and 18.2 percent respectively (GLSS7, 2019). This means, agriculture is the second largest employer, after the Services Sector. Refer to Appendix 18 for further details.

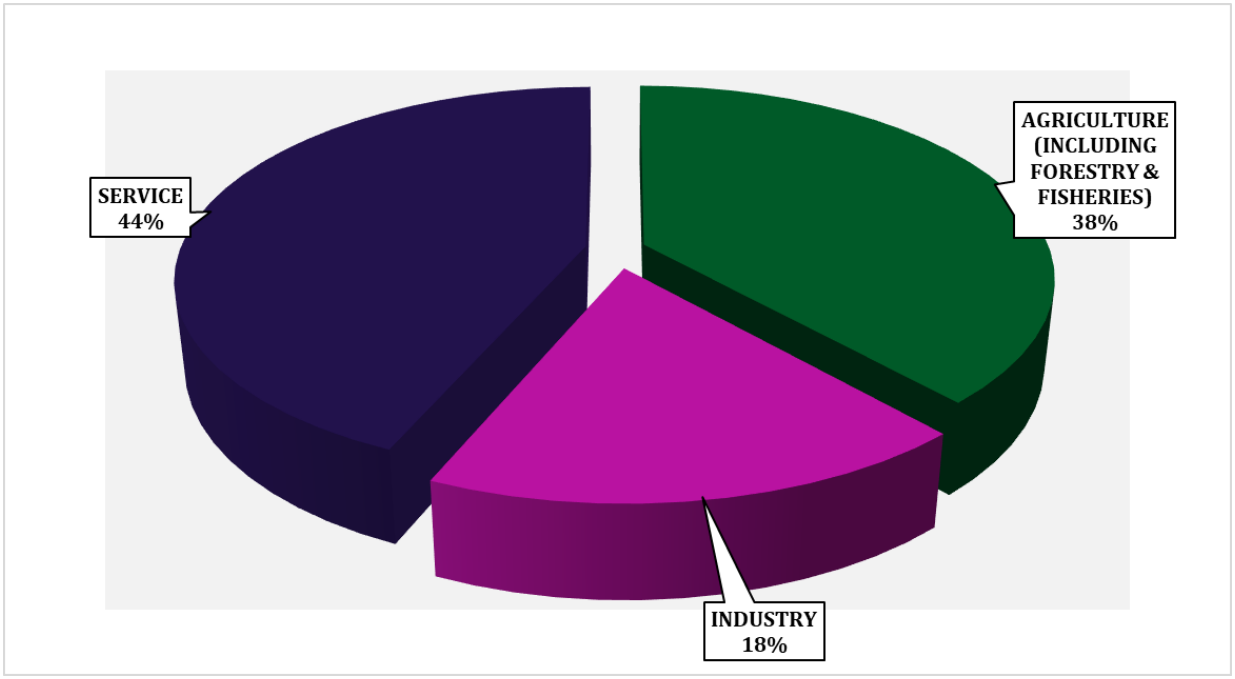


FIGURE 3: SHARE OF TOTAL LABOUR FORCE BY SECTOR (PERSONS AGED 15 YEARS AND OLDER)

SECTION 4: AGRICULTURE PRODUCTIVITY

4.1: CROP 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: CROPPED AREA OF MAJOR CROPS ('000 HECTARES)

CROP	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
MAIZE	1,023	1,042	1,023	1,025	880	865	985	1,021	1,150	1,189
RICE (PADDY)	197	189	216	224	233	236	241	260	282	291
MILLET	179	172	161	162	162	137	156	142	148	139
SORGHUM	243	231	226	227	228	201	224	228	226	227
CASSAVA	889	869	875	889	917	879	917	977	1,021	1,061
YAM	204	426	422	428	430	427	493	470	500	505
COCOYAM	204	196	194	200	200	206	204	203	214	213
PLANTAIN	336	337	340	357	363	358	363	387	409	428
GROUNDNUT	357	345	329	335	336	327	316	320	337	337
COWPEA	182	169	162	166	163	147	154	157	169	169
SOYA BEAN	86	85	85	87	86	87	102	103	112	116

SOURCES: STATISTICS RESEARCH & INFORMATION DIRECTORATE, MOFA (2021)

TABLE 4.2: CROPPED AREA OF OTHER CROPS ('000 HECTARES)

CROP	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
COCOA	1,600	1,601	1,651	1,684	1,717	1,752	1,787	1,827		1,450
OIL PALM	382	397	409	349	426	434	347	351	359	358
CASHEW	82	87	89	91	93	95	95	119	146	156
COCONUT	25	25	26	27	27	28	28	29	29	77
RUBBER	26	26	27	27	28	28	29	30	30	58
CITRUS	16	17	17	17	18	18	18	19	19	25
COFFEE	0	0	1	1	1	1	1	1	1	1
MANGO	7	7	7	8	8	8	8	8	8	8
BANANA	8	8	8	8	8	8	8	9	9	8

CROP	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
PAWPAW	1	2	2	2	2	2	2	2	2	2
PINEAPPLE	10	10	10	11	11	11	11	11	12	13
TOMATO	45	45	46	47	48	49	50	51	52	53
PEPPER (CHILLI)	13	14	14	14	15	15	15	16	16	15
SHALLOT	5	5	5	6	6	6	6	6	6	4
OKRO	3	3	3	3	3	3	3	3	4	3
ONION	8	8	8	8	9	9	9	9	9	11
GARDEN EGGS	6	6	6	6	7	7	7	7	7	7

SOURCES: STATISTICS RESEARCH & INFORMATION DIRECTORATE, MOFA (2021)

TABLE 4.3: GROWTH RATE OF AVERAGE CROPPED AREA OF MAJOR CROPS

CROP	AVERAGE AREA ('000 HA)		GROWTH RATE	AVERAGE AREA ('000 HA)		GROWTH RATE
	2009-2011	2012-2014		2015-2017	2018-2020	
MAIZE	9,898	10,300	4.07%	9,100	11,203	23.10%
RICE (PADDY)	1,804	2,100	16.42%	2,366	2,778	17.42%
MILLET	1,807	1,652	-8.57%	1,516	1,431	-5.58%
SORGHUM	2,544	2,279	-10.44%	2,177	2,275	4.52%
CASSAVA	8,834	8,774	-0.67%	9,042	10,202	12.83%
YAM	3,892	4,253	9.29%	4,426	4,915	11.06%
COCOYAM	2,114	1,969	-6.87%	2,035	2,104	3.36%
PLANTAIN	3,298	3,446	4.49%	3,614	4,085	13.02%
GROUNDNUT	3,489	3,362	-3.63%	3,267	3,314	1.43%
COWPEA	1,706	1,655	-2.99%	1,544	1,653	7.06%
SOYBEAN	798	856	7.28%	919	1,105	20.27%

SOURCES: STATISTICS RESEARCH & INFORMATION DIRECTORATE, MOFA (2021), BASED ON TABLE 4.1 AND APPENDIX 16

GROWTH RATE IS BASED ON THE COMPARISON OF THE AVERAGE OF 2009 – 2011 WITH THE AVERAGE OF 2012 – 2014 AND THE AVERAGE OF 2015 - 2017 WITH AVERAGE OF 2018 – 2020.

TABLE 4.4: PRODUCTION OF MAJOR CROPS ('000 METRIC TONS)

CROP	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
MAIZE	1,683	1,950	1,764	1,769	1,692	1,722	2,011	2,306	2,911	3,071
RICE (PADDY)	463	481	570	604	641	688	722	769	925	973
RICE (MILLED)*	278	332	393	417	443	475	498	531	638	651
MILLET	183	180	155	155	157	159	163	182	230	236
SORGHUM	287	280	257	259	263	230	278	316	347	356
CASSAVA	14,240	14,547	15,990	16,524	17,213	17,798	19,008	20,846	22,750	24,368
YAM	5,855	6,639	7,075	7,119	7,296	7,440	8,253	7,789	8,754	8,946
COCOYAM	1,299	1,270	1,261	1,299	1,301	1,344	1,387	1,461	1,551	1,596

CROP	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
PLANTAIN	3,619	3,556	3,675	3,828	3,952	4,000	4,279	4,688	5,479	5,811
GROUNDNUT	465	475	409	427	417	426	438	521	563	565
COWPEA	237	223	200	201	203	206	211	237	254	257
SOYA BEAN	165	152	139	141	142	143	170	177	193	209

SOURCES: STATISTICS RESEARCH & INFORMATION DIRECTORATE, MOFA (2021)

*NOTE: *69% EXTRACTION RATE BETWEEN 2012-2019, 67% EXTRACTION RATE FOR 2020 MILLED RIC*

TABLE 4.5: PRODUCTION GROWTH RATE FOR MAJOR CROPS

CROP	AVERAGE PRODUCTION ('000 MT)		GROWTH RATE	AVERAGE PRODUCTION ('000 MT)		GROWTH RATE
	2009-2011	2012-2014		2015-2017	2018-2020	
MAIZE	17,251	18,277	5.95%	18,082	27,631	52.81%
RICE (PADDY)	4,493	5,516	22.75%	6,838	8,892	30.05%
MILLET	2,161	1,634	-24.41%	1,600	2,161	35.08%
SORGHUM	3,207	2,652	-17.29%	2,452	3,399	38.61%
CASSAVA	133,252	156,870	17.72%	180,066	226,550	25.82%
YAM	58,645	69,441	18.41%	75,311	84,965	12.82%
COCOYAM	13,861	12,769	-7.88%	13,441	15,359	14.28%
PLANTAIN	35,734	36,866	3.17%	40,772	53,262	30.63%
GROUNDNUT	4,937	4,368	-11.52%	4,256	5,499	29.20%
COWPEA	2,203	2,083	-5.42%	2,071	2,493	20.39%
SOYBEAN	1,408	1,440	2.27%	1,520	1,930	26.97%

SOURCES: STATISTICS RESEARCH & INFORMATION DIRECTORATE, MOFA (2021)

4. 1. 2: ANALYSIS OF PRODUCTION OF MAJOR CROPS BY REGION

Figures 4 to 11 present the five leading (top) regions, based on a 3-year average production (2018-2020), for some selected crops grown in Ghana. Categories of crops considered are cereals (Maize, Rice, Sorghum), roots and tubers (Cassava and Yam), Plantain and legumes (Cowpea and Soyabean). Further details are presented in appendix 17 to 24.

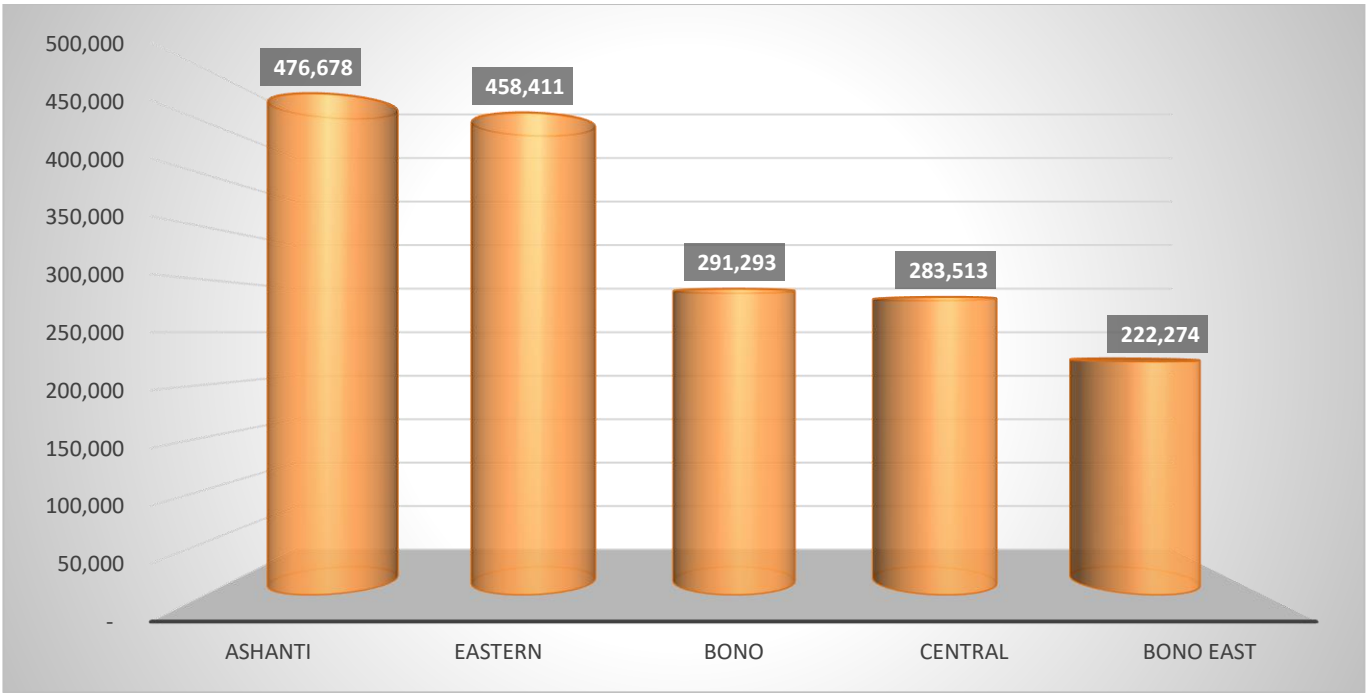


FIGURE 4: TOP FIVE MAIZE PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)

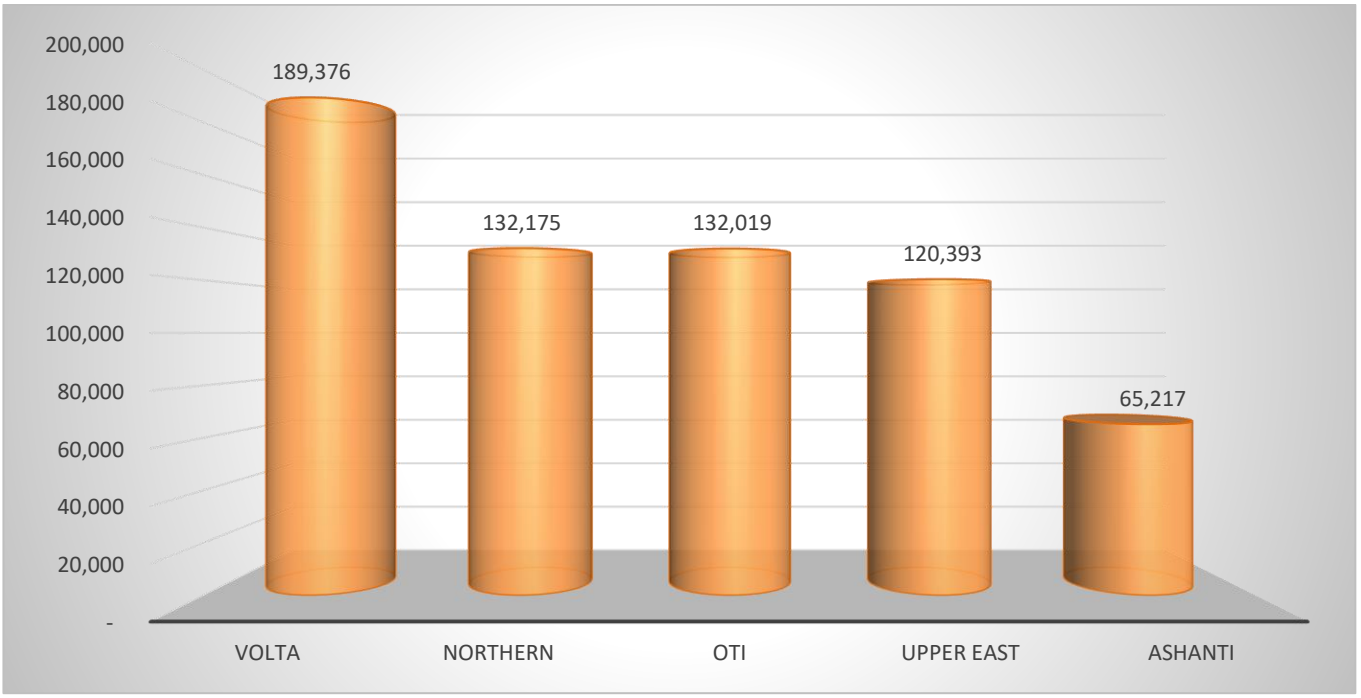


FIGURE 5: TOP FIVE RICE PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)

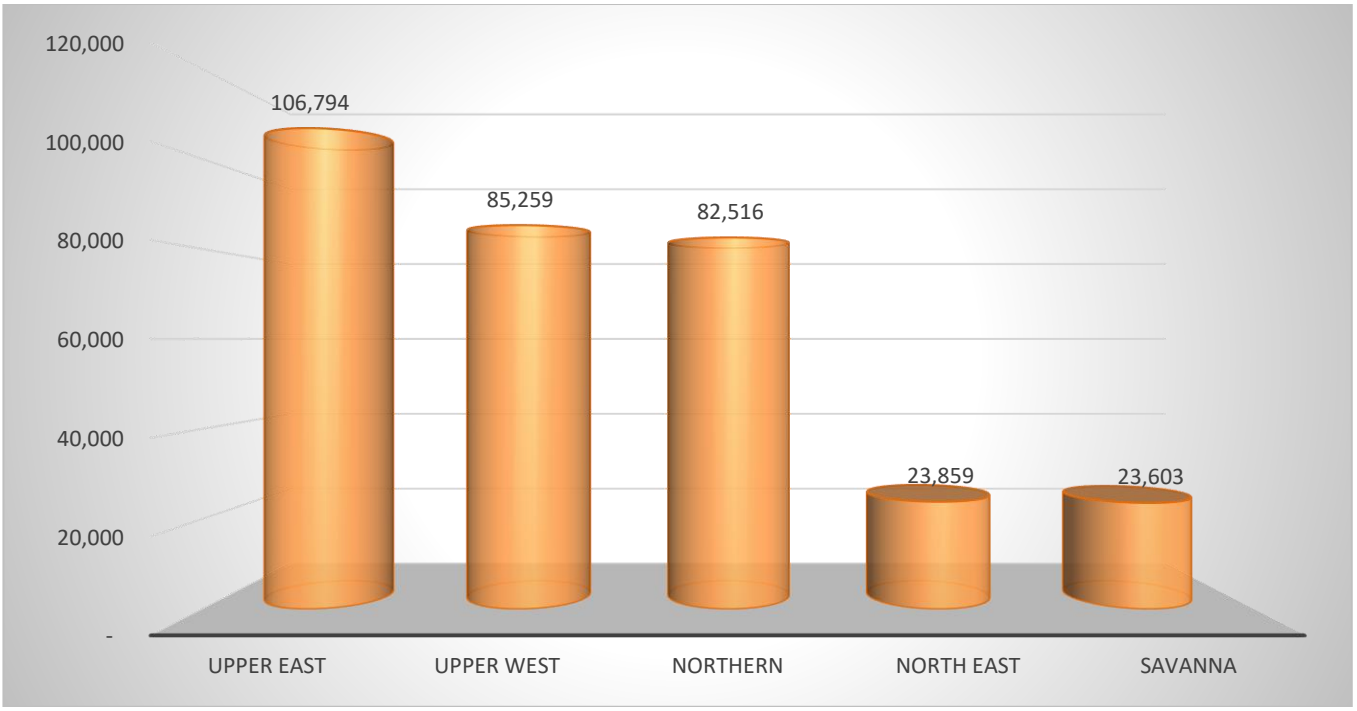


FIGURE 6: TOP FIVE SORGHUM PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)

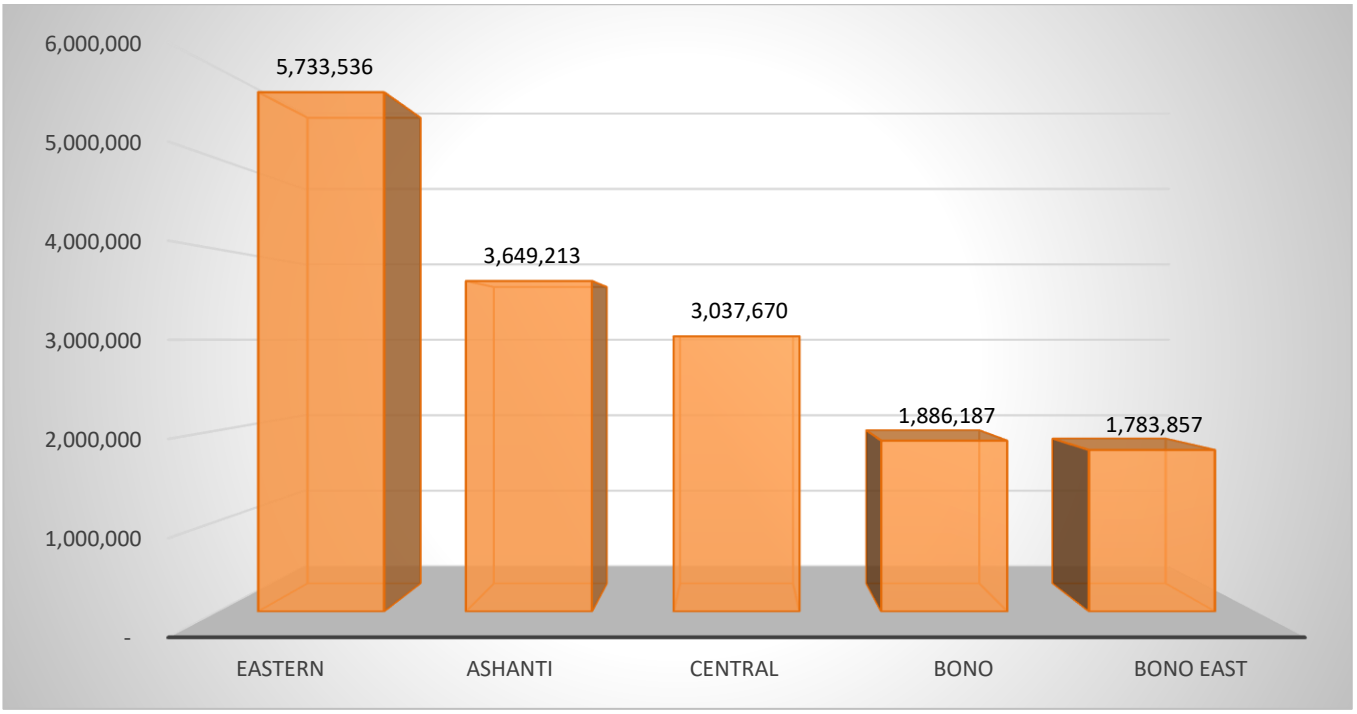


FIGURE 7: TOP FIVE CASSAVA PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)

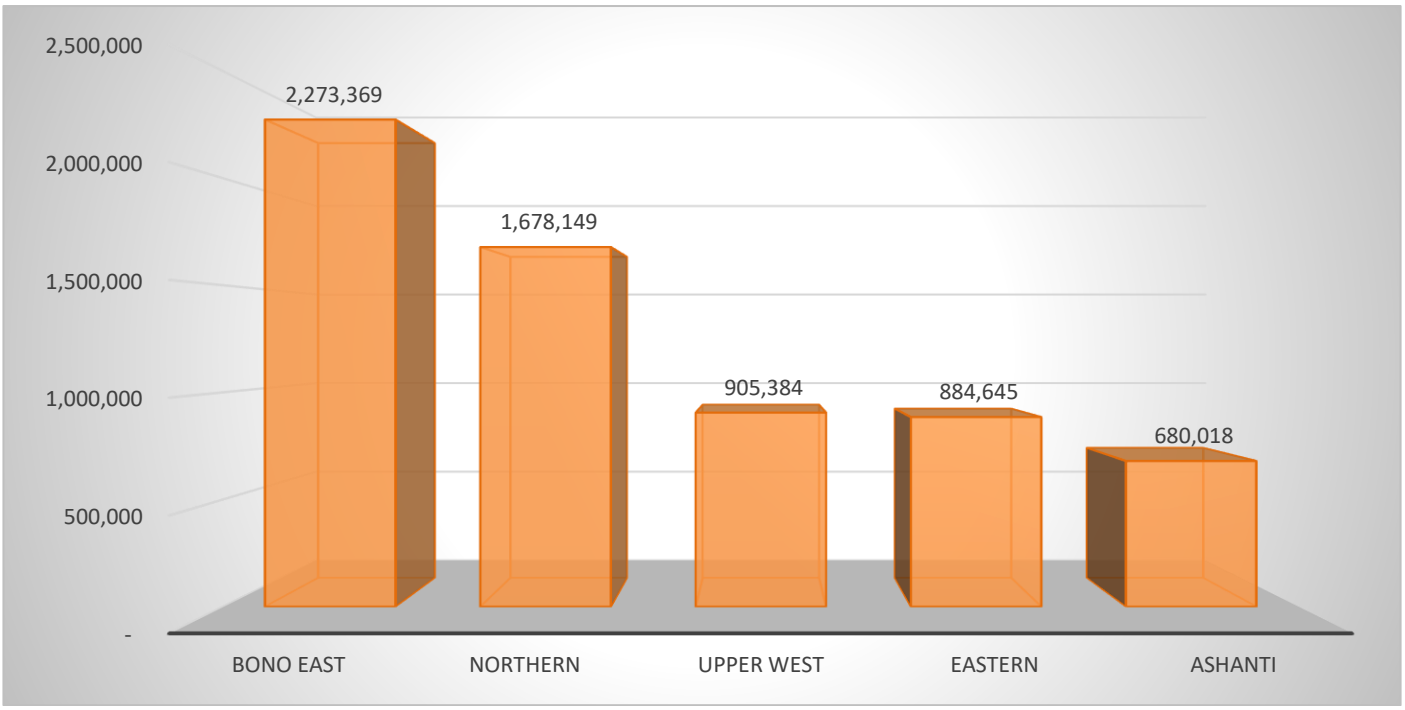


FIGURE 8: TOP FIVE YAM PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)

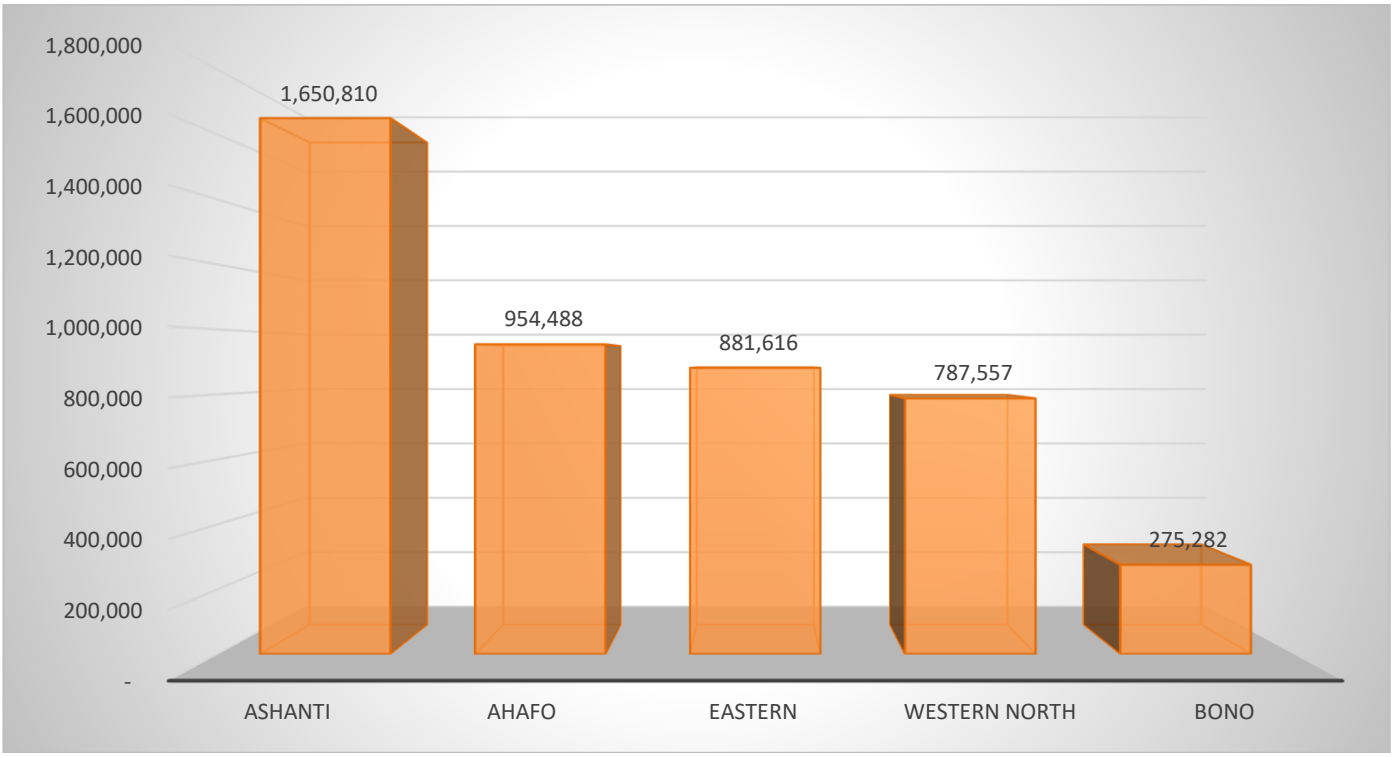


FIGURE 9: TOP FIVE PLANTAIN PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)

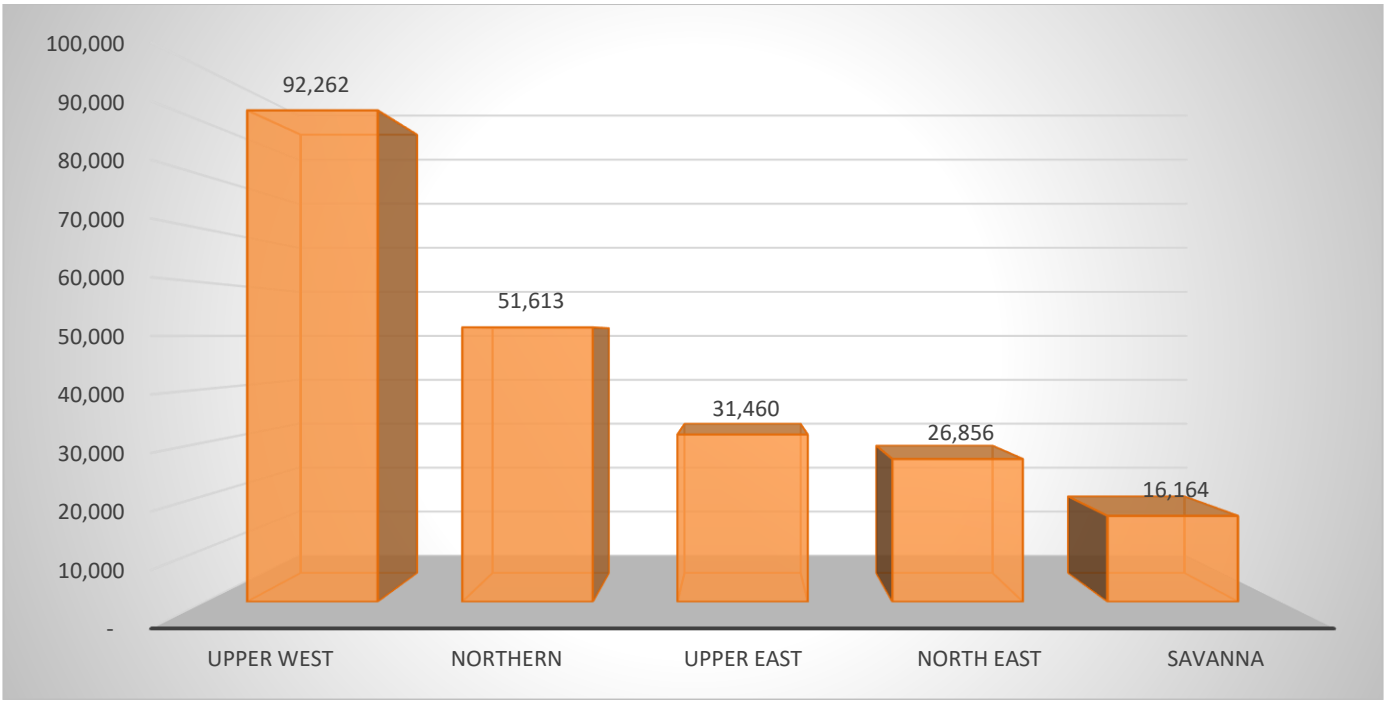


FIGURE 10: TOP FIVE COWPEA PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)

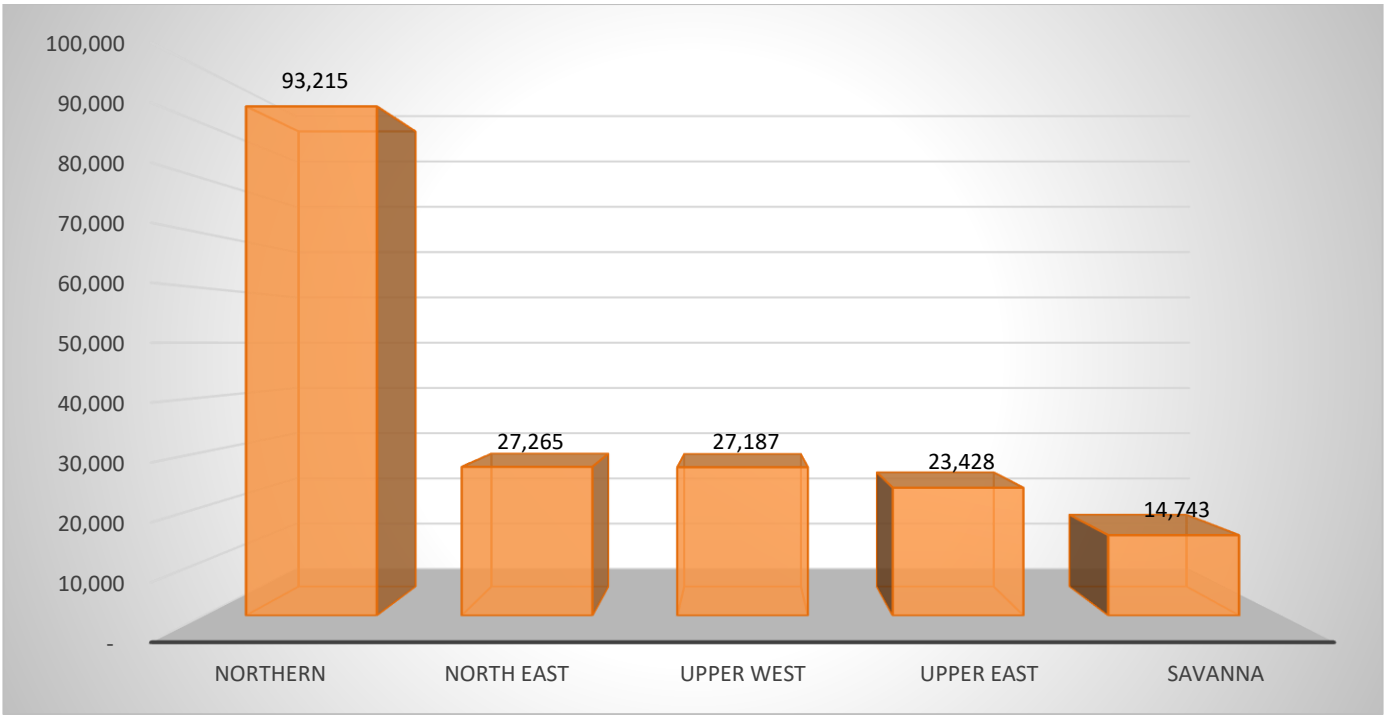


FIGURE 11: TOP FIVE SOYABEAN PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE, 2018-2020)

4. 1. 3: ANALYSIS OF CROP YIELD BY DISTRICT

The following tables (Tables 4.6 to 4.16) 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. The tables compared the three-year average yields (2018-2020) by district, with both the national average and potential (achievable) yields for each crop.

TABLE 4.6: ANALYSIS OF YIELD FOR MAIZE BY DISTRICT

MAIZE (MT/HA)							NATIONAL AVERAGE (2020)	2.48
							POTENTIAL YIELD	5.50
REGION	DISTRICT	2018	2019	2020	3-YEAR AVG.	RANK	3 YEAR AVERAGE YIELD AS % OF NATIONAL AVERAGE.	AVERAGE YIELD AS % OF POTENTIAL YIELDS
ASHANTI	AMANSIE WEST	3.40	3.98	4.38	3.92	1	158.03	71.26
CENTRAL	GOMOA EAST	3.70	3.80	4.22	3.91	2	157.46	71.00
EASTERN	WEST AKIM	4.10	4.10	3.46	3.89	3	156.67	70.65
EASTERN	UPPER WEST AKIM	4.08	4.10	3.00	3.73	4	150.30	67.77
ASHANTI	BEKWAI (AMANSIE EAST)	3.38	3.67	4.02	3.69	5	148.80	67.10
ASHANTI	ATWIMA MPONUA	3.04	3.68	4.06	3.59	6	144.95	65.36
CENTRAL	TWIFO ATTI MORKWA	N/A -	3.50	3.57	3.53	7	142.48	64.24
CENTRAL	ABURA-ASEBU-KWAMANKESE	3.40	3.40	3.78	3.53	8	142.24	64.14
ASHANTI	EJURA SEKYEDUMASE	3.30	3.37	3.91	3.53	9	142.24	64.14
ASHANTI	OBUASI EAST	N/A -	3.26	3.63	3.45	10	138.95	62.65

N/A (NOT AVAILABLE)- District had not been created then

TABLE 4.7: ANALYSIS OF YIELD FOR RICE BY DISTRICT

RICE (MT/HA)							NATIONAL AVERAGE	3.28
							POTENTIAL YIELD	6.00
REGION	DISTRICT	2018	2019	2020	3-YEAR AVERAGE.	RANK	AVERAGE. YIELD AS % OF NATIONAL AVERAGE.	AVERAGE. YIELD AS % OF POTENTIAL YIELDS
VOLTA	KETU NORTH	6.10	6.67	5.95	6.24	1	190.24	104.00
VOLTA	HOHOE MUNICIPAL	5.87	6.38	5.86	6.04	2	184.04	100.61
GREATER ACCRA	GA CENTRAL	-	6.00		6.00	3	182.93	100.00
ASHANTI	AHAFO ANO SOUTHEAST	-	5.93	5.95	5.94	4	181.10	99.00
ASHANTI	AHAFO ANO SOUTHWEST	-	5.93	5.95	5.94	4	181.10	99.00
OTI	JASIKAN	5.81	6.07	5.84	5.91	6	180.08	98.44
VOLTA	SOUTH TONGU	5.70	5.98	5.68	5.79	7	176.42	96.44
OTI	KADJEBI	5.00	5.96	5.90	5.62	8	171.34	93.67
VOLTA	NORTH TONGU	5.00	5.72	5.70	5.47	9	166.87	91.22
OTI	NKWANTA SOUTH	5.01	5.82	5.40	5.41	10	164.94	90.17

TABLE 4.8: ANALYSIS OF YIELD FOR MILLET BY DISTRICT

MILLET (MT/HA)							NATIONAL AVERAGE	1.56
							POTENTIAL YIELD	2.00
REGION	DISTRICT	2018	2019	2020	3-YEAR AVERAGE.	RANK	AVERAGE. YIELD AS % OF NATIONAL AERAVEG.	AVERAGE. YIELD AS % OF POTENTIAL YIELDS
NORTHERN	SABOBA	2.00	2.00	3.47	2.49	1	159.61	124.50
NORTHEAST	WEST MAMPRUSI	2.10	2.10	1.80	2.00	2	128.16	99.97
NORTHEAST	YUNYOO-NASUAN	2.00	2.00	1.97	1.99	3	127.60	99.52
NORTHEAST	EAST MAMPRUSI	2.00	2.00	1.89	1.96	4	125.91	98.21
NORTHERN	GUSHIEGU	1.40	1.40	2.97	1.92	5	123.19	96.08
NORTHERN	ZABZUGU	2.43	2.43	0.79	1.88	6	120.70	94.14
SAVANNAH	EAST GONJA	1.63	1.63	2.37	1.88	7	120.21	93.76
NORTHEAST	CHEREPONI	2.00	2.00	1.59	1.86	8	119.51	93.22
NORTHERN	KUMBUNGU	1.50	1.50	2.56	1.85	9	118.70	92.58
UPPER WEST	WA MUNICIPAL	1.40	2.00	1.99	1.80	10	115.11	89.79

TABLE 4.9: ANALYSIS OF YIELD FOR SORGHUM BY DISTRICT

SORGHUM (MT/HA)							NATIONAL AVERAGE	1.53
							POTENTIAL YIELD	2.00
REGION	DISTRICT	2018	2019	2020	3-YEAR AVERAGE.	RANK	AVERAGE. YIELD AS % OF NATIONAL AVERAGE.	AVERAGE. YIELD AS % OF POTENTIAL YIELDS
SAVANNAH	NORTHEAST GONJA	-	2.34	3.32	2.83	1	185.07	141.58
SAVANNAH	EAST GONJA	2.34	2.34	3.31	2.66	2	174.05	133.15
NORTHEAST	CHEREPONI	2.10	2.10	2.96	2.39	3	155.92	119.28
NORTHERN	SABOBA	2.00	2.00	3.10	2.37	4.5	154.63	118.30
SAVANNAH	CENTRAL GONJA	2.00	2.00	3.10	2.37	5	154.63	118.30
SAVANNAH	SAWLA/TUNA/KALBA	2.00	2.00	2.96	2.32	6	151.57	115.95
NORTHERN	TAMALE METRO	2.00	2.00	2.66	2.22	7	145.12	111.02
NORTHERN	KUMBUNGU	2.00	2.00	2.30	2.10	8	137.15	104.92
UPPER WEST	NANDOM	1.20	2.03	2.75	1.99	9	130.19	99.60
NORTHEAST	WEST MAMPRUSI	2.10	2.10	1.63	1.94	10	127.09	97.22

TABLE 4.10: ANALYSIS OF YIELD FOR CASSAVA BY DISTRICT

CASSAVA (MT/HA)							NATIONAL AVERAGE	22.28
							POTENTIAL YIELD	45.00
REGION	DISTRICT	2018	2019	2020	3-YEAR AVG.	RANK	AVG. YIELD AS % OF NATIONAL AVG.	AVG. YIELD AS % OF POTENTIAL YIELDS
ASHANTI	SEKYERE EAST	44.25	41.64	42.20	42.70	1	191.64	94.88
EASTERN	ATIWA	38.51	38.52	38.66	38.56	2	173.08	85.69
GREATER ACCRA	NINGO-PRAMPRAM	42.50	22.50	42.50	35.83	3	160.83	79.63
CENTRAL	ASSIN SOUTH	33.50	33.50	32.00	33.00	4	148.11	73.33
ASHANTI	BEKWAI (AMANSIE EAST)	30.01	32.21	32.36	31.53	5	141.50	70.06
CENTRAL	ASSIN CENTRAL	-	31.70	30.60	31.15	6	139.81	69.22
EASTERN	UPPER WEST AKIM	30.37	30.79	31.13	30.76	7	138.07	68.36
ASHANTI	AMANSIE WEST	29.32	30.65	30.88	30.28	8	135.92	67.30
EASTERN	WEST AKIM	30.37	30.40	29.67	30.15	9	135.31	66.99
EASTERN	AKUAPIM NORTH	28.96	29.70	30.11	29.59	10	132.80	65.75

TABLE 4.11: ANALYSIS OF YIELD FOR YAM BY DISTRICT

YAM (MT/HA)							NATIONAL AVERAGE	17.52
							POTENTIAL YIELD	52.00
REGION	DISTRICT	2018	2019	2020	3-YEAR AVG.	RANK	AVG. YIELD AS % OF NATIONAL AVG.	AVG. YIELD AS % OF POTENTIAL YIELDS
UPPER WEST	DAFFIAMA-BUSIE-ISSA	24.80	26.14	25.00	25.31	1	144.48	48.68
UPPER WEST	WA MUNICIPAL	24.30	25.65	24.50	24.82	2	141.65	47.72
BONO EAST	ATEBUBU -AMANTIN	17.35	31.70	25.20	24.75	3	141.27	47.60
UPPER WEST	NADOWLI	24.00	25.15	24.10	24.42	4	139.36	46.96
EASTERN	KWAHU AFRAM PLAINS SOUTH	22.82	22.86	23.05	22.91	5	130.76	44.06
EASTERN	KWAHU AFRAM PLAINS NORTH	22.74	22.78	23.00	22.84	6	130.37	43.92
BONO EAST	SENE EAST	17.88	25.30	23.50	22.23	7	126.86	42.74
UPPER WEST	WA EAST	20.89	22.96	21.95	21.93	8	125.19	42.18
OTI	KRACHI NCHUMURU	19.92	22.90	22.76	21.86	9	124.77	42.04
OTI	NKWANTA SOUTH	19.60	23.00	22.80	21.80	10	124.43	41.92

TABLE 4.12: ANALYSIS OF YIELD FOR COCOYAM BY DISTRICT

COCOYAM (MT/HA)							NATIONAL AVERAGE	7.24
							POTENTIAL YIELD	20.00
REGION	DISTRICT	2018	2019	2020	3-YEAR AVG.	RANK	AVG. YIELD AS % OF NATIONAL AVG.	AVG. YIELD AS % OF POTENTIAL YIELDS
BONO EAST	KINTAMPO SOUTH	-	-	15.70	15.70	1	216.85	78.50
OTI	BIAKOYE	8.95	8.98	20.20	12.71	2	175.55	63.55
OTI	KADJEBI	7.85	8.27	19.55	11.89	3	164.23	59.45
OTI	JASIKAN	7.87	8.18	18.90	11.65	4	160.91	58.25
EASTERN	ATIWA	10.07	-	9.84	9.95	5	137.49	49.77
EASTERN	AYENSUANO	9.80	9.77	9.79	9.79	6	135.19	48.94
EASTERN	FANTEAKWA	9.16	-	10.24	9.70	7	133.98	48.50
EASTERN	BIRIM CENTRAL	9.59	9.56	9.52	9.56	8	131.99	47.78
EASTERN	BIRIM SOUTH	9.45	9.42	9.40	9.42	9	130.15	47.12
WESTERN NORTH	SEFWI-WIAWSO	9.14	8.00	9.52	8.89	10	122.74	44.43

TABLE 4.13: ANALYSIS OF YIELD FOR PLANTAIN BY DISTRICT

PLANTAIN (MT/HA)							NATIONAL AVERAGE	13.39
							POTENTIAL YIELD	38.00
REGION	DISTRICT	2018	2019	2020	3-YEAR AVG.	RANK	AVG. YIELD AS % OF NATIONAL AVG.	AVG. YIELD AS % OF POTENTIAL YIELDS
GREATER ACCRA	GA EAST	-	-	58.13	58.13	1	434.13	152.97
GREATER ACCRA	GA NORTH	-	-	32.20	32.20	2	240.48	84.74
ASHANTI	AHAFO ANO NORTH	15.73	17.12	17.35	16.73	3	124.97	44.04
ASHANTI	ASANTE AKIM SOUTH	15.23	16.45	16.66	16.11	4	120.34	42.40
ASHANTI	ASANTE AKIM CENTRAL	14.70	16.02	16.30	15.67	5	117.05	41.25
CENTRAL	AWUTU-SENYA WEST	-	14.80	16.40	15.60	6	116.50	41.05
ASHANTI	OFFINSO NORTH	14.65	15.78	15.92	15.45	7	115.38	40.66
ASHANTI	OBUASI (ADANSI WEST)	13.68	16.10	16.30	15.36	8	114.71	40.42
ASHANTI	ASANTE AKIM NORTH	14.65	15.05	16.35	15.35	9	114.64	40.39
ASHANTI	BEKWAI (AMANSIE EAST)	14.00	15.60	16.10	15.23	10	113.77	40.09

TABLE 4.14: ANALYSIS OF YIELD FOR GROUNDNUT BY DISTRICT

GROUNDNUT (MT/HA)							NATIONAL AVERAGE	1.67
							POTENTIAL YIELD	3.50
REGION	DISTRICT	2018	2019	2020	3-YEAR AVG.	RANK	AVG. YIELD AS % OF NATIONAL AVG.	AVG. YIELD AS % OF POTENTIAL YIELDS
OTI	BIAKOYE	-		9.25	9.25	1	553.89	264.29
OTI	JASIKAN	-		9.22	9.22	2	552.10	263.43
OTI	KADJEBI	-		6.44	6.44	3	385.63	184.00
VOLTA	KETA MUNICIPAL			3.30	3.30	4	197.60	94.29
SAVANNAH	NORTHEAST GONJA		2.60	2.65	2.63	5	157.19	75.00
SAVANNAH	EAST GONJA	2.60	2.60	2.62	2.61	6	156.09	74.48
NORTHERN	SAGNERIGU	1.86	1.86	4.00	2.57	7	154.09	73.52
NORTHERN	NANTON		2.50	2.60	2.55	8	152.69	72.86
SAVANNAH	NORTH GONJA	2.39	2.39	2.35	2.38	9	142.32	67.90
ASHANTI	AFIGYA KWABRE NORTH		2.09	2.42	2.26	10	135.03	64.43

TABLE 4.15: ANALYSIS OF YIELD FOR COWPEA BY DISTRICT

COWPEA (MT/HA)							NATIONAL AVERAGE	1.50
							POTENTIAL YIELD	2.50
REGION	DISTRICT	2018	2019	2020	3-YEAR AVG.	RANK	AVG. YIELD AS % OF NATIONAL AVG.	AVG. YIELD AS % OF POTENTIAL YIELDS
VOLTA	AKATSI SOUTH		4.28	3.30	3.79	1	252.67	151.60
VOLTA	KETU NORTH	2.56	3.77	3.80	3.38	2	225.11	135.07
SAVANNAH	WEST GONJA	2.50	2.50	2.51	2.50	3	166.89	100.13
SAVANNAH	CENTRAL GONJA	2.49	2.49	2.48	2.49	4	165.78	99.47
VOLTA	HO WEST	1.80	2.67	2.73	2.40	5	160.00	96.00
VOLTA	AGORTIME ZIOPE			2.30	2.30	6	153.33	92.00
OTI	KRACHI WEST	1.88	2.32	2.48	2.23	7	148.44	89.07
NORTHEAST	MAMPRUGU MOAGDURI	2.00	2.00	2.40	2.13	8	142.22	85.33
OTI	KRACHI EAST	1.80	2.21	2.36	2.12	9	141.56	84.93
OTI	NKWANTA NORTH	1.80	2.20	2.22	2.07	11	138.22	82.93

TABLE 4.16: ANALYSIS OF YIELD FOR SOYABEAN BY DISTRICT

SOYABEAN (MT/HA)							NATIONAL AVERAGE	1.72
							POTENTIAL YIELD	3.00
REGION	DISTRICT	2018	2019	2020	3-YEAR AVG.	RANK	AVG. YIELD AS % OF NATIONAL AVG.	AVG. YIELD AS % OF POTENTIAL YIELDS
SAVANNAH	WEST GONJA	2.50	2.50	2.51	2.50	1	145.54	83.44
NORTHERN	SAVELUGU		2.15	2.50	2.33	2	135.17	77.50
NORTHERN	NANUMBA SOUTH	2.75	2.75	1.09	2.20	3	127.71	73.22
NORTHERN	MION	2.12	2.12	2.20	2.15	4	124.81	71.56
NORTHERN	NANTON		2.15	2.10	2.13	5	123.55	70.83
NORTHERN	TAMALE METRO	1.92	1.92	2.40	2.08	6	120.93	69.33
SAVANNAH	CENTRAL GONJA	2.00	2.00	2.20	2.07	7	120.16	68.89
SAVANNAH	EAST GONJA	1.98	1.98	2.00	1.99	8	115.50	66.22
SAVANNAH	NORTHEAST GONJA		1.98	1.95	1.97	9	114.24	65.50
NORTHERN	TOLON	2.15	2.15	1.51	1.94	10	112.60	64.56

TABLE 4.17: APPARENT PER CAPITA CONSUMPTION

COMMODITY	2016	2017	2018	2019	2020
CEREALS:					
MAIZE	45.06	45.00	62.56	73.72	75.91
RICE (MILLED)	40.38	32.00	47.63	57.25	51.63
MILLET	4.89	5.00	5.91	7.21	6.88
SORGHUM	7.06	5.00	10.19	10.98	10.77
WHEAT	18.09	13.00	23.59	21.10	1.79
STARCHY STAPLES:					
CASSAVA	440.11	152.00	492.74	525.00	570.45
YAM	209.41	125.00	209.82	230.34	249.06
COCOYAM	120.12	85.00	46.85	153.68	70.65
PLANTAIN	45.09	40.00	134.56	48.57	165.46
LEGUMES:					
GROUNDNUT	13.51	12.00	15.83	16.74	13.43
COWPEA	6.20	5.00	6.80	7.12	7.80
SOYA BEAN	4.30	2.00	5.07	5.41	4.88

SOURCES: STATISTICS RESEARCH & INFORMATION DIRECTORATE, MOFA (2021)

TABLE 4.18: 2020/2021 FOOD BALANCE SHEET

DOMESTIC SUPPLY (MT)						DOMESTIC UTILIZATION (MT)					PER CAPITA SUPPLY					
COMMODITY	BIOLOGICAL PRODUCTION	IMPORT	CARRY OVER STOCK	EXPORT	SUPPLY	SEED	FEED	WASTE	PROCESSING	FOOD	APPARENT PER CAPITA CONSUMPTION				CLOSING STOCK	SELF-SUFFICIENCY RATIO (%)
											KG/ANNUM	CAL/DAY	PROTEIN/DAY	FAT/DAY		
CEREAL																
MAIZE	3,031,691	9,543	220,800	2,607	3,259,428	29,568	879,940	N/A		2,349,920	76	695	25	5	234,992	100
RICE (PADDY)	986,905		82,765	25	1,069,646	15,545	73,276			980,824	-	-	-	-	-	-
RICE (MILLED)**	738,056	708,018	177,963	79	1,623,958	-	25,832			1,598,127	52	509	9	1	159,813	51
MILLET	223,223	65	18,828	270	241,846	1,241	27,778			212,827	7	64	2	1	21,283	100
SORGHUM	345,421	3	33,016	58	378,382	1,845	43,060			333,477	11	101	3	1	33,348	100
WHEAT	-	71,820	63,887	80,280	55,426	-	-			55,426	2	16	1	0	5,543	-
STARCHY STAPLES																
CASSAVA	22,964,205		1,589,754	6,444	24,547,515	6,889,261				17,658,254	570	1,704	14	3	1,765,825	100
YAM	8,800,822		697,484	28,284	9,470,021	1,760,164				7,709,857	249	689	9	1	770,986	100
COCOYAM	2,163,724		131,598	126	2,295,196	108,186				2,187,010	71	211	3	1	218,701	100
PLANTAIN	5,413,987		520,139	299	5,933,827	812,098				5,121,729	165	340	4	1	512,173	100
LEGUMES																
GROUNDNUT	422,262		48,996	116	471,142	13,114	42,226			415,801	13	0	0	0	41,580	100
COWPEA	263,269		21,225	4	284,490	3,450	39,490			241,550	8	0	0	0	24,155	100
SOYABEAN	202,243		15,926	32,040	186,129	4,863	30,336			150,930	5	0	0	0	15,093	119

SOURCES: STATISTICS RESEARCH & INFORMATION DIRECTORATE, MOFA (2021)

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 4.19: PRODUCTION OF INDUSTRIAL CROPS (MT)

YEAR	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
COCOA	879,349	835,466	896,917	740,254	778,043	969,510	904,777	811,610	770,691	800,000
RUBBER	20,185	20,200	21,440	22,427	22,427	22,427*	37,000*	41,300*	30,500*	50,400*
OIL PALM	2,125,600	2,196,100	2,326,920	2,443,270	2,443,000	2,443,000*	2,476,065**	2,647,066**	2,655,440**	2,471,605**

SOURCES: FOOD AND AGRICULTURE ORGANIZATION (FAO) 2020

** UNOFFICIAL FIGURE*

*** FAO DATA BASED ON IMPUTATION METHODOLOGY.*

4. 2: LIVESTOCK SUB-SECTOR

TABLE 4.20: TREND OF LIVESTOCK POPULATION ('000)

TYPE OF LIVESTOCK	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
CATTLE	1,498	1,543	1,590	1,657	1,734	1,815	1,901	1,943	2,032	2,109
SHEEP	3,887	4,019	4,156	4,335	4,522	4,744	4,978	5,102	5,333	5,544
GOAT	5,137	5,435	5751	6,044	6,352	6,740	7,151	7,366	7,764	8,180
PIG	568	602	638	682	730	777	816	845	894	946
POULTRY	52,575	57,885	63,732	68,511	71,594	73,885	75,363	76,870	79,391	81,769

SOURCE: SRID/MOFA PROJECTIONS (2020)

TABLE 4.21: LIVESTOCK SLAUGHTER SUMMARY (NUMBERS)

TYPE OF LIVESTOCK	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	(%) CHANGE (2020/2019)
CATTLE	202,104	220,446	200,819	164,554	141,144	116,056	129,694	122,083	122,802	121,863	-0.76%
SHEEP	73,159	90,656	68,344	64,594	47,546	42,138	47,960	49,291	49,526	50,312	1.59%
GOAT	108,826	140,914	118,623	129,073	76,531	67,390	74,101	78,366	86,313	88,372	2.39%
PIG	20,086	23,608	24,062	21,735	13,618	11,923	13,195	15,648	16,481	20,785	26.11%
OTHER*	3,705	5,521	2,824	4,102	3,045	5,513	4,746	2,130	1,043	3,722	256.86%
TOTAL (ALL LIVESTOCK)	407,880	481,145	414,672	384,058	281,884	243,020	269,696	267,518	276,165	285,054	3.22%

SOURCE: VETERINARY SERVICES DIRECTORATE, MOFA, ACCRA (2020)
**DOGS AND DONKEYS*

TABLE 4.22: LIVE ANIMAL IMPORTS BY SPECIES

YEAR	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
CATTLE	9,384	23,622	21,131	20,948	17,968	23,575	32,249	52,948	69,083	42,838
SHEEP	2,835	9,840	16,738	22,188	15,763	13,854	47,526	55,602	48,799	68,656
GOAT	2,495	10,008	16,953	32,012	20,004	16,900	46,665	84,751	103,201	72,606
TOTAL	**14,714**	**43,470**	**54,822**	**75,148**	**53,735**	**54,329**	**126,440**	**193,301**	**221,083**	**184,100**

SOURCE: VETERINARY SERVICES DIRECTORATE, MOFA, ACCRA (2020)
**SRID, MOFA, (COMPUTED)*

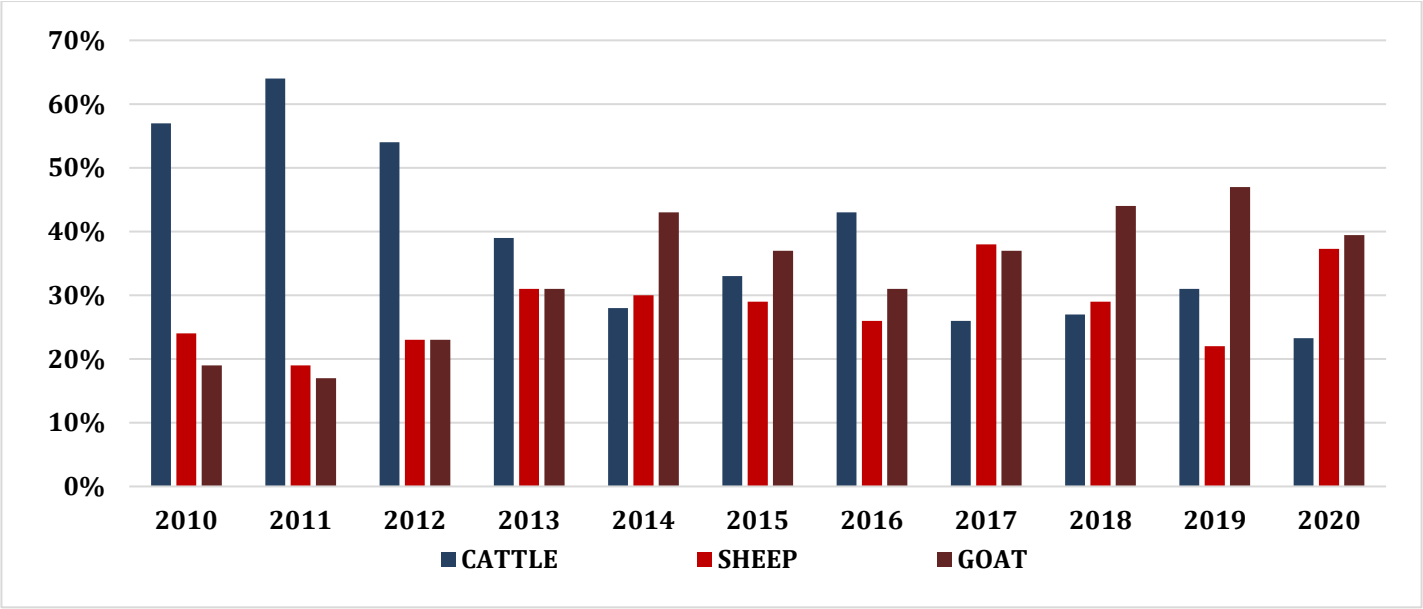


FIGURE 12: PERCENTAGE SHARE OF TOTAL LIVE ANIMAL IMPORTS BY SPECIES

TABLE 4.23: IMPORTATION OF DAY-OLD CHICKS AND PARENT STOCK (NUMBERS)

YEAR	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
BROILER	547,205	651,112	1,088,865	3,161,144	246,948	784,917	724,580	511,960	906,408	413,332
LAYER	2,461,140	3,227,844	4,481,602	602,209	2,573,326	3,963,705	5,476,815	7,130,999	7,710,553	10,400,501
TURKEY	9,180	16,966	9,286	6,840	19,497	13,412	14,945	41,189	30,487	18,150
PARENT STOCK	9,180	114,344	126,288	18,080	111,692	158,386	86,099	101,871	45,321	191,772
TOTAL	**3,026,705**	**4,010,266**	**5,706,041**	**3,788,273**	**2,951,463**	**4,920,420**	**6,302,439**	**7,786,019**	**8,692,769**	**11,023,755**

SOURCE: VETERINARY SERVICES DIRECTORATE, MOFA (2020

TABLE 4. 24: QUANTITY OF FROZEN MEAT IMPORTS BY CATEGORY - (MT)

MEAT CATEGORY	2016	2017	2018	2019	2020	5-YEAR GRAND TOTAL	SHARE BY CATEGORY OF TOTAL (2016-2020) IMPORT (MT)	ANNUAL AVERAGE IMPORT (MT)
POULTRY*	100,477	151,346	204,755	153,448	148,118	758,144	80.55%	151,629
PORK (SWINE)	9,480	5,748	3,082	2,914	3,559	24,783	2.63%	4,957
BOVINE (CATTLE)	24,682	28,913	30,440	18,931	37,026	139,992	14.87%	27,998
SMALL RUMINANTS (SHEEP + GOAT)	5,136	3,685	3,541	2,041	3,844	18,247	1.94%	3,649
TOTAL (ALL CATEGORY)	139,775	189,692	241,818	177,334	192,546	941,165	100.00%	188,233
CONTRIBUTION (ALL CATEGORY) TO 5-YR GRAND TOTAL	**14.85%**	**20.16%**	**25.69%**	**18.84%**	**20.46%**			

SOURCE OF IMPORT DATA (WT. & VALUE): GHANA STATISTICAL SERVICE (GSS)

****POULTRY: CHICKEN ACCOUNTS FOR OVER 97%, TURKEY MEAT: 2.9%, OTHER: 0.03% (OTHER: DUCKS, GEESE, GUINEA FOWL***

TABLE 4. 25: VALUE OF MEAT IMPORTS BY CATEGORY (GH₵)

	2016	2017	2018	2019	2020	TOTAL (2016-2020)	ANNUAL AVERAGE (GH₵)
POULTRY	435,531,867	536,346,194	596,926,016	404,738,337	354,744,749	2,328,287,163	465,657,433
PORK (SWINE)	21,805,994	20,116,990	12,979,892	10,381,643	13,185,030	78,469,549	15,693,910
BOVINE (CATTLE)	85,415,744	109,909,399	112,077,555	51,837,795	88,525,688	447,766,181	89,553,236
SMALL RUMINANTS (SHEEP+GOATS)	15,715,965	14,064,591	14,039,532	6,546,136	17,627,658	67,993,882	13,598,776
TOTAL (ALL CATEGORY)	558,469,570	680,437,174	736,022,995	473,503,911	474,083,126	2,922,516,776	584,503,355
SHARE (ALL CATEGORY) BY YEAR	19.11%	23.28%	25.18%	16.20%	16.22%		
ANNUAL CHANGE (VARIATION)		21.84%	8.17%	-35.67%	0.12%		

SOURCE OF IMPORT DATA (WT. & VALUE): GHANA STATISTICAL SERVICE (GSS)

**POULTRY: CHICKEN ACCOUNTS FOR OVER 97%, TURKEY MEAT: 2.9%, OTHER: 0.03% (OTHER: DUCKS, GEESE, GUINEA FOWLS)*

TABLE 4. 26: VALUE OF MEAT IMPORTS BY CATEGORY ($)

	2016	2017	2018	2019	2020	TOTAL (2016-2020)	ANNUAL AVERAGE ($)
POULTRY	83,435,224	102,748,313	114,353,643	77,536,080	63,347,277	441,420,537	88,284,107
PORK (SWINE)	4,177,393	3,853,829	2,486,569	1,988,820	2,354,470	14,861,081	2,972,216
BOVINE (CATTLE)	16,363,169	21,055,440	21,470,796	9,930,612	3,147,796	71,967,813	14,393,563
SMALL RUMINANTS (SHEEP+GOATS)	3,010,721	2,694,366	2,689,566	1,254,049	84,657,701	94,306,403	18,861,281
TOTAL (ALL CATEGORY)	**106,986,507**	**130,351,949**	**141,000,574**	**90,709,561**	**153,507,243**	**622,555,834**	**124,511,167**
SHARE (ALL CATEGORY) BY YEAR	**17.19%**	**20.94%**	**22.65%**	**14.57%**	**24.66%**		
ANNUAL CHANGE (VARIATION)		**21.84%**	**8.17%**	**-35.67%**	**69.23%**		

SOURCE OF IMPORT DATA (WT. & VALUE): GHANA STATISTICAL SERVICE (GSS)

**POULTRY: CHICKEN ACCOUNTS FOR OVER 97%, TURKEY MEAT: 2.9%, OTHER: 0.03% (OTHER: DUCKS, GEESE, GUINEA FOWLS)*

TABLE 4. 27: DOMESTIC MEAT PRODUCTION (MT)

TYPE OF LIVESTOCK	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
CATTLE	20,592	21,221	21,863	22,781	23,841	24,961	26,134	26,716	27,936	28,999
SHEEP	17,491	18,087	18,703	19,507	20,347	21,349	22,399	22,959	23,999	24,948
GOATS	20,341	21,198	22,429	23,573	24,774	26,285	27,889	28,727	30,278	31,902
PIGS	19,072	20,224	21,432	22,932	24,513	26,107	27,412	28,392	30,025	31,786
POULTRY	41,008	46,308	50,985	54,809	57,276	59,108	60,291	61,496	63,513	65,415
TOTAL	**118,504**	**127,038**	**135,412**	**143,603**	**150,751**	**157,810**	**164,124**	**168,291**	**175,751**	**183,050**

SOURCE: SRID (2019), (ESTIMATED FROM TABLE 4.11 BASED ON INFORMATION AND CRITERIA IN APPENDIX 14)

4. 3: FISHERIES SUB-SECTOR

TABLE 4. 28: FISH CAPTURE BY SOURCE (MT)

SOURCE	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
MARINE	326,545	333,697	314,868	289,147	312,535	294,627	342,427	302,432	317,393	326,868
INLAND	95,353	95,000	86,741	85,383	86,268	86,223	76,574	73,628	77,280	80,923
AQUACULTURE	19,092	27,451	32,512	38,547	44,515	52,470	60,000	76,620	80,751	60,004
TOTAL	**440,990**	**456,148**	**434,121**	**413,077**	**443,318**	**433,320**	**479,001**	**452,680**	**475,424**	**467,795**

SOURCE: FISHERIES COMMISSION/MINISTRY OF FISHERIES AND AQUACULTURE DEVELOPMENT (MOFAD)

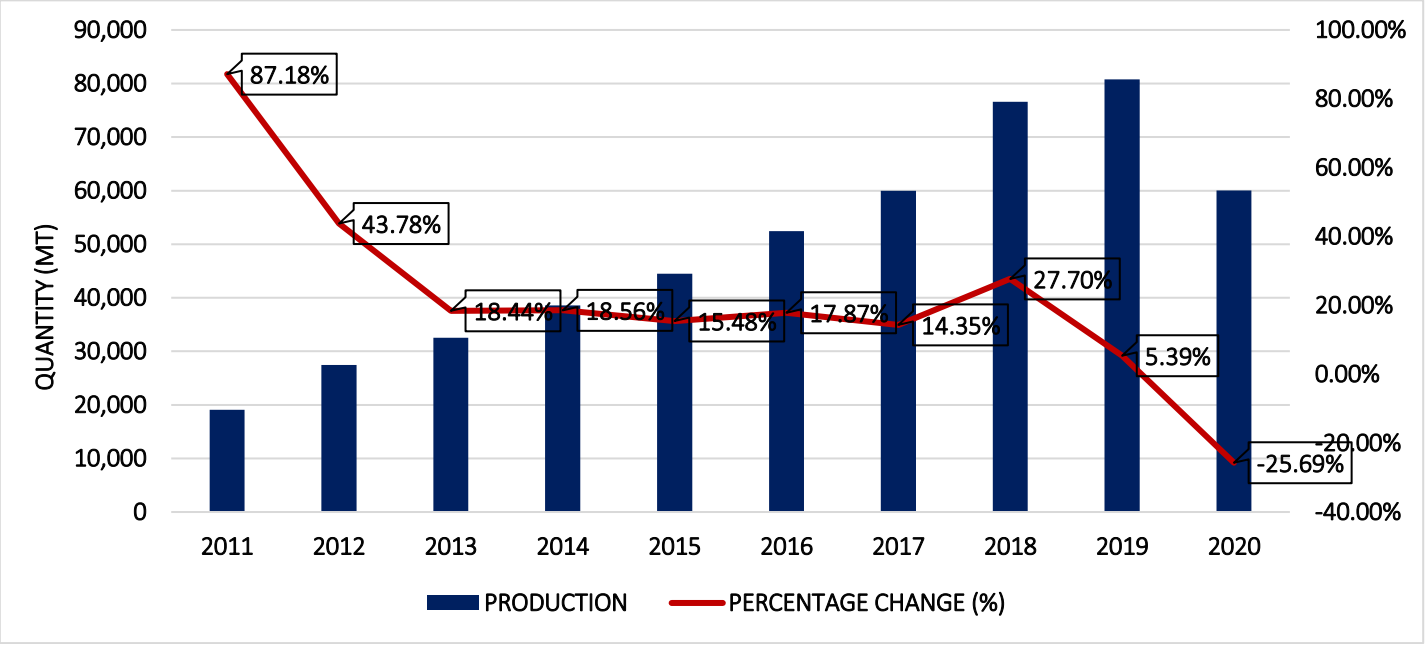


FIGURE:13 ANNUAL AQUACULTURE PRODUCTION (MT)

TABLE 4.30: FISH IMPORTS AND EXPORTS (MT)

CATEGORY	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
TOTAL FISH IMPORTS	191,429	181,825	150,701	145,910	180,802	192,131	197,063	192,690	190,617	244,487
TOTAL FISH EXPORTS	44,145	46,234	37,617	57,358	53,750	53,100	48,767	73,628	81,205	25,374

SOURCE: FISHERIES COMMISSION/MINISTRY OF FISHERIES AND AQUACULTURE DEVELOPMENT (MOFAD)

SECTION 5: SERVICES IN AGRICULTURE

5.1: CREDIT SUPPORT

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

SECTOR	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
AGRIC., FORESTRY& FISHING	5.77	4.87	4.09	3.64	3.84	3.79	3.79	4.17	4.11	4.62
MINING & QUARRYING	4.28	1.14	1.00	0.93	1.95	2.35	2.42	3.17	3.46	2.86
MANUFACTURING	9.00	11.08	8.87	9.46	8.41	8.18	8.07	9.34	10.43	10.88
CONSTRUCTION	8.08	4.83	4.45	4.76	9.8	10.24	10.96	10.47	9.9	8.68
ELECTRICITY GAS & WATER	6.72	2.14	2.65	2.84	14.74	15.72	12.57	8.3	7.98	7.55
IMPORT TRADE	9.26	8.01	9.12	8.18	9.14	7.49	6.31	5.27	4.26	2.74
EXPORT TRADE	1.21	8.49	9.00	9.58	0.51	0.73	0.79	0.78	0.72	0.36
COMMERCE & FINANCE	16.35	16.99	16.24	15.93	13.65	16.41	18.39	17.72	16.53	17.37
TRANSPORT, STORAGE & COMMUNICATION	4.21	7.93	11.35	13.33	4.91	7.15	8.45	9.94	9.72	9.26
SERVICES	26.96	26.46	26.35	23.48	21.89	19.62	18.8	20.74	21.91	26.67
MISCELLANEOUS	8.15	8.07	6.88	7.87	8.52	8.33	9.46	10.11	9.79	8.99

SOURCE: STATITICAL BULLETIN, BANK OF GHANA 2020.

TABLE 5.2: BANK LENDING RATE

NO.	NAME OF BANK	LENDING RATE (%)
1	ABSA BANK GHANA LIMITED	23.59
2	ACCESS BANK GHANA PLC	17.77
3	AGRICULTURAL DEVELOPMENT BANK LIMITED	24.89
4	BANK OF AFRICA GHANA LIMITED	17.19

NO.	NAME OF BANK	LENDING RATE (%)
5	CALBANK PLC	15.97
6	CONSOLIDATED BANK GHANA LIMITED	21.62
7	ECOBANK GHANA LIMITED	18.41
8	FBNBANK (GHANA) LIMITED	22.25
9	FIDELITY BANK GHANA LIMITED	20.64
10	FIRST ATLANTIC BANK LIMITED	21.35
11	FIRST NATIONAL BANK (GHANA) LIMITED	20.55
12	GCB BANK LIMITED	22.8
13	GUARANTY TRUST BANK (GHANA) LIMITED	16.97
14	NATIONAL INVESTMENT BANK LIMITED	21.77
15	OMNIBSIC BANK GHANA LIMITED	17.95
16	PRUDENTIAL BANK LIMITED	21.93
17	REPUBLIC BANK (GHANA) PLC	21.04
18	SOCIETE GENERAL GHANA PLC	23.61
19	STANBIC BANK GHANA LIMITED	20.86
20	STANDARD CHARTERED BANK (GHANA) LIMITED	20.82
21	UNITED BANK FOR AFRICA (GHANA) LIMITED	19.05
22	UNIVERSAL MERCHANT BANK LIMITED	20.39
23	ZENITH BANK (GHANA) LIMITED	19.45

SOURCE: BANK OF GHANA 2021.

TABLE 5.3: BANKS IN GHANA

BANK NAME	ADDRESS	PHONE NUMBER	WEBSITE
ABSA BANK GHANA LIMITED	Absa House J.E. Atta-Mills High Street Accra P.O. Box GP2949, Accra	233-302-429150	https://www.absa.com.gh
ACCESS BANK (GHANA) PLC	Starlets' 91 Road, Opposite Accra Sports Stadium, Osu P. O. Box GP 353, Accra, Ghana	233-302-661769	http://www.ghana.accessbankplc.com
AGRICULTURAL DEVELOPMENT BANK LIMITED	Accra Financial Centre, 3rd Ambassadorial Development Area, Ridge-Accra, P.O. Box 4191, Accra-Ghana	233-302-770403	http://www.agricbank.com
BANK OF AFRICA GHANA LIMITED	Head Office,1st Floor, Block A&B, The Octagon, Independence Avenue P.O. Box C1541 Cantonments, Accra – Ghana	233-302-249690	http://www.boaghana.com
CAL BANK PLC	Head Office 45 Independence Ave P.O. Box 14596 Accra – Ghana	233-302-680061	http://www.calbank.net
CONSOLIDATED BANK GHANA LIMITED	First Floor, Manet Tower 3, Airport City, Accra PMB CT363, Cantonments, Accra	233 302-634330	http://www.cbg.com.gh
ECOBANK GHANA LIMITED	2 Morocco Lane, Off Independence Avenue, P.O. Box: P.O. Box AN 16746, Accra North – Ghana	233 302-681146/8	http://www.ecobank.com
FBN BANK (GHANA) LIMITED	Head Office, Plot No. 678, Liberation Road, Airport, Accra, PMB No. 16, Accra North, Ghana	233-302-236136/235684	http://www.fbnbankghana.com
FIDELITY BANK GHANA LIMITED	Ridge Towers – Ridge, Accra. PMB 43, Cantonments, Accra, Ghana.	233-302-214490	http://www.fidelitybank.com.gh
FIRST ATLANTIC BANK LIMITED	Atlantic Place, No.1 Seventh Avenue, Ridge West, Accra, Ghana	233-302-68 0825, 233 -302-68 2203	http://www.firstatlanticbank.com.gh
FIRST NATIONAL BANK (GHANA) LIMITED	Head Office, 6th Floor, Accra Financial Centre, Independence Ave./Liberation Road, P.O. Box TU 23, Accra-Ghana	233-302-242435050	http://www.firstnationalbank.com.gh

BANK NAME	ADDRESS	PHONE NUMBER	WEBSITE
GCB BANK LIMITED	Head Office, High Street, 2 Thorpe Road, P.O. Box 134, Accra	233-302-672852	http://www.gcbbank.com.gh
GUARANTY TRUST BANK (GHANA) LIMITED	25A, Castle Road, Ambassadorial Enclave, Ambassadorial Enclave, Ridge, PMB CT 416, Accra – Ghana	233-302 - 680668	http://www.gtbghana.com
NATIONAL INVESTMENT BANK LIMITED	Head Office, 37 Kwame Nkrumah Avenue, P.O. Box 3726, Accra, Ghana	233-302-661701	http://www.nib-ghana.com
OMNIBSIC BANK GHANA LIMITED	C9/14 Dzorwulu, Olusegun Way, Opposite Allied Oil Filling Station, P.O. Box KN 5569, Kaneshie, Accra	233-307-086000	http://www.omnibank.com.gh
PRUDENTIAL BANK LIMITED	Head Office, Ring Road Central, PMB - General Post Office, Accra – Ghana	233-302-781200-7	http://www.prudentialbank.com.gh
REPUBLIC BANK (GHANA) PLC	Head Office, Ebankese No. 35, Sixth Avenue, North Ridge, Accra – Ghana, P.O Box CT 4603, Cantonments, Accra – Ghana	233-302-242090-2	http://www.republicghana.com
SOCIÉTÉ GENERAL (GHANA) LIMITED	Head Office, P. O. Box 13119, Ring Road Central Accra, Accra - Ghana	233-302-202001	http://www.societegenerale.com.gh
STANBIC BANK GHANA LIMITED	Head Office, Stanbic Heights, 25 Liberation Link, Airport City, P.O. Box CT 2344, Cantonments, Accra-Ghana	233-302-687670-8	http://www.stanbicbank.com.gh
STANDARD CHARTERED BANK (GHANA) LIMITED	Head Office, No. 87 Independence Avenue, P.O. Box 768, Accra	233-302-664591-8	http://www.sc.com/gh
UNITED BANK FOR AFRICA (GHANA) LIMITED	PMB 29, Ministries, Heritage Towers, Ambassadorial Enclave, Off Liberia Road, Ridge, Accra-Ghana	233-302- 674085	http://www.ubagroup.com
UNIVERSAL MERCHANT BANK LIMITED	Airport City, SSNIT Emporium, P.O. Box 401, North Ridge, Accra-Ghana	233-302- 666331/6	http://www.myumbbank.com
ZENITH BANK (GHANA) LIMITED	Head Office, Zenith Heights, No. 31 Independence Avenue, PMB CT 393, Cantonments, Accra	233-302-660075	http://www.zenithbank.com.gh

SOURCE: BANK OF GHANA

5.2: AGRICULTURAL MANPOWER DEVELOPMENT AND RESEARCH SUPPORT

TABLE 5.4: AGRICULTURE-RELATED RESEARCH INSTITUTES

INSTITUTE	LOCATION	WEBSITE
MINISTRY OF FOOD AND AGRICULTURE		
STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE	ACCRA	https://srid.mofa.gov.gh
COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)		
ANIMAL RESEARCH INSTITUTE	ACCRA	https://ari.csir.org.gh/
CROP RESEARCH INSTITUTE	FUMESUA	http://www.cri.csir.org.gh/
FOOD RESEARCH INSTITUTE	ACCRA	http://www.fri.csir.org.gh/
OIL PALM RESEARCH INSTITUTE	KADE	https://opri.csir.org.gh/
WATER RESEARCH INSTITUTE	ACCRA	http://www.wri.csir.org.gh
FORESTRY RESEARCH INSTITUTE OF GHANA	FUMESUA	https://forig.csir.org.gh/
SOIL RESEARCH INSTITUTE	KWADASO	http://www.sri.csir.org.gh/
SAVANNAH AGRICULTURAL RESEARCH INSTITUTE (SARI)	TAMALE	http://sari.csir.org.gh/
INSTITUTE OF INDUSTRIAL RESEARCH	ACCRA	http://www.iir.csir.org.gh
INSTITUTE FOR SCIENTIFIC AND TECHNOLOGICAL INFORMATION	ACCRA	www.insti.csir.org.gh
SCIENCE AND TECHNOLOGY POLICY RESEARCH INSTITUTE	ACCRA	http://stepri.csir.org.gh
PLANT GENETIC RESOURCES RESEARCH INSTITUTE (PGRRI)	BUNSO	www.pgrri.csir.org.gh
BUILDING AND ROAD RESEARCH INSTITUTE	FUMESUA	https://www.brri.org
UNIVERSITIES		
UNIVERSITY FACULTIES OF AGRICULTURE	ACCRA, KUMASI, CAPE COAST, TAMALE	www.ug.edu.gh
DEPARTMENT OF ZOOLOGY, UNI. OF GHANA (UG)	LEGON, ACCRA.	www.ug.edu.gh

INSTITUTE	LOCATION	WEBSITE
DEPARTMENT OF BIOCHEMISTRY, NUTRITION AND FOOD SCIENCE (UG)	LEGON, ACCRA.	https://www.ug.edu.gh/nutrition
GHANA ATOMIC ENERGY COMMISSION		
BIOTECHNOLOGY AND NUCLEAR AGRICULTURAL RESEARCH INSTITUTE (BNARI)	KWABENYA, ACCRA	https://bnari.gaecgh.org
GHANA COCOBOD		
COCOA RESEARCH INSTITUTE OF GHANA (CRIG)	NEW TAFO	crig.org.gh

5. 3: STAFFING LEVELS OF MINISTRY OF FOOD AND AGRICULTURE (MOFA)

Table 5.5 shows the staffing levels of the Ministry of Food and Agriculture, by category, for the past ten-years- 2011 to 2020. 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	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
PROFESSIONAL	1,362	1,362	1,335	319	368	357	357	302	875	839
SUB-PROFESSIONAL	530	530	456	94	160	109	109	97	328	330
TECHNICAL	3,385	3,385	2,773	497	565	633	633	371	780	813
SUPPORT STAFF	2,376	2,376	1,945	657	659	576	576	621	728	614
TOTAL	7,653	7,653	6,509	1,570	1,752	1,675	1,675	1,391	2,711	2,596

SOURCE: HUMAN RESOURCE DEVELOPMENT AND MANAGEMENT DIRECTORATE (HRDMD), MOFA 2020

5.4: AGRICULTURAL MACHINERY WITH FUNDING SOURCES

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	
	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	
1994	COMBINE HARVESTER- RICE	6	
	MOBILE HUSKER SHELLER	22	
	FERGUSON TRACTOR	2	
1995	COMBINE HARVESTER -RICE	6	
	MOBILE HUSKER SHELLER	22	
2008	SHAKTI POWER TILLERS	200	
	FARMTRAC-60 TRACTOR	200	
	MAHINDRA-705DI TRACTOR	100	
	MAHINDRA-605DI TRACTOR	132	
	JOHN DEERE TRACTOR	500	GOG
	NEW HOLLAND-TC5070 / 207HP COMBINE HARVESTER	4	GOG, GIDA
	KUBOTA TRACTOR	78	JAPANESE GRANT
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 JAPANESE GRANT
	KT09 RICE HARVESTER/ 210HP	2	
	RUN YUAN JING COMBINE HARVESTER	10	
2011	NEW HOLLAND TD80 TRACTORS	125	
	COMBINE HARVESTER	2	JAPANESE GRANT GOG
	RICE THRESHERS	35	
	RICE REAPER	35	
	RICE MILL	10	
	IRRIGATION PUMP	40	
2012	CABRIO TRACTORS (50HP)	50	
2013	RICE THRESHERS	35	JAPANESE GRANT
	POWER TILLERS	43	JAPANESE GRANT GOG
	RICE REAPER	20	
	RICE MILLS	5	
	CABRIO TRACTORS (50HP)	100	
2015	SAME TRACTOR	77	JAPANESE GRANT
	POWER TILLERS	49	JAPANESE GRANT BRAZIL MORE FOOD INTERNATIONAL PROGRAM (1ST TRANCHE)
	RICE MILL	6	
	RICE THRESHERS	20	
	RICE REAPER	11	BRAZIL MORE FOOD

2016	NEW HOLLAND TRACTORS	111	INTERNATIONAL PROGRAM (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 INTERNATIONAL PROGRAM (2ND TRANCHE)
	VALTRA TRACTORS	60	BRAZIL MORE FOOD INTERNATIONAL PROGRAM (2ND TRANCHE) GOG (CZECH FACILITY)
	MASSEY FERGUSON TRACTORS	80	
	POWER TILLERS	1000	
	NO TILL PLANTERS	20	
	MECHANICAL PLANTERS	50	
	MOUNTED BOOM SPRAYERS	50	

	ORCHARD SPRAYERS	20	
	MOTORIZED SPRAYERS	4000	
	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	
2019/2020	CABRIO TRACTORS (50HP)	170	
	MINI TRACTORS	300	GOG (CZECH FACILITY)
	AGT 850 TRACTORS	50	
	RICE CUTTERS	120	
	THRESHERS	120	
	MIST BLOWER	50	
	BOOM SPRAYERS	100	
	THRESHERS	700	GOG (CHINA FACILITY)
	BACKPACK WEEDING MACHINE	1000	

SOURCE: AGRICULTURAL ENGINEERING SERVICES DIRECTORATE (AESD), MOFA 2020

TABLE 5.7: TOTAL AREA UNDER IRRIGATION (HECTARES)-2011-2020

FORMAL IRRIGATION (SCHEME/PROJECT)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020

EXISTING IRRIGATION SCHEMES	10,668	10,668	28,304	29,504	11,000	17,292	12,003	12,978	13,008.85	16,909
ADDITIONAL AREA AFTER REHABILITATION	481	481	0	0	0	0	0	0	0	0
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT	0	0	0	0	0	0	0	0	0	0
SMALL FARMS IRRIGATION PROJECT	110	110	0	0	0	0	0	0	0	0
MCA*	450	450	0	0	0	1,500	0	0	0	0
SUB-TOTAL	11,709	11,709	28,304	29,504	11,000	18,792	12,003	12,978	13,008.85	16,909
INFORMAL IRRIGATION (SMALLHOLDER)	-	-	-	-	189,000	189,000	189,000	189,000	189,000	189,000
LARGE SCALE COMMERCIAL	17,636	17,636	17,636	17,636	21,000	21,000	21,000	21,000	21,000	21,000
GRAND TOTAL	29,345	29,345	45,940	47,140	221,000	228,792	222,003	222,978	223,008.85	226,909

SOURCE: GHANA IRRIGATION DEVELOPMENT AUTHORITY, MOFA 2020

****MILLENNIUM CHALLENGE ACCOUNT***

TABLE 5.8: AGRICULTURAL MACHINERY/EQUIPMENT DEALERS/IMPORTERS

COMPANY	ADDRESS	MACHINERY/ EQUIPMENT
KAY GEE ENTERPRISES	P. O. BOX GP 2658, ACCRA	IRRIGATION PUMPS,
SENAKY ENTERPRISE	P. O. BOX 582 ASHIAMAN	MF TRACTORS, IMPLEMENTS
CHEMICO LIMITED	P. O. BOX CO 950 TEMA GHANA	SPRAYING MACHINES
RST CO LTD	P. O. BOX MP 310 MAMPROBI ACCRA	RICE MILLS, THRESHERS, REAPERS, COMBINED HARVESTERS, POWER TILLERS, PUMPS
K BADU AGRO CHEMICALS CO LTD	P. O. BOX KJ 193 KUMASI	SPRAYING MACHINES
DESTINY AZUMAH FARMS & TRADING ENT	P. O BOX K 424 ACCRA	CORN MILLS
ALEX NKRUMAH ENTERPRISE	P. O. BOX 5268 KUMASI GHANA	MF, FORD, MAHINDRA TRACTOR SPARE PARTS
BIGA INTERNATIONAL TECHNOLOGIES	P. O. BOX MP 1188 MAMPROBI ACCRA	CABRIO TRACTORS
FOUNDRIES & AGRIC MACHINERY	P. O. BOX AN 7852, ACCRA	FARMTRAC. TRACTORS, COMBINED HARVESTERS, SHAKTI POWER TILLER, PUMPS, IMPLEMENTS
AGRIMAT LIMITED	P. O. BOX 15097 ACCRA	TRACTORS, SPARE PARTS, IMPLEMENTS, PUMPS, CHEMICALS
CFAO	P. O. BOX 1402, KSI, P. O. BOX 5761, ACCRA	NEW HOLLAND TRACTORS, TRUCKS, COMBINED HARVESTERS, IMPLEMENTS,
DIZENGOFF GH LTD	P. O. BOX 3403 ACCRA	PLANTERS, BOOM SPRAYERS
BOW'S AGRIC'AL MACHINERY ENT.		CORN MILLS
MECHANICAL LLOYD CO LTD	BOX 2086, ACCRA. NEAR STC ACCRA. OR OFF ADENTA - ABURI ROAD.	MASSEY FERGUSON TRACTORS, IMPLEMENTS, COMBINES HARVESTERS
GHANA HEAVY EQUIPMENT LTD	P. O. BOX 1524, ACCRA	ZETOR TRACTORS, IMPLEMENTS, SHELLER,
REISS & CO. (GH) LTD	P. O. BOX CT 5064 CANTONMENTS, ACCRA	OUTBOARD MOTORS, IRRIGATION PUMPS
DENG LTD	ACCRA	PUMPS,
JOHN DEERE AGRICULTURAL EQUIPMENT CO. LTD	NSAWAM	JOHN DEERE TRACTORS, IMPLEMENTS,
JUBILEE TRACTOR & ASSEMBLY PLANT	BOX PS 6900, ADUM KUMASI	MAHINDRA TRACTORS, IMPLEMENTS, FUTON COMBINED HARVESTERS,

TABLE 5.9: LIST OF AGRICULTURAL MECHANIZATION SERVICES CENTERS (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

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
12	ADDICENT FOODS LTD. (M. NTTORINKANSAH)	NORTH TONGU DISTRICT, V/R	P.O. BOX BT 300, COM. 2 TEMA TEL. 0244378522	VOLTA
13	GHANA-CUBA AGRIC SERVICES LTD (LARRY FARMS LTD)	HOHOE	P. O. BOX 17463, ACCRA CENTRAL. (P. O. BOX CT7021, ACCRA) TEL : 0244379378	VOLTA
14	ADIDOME MECHANISATION CENTRE (MR. KUDZO AGBO)	ADIDOME	P. O. BOX 16, ADIDOME. TEL: 0243216907	VOLTA
15	REDDEKOPP MINISTRIES	HO-ADAKLU	BOX HP 1011, HO. TEL: 0248329718	VOLTA
16	THE MANAGER, COMMUNITY RELIEF (DICKSON DEGBOR)	SOGAKOPE	P. BOX SK 2, SOGAKOPE TEL: 0243133261, 020 4702597	VOLTA
17	MR. JOE GIDISU,	NORTH TONGU	P. O. BOX 18, ADIDOME, V/R TEL: 0243216907, 0248511817	VOLTA
18	S&K AGROSERVICES PROVIDERS LTD,	SOGAKOPE, SOUTH TONGU	P. O. BOX SR 140 TEMA, TEL: 0244841896, 0276254935	VOLTA
19	MAFI-AKYEMFO MECH. CENTRE.	MAFI-AKYEMFO, NORTH TONGU	P. O. BOX 18, ADIDOME. TEL: 0243-216907, 0248-511817	VOLTA
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)	MAAME KROBO AFRAM PLAINS	BOX AC156, ACCRA 0244959132	EASTERN

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
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
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-ASANTE AKIM	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	BONO EAST

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
37	THE MD, CONSORTIUM	WENCHI	C/O METHODIST UNIVERSITY, WENCHI TEL: 021-314542, 0204426114	BONO
38	OUT OF BOUNDS INCORPORATED (DANIEL OPOKU)	TANO OBUASI, BAR	BOX KA 310522 ACCRA. TEL: 024-4318342	AHAFO
39	GUMBIANI FARMS LTD (MOHAMED MORO)	AMANTIN, (BRONG-AHAFO), B/A	P.O. BOX 5, AMANTIN, TEL. 0244-076941	BONO EAST
40	KODOM FARMS (YAW KODOM)	NKORANSA (BRONG AHAFO), B/A	P.O. BOX 190, NKORANZA, TEL.0208877301/0244896837	BONO EAST
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	BONO EAST
42	KOBBIMAN FARM LTD	NKORANZA	P.O. BOX 16 NKORANZA TEL. 0244310534	BONO EAST
43	AMOBAFF ENT.	KINTAMPO	C/O MR. AMOO BAFFOE, P. O. BOX M37 ACCRA TEL 0242675595	BONO EAST
44	TUOBODOM UNITY COOPERATION TOMATO GROWERS & MARKETING SOCIETY	TUOBODOM	P. O. BOX 8, TECHIMAN TEL: 0244590427	BONO EAST
45	BUWA LTD	KINTAMPO – NORTH	TEL: 0244370230	BONO EAST
46	METHODIST UNIVERSITY COLLEGE (PRINCIPAL)	WENCHI	METHODIST UNIVERSITY COLLEGE, WENCHI	BONO
47	GHANA NUTS LTD	TECHIMAN	P.O. BOX 825	BONO EAST

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
48	SOFO-FATAO ENTERPRISE,	NANTE-KINTAMPO	P.O. BOX 14, NANTE-KINTAMPO, BRONG AHAFO. TEL: 0246661959, 0203858130	BONO EAST
49	THE MANAGING DIRECTOR, FATHI AGRO-FORESTRY CO-OPERATIVE FOOD FARMING AND MARKETING SOCIETY	TAMALE	P. O. BOX 841, TAMALE. TEL: 0244-679689, 071-23154	NORTHERN
50	THE MANAGING DIRECTOR, GLOBAL AL-MAS LTD,	BIMBILLA	P. O. BOX 57, BIMBILLA. TEL : 0244-177050, 021-517815, 071-25984	NORTHERN
51	SAKFOS FARMS (SAKARA ASUMAH RENNIE)	WEST GONJA (DAMANGO)	P.O. BOX DM 111, NAVRONGO TEL: 024 3523848	SAVANNAH
52	GREEN PLANET LTD. (A. AYARIGA)	TAMALE, NR	P.O. BOX 100, TAMALE. TEL: 024 8140000	NORTHERN
53	SAKPE AGRICUTURAL ENT. (IBRAHIM ADAM FAWZY MOMOA).	CENTRAL GONJA, N/R	P.O. BOX CT 5577, CANTONMENT ACCRA TEL.	NORTHERN
54	KUKURDAMA ENTERPRISE (ALHAJI YUSUF SALIFU ABDELLA).	BIMBILLA, N/R	P.O. BOX 1104, TAMALE	NORTHERN
55	BOSBBEL KOFI ANSAH	TAMALE, NR	P. O. BOX 279, TAMALE 07123342, 0244864799	NORTHERN
56	LAANGU FARMERS ASS. JANGA WALEWALE WEST MAMPRUSI	JANGA, WALEWALE	C/O MOFA P.O. BOX 4 WALEWALE	NORTH EAST
57	TIJO FARMS (ALHAJI IBRAHIM ADAM), TAMALE	TAMALE	P.O BOX 2943 TAMALE TEL. 0246847774	NORTHERN
58	KURBANI FARMS	TAMALE	P.O. BOX 65 TAMALE TEL. 0244686604	NORTHERN
59	DAGBON TRADITIONAL COUNCIL (ATTN ALHAJI IBRAHIM ADAM), YENDI	YENDI	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	P.O. BOX 41, NAVRONGO TEL. 0742-22284, 0208543000, 0244995111	NORTH EAST
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	SAVANNAH
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,	SAVANNAH
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	UPPER EAST
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	NORTH EAST

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
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	NORTH EAST
74	GBEWAA FARMERS ASSOCIATION, % ABUBAKARI IMMURURANA,	TAMALE	P.O. BOX 1967, TAMALE. TEL: 0268587103,0243253331,0244704291	NORTHERN
75	SAVANNA AGRIC. & TRADING CO. LTD.,	CHEREPONI	P.O. BOX DS 689, DANSOMAN, ACCRA.	NORTH EAST
76	MION DISTRICT ASSEMBLY, MION	MION	C/O OFFICE OF THE MEMBER OF PARLIAMENT, ACCRA. TEL: 0244838977	NORTHERN
77	KPANGMANGA CO-OPERATIVE FOOD FARMING AND MARKETING SOCIETY LTD.	NAYUGU-GUSHEGU	HOUSE NO. G 103, GUSHEGU. TEL: 0243453492	NORTHERN
78	THE PRESIDENT, NATIONAL FARMERS & FISHERMEN WARD WINNERS ASSOC.,	FUMBISI VALLEY	BOX KD 537, KANDA ACCRA. TEL : 021-222455, 0244-364440	UPPER EAST
79	GOODMAN & SONS LTD,	NAVRONGO	P. O BOX 287, TAMALE	UPPER EAST
79	LRRIGATION FARMERS ASSOCIATION (AHMED BOGOBIRI),	TONO, KASENA NANAKANI, UER	TONO COOPERATIVE UNION, C/O ICOUR LIMITED, BOX 70, NAVRONGO	UPPER EAST
80	THE MANAGER, DOLIDONA ENT	BOLGATANGA	P.O. BOX 1 BOLGATANGA TEL: 0208336643	UPPER EAST
81	HON. MAHAMA AYARIGA,	BAWKU	OFFICE OF THE PRESIDENT, ACCRA. TEL: 020 6662337	UPPER EAST
82	YELSUMDE FARMS LTD. ZONGOYIRE,	BAWKU WEST	P.O. BOX ZE 27, BAWKU. TEL: 024 4409331, 024 4216591	UPPER EAST
83	BONABA CONSTRUCTION LTD.	PUSIGA	P. O. BOX 115, BAWKU TEL : 0244-022425	UPPER EAST

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
84	THE MANAGING DIRECTOR, NYIVORI-TONA CO. LTD,	WA	P.O. BOX SR 326, ACCRA. TEL : 027-4523443	UPPER WEST
85	CASHEW FARMERS ASSOCIATION WIGBERT Y. DOGOLI	NANDOWLI DISTRICT, UW	C/O CWSA BOX 810 TAMALE	UPPER WEST
86	MCE, WA MUNICIPAL ASSEMBLY	WA	WA MUNICIPAL ASSEMBLY, WA	UPPER WEST
87	DCE, WA WEST DISTRICT ASSEMBLY	WA	WA WEST DISTRICT ASSEMBLY	UPPER WEST
88	DCE, WA EAST DISTRICT ASSEMBLY	WA	WA EAST DISTRICT ASSEMBLY	UPPER WEST
89	DCE, JIRAPA DISTRICT ASSEMBLY	JIRAPA	JIRAPA DISTRICT ASSEMBLY	UPPER WEST
90	DCE, SISALA DISTRICT ASSEMBLY	SISALA	SISALA DISTRICT ASSEMBLY	UPPER WEST
91	DCE, NANDOWLI DISTRICT ASSEMBLY	NANDOWLI	NANDOWLI DISTRICT ASSEMBLY	UPPER WEST
92	DCE, LAMBUSSIE DISTRICT ASSEMBLY	LAMBUSSIE	LAMBUSSIE DISTRICT ASSEMBLY	UPPER WEST

SOURCES: AGRIC ENGINEERING SERVICES DIRECTORATE, 2020

SECTION 6: AGRO-PROCESSING FIRMS

TABLE 6.1: SOME AGRO-PROCESSING FIRMS

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
ADDICTIVES			
FREROX INVESTMENT LTD, TEMA	BISA POWDERED RED PEPPER	P. O. BOX 1871 ACCRA GHANA	+233 244163433
ESSAAR AGRO WEST AFRICA LTD, TEMA	ESSAAR POULTRY FEED CONCENTRATE 5%, 20%	P.O. BOX 1317, ACHIMOTA	+233 209229141
ANIMAL FEED			
NEW AGE FEED, MADINA, BEHIND OTINIBI CHIEFS' PALACE	DOPPYMIX EXPORT HIGH POTENCY POULTRY FEED BROILER FASTGROW, CHICKGRO, MAGGIC LAY	P.O. BOX M750, MADINA	+233 27492626
COSMO SEAFOODS CO. LTD. TEMA, GAR	COSMO FISH MEAL	P.O. BOX MS 157, MILE 7, ACHIMOTA	+233 302415001
HIRIGIFRED FARMS, DOBRO ANKWA ACCRA NSAWAM, E/R	HIRIGFED FEED CHICK STARTER, LAYER MASH, BROILER STARTER, BROILER FINISHER, CHICK	P.O. BOX 13559, ACCRA	+233 244686875
FLOUR MILLS OF GHANA LTD, TEMA, GAR	SANKOFA FEED LAYER MASH, GROWER, BROILER FINISHER, CHICK	P.O. BOX CE 11345, TEMA, GAR	+233 244326040

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
	SANKOFA FEED CONCENTRATE LAYER 20%, LAYER 50%, BROILER STARTER,50%, BOOILER FINISHER 50%, CHICK 50%		
CEREALS			
ISSHAD PLUS ENT, ACCRA, GAR	ISSHAD PORRIDGE (MORNING CART, B –SOYA, SUPER MIX)	P.O. BOX 29, ACCRA GAR	+233 206404793
FOOD TECH LIMITED	CORNERLY CORN SNACK	P.O.BOX GP 350, ACCRA GAR	+233 302229336
MARO INDUSTRIAL COMPANY GHANA LTD, ACCRA	BINGO POPS PUFFY CHIPS (CHEESE FLAVOUR) BINGO CORN POP (MILK, CHOCOLATE)	P.O.BOX AN 7617, ACCRA – NORTH	+233 244257354
INTERFOODS LIMITED, ACCRA, GAR	MR SNACKY CORN AND SNACK (CHOCOLATE, MALT AND MILK, CHEESE, SALT, PIZZA)	P.O.BOX DTD 1460, SAKOMAONO, ACCRA, GAR	+233 302302819
BEREDARK ENT, ADWESO BETOM, E/R	SNACKIES CORN SNACKS (SWEET CORN, SPICY GRILL)	P. O. BOX KF 706, KOFORIDUA, E/R	+233 541029442
TOPS 2020 VENTURES, TEMA, GAR	BERNE FOODS CEREAL MIX (TOM BROWN)	P. O. BOX 176, TEMA	+233 244861250

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
UNIQUE QUALITY PRODUCTS ENT. - YENDI ROAD, TAMALE, N/R	BEST FOODS CORNSOYA BLEND	P. O. BOX 209, TAMALE, N/R	+233 200775144
PROMASIDOR (GHANA) LTD	YUMVITA INFANT CEREAL WITH MILK (MAIZE AND WHEAT, WHEAT)	P. O. BOX KA 30530 ACCRA,	+233 302436649
MHC CO. LTD., AFIENYA, TEMA, GAR	TOOK (CORNCRUNCH ONION & HERBS, CORNCRUNCH BARBECUE, CHEESE CORNES)	P. O. BOX DD 183, AFIENYA	+233 508966945
BRAZIL AGRO-BUSSINESS GROUP. SOGAKOPE, V/R.	CHAMPION LONG GRAIN PERFUMED JASMINE RICE	P. O. BOX SK 139, ACCRA	+233 548306996
CCTC GHANA LTD., ACCRA, GAR	PRIDE SPECIAL GHANAIAN LONG GRAIN RICE (CCTC)	P. O. BOX KIA 30443, ACCRA	+233 302810161
VIRLEO ENTERPRISE	ROYAL TOM BROWN	21 ADJETEY KWEI MENSAH ST. GPS ADDRESS: GD 174 3247	+233 557090675
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	+233 244796263

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
FOOD RESEARCH INSTITUTE, ACCRA, GAR	FRI CEREAL MIX (MAIZE & RICE)	P. O. BOX M20, ACCRA	+233 0302-519091-5
	FRI MAIZE (FERMENTED MAIZE GRITS)		
	FRI BANKU MIX POWDER		
ROSEMARY ANABIA ENTERPRISE. LASHIBI-TEMA. GAR	ANABIA MILLET TOM BROWN	P. O. BOX DTD NO B32 LASHIBI –TEMA	+233 244-206156
CYNLAND ENTERPRISE	CYNLAND TOMBROWN	P. O. BOX KN 229 KANESHIE-ACCRA GAR	+233 3022366442
EMILKHAN ENT., TAMALE	D YOUNGS CEREALS (PURE SOYA FLOUR, BROWN RICE-GROUNDNUT-SOYABEANS MIX)	P. O. BOX 309, TAMALE	+233 20-834-6068
JIT SUPPLY CHAIN LTD., ADABRAKA, GAR	JUST-IN-TIME CEREAL	P. O. BOX 6279 ACCRA	+233 203 520 356
CELEBRATE NOBLES. ACCRA, GAR	MAWUSI'S SPECIAL WEANIMIX	P. O. BOX 12463 ACCRA – NORTH	+233 264680984
	(CLASSIC, ROYAL, PRESTIGE)		
CYNLAND ENTERPRISE	CYNLAND CORN GRITS (EKUEGBEMLI AND OBLAYOO)	P. O. BOX KN 229, KANESHIE ACCRA GAR	+233 302236642
E-PABBS-E SERVICES, TEMA	E-PABBS-E WEANIMIX	P. O. BOX SK 614 SAKUMONO	+233 244836821

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
GEROCK ENTERPRISE, SOMANYA SOCIA WELFARE,	ADEPA FOODS TOM BROWN	P. O. BOX YK 1033 KANDA – ACCRA	+233 571929090
ITC NETWORK AND FARMS, HEAVY INDUSTRIAL AREA, TEMA	ABK RICE	P. O. BOX MP 1993, MAMPROBI	+233 208 612352
HAYDAR CO. LTD., TEMA	OCTAVIO LONG GRAIN PERFUMED JASMINE RICE	P. O. BOX 1089, TEMA	+233 548555505
SAMPSTEL VENTURES	STELLIVITA TOM BROWN	P. O. BOX C/O SCHOOL OF MEDICAL SCIENCES, UCC CAPE COAST	+233 246761527
LEMONONT FOODS LTD. ACCRA, GAR	LEMONT CHEEMOS CORN SNACKS (ORIGINAL, SPICY BEEF, & CHEESE FLAVOURS)	P. O. BOX CT 176, CANTONMENT, ACCRA	+233 277420763
E. ADUENBEY ENT., ACCRA, GAR	EMROS CEREAL MIX	P. O. BOX 214, ACCRA	+233 242876185
COMAS FOODS	COSMAS READY TO COOK BANKU MIX	P. O. BOX 1523, ACHIMOTA – ACCRA	+233 208173123
	COSMAS READY TO COOK HAUSA MIX		
B'S QUICK FOODS ENT., KUMASI	ZEAMIX CEREALMIX	P. O. BOX 14472, ADUM-KUMASI	+233 2023418882
VITO A1 BAKERY, ASOKORE-MANPONG A/R	OLIVER CEREAL MIX	P. O. BOX UP 715. KNUST –A/R	+233 208448853

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
MAWUUWOE CO-OPERATIVE RICE PROCESSORS AND MARKETING SOCIETY LIMITED, HOHOE	FORHON TOMBROWN	P. O. BOX 124, HOHOE V/R	+233 541015727
KINGS TOUCH SERVICES	KINGS TOUCH MILLET MIX CEREAL	P. O. BOX ST 606, ACCRA – NORTH	+233 244717791
NESTLE GHANA LTD., ACCRA, GAR	NESTLE MILO NUTRILFILL READY-TO-EAT CEREAL	P. O. BOX 8350, TEMA	+233 544335484
	NESTLE CERELAC INFANT CEREAL WITH MILK (WHEAT, FRUIT, RICE, HONEY)		
	NESTLE CERELAC INFANT CEREAL WITH MILK (MAIZE)		
TAKORADI FLOUR MILL LTD., TAKORADI-W/R	SOFT SPECIAL PASTRY WHEAT FLOUR	P. O. BOX 663, TAKORADI	+233 312024053
	SELECTED HARD SPRING WHEAT FLOUR (SUNRISE)		
B-BLEND FOODS, HOHOE	'B' BLEND TOM BROWN	P. O. BOX 256, HOHOE. V/R	+233 205598247

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
BLESSED CHILD FOODS, ACCRA, GAR	BLESSED CHILD RICE MIX 3 IN 1	P. O. BOX NT 722 ACCRA	+233 242376586
	BLESSED CHILD RICE MIX 5 IN 1 CEREAL		
J SACK FOODS VENTURES, ACCRA, GAR	J SACK CERESOY	P. O. BOX 612	+233 508925015
CONFECTIONERY			
GABLIN FOODS LIMITED, BAATSONA, ACCRA	GABLIN INSTANT MILK CHOCOLATE DRINK	P. O. BOX 15521-ACCRA-NORTH	+233 244364040
BD ASSOCIATES GH. LTD., ACCRA, GAR	CHOCOMAC PRIME COCOA LIQUOR	P. O. BOX LG 722 LEGON	+233 244719989
DECOKRAFT, ACCRA-NORTH	DECOKRAFT HANDMADE DARK CHOCOLATE	P. O. BOX AN 10705 ACCRA-NORTH	+233 243927724
NICHE COCOA INDUSTRY LTD.,	NATURAL COCOA BUTTER	TEMA FREE ZONE ENCLAVE P.M.B TEMA	+233 303951450
	NATURAL COCOA CAKE		
OXY INDUSTRIES LTD., TEMA	SUNNY GOLD NATURAL COCOA POWDER	P. O. BOX CO 3180 COMMUNITY 1 TEMA	+233 244374071
PLOT ENTERPRISE GHANA LTD., TAKORADI, W/R	GOLD BRAND COCOA (LIQUOR, CAKE)	P. O. BOX TD 270 MPINTSIN ASHIEM ROAD, TAKORADI. W/R	+233 207023793

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
HOME BRAND CHOCOLATE LTD., TEMA, GAR	SRONKO HANDMADE MILK CHOCOLATE BAR	P. O. BOX GP 2843 ACCRA. GAR	+233 207023793
	HANDMADE MILK CHOCOLATE BAR (HOME CLASSIC, SRONKO)		
ADM COCOA (GHANA) LIMITED, KUMASI	ADM COCOA MASS	P. O. BOX KS 1966. KUMASI	+233 244343479
BLISS BAY INTERNATIONAL LIMITED	BLISS BAY TOASTED CRISPY COCONUT CHIPS	P. O. BOX 10068	+233 244542305
NESTLE GHANA LTD., ACCRA	NESTLE CHOCOLIM CUBES	P. O. BOX 8350, TEMA	+233 544335484
	NESTLE CHOCO MILO MALTED COCOA CUBES		
DAIRY			
JIGGI ENT., OBUASI, A/R	JIGGI FLAVORED YOGHURT (STRAWBERRY, PINEAPPLE)	C/O P. O. BOX 10, OBUASI	+233 0245 816175
YEBOLLA VENTURES, BOLGATANGA, UE/R	YOLONO YOGHURT	P.O. BOX 809, CAPE COST	+233 264 901436

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
TOMSTY ENT., BREMAN ROAD, A/R	TOM YOGHURT	P. O. BOXKS 6237, ADUM – KUMASI	+233 242 541026
MARAMA VENTURES, HO	RAMA YOGHURT	P. O. BOX 4082, ACCRA CENTRAL	+233 243 1756641
SILBEST GHANA LTD. MAKOLA, ACCRA.	SILBEST YOGHURT	P. O. BOX DM 120 MAKOLA, ACCRA	+233 268 861587
ZENO ENTERPRISE, EAST LEGON, ACCRA-GAR	ZENOS PROBIOTIC YOGHURT (NATURAL, SWEETENED, HONEY TOP, LABNEH STRAINED YOGHURT), GREEK STYLE EXTRA THICK)	ZENOS ENTERPRISE, ACCRA	+233 244 372980
FROST BITE GHANA LTD., ACCRA	FROSTY BITE ICE CREAM (STRAWBERRY, VANILLA, CHOCOLATE)	P. O. BOX AT 1107, ACHIMOTA ACCRA	+233 244 894703
	FROSTY BITE FANTASY VANILLA ICE CREAM		
	FROSTY BITE FANTASY VANILLA ICE CREAM		
DENEW ENTERPRISE. ASHIAMAN, GAR	DENEW YOGHURT	P. O BOX AT 1107, ACHIMOTA ACCRA	+233 208 159623
BETHBELL ENT. KUMASI, A/R.	GOLDENGATE FRESH YOGHURT (VANILLA & STRAWBERRY FLAVOURS)	P. O. BOX KS 8611	+233 244 942795
7E CO. LTD., ACCRA, GAR	YOGOFRESH MILD YOGHURT	P. O. BOX 14719, ACCRA	+233 277 485341

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
CHEIMIPONG ENT., ABESIM, B/A	CHEMI-FRESH STRAWBERRY FLAVORED YOGHURT	C/O SUNYANI SENIOR HIGH SCH, BOX 156, SUNYANI, B/A	+233 545 156195
SALAMATU SPECIAL BURKINA	SALAMATU SPECIAL BURKINA	H/NO A 124/10	+233 236 138447
SIMPAUL LTD., JOAPONG, GAR	HAPPY COW CHEESE	P. O. BOX KD 320, ACCRA	+233 509 422334
CAPHAZAN ENTERPRISE, KASOA	ZEEGHURT FLAVOURED YOGHURT (STRAWBERRY FLAVOURS)	P. O. BOXAF 199, ADA-FOAH	+233 208 494241
KAMIAN COMPANY LTD., OSU-ACCRA, GAR	VIVA YOGHURT	P. O. BOX OS 2025, OSU-ACCRA, GAR	+233 543 665671
ZAHRAT ENT., ACCRA	ZAHRAT MILK WITH MILLET DRINK	P. O. BOX GP 740, POLICE DEPOT, TESANO	+233 541 106163
ZENO ENTERPRISE, EAST LEGON, ACCRA-GAR	ZENO'S PROBIOTIC YOGHURT (TROPICAL –BLEND, TROPICAL-BITS, VERY BERRY-BLEND)	P. O. BOX OS 496, OSU-ACCRA	+233 244 372980
DRINKS			
YABCO FOCUS CO. LTD., BOLGATANGA, UE/R	STARR FRESH NATURAL FRUIT JUICE	P. O. BOX 29, BOLGATANGA, UE/R	+233 244 143671

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
ALLIED COCOA PRODUCTS LTD., EDDY WILLIAMS YARD, BUSIA RD., SOUTYH ODORKOR	BROMA NATURAL COCOA POWDER	P. O. BOX OD 203, ODORKOR	+233 302 307632
SILBEST GHANA LTD. MAKOLA, ACCRA GAR	SILBEST BISSAP	P. O. BOX DM 120 MAKOLA, ACCRA.	+233 268 861587
	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	+233 244 461962
HENGRA LTD., APENDWA \J\UNCTION, E/R	HENGRA FRUIT JUICE (PINEAPPLE, COCKTAIL)	P. O. BOX KF K90, KOFORIDUA	+233 245 799700
1 AFRICA INDUSTRIES LTD., ACCRA, GAR	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	+233 267 258974
CHRISLISLAW VENTURES, WINNEBA OPP. NORTH CAMPUS, C/R	CHRISLAW SPICY DRINK	P. O. BOX CO 2871, TEMA	+233 262 002943
AKPET GLOBAL LIMITED, MADINA, GAR	AKPET ICE ORIGINAL ACETATE	P.O. AM 412, AMASAMAN	+233 209 858503
FATS & 0ILS			
AVNASH INDUSTRIES GHANA LTD., TEMA	DELYTE PURE VEGETABLE OIL	PMB 338, TEMA	+233 540 101144
VASK FOODS, ACCRA, GAR	VASK PALM OIL	P. O. BOX CT 2172, CANTONMENT, ACCRA	+233 264 380023

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
HOMEFOODS PROCESSING AND CANNERY LIMITED. ACCRA	HOMEFOODS PALM OIL	P. O. BOX KIA 16519, AIRPORT ACCRA	+233 302 303914
	HOMEFOODS VEGETABLES COOKING OIL		
B. FOSTER ENT., KOFORIDUA, E/R	B. FOSTER PURE COCONUT OIL	P. O. BOX 1508, KOFORIDUA E/R	+233 208 434550
	B. FOSTER SHEA BUTTER		
MANAJ TRADING LTD., ACCRA. GAR	PRIDE OF AFRICA PURE PALM OIL	P. O. BOX 45, JANKAMA-ABURI, E/R	+233 546 388339
ADNET TRADING LTD., ACCRA. GAR	WINNIES PALM OIL (ZOMI)	P. O. BOX 1438, ACCRA	+233 244 058590
ECO-TECH GREEN GHANA LTD., ASSIN JUABIN, C/R	TASTY PALM OIL	P. O. BOX OC 1089, ODORKOR, ACCRA	+233 244 225946
MEOLAS ENTERPRISE, ALAJO ACCRA	MEOLAS PALM OIL	P. O. BOX 2, ACCRA	+233 242 354070
BELINDA ASANTE IMPORT & EXPORT ENT., ACCRA	GHANA BEST NATURAL PALM OIL	P. O. BOX ML 424, MALLAM, ACCRA.	+233 240 405052
PRAISE EXPORT SERVICES LTD., ACCRA GHANA	PRAISE AFRICAN PALM OIL (REGULAR & ZOMI)	P. O. BOX TB 360, TIAFA, ACCRA	+233 267986074
RICH A. DANNIELS VENTURES, ACCRA	RICHGREASOL BREAD –PAN LUBRICANT VEGETABLE OIL	P. O. BOX 7, ANOMABO, C/R	+233 245079375

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
STANGEL DREAM VENTURES, ACCRA	LEGACY PURE PALM OIL (ZOMI)	P. O. BOX GP 2273	+233 249336603
GARBA BAARE CO. LTD KOFORIDUA	MAR-JAR PALM OIL	P. O. BOX 41, OYOKO-KOFORIDUA	+233 243717622
PLEASANT DALES EXPRESS	QUEENS VIRGIN COCONUT OIL	P. O. BOX 1497 DANSOMAN, ACCRA	+233 277321000
AMEPET ENT., ACCRA, GAR	AMEPET ZOMI PALMOIL	P. O. BOX NG 262, NUNGUA, ACCRA	+233 240508870
WILMAR AFRICA LTD., TEMA	ALFFI VEGETABLES OIL	P. O. BOX P.M.B 169, TEMA	+233 207495093
DKM SHEA BUTTER PROCESSING FACTORY LTD., WA, U/W	DKM SHAEA BUTTER	P. O. BOX 2068, WA	+233 203788899
MEANNAN FOODS, TEMA, GAR	MEANNAN FOODS PALM OIL	P. O. BOX CO 950, TEMA, GAR	+233 244280527
DALI INDUSTRIAL COMPANY LIMITED, TEMA, GAR	DALI SOYABEAN OIL	P. O. BOX SQ `175, TEMA, GAR	244275608
C & S FOODS GH. LTD., CEMSDA IRON CITY, C/R	GHANA PALM OIL- (REGULAR, ZOMI)	P. O. BOX OD 1081, ODORKOR, ACCRA	+233 244638499
	GHANA TASTE ZOMI PALM OIL NIGERIA TASTE PALM OIL		
FISH & FISH PRODUCTS			
ICHIBAN SEAFOODS CO. LTD., TEMA HARBOR AREA, GAR	ICHIBAN FROZEN TUNA (BELLY MEAT, HEAD, CHIN, STEAK, LOIN, BLOCK)	P. O. BOX PMB 135, TEMA, GAR	+233 302216765

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
PIONEER FOOD CANNERY LTD, TEMA	PETIT NAVIRE NATURAL WHOLE YELLOW FIN TUNA (400G, 132G, 190G, 265G)	P. O. BOX 40, TEMA	+233 303205051
	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)		
M-JAP COMPANY LTD. DJANKROM-NSAWAM. E/R	M-JAP VOLTA LAKE SMOKED FISH MIX	P. O. BOX 840 NSAWAM	+233 244114533
BIN-ABI VENTURES, SABONGIDA, N/R	BIN-ABI SHRIMP POWDER	P. O. BOX 1145, TAMALE, N/R	+233 208388288
A.A.D BLUE OCEAN, ACCRA	A.A.D BLUE OCEAN BOIBOI FISH	P. O. BOX 1463, ACCRA-GHANA	+233 242323239
FRUITS			
GREEN ACTION GH. LTD, PRIVATE MIL BAG, BAWKU-GINANDI, U/E	BAOBAB FRUIT POWDER	PRIVATE MAIL BAG, BAWKU-GINGANDI, U/E	+233 244873097
GRACE FOODS, ACCRA, GAR	SNAPPLE PINEAPPLE JAM	P. O. BOX 11116	+233 249453079

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
IDEAL PROVIDENCE FARMS, KPONE, GAR	KROMS HOMEMADE ORGANIC ROSELLA JAM	P. O. BOX 1225, ACCRA	+233 244664572
	KROMS HOMEMADE ORGANIC LEMON GINGER MARMALADE		
MEAT & MEAT PRODUCTS			
SPICY FOODS, CANTONMENTS, ACCRA, GAR	SPICY FOODS HOT SPICY SAUSAGES	P. O. BOX CT 650, CANTONMENTS- ACCRA	+233 244 262010
PRO-10 GHANA LTD., ACCRA NORTH	PRO-10 BEEF SAUSAGE	P. O. BOX AN 15603	+233 244 185012
MASTER MEATS GHANA LTD	MASTER MEATS SMOKED CHICKEN THIGHS	P. O. BOX CT 20, CANTONMENTS-ACCRA	+233 244 737166
	MASTER MEATS SMOKED TURKEY WINGS		
	MASTER MEATS SMOKED BEEF SAUSAGE		
	MASTER MEATS BEEF BILTONG		

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
	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)	P. O. BOX DC 1214, DANSOMAN	+233 244 336475
	TASTY MORTADELLA (CHICKEN)		
	LELE BEEF SAUSAGE		
ROOTS & TUBERS			
CASSO L ENT., KUMASI, A/R	CASSO FOODS PLANTAIN CHIPS	P. O. BOX SE 2627	+233 243 320577
OXY INDUSTRIES LTD., TEMA, GAR	OXY'S GARI	P. O. BOX CO 3180, COMMUNITY 1, TEMA	+233 244 374071
FOOD RESEARCH INSTITUTE ACCRA, GAR	CSIR (KOKONTE & CASSAVA FLOUR)	P. O. BOX M20, ACCRA	+233 302- 519091-5

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
ELSA FOODS LTD., ACCRA, GAR	AFRICAN KING PLANTAIN FUFU FLOUR	P. O. BOX 7565, ACCRA-NORTH	+233 203 140085
	AFICAN KING PLANTAIN FUFU FLOUR		
MINAS GOD REIGNS ENT., KUMASI, A/R	MINAS PLANTAIN CHIPS	P. O. BOX R 470 RAILWAYS KUMASI	+233 243 321076
FUDEES LIMITED. KASOA. GAR	OUR DAY PLANTAIN CHIPS	P. O. BOX GP 1008	+233 262 339292
CYLAND ENTERPRISE, KANESHIE-ACCRA, GAR	CYNLAND (GARI & GARMIX)	P. O. BOX KN 229, KANESHIE-ACCRA. GAR	+233 302 36642
AMPOMAH FARM FOODS INDUSTRIES LTD., KUMASI, A/R	AFFI VITAL FOODS GARI (SCHOOL SNAX, FLAVEZ, SOYA GARI AND PARCHED CRISPY GARI)	P. O. BOX EF 91, EFFIDUASE-KUMASI, A/R	+233 267 110726
LEE HOUSE & CHEMICAL VENTURES	LEEMEX PLANTAIN FUFU FLOUR	P. O. BOX 16810 ACCRA-NORTH	+233 244 376747
AMAB FINE SNACKS, TEMA GAR	KELE PLANTAIN CHIPS	P. O. BOX 11550, TEMA	+233 267 110726
SNACK TREATS ENTERPRISE, ACCRA	SNACK TREATS PLANTAIN CHIPS (PLANTAIN CHIPS, PLANTAIN CHIPS AND COATED GROUNDNUT)	P. O. BOX GP 18588, ACCRA	0208 979800

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
J-NISSI ENT., GBAWE, GAR	J-NISSI GINGER CHIPS	P. O. BOX 411, GBAWE MALLAM	+233 272 082923
SENTIENT WHOLE FOODS, ACCRA, GAR	ANANDAM PLAINTAIN CHIPS (SPICY, SALT-FREEZE AND SALTY)	P. O. BOX GP 1771, ACCRA	+233 246 96 2328
SPICES & CONDIMENTS			
BAYS WATER INDUSTRIES LTD., KETA	MR. CHEF SHRIMP SEASONING	P. O. BOX 91, KETA	+233 543 132163
BRM TRADING CO. LTD., TAMALE	BRM DAWADAWA SPICE	P. O. BOX 1184, TAMALE	+233 244455559
BIN-ABI VENTURES, SABONGIDA, N/R	BIN-ABI DAWADAWA SPICE	P. O. BOX 1145 TAMALE N/R	+233 208388288
ZAK BELIM VENTURES, ABELEMPPE, ACCRA, GAR	BELIM DAWADAWA POWDER	P. O. BOX NM 130, NIMA ACCRA	+233 249465861
A1 SPICES	MAMI'S SPICE (WHITE PEPPER MIX, CURRY POWDER)	P. O. BOX 345 KANESHIE	+233 277145764
	MIMI'S SPICE (ANISEED POWDER, NUTMEG POWDER, ROSEMARY POWDER)		
	MAMI S SPICE POWDERED SEEDS (WHITE PEPPER MIX, NKETENKETE, (ANISEED)		

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
M2V VENTURES, ACCRA	M2V SPICES GARLIC POWDER	P. O. BOX AN 12676 ACCRA-NORTH	+233 206232696
	M2V SPICES GINGER POWDER		
	M2V SPICES CHILLI POWDER		
SUGAR & SUGAR PRODUCTS			
KAMA INDUSTRIES LTD, ACCRA GAR	KAMA PURE HONEY	P. O. BOX AN 5437 ACCRA-NORTH	+233 302782702
SAMARTEX TIMBER & PLYWOOD CO, LTD	SAX PURE HONEY	P. O. BOX 1, SAMBREBOI	+233 32422021
TEGS CATERING SERVICES ENT, ACCRA, GAR	TEGS PURE HONEY	P. O. BOX 745, TESHIE NUNGUA ESTATE, ACCRA GAR	+233 277557566
REDEEMER REINGS ENTERPRISE ACCRA GAR	AROMA ORGANIC HONEY	P. O. BOX CT 9051 CANTONMENTS	+233 246239388
GILGAL NATURAL BEE HONEY, TEMA, COMMUNITY 5	GILGAL PURE HONEY	P. O. BOX CO 634, TEMA	+233 243573799
B. FOSTER ENT, KOFORIDUA E/R	B. FOSTER PURE HONEY	P. O. BOX 1508, KOFORIDUA, E/R	+233 208434550
KWAEMU PURE HONEY, ACCRA GAR	KWAEMU PURE HONEY	P. O. BOX GP 1210 ACCRA GAR	+233 274301339
M-JAP COMPANY LTD DJANKROM –NSAWAM E/R	M-JAP HONEY	P. O. BOX 840 NSAWAM	+233 244114533
JA 24 FOODS, ACCRA	HONEYWORLD HONEY	P.O.BOX CT 10369	+233 206813554

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
BECKY QUEEN CATERING SERVICES	BECKY QUEEN NATURAL HONEY	P.O.BOX 120 KWABENYA HIGH STREET	+233 243718799
FELIMOSCO ENT., HO	FELIMO HONEY	P.O.BOX 556, HO	+233 287046775
VER-CEDAR VENTURES	CEDAR HONEY	P.O.BOX ML 311	+233 244990592
NUMBU INNOVATION ENT., WA	NUMBU HONEY	P.O.BOX 215, WA-UWR	+233 246987751
IKON TILAPIA FARM LTD., WA. U/W/R	CEETA NATURAL HONEY	P.O.BOX KP 201, WA-U/W/R	+233 2664918583
INKONIM FOODS	INKUNIM FOODS HONEY	P.O.BOX 15919, ACCRA-NORTH, ACCRA	+233 244566371
VEGETABLE, LEGUMES & PULSES			
FOOD TECH LIMITED, ACCRA	SNAPPY CRISPY PEANUT SNACKS	P.O.BOX 250	+233 302229336
WINKER INVESTMENT LIMITED	WINKER CASHEW NUTS	P.O.BOX 278 ACCRA	+233 572716215
GHATTY FOODS, ACCRA GAR	GHATTY FOODS GROUNDNUT PASTE	P.O.BOX ML MALLAM, ACCRA	+233 264364574
	GHATTY FOODS COWPEA		
RAJKUMAR IMPEX GHANA LIMITED TECHIMAN.	RAJKUMAR IMPEX BLANCHED CASHEW KERNELS	P.O.BOX 855 TECHIMAN	+233 242329002
ST. BAASA GH.LTD. B/A	FRESH MAMA PALM NUT CREAM	P.O.BOX 92 CHIRAA SUNYANI	+233 200950330
HEALTHY SNACK SEEDS LTD TEMA, GAR	HEALTHY SNACKS (SESAME SEED, MIXED SEEDS)	P.O.BOX 677 LEGON, ACCRA	+233 207053724

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
GLOBAL NANAFUA SERVICES, ACCRA, GAR	GLOBAL NANAFUA ROASTED CASHEW NUTS	P.O.BOX GP 14848 ACCRA, GAR	+233 208211500
FOOD RESEARCH INSTITUTE ACCRA, GAR	CSIR GROUNDNUT PASTE	P.O.BOX M20, ACCRA	+233 3025190915
TIP TOP FOOD LTD, HO, V/R	TOMAFRESH TOMATO PUREE	P.O.BOX AW 14 ANGOLA V/R	+233 244060442
CONSERVERIA AFRICANA GHANA LTD., TEMA, GAR	POMO TOMATO PASTE (70G SACHET)	PMB 292 COMMUNITY 1 TEMA	+233 244622789
NANA ADEBI ENTERPRISE, ACCRA, GAR	NANA ADEBI ROASTED CASHEW NUTS	P.O.BOX A 329 LA, ACCRA	+233 208116610
DONPOSH HOMEMADE FOODS, KUMASI, A/R	ADIDIPA MELON SEEDS PASTE (WREWRE)	P.O. BOX KS 12541, KUMASI	+233 244 791387
DANIELS MUSHROOM FARMS, KUMASI A/R	WISE CHOICE FRESH OYSTER MUSHROOMS	P.O. BOX 1279, ADUM-KUMASI	+233 241437413
ADB AND SONS CO. LTD., KUMASI, A/R	DIANA'S TOMATO PUREE	P.O. BOX SE 1815, SUAME-KUMASI, A/R	+233 241773256
CYNLAND ENTERPRISE, KANESHIE-ACCRA, GAR	CYNLAND CREAMY GROUNDNUT BUTTER	P.O. BOX KN 229, KANESHIE ACCRA, GAR	+233 30236642
GRACE FOODS, ACCRA, GAR	SNAPPLE TOMATO KETCHUP	P.O. BOX 11116	+233 249453079
OLAM GHANA LTD., ACCRA	FESTI TOMATO MIX	P. O. BOX GP 1847, ACCRA	+233 303413157

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
	TASTY TOM TOMATO MIX		
	TASTY TOM TOMATO PASTE WITH ADDITIONAL INGREDIENTS		
BECKY QUEEN CATERING SERVICE	BEACKY QUEEN PEANUT (BUTTER, CRUNCH)	P.O. BOX 120, KWABENYA HIGH STREET	+233 243718799
STANGEL DREAM VENTURES, ACCRA	LEGACY NATURAL PEANUT BUTTER	P.O. BOX GP2273	+233 249336603
REAP GROUNDNUT PASTE, ACCRA, GAR	REAP GROUNDNUT PASTE	P.O. BOX KN 1089 KANESHIE, ACCRA	+233 269450777
BLEKA INDUSTRIES LIMITED	BLEKA FARM FRESH TOMATO SAUCE (PUREE)	P.O. BOX 10068, ACCRA-NORTH	+233 244542505
NUMBU INNOVATION ENTERPRISE, WA	NUMBU PEANUT (ANI SPREAD)	P.O. BOX 215, WA-UWR	+233 246987751
AUB DASAN VENTURES, WA-W/R	NSOROMA GROUNDNUT PASTE	P.O. BOX 579, WA-UWR	+233 209517616
TOP UP INVESTMENT LTD., ACHIMOTA ACCRA	ANITA TOMATO PASTE	NO. 202, BEHIND SONIDOM FILLING STATION, ACHIMOTA	+233 201577890
COCOA RESEARCH INSTITUTE OF GHANA	WHOLE CASHEW NUTS	P.O. BOX 8, NEW TAFO AKIM., E/R	+233 540933451
NUTRIFOODS GHANA LTD., ACCRA	TASTY TOM TOMATO PASTE	P.O. BOX GP 1847, ACCRA	+233 544310697

SOURCE: FOOD AND DRUGS AUTHORITY

SECTION 7: AGRICULTURAL COMMODIY PRICES

TABLE 7.1: ANNUAL NOMINAL WEIGHTED AVERAGE RURAL WHOLESALE PRICE (GH₵ PER MT).

CROPS	2013	2014	2015	2016	2017	2018	2019	2020
CASSAVA	499.65	440.37	526.86	1,328.30	1,086.31	1,084.24	1,294.18	1,583.06
YAM	907.92	942.78	1,220.63	1,592.57	1,933.04	1,753.10	2,448.62	2,901.78
PLANTAIN	900.84	1,001.42	1,086.45	2,521.77	2,275.44	1,941.21	2,853.53	2,585.30
COCOYAM	1,074.27	1,221.21	1,215.80	2,026.24	2,154.29	1,444.64	3,205.09	3,304.99
MAIZE	741.01	1,066.56	1,421.69	1,423.22	1,353.00	1,438.07	1,582.59	1,659.80
SORGHUM	1,094.94	1,325.22	1,413.76	1,442.01	1,826.55	2,023.80	3,013.40	2,559.83
GROUNDNUT	3,120.04	3,646.70	4,879.15	4,985.65	4,516.16	4,640.42	5,337.31	6,233.03
MILLET	1,439.40	1,616.73	897.05	1,889.19	2,251.99	2,732.91	2,791.40	2,908.40
RICE	1,660.80	2,223.25	2,657.21	4,209.04	4,024.91	3,315.98	3,928.12	4,303.04
TOMATO	3,305.37	4,253.09	5,246.83	5,159.01	2,650.96	4,606.79	7,044.47	6,729.78

SOURCE: STATISTICS RESEARCH AND INFORMATION DIRECTORATE, SRID-MOFA (2020)

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	2020
CASSAVA	465.65	384.26	348.89	348.89	564.08	495.2	1,159.66	1,343.51
YAM	846.15	822.67	808.31	897.73	1,003.76	800.69	2,194.11	2,462.68
PLANTAIN	839.55	873.84	719.46	1,421.51	1,181.56	886.6	2,556.93	2,194.09
COCOYAM	1,001.19	1,065.62	805.11	1,142.19	1,118.65	659.81	2,871.94	2,804.88
MAIZE	690.59	930.68	941.45	802.27	702.57	656.8	1,418.09	1,408.64
SORGHUM	1,020.45	1,156.39	947.46	812.96	948.46	924.32	2,700.18	2,172.06
GROUNDNUT	2,907.77	3,182.11	3,231.01	2810.4	2,345.08	2,119.4	4,782.51	5,289.85
MILLET	1,341.47	1,410.76	594.03	1,064.92	1,169.38	1,248.19	2,501.25	2,468.30
RICE	1,547.81	1,940.01	1,759.62	2,372.62	2,089.99	1,514.49	3,519.82	3,651.91
TOMATO	3,080.49	3,711.25	3,474.49	2,908.12	2,650.96	2,104.04	6,312.25	5,711.43

SOURCE: STATISTICS, RESEARCH AND INFORMATION DIRECTORATE, SRID-MOFA

SEE APPENDICES 1-10 FOR PRICE TREND GRAPHS

TABLE 7. 3: NATIONAL AVERAGE PRICES OF SELECTED AGRICULTURAL INPUTS (GH₵)

INPUT	UNIT	2014	2015	2016	2017	2018	2019	2020	% CHANGE			
									2016/17	2017/18	2018/19	2019/20
NPK	50KG	80.69	115.17	107.56	112.00	102.50	90.47	105.35	4.13	-8.48	-11.74	16.45
SULPHATE OF AMMONIA	50KG	68.19	99.51	92.71	91.00	91.75	84.99	89.88	-1.84	0.82	-7.37	5.75
UREA	50KG	71.31	104.19	98.71	102.00	95.06	88.96	90.44	3.33	-6.80	-6.42	1.66
ROUND UP	1 LITRE	14.85	20.54	21.67	21.90	16.49	21.52	19.25	1.06	-24.70	30.50	-10.55

INPUT	UNIT	2014	2015	2016	2017	2018	2019	2020	% CHANGE			
									2016/17	2017/18	2018/19	2019/20
KARATE	1 LITRE	12.73	13.20	14.00	16.27	21.14	20.88	28.13	16.21	29.93	-1.23	34.72
ACTELLIC	1 LITRE	NA	18.29	23.83	18.00	31.20	38.86	N/A	-24.46	73.33	24.55	-
HOE	SINGLE	6.71	9.09	11.44	12.35	12.84	14.73	13.67	7.95	3.97	14.72	-7.20
CUTLASS	SINGLE	11.20	16.02	16.98	16.34	17.61	18.46	21.88	-3.77	7.77	4.83	18.53
JUTE SACK	SINGLE	2.98	6.54	7.00	5.26	4.33	4.00	5.21	-24.86	-17.68	-7.62	30.25

**A REBASED CPI WITH 2012 CONSTANT PRICES*

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE, SRID-MOFA

TABLE 7.6: COST OF FERTILIZER: FULL VS. SUBSIDIZED – 2020

FERTILIZER PRODUCT (25 KG BAG)	FULL COST (GH₵)	SUBSIDY PRICE (GH₵)	FARMERS' PRICE (GH₵)	PERCENTAGE SUBSIDY (%)
NPK (15-20-20+0.7Zn)	80	38	42	47
NPK (12-30-17+0.4Zn)	80	38	42	47
NPK (23-10+05+2MgO+3S+0.3Zn)	75	33	42	44
NPK (20-10-10+3S)	74	32	42	43
NPK (25-10-10+6S+3MgO+0.3Zn)	76	34	42	44
NPK (11-22-21+5S+0.7Zn+0.5B)	83	41	42	49
UREA (46%N)	72	32	40	44

SOURCE: DIRECTORATE OF CROPS SERVICES (DCS) -MO

TABLE 7.4: COST AND QUANTITY OF FERTILIZER SUBSIDY

YEAR	TOTAL SUBSIDY PAID BY GOVERNMENT (GH₵'000)	TOTAL QUANTITY (MT)
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
2020	603,416	424,000
TOTAL	2,004,881	1,934,404

SOURCE: DIRECTORATE OF CROPS SERVICES (DCS) –MOFA, 2020

** NO FERTILIZER SUBSIDY SCHEME*

TABLE 7.5: COST AND QUANTITY OF SEED SUBSIDY

YEAR	TOTAL SUBSIDY PAID BY GOVERNMENT (GH₵'000)	TOTAL QUANTITY (MT)
2017	35,405.00	4,400
2018	64,021.00	6,822
2019	169.256.00	18,204
2020	301,085.00	29,500
TOTAL	**400,511.00**	**58,926**

SOURCE: DIRECTORATE OF CROPS SERVICES (DCS) –MOFA, 2020

SECTION 8: AGRICULTURE AND NATIONAL ECONOMY

TABLE 8.1: CONTRIBUTION OF VARIOUS SUB-SECTORS TO AGRICULTURAL GDP (2013 CONSTANT PRICES) (%)

AGRICULTURE SUB-SECTORS	2013	2014	2015	2016	2017	2018	2019	2020*
CROPS, INCLUDING COCOA	73.05	72.09	72.46	76.39	77.28	78.26	79.21	81.16
COCOA	*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***

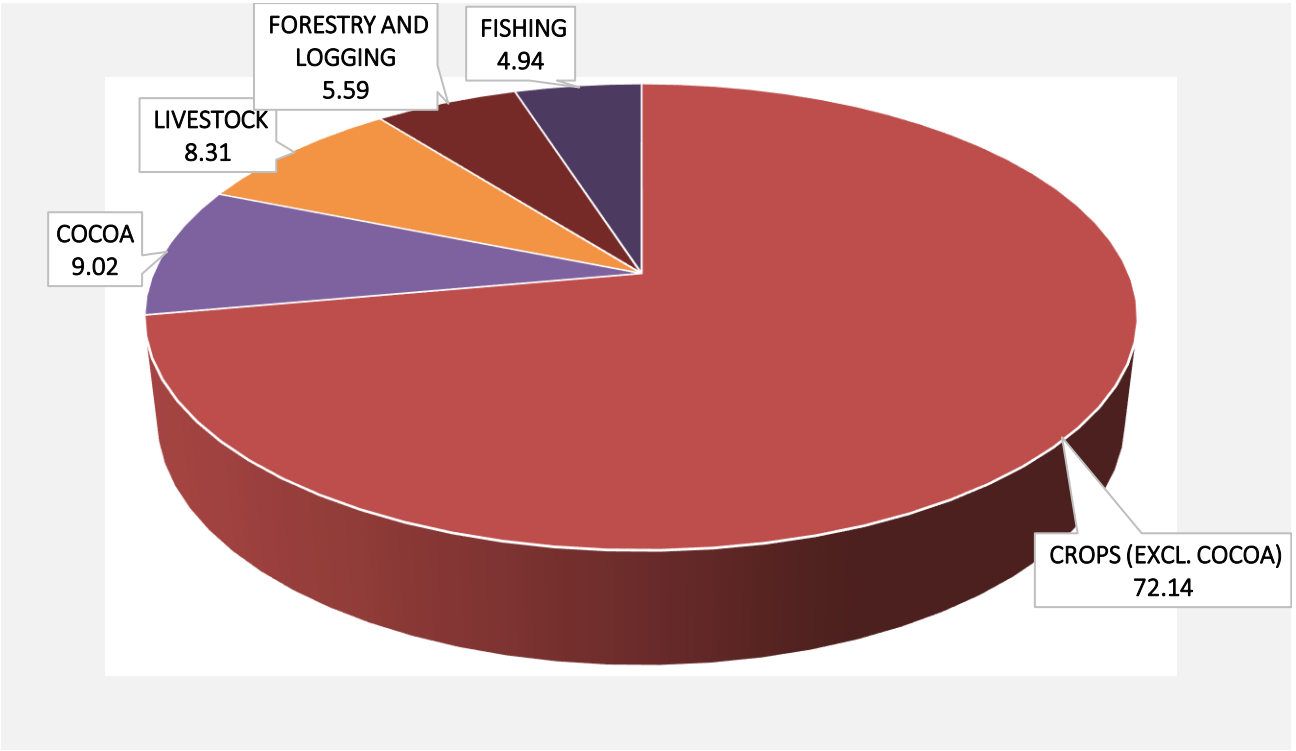


FIGURE 14:2020 AGRICULTURAL GDP (%) BY SUB-SECTOR

SOURCE: BASED ON TABLE 8.1

TABLE 8.2: SHARE OF AGRICULTURE AND OTHER SECTORS IN GDP (%)

SECTOR	2013	2014	2015	2016	2017	2018	2019	2020
AGRICULTURE	21.43	21.83	21.86	22.59	21.12	19.65	18.52	19.09
INDUSTRY	35.87	37.03	33.81	29.81	31.94	33.02	33.23	36.30
SERVICES	42.70	41.14	44.33	47.60	46.94	47.33	48.25	44.62
GDP AT CURRENT MARKET PRICES (GH¢-MILLION)	118,314.00	142,365.00	167,731.00	202,606.00	243,432.00	284,771.00	333,555.00	386,880.00

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 (%)

SECTOR	2013	2014	2015	2016	2017	2018	2019	2020
AGRICULTURE	5.7	0.9	2.1	2.7	6.2	4.9	4.7	7.4
INDUSTRY	10	1.1	1.2	4.3	15.6	10.5	6.4	-3.6
SERVICES	6.6	5.2	2.9	2.8	3.4	2.8	7.6	1.5
NATIONAL	7.3	2.8	2.1	3.3	8.3	6.1	6.5	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 (%)

	2013	2014	2015	2016	2017	2018	2019	2020
CROPS	5.9	2.8	1.7	2.2	7.2	5.8	5.3	8.7
COCOA	2.6	4.3	-8	-7	9.2	3.7	5.4	1.9
LIVESTOCK	5.3	5.1	5.2	5.4	5.7	5.4	5.4	5.4
FORESTRY& LOGGING	4.6	-1.5	-3.9	2.9	3.4	2.4	-1.7	-9.2
FISHERIES	5.7	-23.3	8.5	3.1	-1.4	-6.8	1.7	14.4
AGRICULTURE	5.7	0.9	2.1	2.7	6.2	4.9	4.7	7.4

SOURCE: ANNUAL 2013 - 2020 GDP, (APRIL 2021 EDITION) - GHANA STATISTICAL SERVICE (GSS)

** PROVISIONAL ESTIMATES*

TABLE 8.5: PERFORMANCE OF NON-TRADITIONAL AGRICULTURAL EXPORTS

ITEMS	2016	2017	2018	2019	2020
TOTAL VOLUME OF NON-TRADITIONAL AGRICULTURAL EXPORTS ('000 MT)	612	516	620	656	571
TOTAL VALUE OF NON-TRADITIONAL AGRICULTURAL EXPORTS IN US $M	371	441	591	430	399
TOTAL VALUE OF ALL NON-TRADITIONAL EXPORTS IN US $B.	2.5	2.6	2.8	2.9	2.7
CONTRIBUTION OF NON-TRADITIONAL AGRICULTURAL EXPORTS (%)	15.1	17.3	21	14.8	14.4

SOURCE: GHANA EXPORT PROMOTION COUNCIL, ACCRA

TABLE 8.6: VOLUME OF MAIN NON-TRADITIONAL AGRICULTURAL EXPORTS (MT.)

COMMODITY	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% CHANGE (2019/2020)
HORTICULTURAL:											
PINEAPPLE	45,057	41,212	40,095	33,634	43,461	27,148	36,331	17,507	18,280	14,173	-41.07
YAM	27,393	25,079	5,230	36,826	28,296	24,105	18,644	17,279	29,037	38,566	95.29
ORANGES	3,812	7,589	8,233	9,025	5,062	6,789	6,059	7,192	10,153	3,213	-69.40
VEGETABLES	11,658	1,960	n. a	870	338	294	580	405	553	956	4.03
BANANA	63,761	60,425	8,656	56,075	95,180	108,473	112,861	178,903	191,222	92,974	-982.48
MANGOES	869	1,222	1,789	1,276	2,219	2,122	1,741	2,817	1,953	3,649	16.96
PAWPAW	920	426	1,119	1,295	664	520	1,639	1,240	1,446	1028	-4.18
FISH & SEA FOODS:											
TUNA FISH	4,707	19,799	6,496	26,820	12,138	26,387	33,167	31,455	29,109	N. A	-291.09
OTHER FISH	7,972	n. a	7,008	5,792	4,654	8,076	4,695	3,560	1,989	N. A	-19.89
LOBSTERS/SHRIMPS, ETC.	57	18	52	93	27	N. A	59	55	N. A	8	0.08
PROCESSED & INDUSTRIAL:											
CUTTLEFISH & OCTOPUS	560	412	130	556	1,020	5,556	10,546	6,193	4,103	391	-37.12
CASHEW NUTS	215,587	157,176	271,537	192,376	232,835	231,555	207,479	259,432	265,078	25,1615	-134.63
COCOA PRODUCTS	233,730	n. a	n. a	220,308	n. a	261,816	N. A	N. A	N. A	N. A	0.00
RAW/LINT COTTON	1194	n. a	n. a	2,516	598	1,662	398	N. A	8.105	163	1.55
COFFEE	9,035	48,517	918	112	174	538	8	N. A	41.15	44	0.03
COTTON SEED	3,530	7,077	2,984	509	n. a	N. A	370	42	N. A	163	1.63
KOLA NUT	1,186	1,758	527	135	n. a	N. A	7,898	2,867	2,807	768	-20.39
SHEA NUTS	111,194	108,976	37,518	59,909	134,651	78,268	10,983	27,967	53,566	27,613	-259.53

SOURCE: GHANA EXPORT PROMOTION COUNCIL (GEPC), ACCRA

TABLE 8.7: VALUE OF MAIN AGRICULTURAL NON-TRADITIONAL EXPORTS (US $'000)

COMMODITY	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% CHANGE (2019/2020)
HORTICULTURAL:											
PINEAPPLE	45,057	41,212	40,095	33,634	43,461	13,727	18,056	9,254	9,228	8,785	-4.80
YAM	27,393	25,079	5,230	36,826	28,296	18,977	8,516	8,621	13,690	13,429	-1.91
ORANGE (FRESH)	3,812	7,589	8,233	9,025	5,062	341	475	668	388	510	31.44
VEGETABLES	11,658	1,960	n. a	870	338	275	602	291	551	1,552	181.67
BANANA	63,761	60,425	8,656	56,075	95,180	30,853	38,797	85,544	63,828	40,771	-36.12
MANGO	869	1,222	1,789	1,276	2,219	11,596	10,852	12,946	12,527	20,545	64.01
PAWPAW	920	426	1,119	1,295	664	343	1,159	906	962	723	-24.84
FISH & SEA FOODS:											
TUNA FISH	4,707	19,799	6,496	26,820	12,138	26,374	57,712	44,093	38,890	N. A	-
OTHER FISH	7,972	n. a	7,008	5,792	4,654	3,111	2,967	1,959	655	N. A	-
LOBSTERS/SHRIMPS, ETC	57	18	52	93	27	N. A	268	24	N. A	3	-
PROCESSED TUNA	560	412	130	556	1,020	N. A	N. A	N. A	145,707	N. A	-
CUTTLEFISH/OCTOPUS	215,587	157,176	271,537	192,376	232,835	4,087	11,447	10,074	5,399	1,528	-71.70
PROCESSED & INDUSTRIAL:											
CASHEW NUTS	233,730	n. a	n. a	220,308	n. a	196,784	262,945	378,210	237,889	217,766	-8.46
COCOA PRODUCTS	1194	n. a	n. a	2,516	598	543,046	N. A	N. A	860,865	N. A	-
RAW/LINT COTTON	9,035	48,517	918	112	174	2,049	664	N. A	1,535	142	-90.75
COFFEE	3,530	7,077	2,984	509	n. a	1,621	66	N. A	89	N. A	-
COTTON SEED	1,186	1,758	527	135	n. a	N. A	16	7	N. A	24	-
KOLA NUT	111,194	108,976	37,518	59,909	134,651	N. A	1,502	553	607	90	-85.17
SHEA NUTS	45,057	41,212	40,095	33,634	43,461	19,165	4,027	14,103	27,190	13,790	-49.28

SOURCE: GHANA EXPORT PROMOTION COUNCIL (GEPC), ACCRA

TABLE 8.8: CEREAL IMPORTS

	QUANTITY/VALUE	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
WHEAT	METRIC TONNES	325,030	190,711	309,808	422,880	469,263	578,004.00	798,986.00	715,027.00	N/A	71,820.35
	US $ MILLION	150.46	149.55	140.07	155.09	144.24	177.53	227.04	212.58	N/A	17,624.91
RICE	METRIC TONNES	543,465	508,587	644,334	417,395	1,082,224	982,044.00	819,839.00	830,127.00	N/A	708,018.34
	US $ MILLION	391.17	319.8	429.04	709.91	525.47	418.32	400.79	449.01	N/A	200,154.91
MAIZE	METRIC TONNES	4,515	113,343	3,172	6401	113,037	71,741.00	40,661.00	81,708.00	N/A	9,542.72
	US $ MILLION	4.38	6.79	3.22	14.44	26.84	16.13	9.77	22.65	N/A	5,137.99
SORGHUM	METRIC TONNES	31	0.6	-	0.1	-	N /A	501.00	32.00	N/A	2.58
	US $ MILLION	0.01	0.1	-	0.025	-	N / A	0.21	0.06	N/A	2.45

SOURCE: GHANA STATISTICAL SERVICE (GSS)

TABLE 8.9: FERTILIZER IMPORTS

	QUANTITY	2016	2017	2018	2019	2020
NPK	MT	258,290	153,767	224,176	217,024	299,423
NPK (LIQUID)	LT	127,565	14,351	-	99,334	734,325
UREA	MT	16,353	78,591	42,005	77,011	90,025
MURIATE OF POTASH	MT	14,268	26,018	15,993	42,235	55,621
SULPHATE OF AMMONIA	MT	14,417	36,833	10,084	17,326	44,084
PHOSPHATES	MT	109,961	23,280	703	4,189	9,668
NITRATES	MT	3,450	2,203	90,019		80,796
POTASSIUM SULPHATE	MT	3,627	N. A	74	3,831	44,084
COCOA FERTILIZER	MT	N. A	N. A	N. A	-	N.A
*OTHERS: SOLID	(MT)	20,459	178,875	-	63,494	119,326
LIQUID	(LT)	523,646	2,839,351	-	1,570,654	665,431
TOTAL	**SOLID (MT)**	**440,826**	**499,566**	**383,054**	**425,110**	**119,326**
	LIQUID (LT)	**651,211**	**2,853,702**	**-**	**1,669,988**	**1,399,756**

*SOURCE: CROPS SERVICES DIRECTORATE, PLANT PROTECTION AND REGULATORY SERVICES DIRECTORATE (2012 - 2017), (MINISTRY OF FOOD AND AGRICULTURE). NITRATE FERTILIZERS INCLUDE POTASSIUM AND CALCIUM NITRATE. NPK INCLUDES 15-15-15 AND OTHER NPKS. *OTHERS: (ZNSO4, FE3SO4, CA (NO3)2 MGSO4, K2SO4, MG (NO3 NH4NO3)2,5*

TABLE 8.10: PESTICIDE IMPORTS

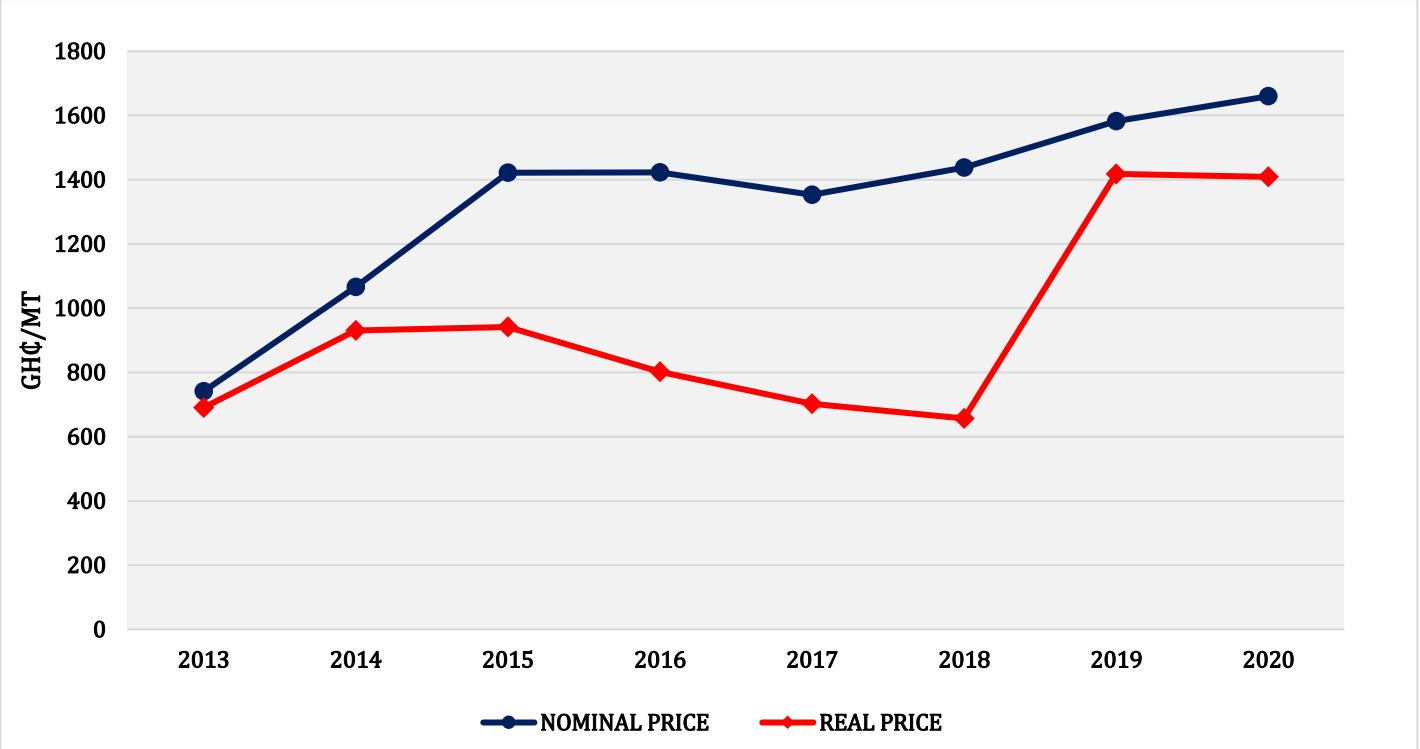
TYPES OF PESTICIDES	QUANTITY	2016	2017	2018	2019	2020
INSECTICIDE	METRIC TONNES	5,742	1,620	1,295	1,247	6,351
	LITRES	9,790,479	10,161,318	6,959,924	7,118,201	N/A
FUNGICIDE	METRIC TONNES	4,707	4,482	1,770	4,069	1,105
	LITRES	178,278	682,476	336,332	348,176	N/A
HERBICIDE	METRIC TONNES	32,947	19,113	6,975	8,063	30,154
	LITRES	53,531,813	37,643,385	33,242,052	35,142,725	N/A
TOTAL	**METRIC TONNES**	**43,396**	**25,215**	**10,040**	**13,379**	**37,611**
	LITRES	**63,500,570**	**48,487,179**	**40,538,308**	**42,609,102**	N/A

SOURCE: PLANT PROTECTION AND REGULATORY SERVICES DIRECTORATE (PPRSD), MOFA

**** VALUE ALSO INCLUDES THAT FOR RODENTICIDES.***

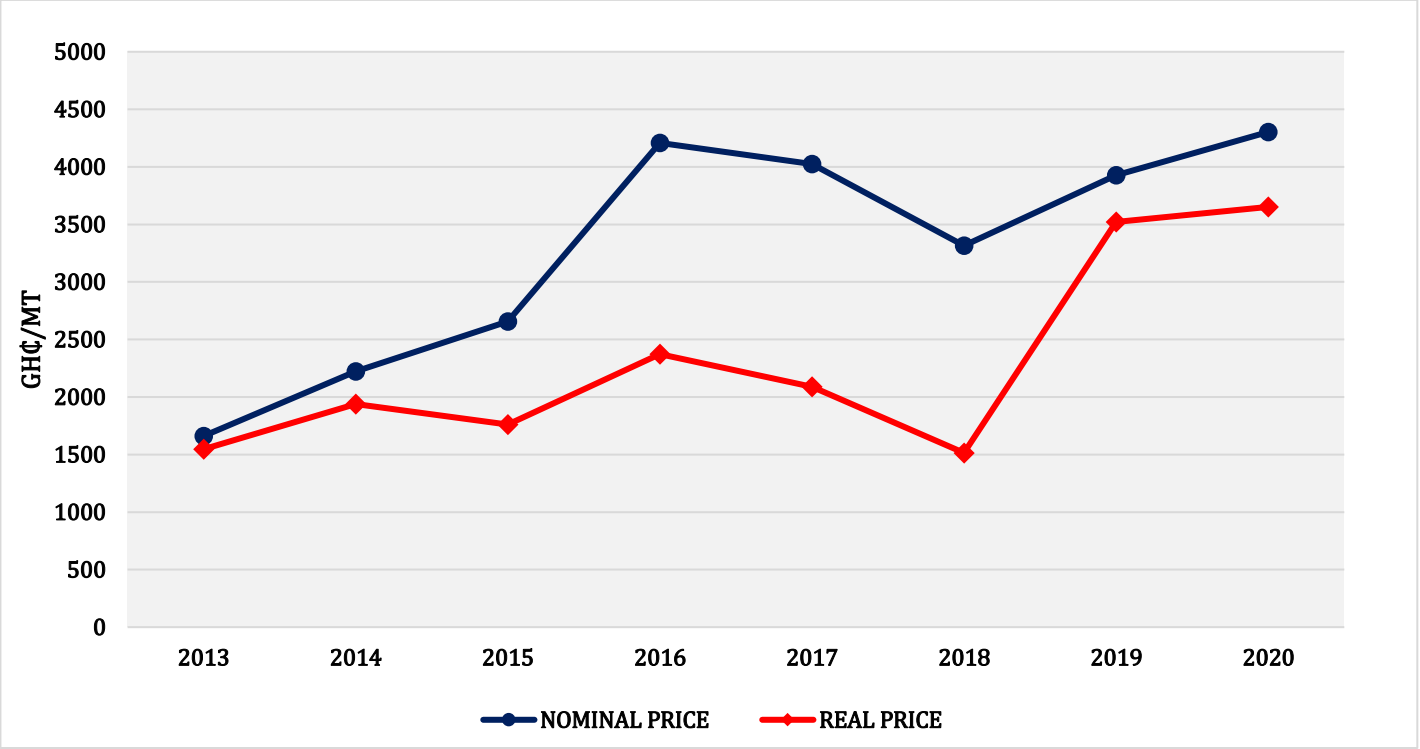
APPENDICES

APPENDIX 1: AVERAGE RURAL WHOLESALE PRICE FOR MAIZE



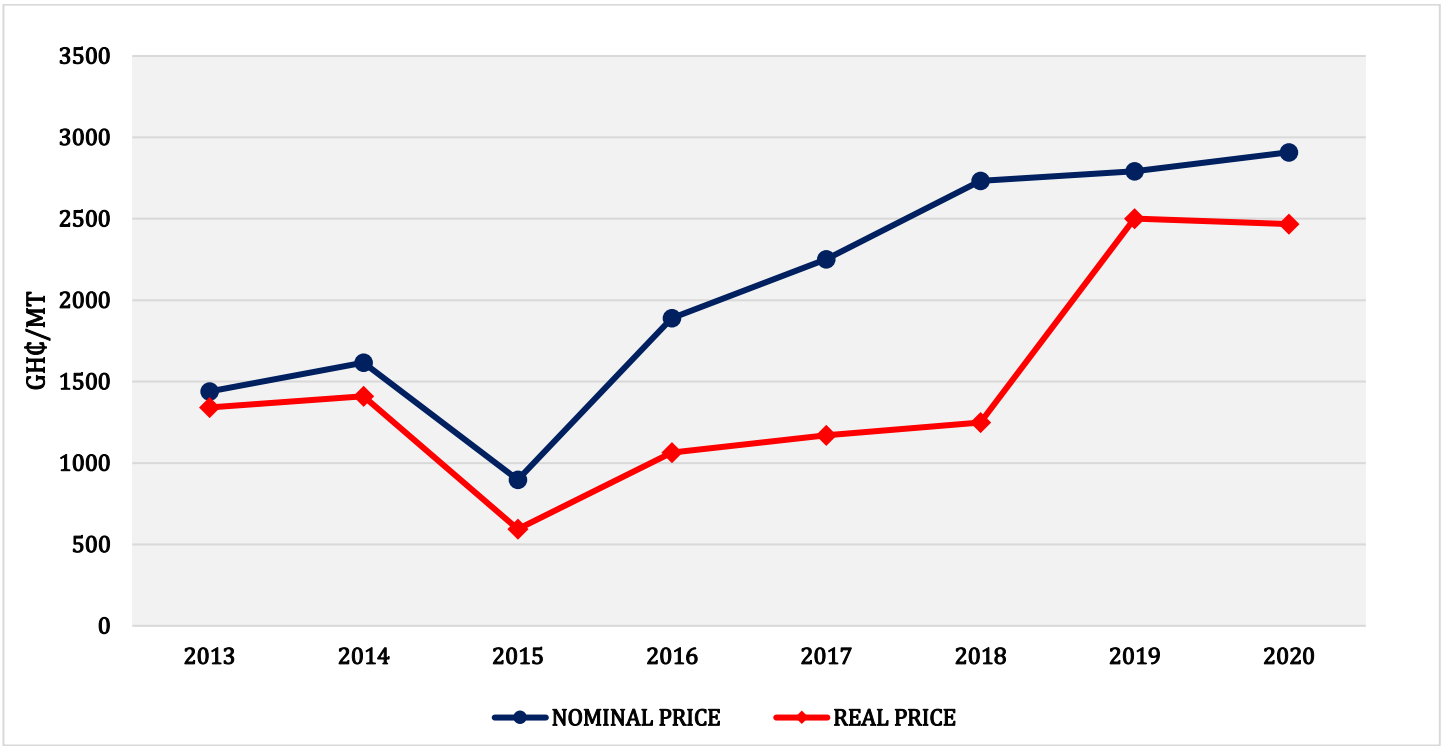
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 2: AVERAGE RURAL WHOLESALE PRICE FOR RICE (LOCAL)



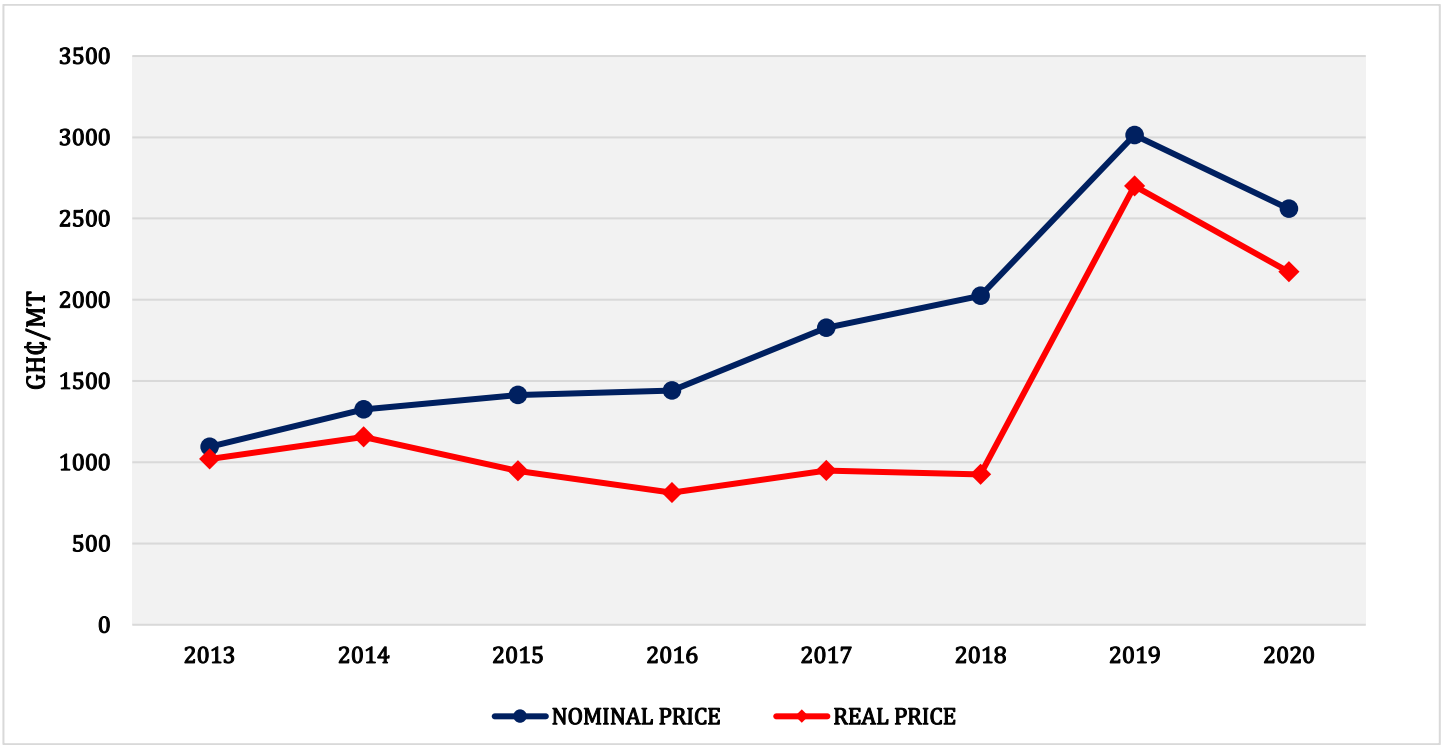
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 3: AVERAGE RURAL WHOLESALE PRICE FOR MILLET



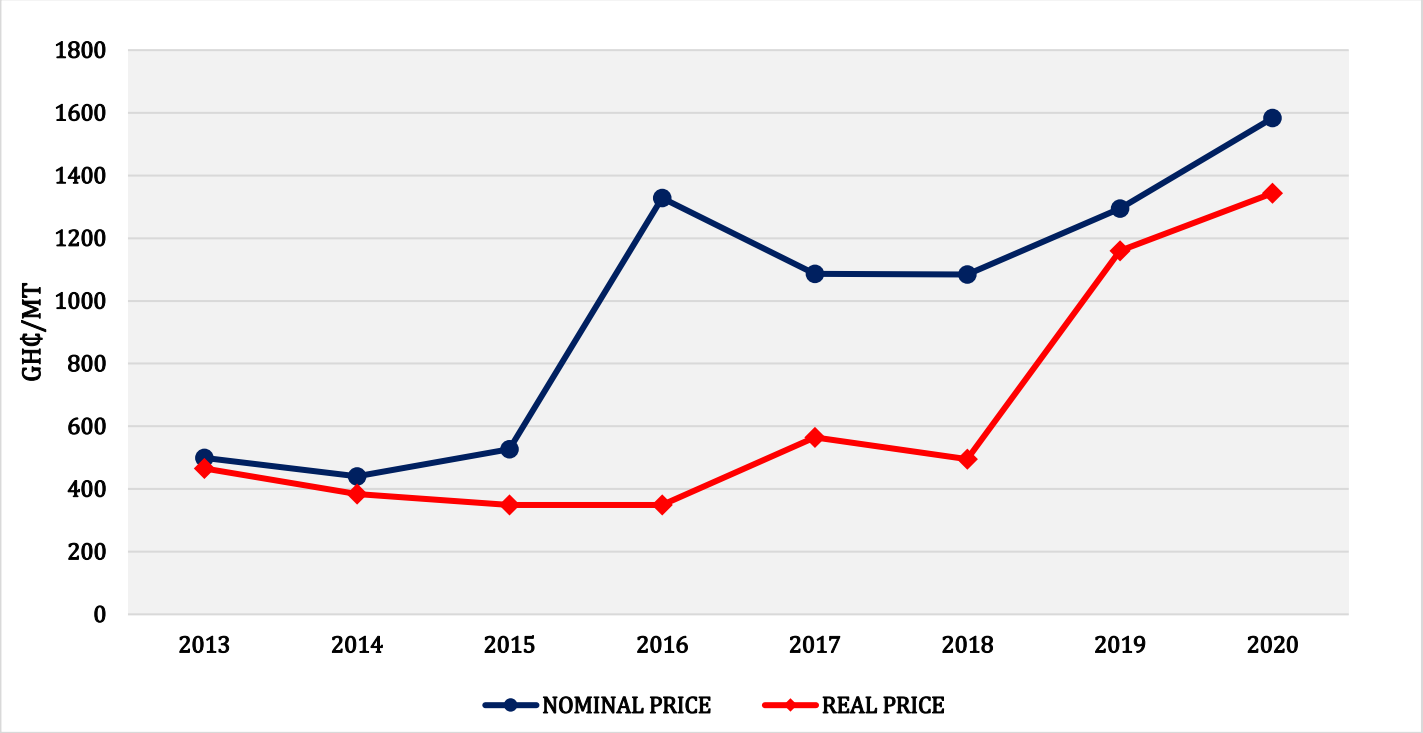
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 4: AVERAGE RURAL WHOLESALE PRICE FOR SORGHUM



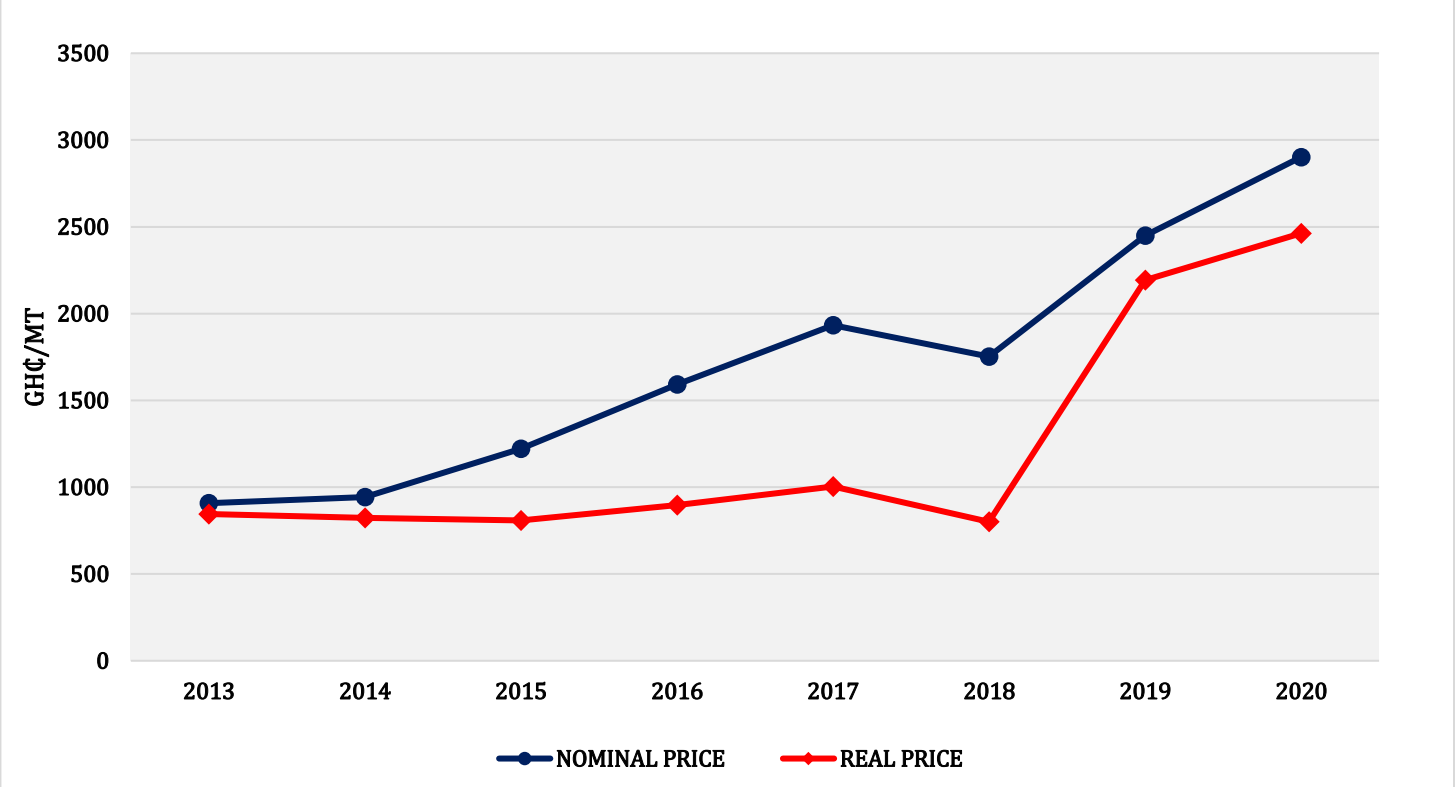
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 5: AVERAGE RURAL WHOLESALE PRICE FOR CASSAVA



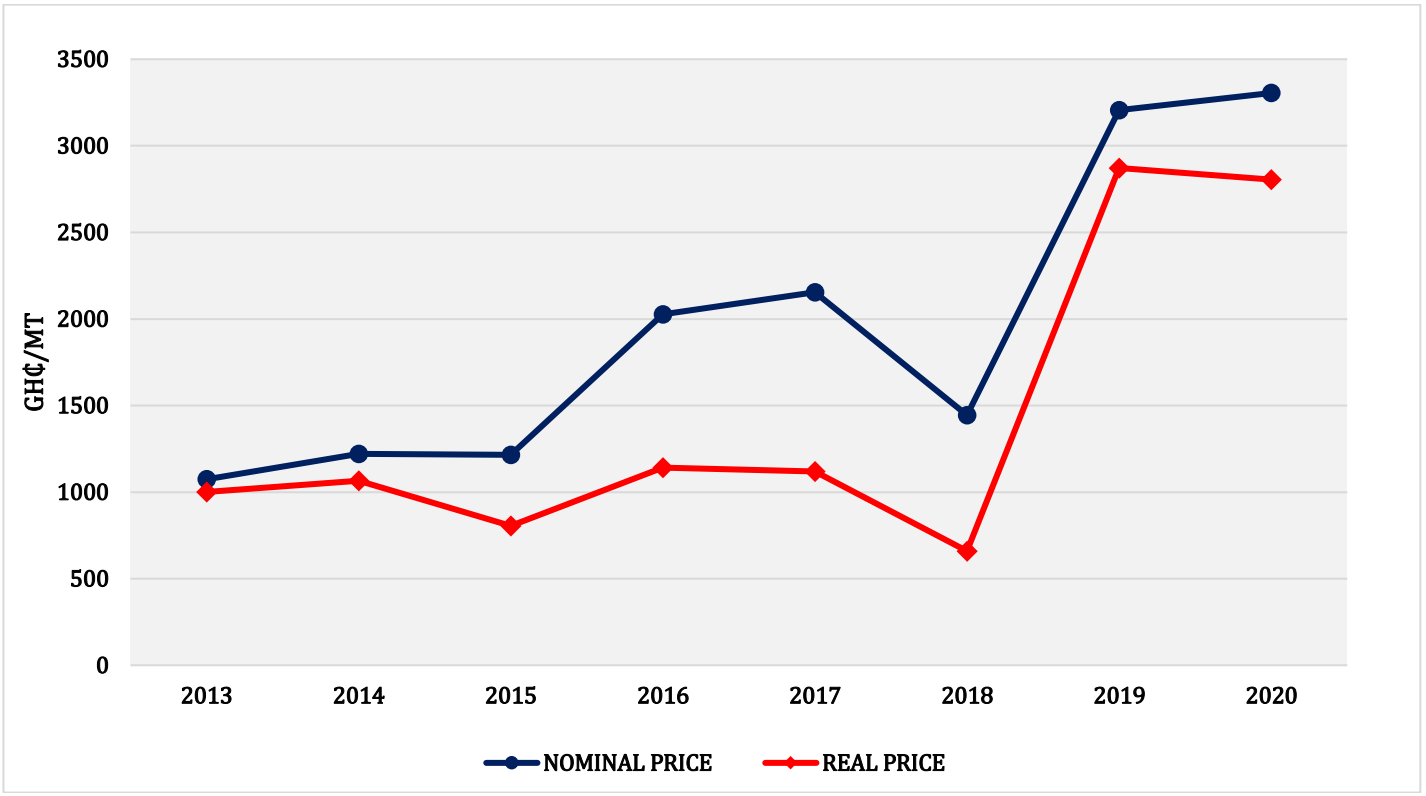
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 6: AVERAGE RURAL WHOLESALE PRICE FOR YAM



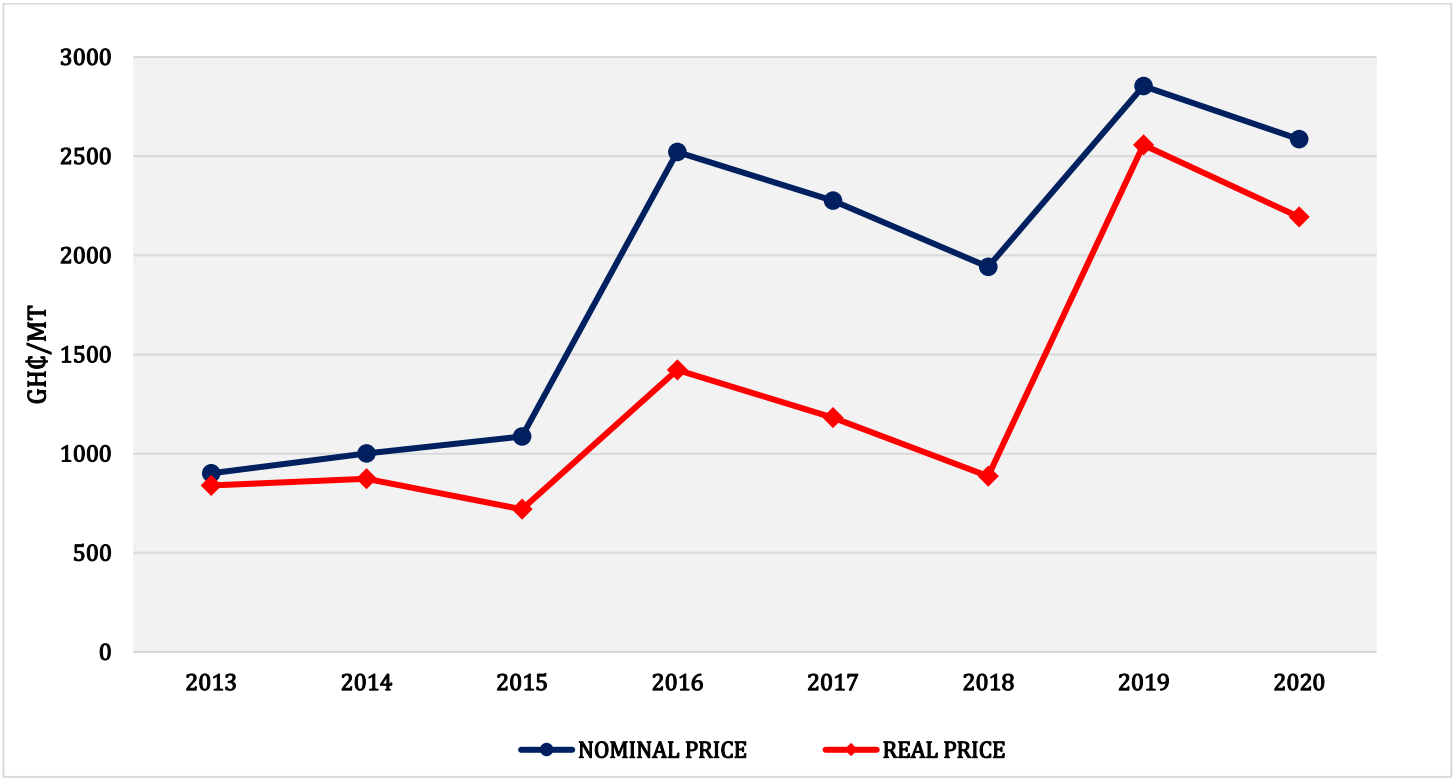
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 7: AVERAGE RURAL WHOLESALE PRICE FOR COCOYAM



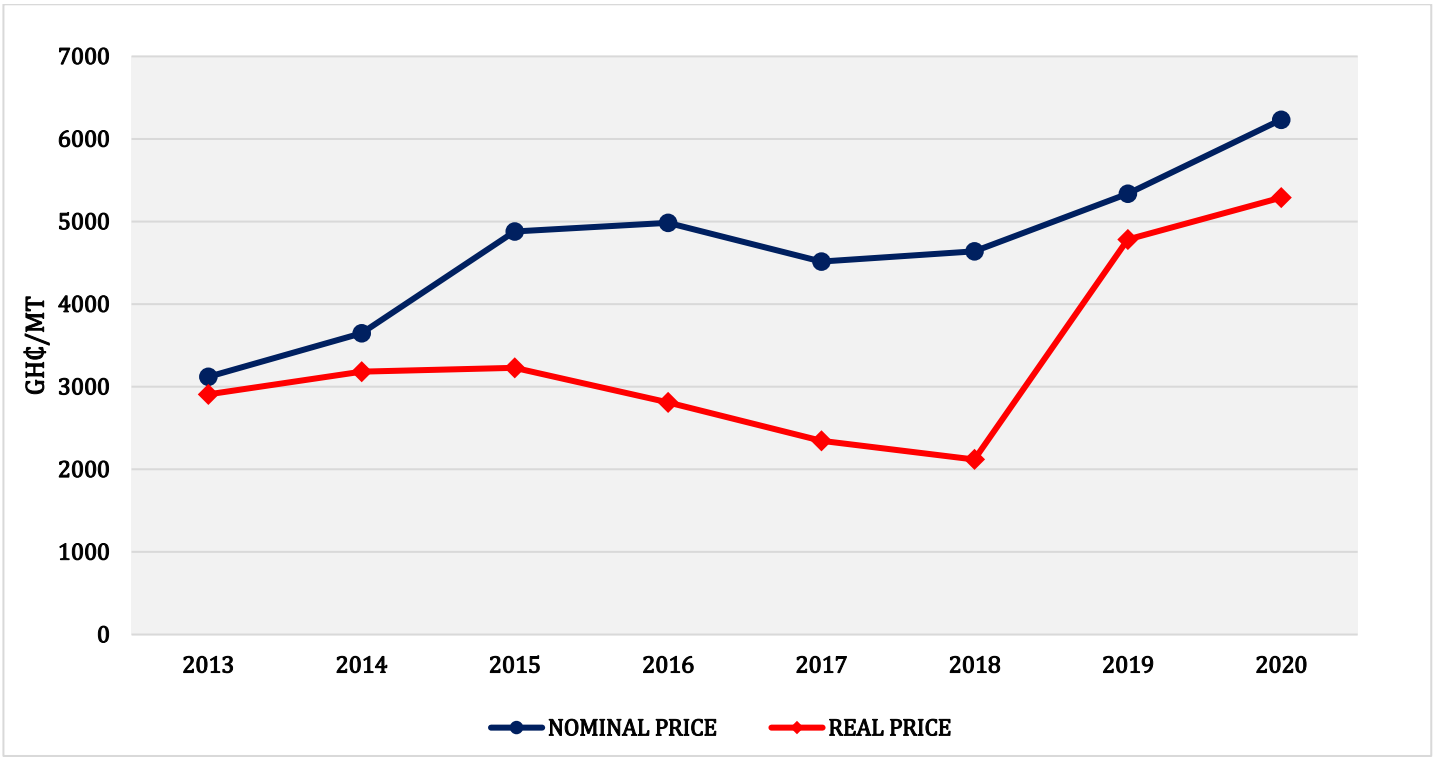
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 8: AVERAGE RURAL WHOLESALE PRICE FOR PLANTAIN



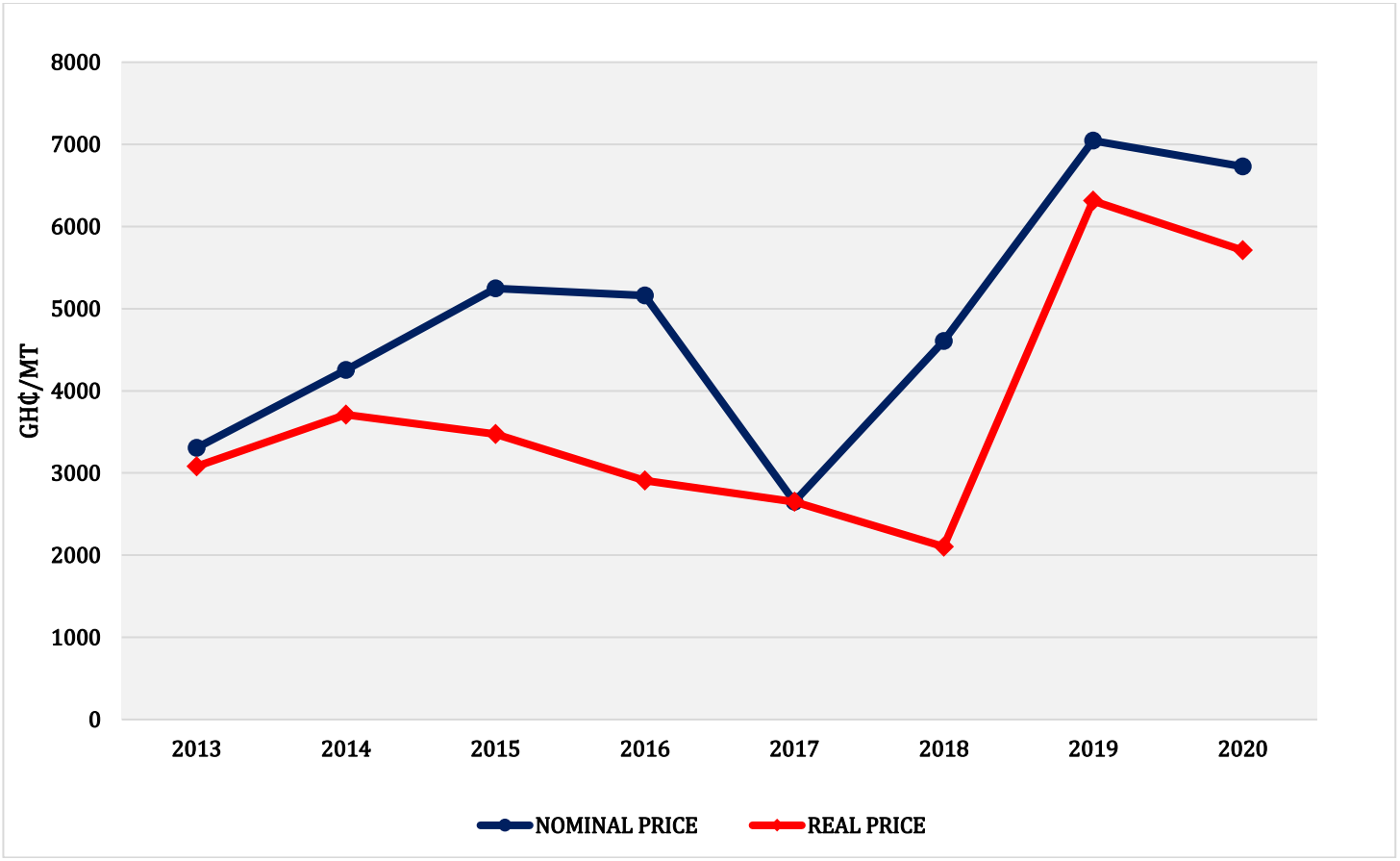
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 9: AVERAGE RURAL WHOLESALE PRICE FOR GROUNDNUT



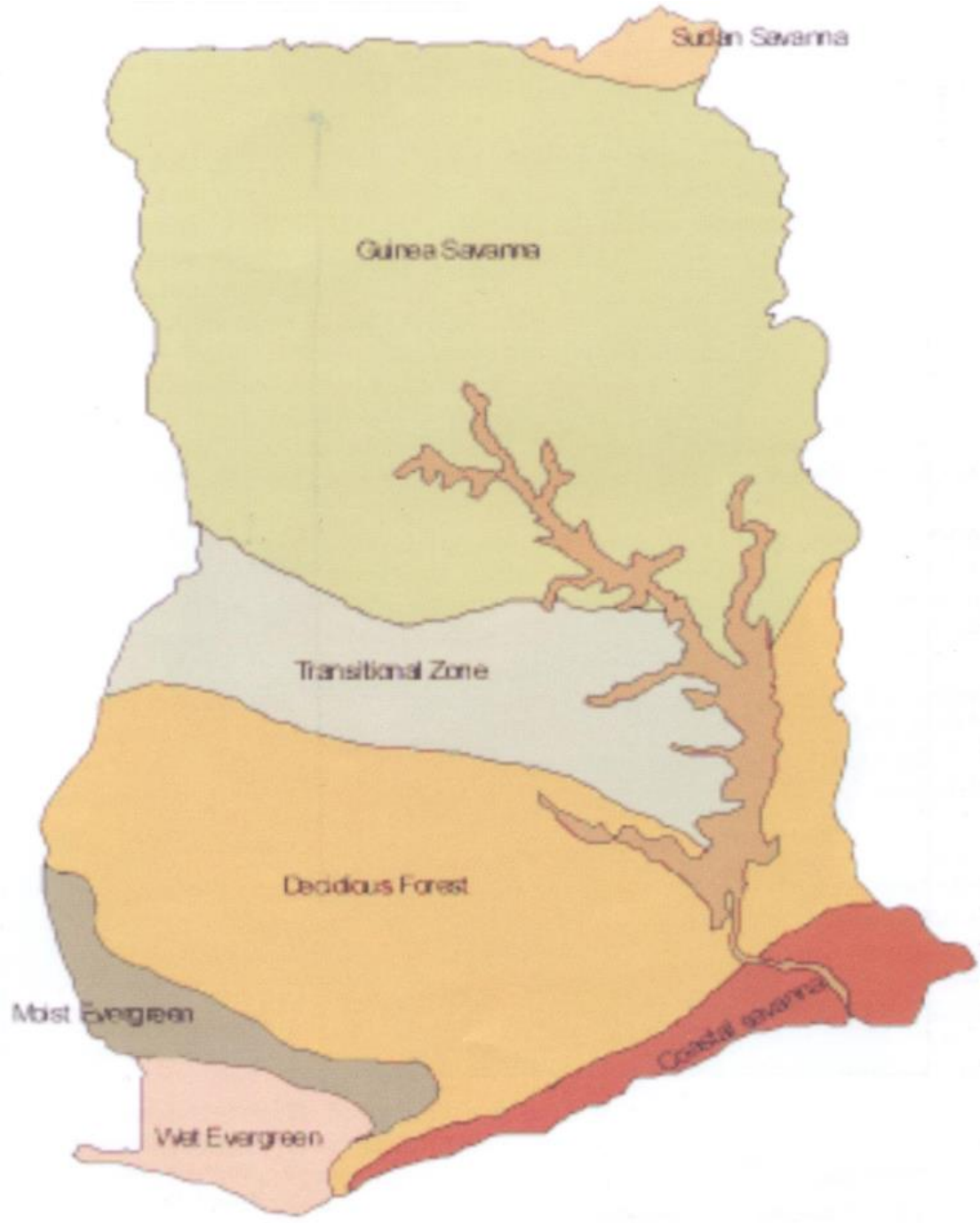
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

APPENDIX 10: AVERAGE RURAL WHOLESALE PRICE FOR TOMATO



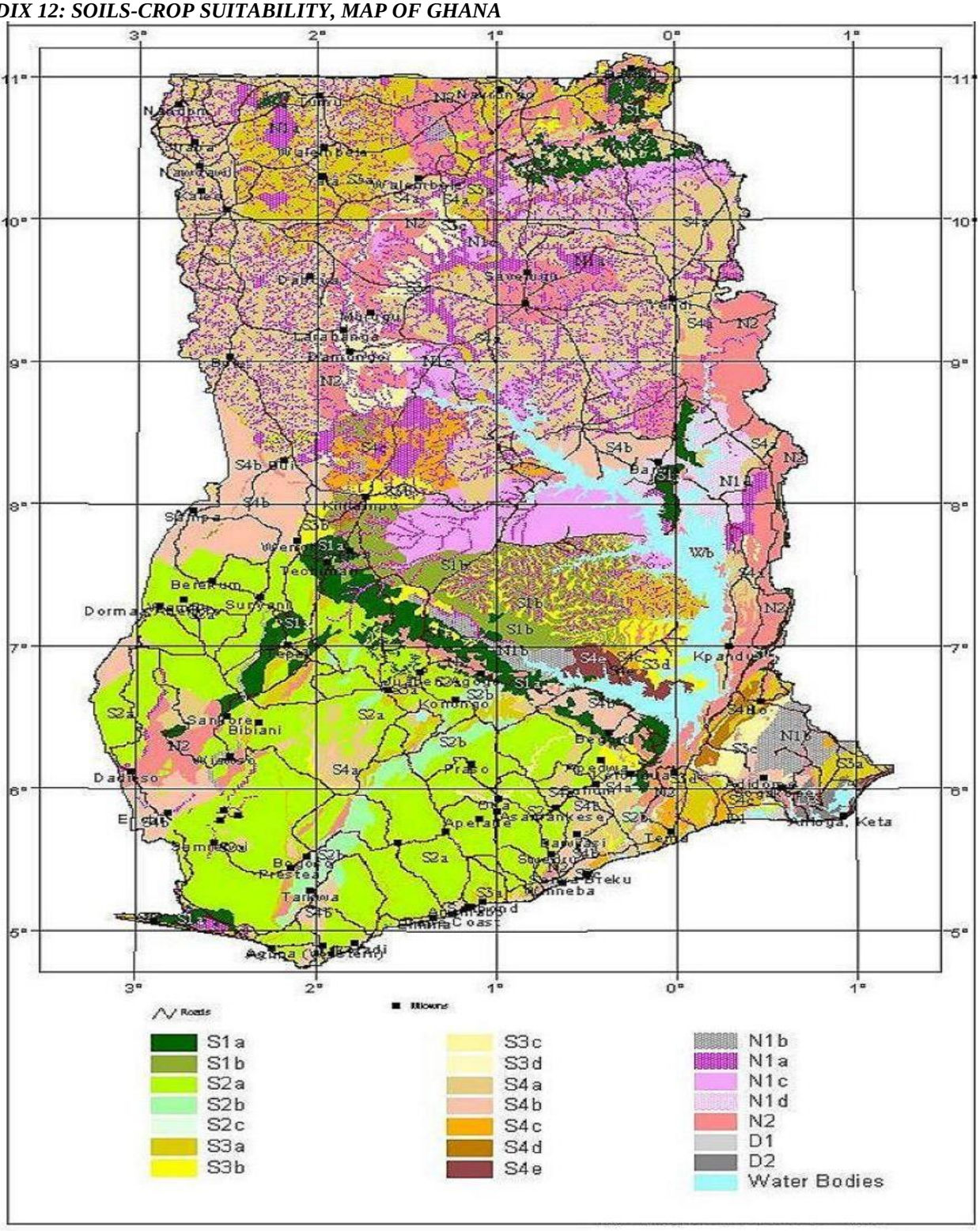
SOURCE: A REBASED CPI WITH 2012 CONSTANT PRICES

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 (MT)

ANIMAL FEED	2016	2017	2018	2019	2020
FISHMEAL	228.67	848.24	N/A	2,754.00	54,629.72
PREMIX	1,571.64	2,017.82	15,669.71	8,701.00	N/A
CONCENTRATE	9,482.75	13,275.26	100,410.20	111,325.70	32,910.29
SOYA BEAN	38,374.75	45,329.11	292,482.20	43,498.10	64,652.40
BREAD FLOUR	N/A	N/A	N/A	N/A	N/A
GROUNDNUT CAKE	N/A	N/A	N/A	132	N/A
COPRA CAKE	33,472.82	N/A	N/A	N/A	N/A
MAIZE (YELLOW)	N/A	8,496.44	150,196.00	N/A	N/A
DRIED DISTILLERS GRAIN	N/A	N/A	N/A	N/A	N/A
TOTAL	**83,130.63**	**69,966.87**	**558,758.23**	**166,411.00**	**152,192.41**

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 (MT)

CROP	2016	2017	2018	2019	2020
MAIZE	1,721,911	2,011,179	2,306,384	2,911,884	3,031,691
RICE (PADDY)	687,679	722,080	769,401	925,265	986,905
MILLET	159,017	163,484	181,564	230,416	223,223
SORGHUM	229,605	277,540	316,236	347,228	345,421
CASSAVA	17,798,218	19,008,725	20,845,960	22,750,385	22,964,205
YAM	7,440,354	7,856,899	7,788,866	8,754,354	8,800,822

CROP	2016	2017	2018	2019	2020
COCOYAM	1,343,727	1,387,291	1,460,938	1,550,720	2,163,724
PLANTAIN	4,000,424	4,278,834	4,688,279	5,478,751	5,413,987
GROUNDNUT	425,825	433,772	521,032	563,291	422,262
COWPEA	206,377	211,470	237,037	253,696	263,269
SOYABEAN	143,217	170,490	176,672	193,036	202,243
TOTAL	34,156,354	36,521,764	39,292,370	43,959,025	44,817,751

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 (HA)

CROP	2016	2017	2018	2019	2020
MAIZE	865,282	984,514	1,020,523	1,150,280	1,182,710
RICE (PADDY)	235,847	240,700	259,709	282,074	310,903
MILLET	136,923	155,662	141,645	147,919	124,055
SORGHUM	201,162	223,513	228,141	226,448	184,450
CASSAVA	879,099	916,842	977,342	1,021,251	1,013,284
YAM	427,216	470,331	469,691	499,620	530,332
COCOYAM	205,862	204,240	203,235	214,088	216,444
PLANTAIN	358,204	363,395	387,233	409,148	425,390
GROUNDNUT	327,380	316,313	319,682	336,851	262,287
COWPEA	146,656	153,912	156,788	169,480	172,506
SOYABEAN	86,881	102,595	102,978	112,472	121,566
TOTAL	3,870,512	4,132,017	4,266,966	4,569,631	4,543,928

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA. MRACLS/GAP

APPENDIX 17: TOP FIVE MAIZE PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)

MAIZE					
REGION	2018	2019	2020	AVERAGE	RANK
ASHANTI	351,626	500,536	577,872	476,678	1
EASTERN	475,236	529,666	370,332	458,411	2
BONO	194,641	326,622	352,616	291,293	3
CENTRAL	244,652	291,663	314,224	283,513	4
BONO EAST	183,939	234,509	248,375	222,274	5

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA.

APPENDIX 18: TOP FIVE RICE PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)

RICE					
REGION	2018	2019	2020	AVERAGE	RANK
VOLTA	179,844	206,977	181,308	189,376	1
NORTHERN	116,165	126,934	153,425	132,175	2
OTI	120,050	139,014	136,992	132,019	3
UPPER EAST	104,255	127,142	129,782	120,393	4
ASHANTI	55,056	67,152	73,442	65,217	5

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA.

APPENDIX 19: TOP FIVE SORGHUM PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)

SORGHUM					
REGION	2018	2019	2020	AVERAGE	RANK
UPPER WEST	106,646	121,997	91,740	106,794	1
UPPER EAST	75,441	78,365	101,970	85,259	2
NORTHERN	82,354	84,662	80,534	82,516	3
SAVANNA	19,233	20,794	31,549	23,859	4
NORTH EAST	21,976	26,184	22,650	23,603	5

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA.

APPENDIX 20: TOP FIVE CASSAVA PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)

CASSAVA					
REGION	2018	2019	2020	AVERAGE	RANK
EASTERN	5,448,642	5,824,174	5,927,793	5,733,536	1
ASHANTI	3,176,440	3,795,311	3,975,888	3,649,213	2
CENTRAL	2,715,253	3,058,853	3,338,905	3,037,670	3
BONO	2,141,195	1,785,982	1,731,383	1,886,187	4
BONO EAST	1,599,114	1,795,691	1,956,766	1,783,857	5

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA.

APPENDIX 21: TOP FIVE YAM PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)

YAM					
REGION	2018	2019	2020	AVERAGE	RANK
BONO EAST	1,909,322	2,439,579	2,471,206	2,273,369	1
NORTHERN	1,731,760	1,790,083	1,512,606	1,678,149	2
UPPER WEST	734,951	783,698	1,197,504	905,384	3
EASTERN	897,376	903,744	852,817	884,645	4
ASHANTI	575,718	703,740	760,597	680,018	5

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA.

APPENDIX 22: TOP FIVE PLANTAIN PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)

PLANTAIN					
REGION	2018	2019	2020	AVERAGE	RANK
ASHANTI	1,463,290	1,668,302	1,820,840	1,650,810	1
AHAFO	923,920	1,015,624	923,920	954,488	2
EASTERN	862,871	882,408	899,568	881,616	3
WESTERN NORTH	616,377	809,342	936,951	787,557	4
BONO	240,866	444,553	140,428	275,282	5

APPENDIX 23: TOP FIVE COWPEA PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)

COWPEA					
REGION	2018	2019	2020	AVERAGE	RANK
UPPER WEST	93,780	83,505	99,501	92,262	1
NORTHERN	52,457	57,021	45,362	51,613	2
UPPER EAST	27,430	31,158	35,792	31,460	3
NORTH EAST	23,596	30,031	26,942	26,856	4
SAVANNA	14,883	16,412	17,197	16,164	5

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA.

APPENDIX 24: TOP FIVE SOYABEAN PRODUCING REGIONS IN GHANA (THREE YEAR AVERAGE)

SOYABEAN					
REGION	2018	2019	2020	AVERAGE	RANK
NORTHERN	88,032	94,188	97,424	93,215	1
NORTH EAST	25,333	31,962	24,501	27,265	2
UPPER WEST	27,233	24,180	30,148	27,187	3
UPPER EAST	18,933	22,783	28,568	23,428	4
SAVANNA	13,394	14,912	15,922	14,743	5

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA.

APPENDIX 25: DOMESTIC MEAT PRODUCTION VRS IMPORTED MEAT (MT)

	2016	2017	2018	2019	2020
DOMESTIC MEAT PRODUCTION (DMP)	157,810.00	164,124.00	168,291.00	175,769.00	183,050
IMPORTS *	132,059.20	189,708.20	241,872.00	177,334.00	192,546
TOTAL MEAT AVAILABLE (IMPORTS+DOMESTIC PRODUCTION) **	289,869.20	353,832.20	410,163.00	353,103.04	377,616.00
SHARE DMP (%)	54.4	46.4	41	49.78	48.48
SHARE IMPORTS (%)	45.6	53.6	59	50.22	50.99

SOURCE: STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE (SRID), MOFA

**IMPORTS HERE EXCLUDE MILK AND OTHER DAIRY PRODUCTS, WHICH ON AVERAGE ACCOUNT FOR ABOUT 21% OF TOTAL MEAT AND ANIMAL PRODUCT IMPORTS*

***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 POULTR*

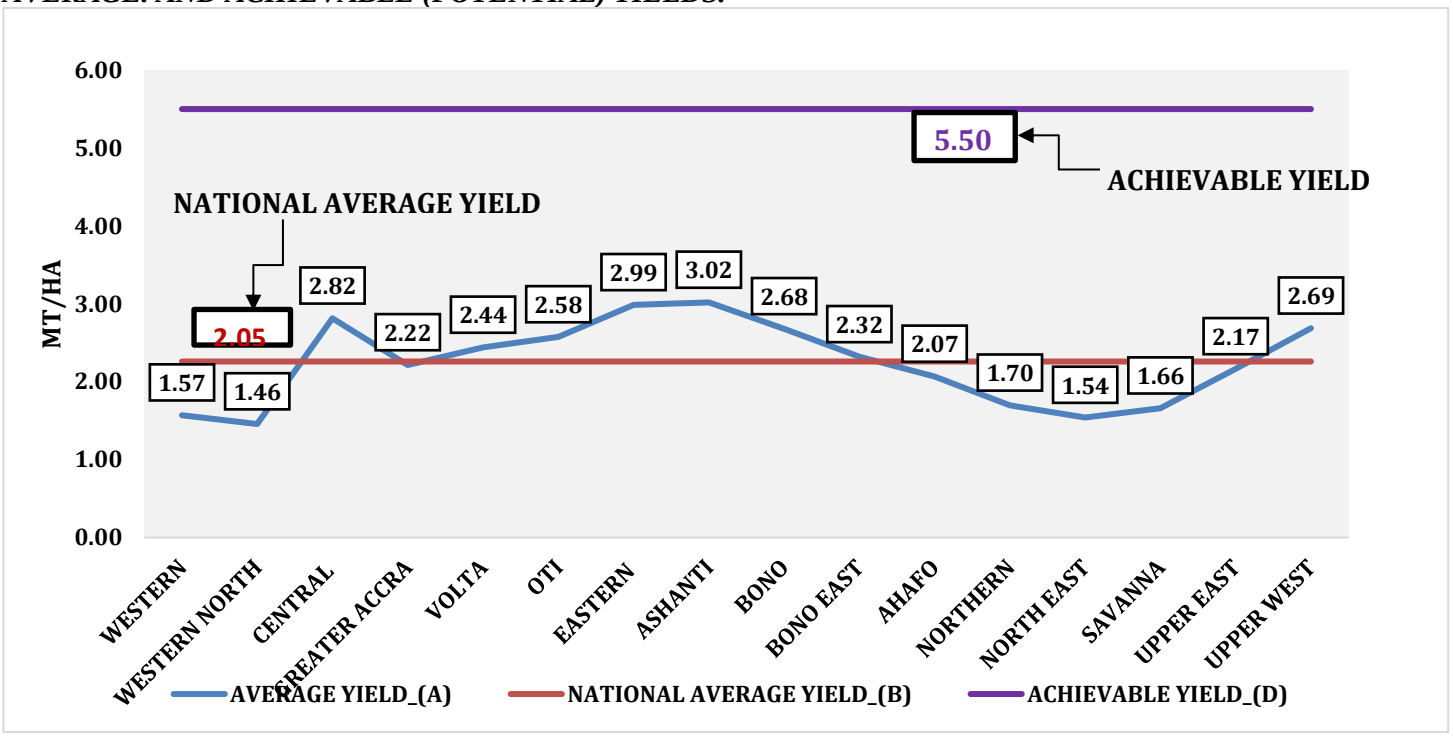
APPENDIX 26: INDUSTRY OF CURRENTLY EMPLOYED PERSONS AGED 15 AND OLDER BY LOCALITY AND SEX (%)

INDUSTRY	GHANA			URBAN			RURAL		
	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES
ALL	100.00	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	65.20
MINING AND QUARRYING	2.60	0.50	1.50	2.40	0.10	1.20	2.90	1.00	1.90
MANUFACTURING	7.40	16.10	11.90	10.50	20.70	15.80	4.40	11.30	7.90
ELECTRICITY, GAS, STREAM AND AIR CONDITIONING SUPPLY	0.30	0.10	0.20	0.40	0.10	0.20	0.20	0.10	0.10
WATER SUPPLY, SEWERAGE, WASTE MANAGEMENT	0.20	0.20	0.20	0.40	0.20	0.30	0.10	0.10	0.10
CONSTRUCTION	8.90	0.20	4.40	12.50	0.10	6.00	5.30	0.30	2.70
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	2.40
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	0.40
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	0.20
ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	0.80	0.30	0.60	1.30	0.50	0.90	0.40	0.10	0.30
PUBLIC ADMINISTRATION AND DEFENCE	2.50	1.10	1.80	4.10	2.00	3.00	0.80	0.20	0.50
EDUCATION	5.80	4.40	5.10	7.00	6.70	6.80	4.60	2.10	3.30
HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	1.20	1.70	1.50	1.80	2.30	2.10	0.60	1.10	0.80
ARTS, ENTERTAINMENT AND RECREATION	1.30	0.20	0.70	2.10	0.30	1.10	0.50	0.00	0.30
OTHER SERVICE ACTIVITIES	3.20	3.20	3.20	5.10	4.80	4.90	1.50	1.60	1.50
ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS	0.20	0.60	0.40	0.40	1.00	0.70	0.10	0.30	0.20
ACTIVITIES OF EXTRATERRITORIAL ORGANIZATIONS AND BODIES	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00

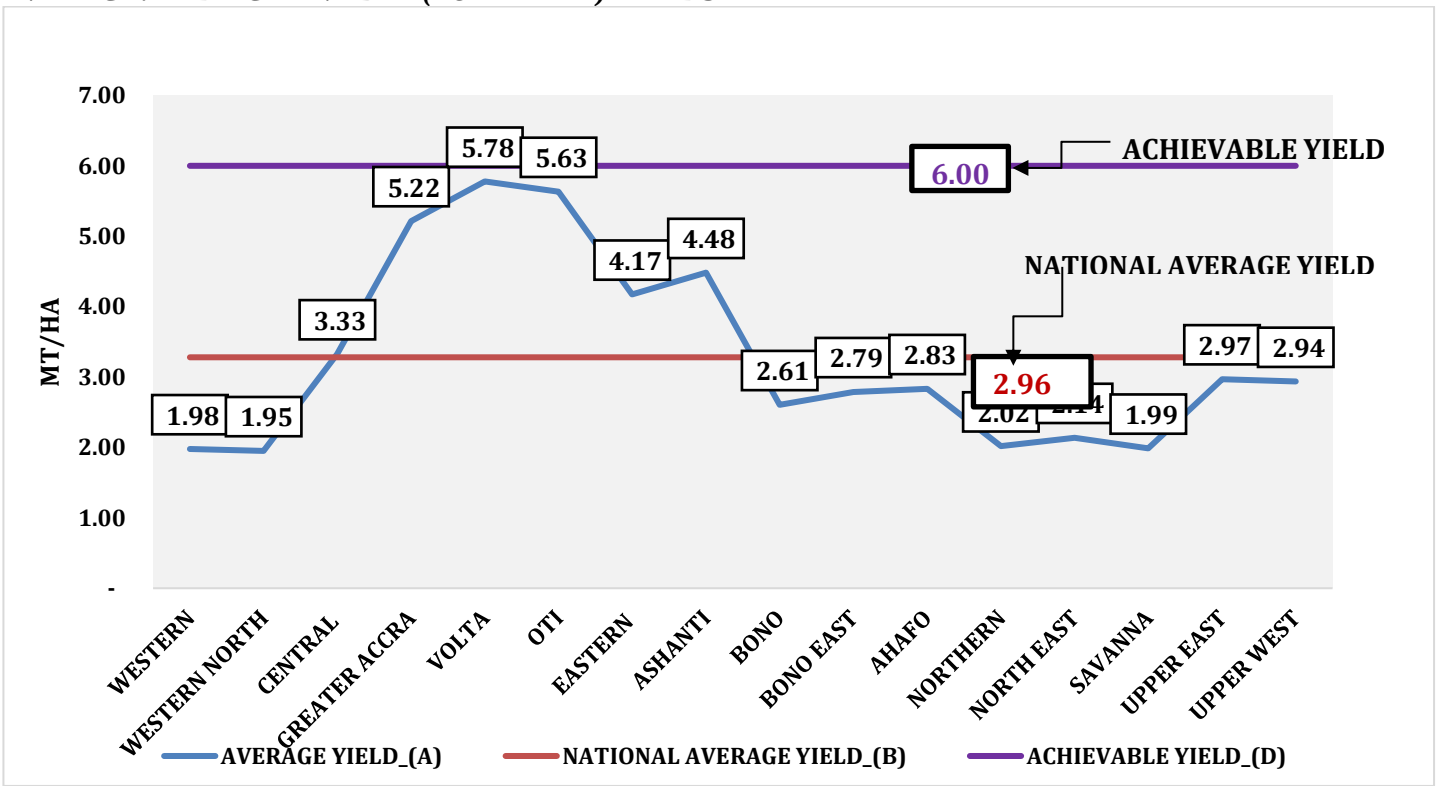
SOURCE: GSS, GLSS 7, MAIN REPORT, JUNE 2019.

****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 27: COMPARISON OF AVERAGE. YIELD PERFORMANCE OF MAIZE BY REGION WITH NATIONAL AVERAGE. AND ACHIEVABLE (POTENTIAL) YIELDS.



APPENDIX 28: COMPARISON OF AVERAGE. YIELD PERFORMANCE OF RICE BY REGION WITH NATIONAL AVERAGE. AND ACHIEVABLE (POTENTIAL) YIELDS



APPENDIX 29: ADMINISTRATIVE MAP OF GHANA

