



INTEGRATED BUSINESS ESTABLISHMENT SURVEY



SUMMARY REPORT



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Netherlands

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PREFACE AND ACKNOWLEDGEMENT

The Integrated Business Establishment Survey (IBES) is an economic census that cuts across all the three major sectors of the Ghanaian economy. The 2014 IBES is the first non-household economic census covering all sectors, compared to the previous establishment censuses conducted in 1962, 1978, 1987 and 2003 which focused only on the industrial sector. It is structured in two Phases, I and II. Phase I is the listing of all non-household establishments in Ghana with the primary aim of producing a business register and developing a sampling frame from which establishments will be sampled for the second Phase. In addition to providing information for the publication of the business register, Phase I collected relevant data that enabled the production of the Employment Report, Job Creation Report, and the Summary Report.

The Summary Report is one of four national publications to be released from the IBES. This report gives a comprehensive analysis of sector of establishment, location of establishment, formal and informal economy of Ghana, size classification of establishment, year of commencement of establishment, ownership of establishment and employment related issues in non-household establishments in Ghana. Besides the public and private policy makers who will need this report for their policy decisions, researchers, students, and the international community alike may resort to the use of this employment report to inform them on the nature and distribution of persons engaged in non-household establishments in Ghana.

The Ghana Statistical Service (GSS) expresses great appreciation to the Government of Ghana, the Dutch Government, UK-DFID and the World Bank for providing the financial assistance for this economic census. We also wish to thank the Ministry of Trade and Industry who also assisted in their capacity as a major stakeholder and provided both technical and financial support. We appreciate the technical assistance of the following organizations during the execution of the project: they are the National Board for Small Scale Industries; United Nations Development Programme (UNDP); United Nations Industrial Development Organization (UNIDO); Ministry of Roads and Transport; Ghana Employers Association (GEA); Association of Ghana Industries (AGI); Ghana National Chamber of Commerce and Industry; National Insurance Commission (NIC); Private Enterprise Federation (PEF); Minerals Commission; Ghana Tourist Board (GTB); National Communications Authority (NCA); Ministry of Employment and Labour Relations (MELR); and Institute of Statistical, Social and Economic Research (ISSER).

We would also like to express our sincere gratitude to all the establishments which provided the required data and made it possible to complete the first phase of the 2014 economic census. Finally, the GSS acknowledges the efforts of the office and field staff who worked tirelessly to ensure that the Phase I of IBES was successful.



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LIST OF ABBREVIATIONS

DFID	Department for International Development, UK
GSDP	Ghana Statistical Development Programme
IBES	Integrated Business Establishment Survey
LMSM	Large, Medium, Small and Micro
MDAs	Ministries, Departments and Agencies
MMDAs	Metropolitan, Municipal and District Assemblies
MDG	Millennium Development Goal
MSMEs	Medium, Small and Micro Enterprises
NGO	Non-Governmental Organization
PEF	Private Enterprise Federation
PPP	Public-Private Partnership
RS	Regional Statisticians
RGD	Registrar General's Department
SSNIT	Social Security and National Insurance Trust
SoE	State Owned Enterprises

CHAPTER ONE

BACKGROUND

1.1 Introduction

Emerging issues across all spheres of development have, in recent years, highlighted the need for an up-to-date report on all businesses spanning all sectors of the Ghanaian economy. A National Industrial Census was conducted in Ghana in 2003, but a decade later it became necessary to execute another industrial census, the Integrated Business Establishment Survey (IBES).

The conduct of economic censuses is one of the important activities that the Ghana Statistical Service is statutorily mandated to undertake. The IBES is structured in two phases. Phase I involves the listing of all non-household establishments/businesses in Ghana while Phase II focuses on in-depth analysis of data gathered on the operations of a nationally representative sample of establishments.

This report summarises the findings from Phase I of the IBES which was conducted in Ghana in 2014. In addition to the general overview of the distribution and the thematic discussions of non-household establishments in Ghana, the report presents an analysis of the persons engaged by those establishments.. The report further presents detailed tables on all relevant subject matter areas. Other reports, such as those on Job Creation and Employment, focus on the specific topics in more detail.

The analysis of thematic areas in this report is the result of a growing demand for a comprehensive outline of the structure of the economy from stakeholders, particularly public sector policy makers, researchers, academics and local foreign investors in the private sector.

1.2 Economic censuses in Ghana

The Central Bureau of Statistics (CBS), now the Ghana Statistical Service (GSS), conducted the first industrial census (a sub-component of an economic census – focusing solely on the industrial sector) in Ghana in 1962. Specifically, the 1962 industrial census was an enumeration of all mining quarrying, manufacturing, construction, electricity and distributive trade establishments. After the 1962 industrial census, annual and quarterly surveys of establishments engaging thirty or more persons were introduced in 1964. The GSS intended to conduct decennial industrial censuses, but due to a number of reasons, including lack of funds, industrial censuses could not be conducted decennially as envisaged.

The second industrial census conducted in 1987 was in two phases: the first phase took place in November-December 1987 and the second in October-December 1988, with 1987 as the reference year. The first phase of the 1987 census aimed at obtaining basic data on the establishments engaged in mining, quarrying and manufacturing production and the distribution of electricity and water. The second phase of the census covered all in-scope establishments engaging ten or more persons.

The third industrial census, which was conducted in 2003, was also in two phases: the first phase took place in October–November 2003 and the second in November 2004–March 2005, with 2003 as the reference year. The current IBES is the first time Ghana has conducted an economic census on the full set of economic units across all sectors of the country's economy.

1.3 Objectives of the 2014 economic census

The overall objective of the IBES is to provide reliable, timely and relevant economic statistics to support the formulation and implementation of policies and strategies that can stimulate the growth of all sectors of the economy. The project also aims to improve the production and dissemination of statistics on production and employment for all sectors of the economy to meet the data requirements for monitoring the National Development Plan and the Sustainable Development Goals (SDGs).

Phase I objectives

- Provide background information to validate and update the records of the compiled list of establishments/businesses.
- Cover businesses that can be considered establishments across all sectors of the economy.
- Ensure that basic details of all businesses within the borders of Ghana are included in the register.
- Ensure that businesses engaged in the informal sector, which hitherto were not covered in most databases of institutions, are covered so that businesses that are mostly informal are well covered.
- Provide a sampling frame necessary for the conduct of frequent economic surveys and for the conduct of the second phase of the IBES.
- Provide a register of businesses in Ghana that will meet the needs of policy makers, private sector users and researchers.
- Provide a business register for Ghana that is comparable to any business register worldwide.
- Obtain benchmark data on the structure of businesses in Ghana.

1.4 Scope coverage

1.4.1 Scope

The first phase of the IBES, which covered all non-household establishments, was a census. These establishments are either engaged in economic activities or are non-profit institutions and; they cut across all sectors of the economy. Each unit of production was captured as a distinct entity, given that it is a legal unit.

A legal unit is a unit that has legal personality, i.e. the law attributes rights and obligations to it, in the sense that it has:

- right of ownership, permitting it to hold assets in its own name;
- right to engage in activities in its own name on its own behalf;
- right to conclude contracts with third parties;
- right to institute legal proceedings, i.e. to defend its interests;
- right to dispose of its assets and resources.

The non-household IBES establishments include:

- All units of production whose physical locations are fixed and can be described and traced;
- All stores/containers not used primarily as residences for households;
- All fitting shops, fabrication shops, carpentry shops, block making factories, etc., whether housed in a complete structure or not;
- All churches/temples/mosques located in a permanent structure;

- All public sector institutions;
- All institutions (housed in a structure) engaged in agriculture related activities, usually called institutional agriculture;
- All shops/stores/units of production which are visible outside the residential premise/attached to the residential premise, but that have access for entry or exit by customers/public;
- All businesses with signposts/boards/indications of business activities;
- All shops in a complete structure (popularly called a store) in the market place;
- All stalls in the market place with occupants operating permanently (i.e. 5 to 6 days a week) in these stalls. These stalls could either be hired/rented or purchased (those usually owned by the Metropolitan, Municipal and District Assemblies (MMDAs) are rented);
- Educational institutions (both public and private);
- Health facilities, e.g. hospitals/clinics/maternity homes, etc., in a fixed location.

But they exclude:

- All mobile businesses, e.g. hawkers;
- Traders in open spaces;
- Traders in homes where shops are NOT visible;
- All trading units, which are mainly retail shops selling on small tables under sheds, e.g. market sheds, stalls without permanent (i.e. 5 to 6 days a week) occupants;
- Shrines;
- Brothels;
- Churches in school buildings/churches without a permanent structure.

1.4.2 Coverage

All non-household establishments were included, irrespective of the size or sector of the business.

1.5 Reference year

The reference year was the calendar year 2014.

1.6 Legislation confidentiality

The 2014 economic Census was conducted under the Statistical Service Law 1985 (PNDC Law 135). This empowers the Government Statistician to conduct economic censuses and allows entry into premises of businesses to ask questions. Also, all enumerators took an oath of secrecy in order to ensure confidentiality.

1.7 Funding

The funding for the IBES is drawn from the Ghana Statistical Development Programme (GSDP) funds provided to the Government of Ghana in the form of a loan as well as a grant, which is managed by the World Bank, with support from the UK Department for International Development (DFID) and the Dutch Government. The entire funding for the IBES Phase I activities, including the preparatory activities, training, fieldwork, data processing, report writing and publication of reports came from the GSDP funds.

1.8 Institutional arrangements

The following national committees were put in place to facilitate the smooth implementation of the 2014-2017 IBES. These are the National Steering Committee (NSC), the Technical Advisory Committee (TAC) and the Project Implementation Team (PIT). Also, a Project Secretariat based in GSS was set up and was responsible for the technical direction, execution of the census and provision of logistical support to the three national committees.

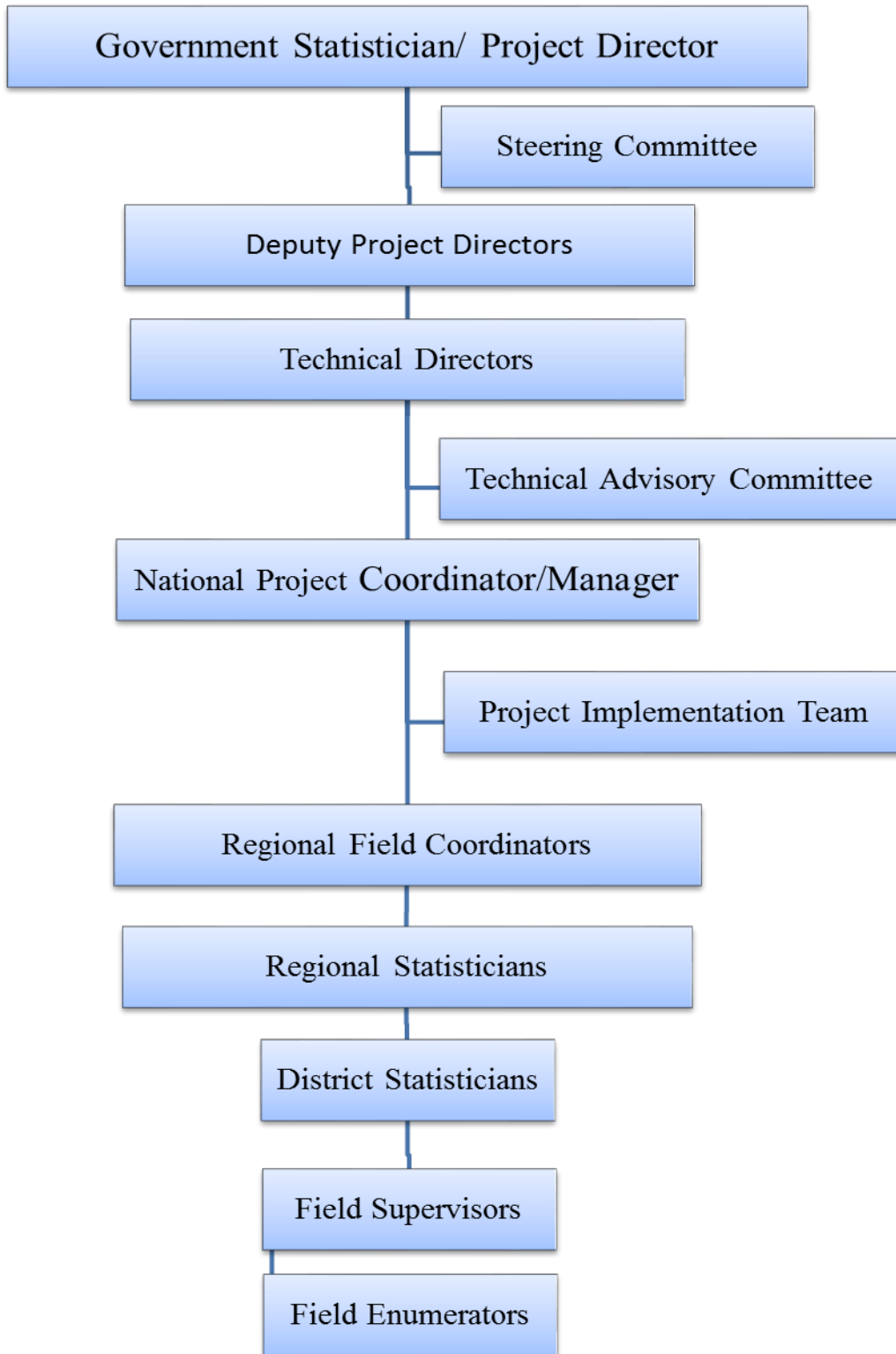
The NSC is chaired by the Minister of Trade and Industry and comprises ten members. Other members of the committee include representatives from the GSS, the Minister for Finance, the Minister for Food and Agriculture, representatives of the National Board for Small Scale Industries, the Association of Ghana Industries, representatives from the Ministry of Finance, Institute of Statistical, Social and Economic Research and the National Development Planning Commission, as well as representatives from Development Partner organizations.

The chairperson of the TAC is the Government Statistician. Other members come from the Ministry of Trade and Industry, the Ministry of Water Resources, Works and Housing, the Ministry of Road Transport, the Ministry of Food and Agriculture, Ghana Employers Association, Ghana National Chamber of Commerce and Industry, the Association of Ghana Industries (AGI), the National Insurance Commission (NIC), the Private Enterprise Federation (PEF), the Minerals Commission, Ghana Tourist Board (GTB), representatives of Development Partner organizations and the National Communications Authority (NCA).

The Project Implementation Team consists of twenty-four members. The chairperson of the Committee is the Government Statistician. This committee managed the planning and implementation of the survey.

An organogram for Phase I of the IBES is displayed below

IBES ORGANOGRAM FOR PHASE I



CHAPTER TWO

METHODOLOGY

2.1 Phase I methodology

2.1.1 Planning and preparation

Given that this is the first time an economic census of this magnitude has been conducted in Ghana, the preparatory and planning activities started with a conceptualization of the process, and the undertaking of advocacy among the stakeholders to solicit ideas and to build support for the project. The conceptualization of the IBES started in 2011, while preparatory activities for the implementation of the IBES Phase I started in 2013. At the conceptualization stage, an interim register of establishments was compiled from existing registers of relevant Ministries, Departments and Agencies (MDAs), as well as business associations. The interim register was reviewed and its limitations highlighted the need to build a new register from a census.

The preparatory activities started with the setting up of three major committees to oversee the implementation of the project. These committees are: the National Steering Committee (NSC), the Technical Advisory Committee (TAC) and the Project Implementation Team. Survey instruments were drafted and a review workshop organized to finalize the survey instruments to pave the way for the Training of Trainers workshop.

In addition, two stakeholder workshops were organized in Accra and Kumasi in August, 2014 to sensitize the stakeholders and the business community on the data collection requirements. This was necessary so that respondents would give enumerators the required cooperation during fieldwork. This cooperation was critical to the success of the IBES.

2.1.2 Principal census documents

Census questionnaire

The preparation for the questionnaire design began in 2011. It was based on the 2003 Industrial Census questionnaire, with some modifications to cater for establishments in sectors other than Industry. The data items covered in the final questionnaire were as follows:

- Name of the establishment;
- Physical location;
- Contact information (postal address, email address, website address, phone number);
- Form of organization;
- Type of legal organization;
- Type of ownership;
- Sex of ownership;
- Subsector of establishment;
- Principal activity;
- Number of persons engaged;
- Level of skill of persons engaged;
- Employment creation;
- Type of accounting records kept;
- Year of commencement of establishment.

Enumerator's manual

A field instruction manual for field personnel was prepared alongside the questionnaire. The manual provides instructions on the questionnaire and aims to ensure an unchanging application of concepts and procedures throughout the census.

Tabulation plan

Table summaries of data needs were prepared alongside the questionnaire design. Computer outputs were generated, as indicated by the plan.

2.1.3 Review of project documents

The Project Implementation Team (PIT) reviewed the project documents, including the questionnaire, the interviewer's manual and the publicity materials, to ensure that all the data needs were captured, based on the objectives of the survey.

2.1.4 Pre-test training of trainers

The questionnaire and other documents were pretested in the Central and Greater Accra regions in July 2014. Based on the results of the pre-test, amendments were made to the census questionnaire. In addition, the completed questionnaires were edited, coded and sent to the data processing unit of Ghana Statistical Survey (GSS) to test the data processing procedure.

The Training of Trainers workshop was combined with the pre-test of the IBES questionnaire and the review of the pre-test results. A core group of trainers consisting of officers from the ten regional offices of GSS and PIT members were trained at Winneba in July 2014. The trainers were used to undertake the pre-test exercise during the fourth, fifth and sixth days of the training. This served as field practice for the trainers. At the end of the pre-test/field practice, the trainers assisted with the review of the pre-test results on the seventh day and ensured the inclusion of the recommendations from the discussions in the IBES questionnaire.

2.1.5 Preparation for fieldwork

Recruitment

Advertisements were placed in both the print and electronic media for interested applicants to apply to be recruited for the fieldwork. An application form was also posted on the GSS website for interested applicants to download and complete. Interviews were conducted in the regions and about 8,000 field personnel were recruited for the fieldwork.

Training

For the purpose of training, the country was divided into two zones: Northern and Southern. The Northern zone consisted of six regions, i.e. Eastern, Ashanti, Brong Ahafo, Northern, Upper East and Upper West, while the Southern zone consisted of four regions, i.e. Greater Accra, Central, Western and Volta. Field personnel were trained on the survey instruments and briefed on the purpose and background of the IBES to aid effective data collection. These survey instruments included the questionnaire, interviewer's manual and training guide. A 4-day non-residential training workshop was conducted in the Northern and Southern zones at different times.

Training was done at the regional level in each zone. Training in the Northern zone took place from 25th to 29th August 2014, while training in the Southern zone was from 1st to 5th September 2014. Lectures were supplemented with practical sessions, demonstrations and participants' involvement in mock interviews. Trainees who passed the written exams and who also performed satisfactorily during observations were selected to take part in the field data collection. PIT members and other GSS staff carried out the training of enumerators and supervisors.

Mapping and zoning

The country was divided into approximately 6,000 zones. Each IBES zone was assigned to at least one enumerator. Except for a few zones in the central business districts within the metropolitan assemblies, each IBES zone was assigned to one enumerator. In the central business districts of metropolitan assemblies where zones were identified as being too large, more than one enumerator was assigned to cover such areas. In the non-central business districts, the IBES zones were made up of a combination of supervisory areas (SAs). In the central business districts of metropolitan areas, enumeration area (EA) maps were used to create the IBES zones. This was done bearing in mind that SAs are unique within districts; therefore, implicitly the IBES zones were unique within districts. Enumerators were responsible for ensuring that all establishments within their assigned zones were enumerated. Detailed zone maps were given to supervisors and enumerators to enable them to easily identify their areas of operation and ensure complete coverage. It also prevented establishments from being enumerated more than once.

Publicity

In order to inform general public and owners of establishments about the IBES, a publicity programme was drawn up. This included the launch of the 2014 IBES in August 2014. A 90-second video produced in five Ghanaian languages was shown on selected television stations in the country and a 60-second audio clip, also produced in the five Ghanaian languages, was played on radio stations. In addition, information vans from the Information Services Department were used in the central business districts to publicise the census prior to the commencement of fieldwork. In addition to the use of radio and TV, T-shirts with the IBES logo and inscriptions were provided to field personnel. They served a two-fold purpose: first to publicise the IBES and second as a form of identification for the field staff.

2.1.6 Field operations

Field data collection

The fieldwork for the IBES started on 1st September 2014 in the Northern zone and 8th September 2014 in the Southern zone. About 8,000 enumerators were deployed to collect information from all the establishments in the country. Establishments with fixed locations were covered at the place of their operation. Field supervisors and zonal coordinators supervised the work of the enumerators. The reference period for data collection was 31st August 2014.

As part of the effort to achieve the desired objectives of the IBES, a nationwide monitoring of the data collection was carried out in the field. The objective of the monitoring was to gather first-hand information on the fieldwork, which includes challenges of non-response, logistics, etc. The monitoring was also intended to allow the PIT to visit some of the districts to ascertain the quality of the data being collected and also to find out whether the field personnel were completing the questions correctly. Regional Statisticians (RSs) accompanied

field monitors during such visits. The field monitors also used the opportunity of the visits to interact with the field teams and the RSs to correct any misunderstanding they had regarding the usage of any of the survey instruments. Problems that were peculiar to a region were addressed during the monitoring exercise and where necessary, the information was passed on to the other regions.

Field editing

Editing is an essential feature of fieldwork. Supervisors edited the completed questionnaires; where errors were detected, they were corrected. Supervisors also checked the completed questionnaires for completeness, consistency and accuracy before they were sent to the regional offices.

2.1.7 Data processing

Data processing involves data capture, verification, editing coding of completed questionnaires and generation of tables.

Office editing and coding

The purpose of the office editing was to check the questionnaires for completeness, accuracy and consistency before the data was captured. Editors checked the spelling of each establishment's information about its principal activity and ensured that the data on persons engaged was accurate. Problems that the editors were unable to resolve were passed on to senior project officers for a decision to be taken.

Data capturing verification

Data was captured by data entry personnel in the regions. This was to allow for easy call-back and clarification. The software application CSPro version 5.0 was used to capture the data. Editing teams were set up to check the consistency of the data in the submitted questionnaires thoroughly before capturing them. An error-checking program was run throughout the data capturing period to correct data entry errors. Following the data capture, regional level data was merged to obtain national level data.

Validation

Data validation involved identification of inconsistencies and also detection of omission of data. In order to ensure that all formal establishments were included in the IBES Register, an establishment database was obtained from Social Security and National Insurance Trust (SSNIT) and used to validate the IBES Register. This was done to ensure that all establishments in the SSNIT database, which are usually formal establishments, were captured.

Tabulation publication

The final stage in preparing the Phase I data for publication was the review of the IBES establishment list and output tables. The review process took longer than planned due to the late responses from some establishments.

The tables were reviewed to check for coherence and consistency. After the data processing was completed and queries and inconsistencies resolved, the data was released for further analysis and publication.

2.2 Statistical definitions concepts

The statistical unit

An establishment is the statistical unit recommended by the United Nations Statistical Office for economic enquiries. It is defined as a unit of production engaged in a single kind of activity under a single ownership at a single location. In practice, it was difficult to apply this definition to some enterprises, hence the concept of a reporting unit was adopted. The reporting unit was the smallest unit that could provide the information required by the census. With the exception of the cases below, the reporting unit was the same for all establishments:

1. A unit, though under single ownership and carrying out a single activity, may operate at different locations but keep consolidated accounts which do not readily yield data on separate locations. This occurs in some large establishments.
2. A number of establishments engaged in two or more economic activities. Where possible, a completed questionnaire was obtained in respect of each activity; otherwise a combined return for all activities was accepted.

Classification of industry

The International Standard Industrial Classification for all economic activities (ISIC) Revision 4 was adopted for classifying economic activities. The Industry group (four-digit) level was sufficiently detailed for Ghana's needs.

When an establishment was engaged in two or more economic activities, an attempt was made to obtain a questionnaire on each activity. When it was not possible to obtain information on the separate activities, the unit was assigned to the establishment that generated the greater value of output.

Institutional agriculture

Institutional agriculture covers all agricultural establishments owned by the state, privately owned and in public-private partnership other than household agriculture. Non-household agriculture includes all institutions (housed in a structure) engaged in agriculture related activities. It is usually called institutional agriculture.

LMSM enterprises

LMSM is an abbreviation for large, medium, small and micro establishments. Large-sized establishments are those engaging more than 100 persons in total. Medium-sized establishments are those with 31-100 employees, while small-sized establishments have 6-30 persons engaged. Micro-sized establishments are those with a total of 1-5 persons engaged.

Skilled labour

These are workers who have special skills, knowledge or (usually acquired) ability in their work. For example, car mechanics who repair faulty cars, software developers, electricians who attend to activities related to electrical works, and a chemical engineer directly involved in petroleum refinery. It also includes human resource managers, accountants, auditors and so on.

Unskilled labour

These are persons who are directly involved in the actual activity of the establishment but lack the required technical skills to deliver on the job. Such persons may become skilled through acquiring knowledge on the job. These may include cleaners, security personnel, etc.

Formal and informal enterprises

In this report, an establishment is considered to be formal if it has professionals managing the accounting records. If the establishment does not have professionals keeping the accounting records then it is considered to be informal.

Type of legal organization

Businesses acquire legal status through registration at the Registrar General's Department (RGD). It may take the form of private limited company, sole proprietorship or partnership, among others. However, if a business is not registered with the RGD and considers itself to be operating within the confines of any of the above statuses, this is recorded as the legal status of the establishment.

Sole Proprietorship: This is a business owned and run by a single person where there is no legal distinction between the owner and the business. The individual proprietor has the right to all the profit from the business and is also responsible for all the establishment's liabilities.

Partnership: A partnership is a business association of two or more persons who have formally agreed to work together, each contributing skills, labour and capital to the venture in return for an agreed share of the profits/loss as specified in the partnership agreement. The formal partnership agreement usually covers all the partners' rights, responsibilities and obligations, the circumstances in which their partnership may be dissolved and a specific length of time during which the partnership is in effect. Unless a Limited Partnership has been established, all parties share the burden of losses and debts.

Private Limited Company: This is a type of company that offers limited liability or legal protection for its shareholders but places certain restrictions on its ownership. Its shares may not be offered to the general public.

Public Limited Company: This is a listed company, which is limited by shares, has share capital and may offer its shares for purchase by the general public.

Statutory Body: This is a body established by legislation to carry out a specific function. Examples include the Electoral Commission, the Energy Commission, the National Petroleum Authority, the National Communications Authority (NCA), etc.

Other Government Institutions (MDAs etc.): These institutions are fully funded and controlled by the government. Examples include the Information Service, the Ministry of Trade and Industry, etc.

Quasi-Governmental Institutions: A quasi-governmental agency is an agency of the government but acts independently from the government. These agencies receive their monetary support from the government although they may also have their own means of collecting money. They include public universities, polytechnics, government hospitals, etc.

Parastatal Organization: This is a legal entity created by a government to undertake commercial activities on behalf of its owner, the government. Graphic Corporation, the *Ghanaian Times*, the Volta River Authority and the Electricity Company of Ghana are all examples of parastatal organizations.

Non-Governmental Organization (NGO): This is an organization that is neither a part of a government nor a conventional “for profit” business. Usually set up by ordinary citizens, NGOs may be funded by governments, foundations, businesses or private persons. Some avoid formal funding altogether and are run primarily by volunteers. NGOs are highly diverse groups of organizations engaged in a wide range of activities, and they take different forms in different parts of the world. Some may have charitable status, while others may be registered for tax exemption based on recognition of social purposes. Others may be established for political, religious or other interests. Examples are Action Aid, churches, Health Alliance, the African Student Union and the Christian Council of Ghana.

Cooperative: This is a business or an activity operated by the people that it serves and that has been registered with a cooperative association. People join cooperatives to carry on an activity that is of mutual benefit. All establishments that are run by cooperatives fall under this category. Membership can be made up of employees of the establishment or consumers of the product/service or both. Examples include the Ghana Private Road Transport Union (GPRTU) and the Credit Union, among others.

Associations/Groups: These comprise groups of individuals who voluntarily enter into an agreement to accomplish a purpose. They include alumni associations, professional associations such as the Ghana Bar Association, trade and sports associations, etc.

State-owned establishments

State-owned enterprises (SOEs) are legal entities created by the government in order to partake in commercial activities on the government's behalf. An SOE is typically earmarked to participate in commercial activities.

Privately owned establishments

A privately owned enterprise refers to a commercial enterprise that is owned by private investors, shareholders or owners (usually collectively, but they can be owned by a single individual), and is in contrast to state institutions. Private enterprises make up the private sector of the economy.

Public-private partnership establishments

A public-private partnership (PPP) is a government service or private business venture which is funded and operated through a partnership of government and one or more private sector companies. In 2004, the Government of Ghana published PPP policy guidelines which attempted to officially integrate the two sectors in the development process. The private sector was described as Ghana's “engine of growth”, indicating its importance. The PPP law gives government the legal backing to join hands with private firms to carry out projects in the country.

CHAPTER THREE

NON-HOUSEHOLD ESTABLISHMENTS

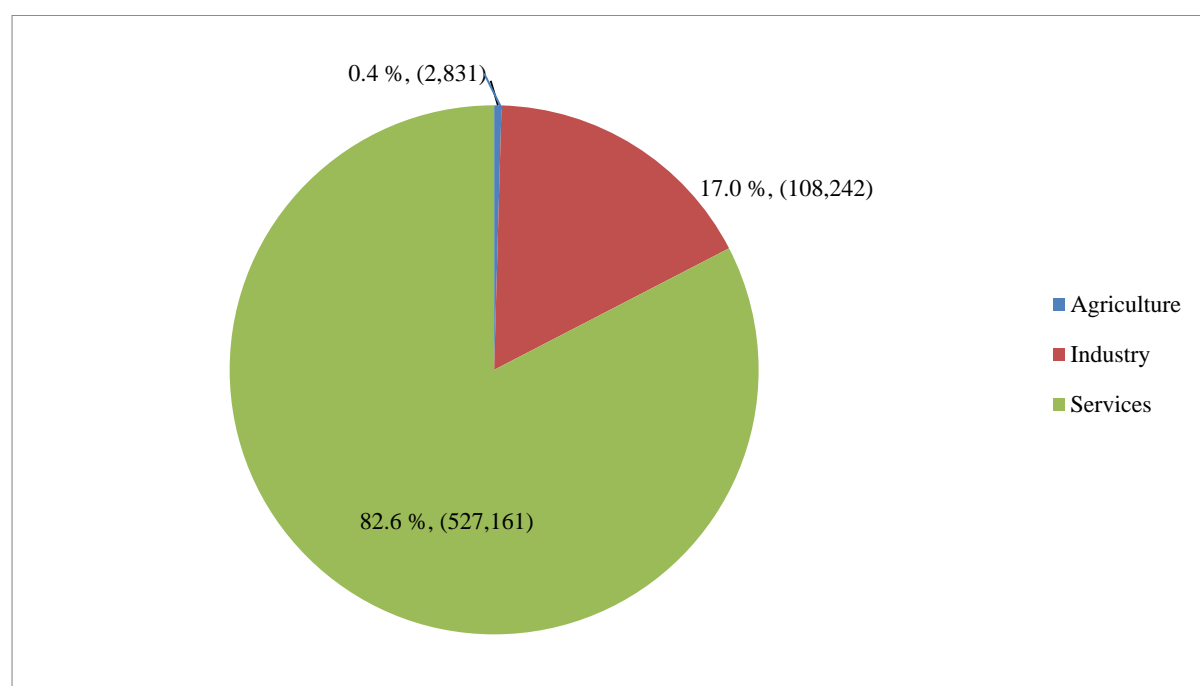
3.1 Introduction

This chapter presents an overview of the distribution of non-household establishments in the country following the conduct of the first phase of the Integrated Business Establishment Survey (IBES), an economic census undertaken in 2014. The chapter analyses the distribution of establishments based on several characteristics such as geography, sector, nationality, ownership and year of commencement as well as size classification. These characteristics are examined generally, as well as in more detail for specific sectors. More detailed data drawn from the first phase of the IBES is provided in the Appendices section of this document

3.2 Sector of establishments

The three main sectors considered in this report are Industry, Services and Agriculture (Institutional). The distribution of establishments by sector is shown in Figure 3.1. A total of 638,234 establishments are in operation in the country. Among the sectors, the Services sector has the largest share with 82.6%, followed by Industry (17.0%). The Agriculture (Institutional) sector has less than one per cent of establishments (0.4%).

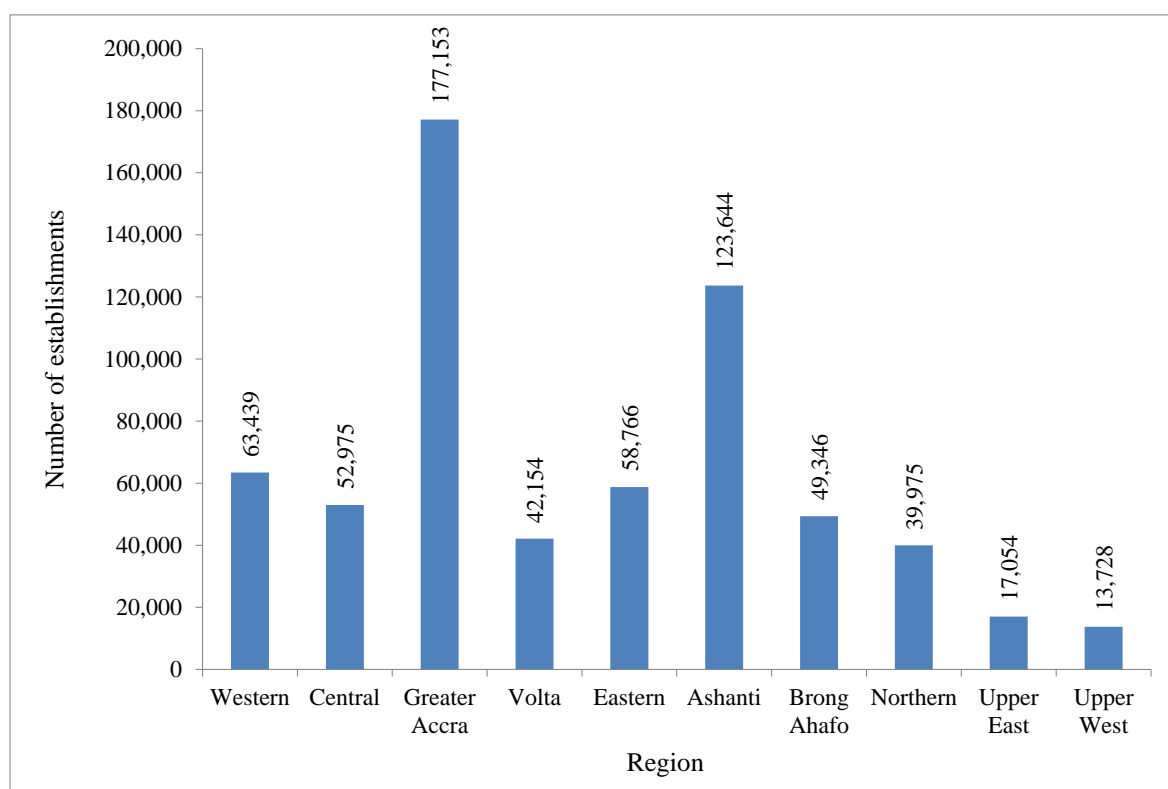
Figure 3.1: Sectoral distribution of establishments



3.3 Location of establishments

Figure 3.2 shows the distribution of establishments by region. Out of a total of 638,234 establishments in the country, 177,153, representing 27.8 per cent, are located in the Greater Accra region. This is followed by the Ashanti region (123,644) and the Western region (63,439). The region with the least number of establishments is Upper West (13,728).

Figure 3.2: Distribution of establishments by region



3.4 The formal and informal economy of Ghana

This section examines the formal and informal economy of Ghana by considering the distribution of establishments defined as formal or informal. The IBES defines as “formal establishments” those which are registered with the Registrar General’s Department (RGD) and keep formal accounts, while “informal establishments” are those which do not keep formal accounts and are not registered with the RGD.

Overall, about one-tenth (9.5%) of establishments in Ghana are formal, with the remaining (90.5%) establishments being informal. Apart from the Agriculture (Institutional) sector, in which approximately one-quarter (24.9%) of establishments are formal, the formal establishments in each of the other two sectors constitute less than ten per cent (Figure 3.3). The relatively large proportion of establishments in the Agriculture sector classified as formal is due mainly to the survey design of the IBES which focused on non-household establishments. Thus, the establishments in the Agriculture sector in the IBES are institutional in nature.

Figure 3.3: Distribution of formal and informal establishments by sector

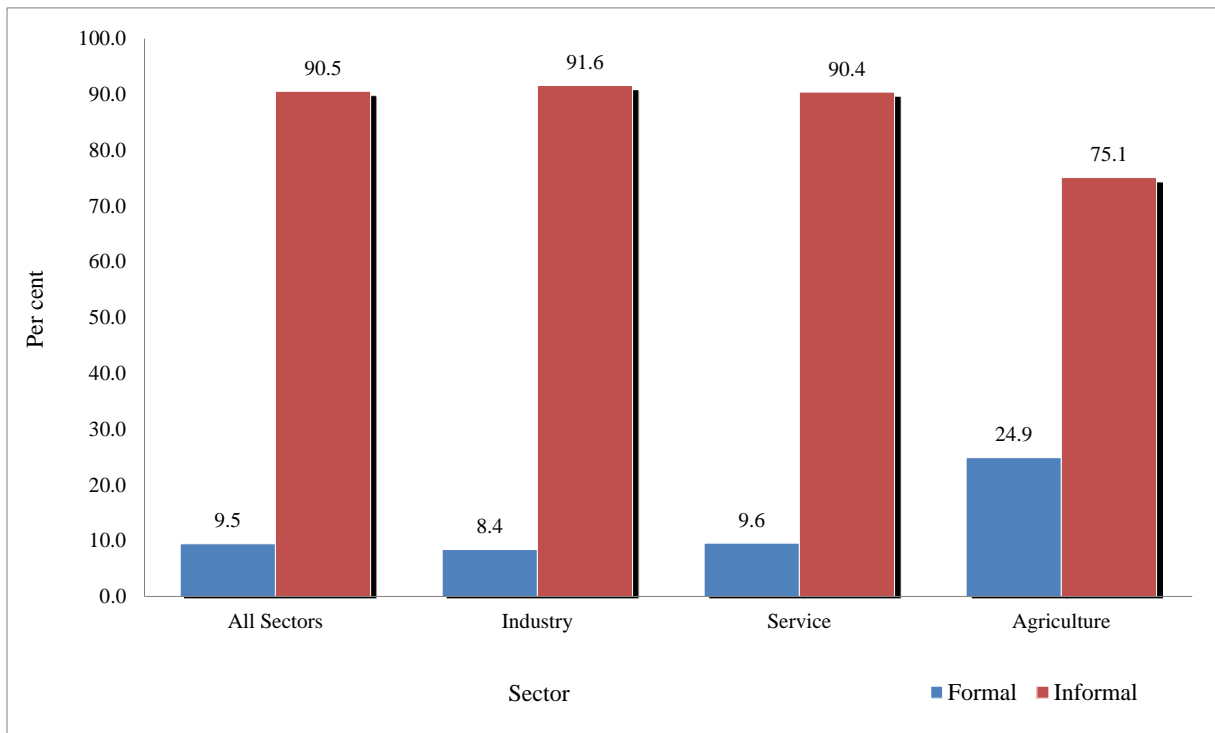
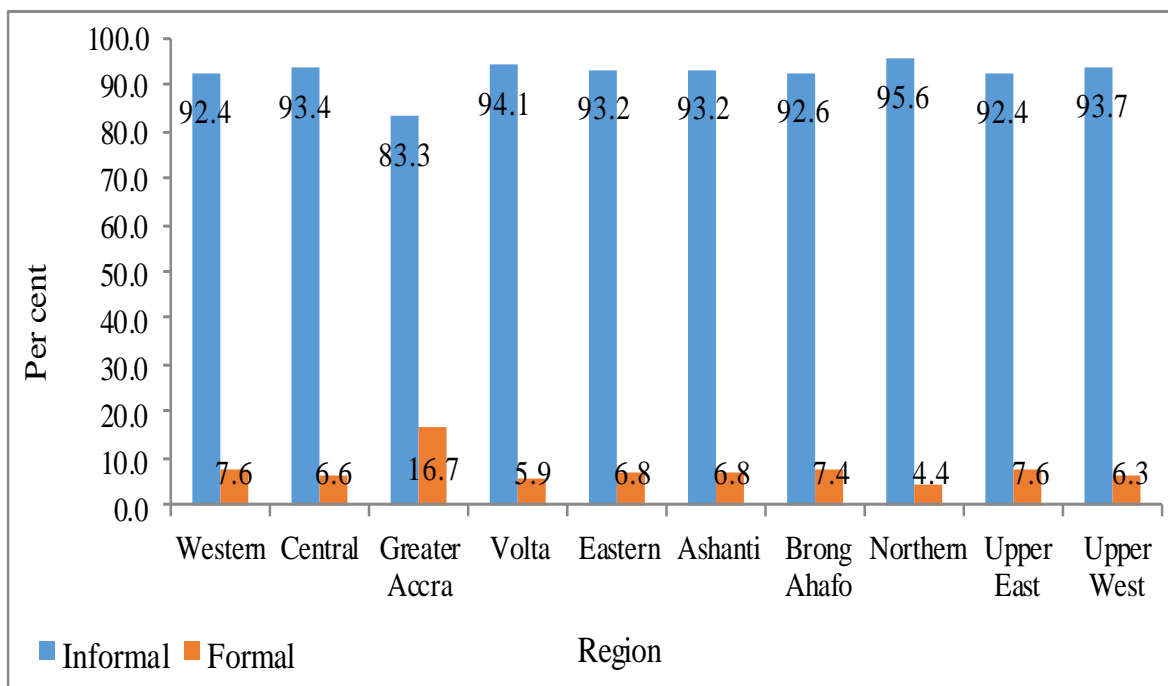


Figure 3.4 examines the distribution of formal and informal establishments by region. The distribution indicates that, with the exception of the Greater Accra Region, where about seventeen per cent (16.7%) of establishments are formal, in the other regions less than 10 per cent each of establishments are in the formal sector. Therefore, informal establishments dominate the Ghanaian economy, which is typical of a developing country.

Figure 3.4: Distribution of formal and informal establishments by region

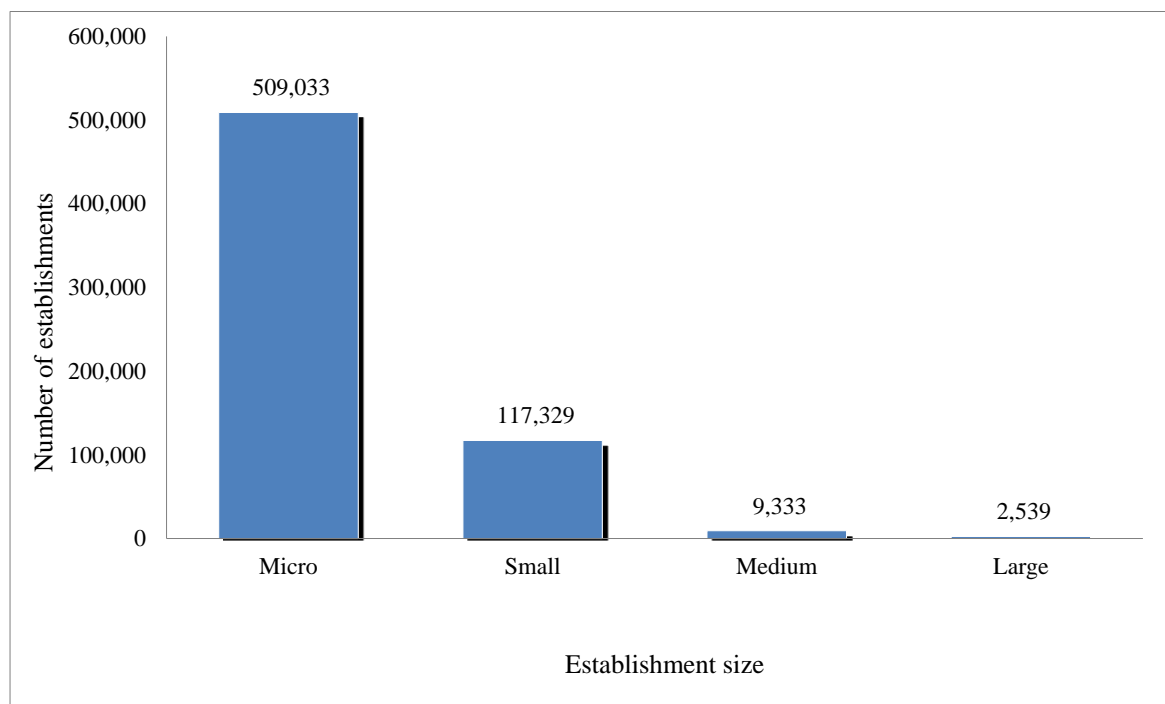


3.5 Size classification of establishments

This section examines the number of establishments by size as classified by the number of persons engaged. There are four categories: **micro-sized** establishments (which engage not more than five persons); **small-sized** establishments (which engage from six up to thirty persons); **medium-sized** establishments (which engage from thirty-one up to one hundred persons) and **large-sized** establishments (those engaging more than one hundred persons).

Figure 3.5 illustrates the distribution of establishments classified according to size. The Figure shows that, out of a total of 638,234 establishments, 509,033 (79.8%) are micro-sized, 117,329 (18.4%) are small-sized, 9,333 (1.5%) are medium-sized and 2,539 (0.4%) are large-sized.

Figure 3.5: Distribution of establishments by size

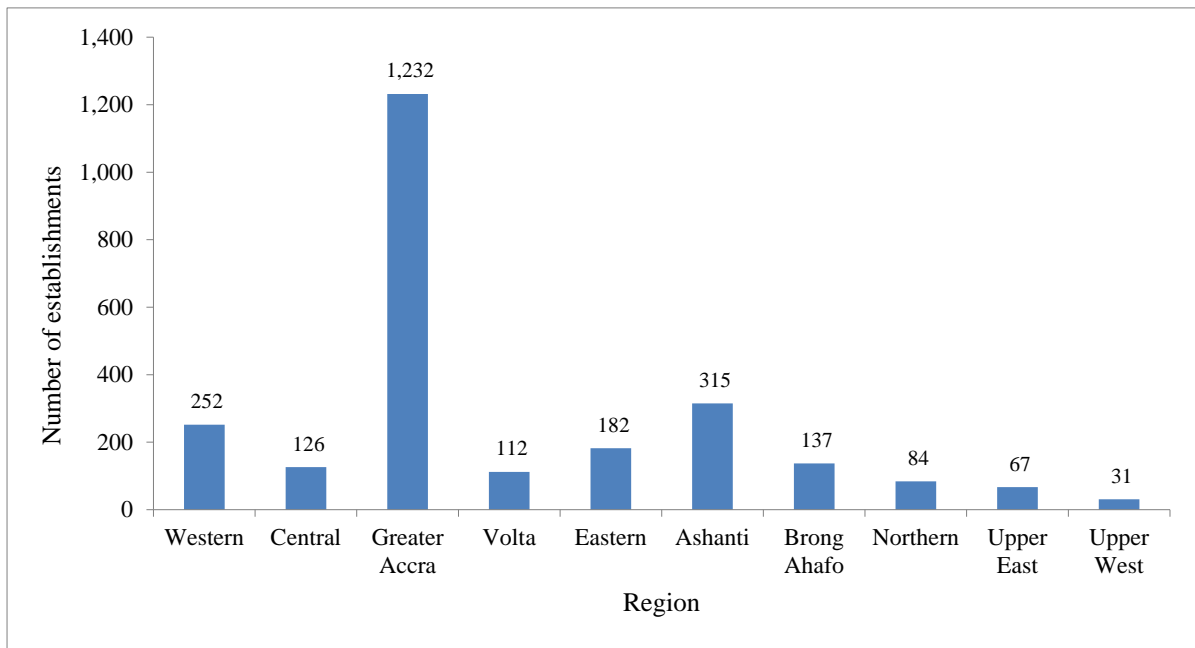


3.6 Location of large, medium, small and micro (LMSM) establishments

3.6.1 Large-sized establishments

Figure 3.6 shows the distribution of large-sized establishments by region. Overall, the distribution of large-sized establishments is skewed in favour of the Greater Accra region (1,233), which accounts for almost half of the large-sized establishments in the country. This is followed by the Ashanti and Western regions (315 and 252 respectively).

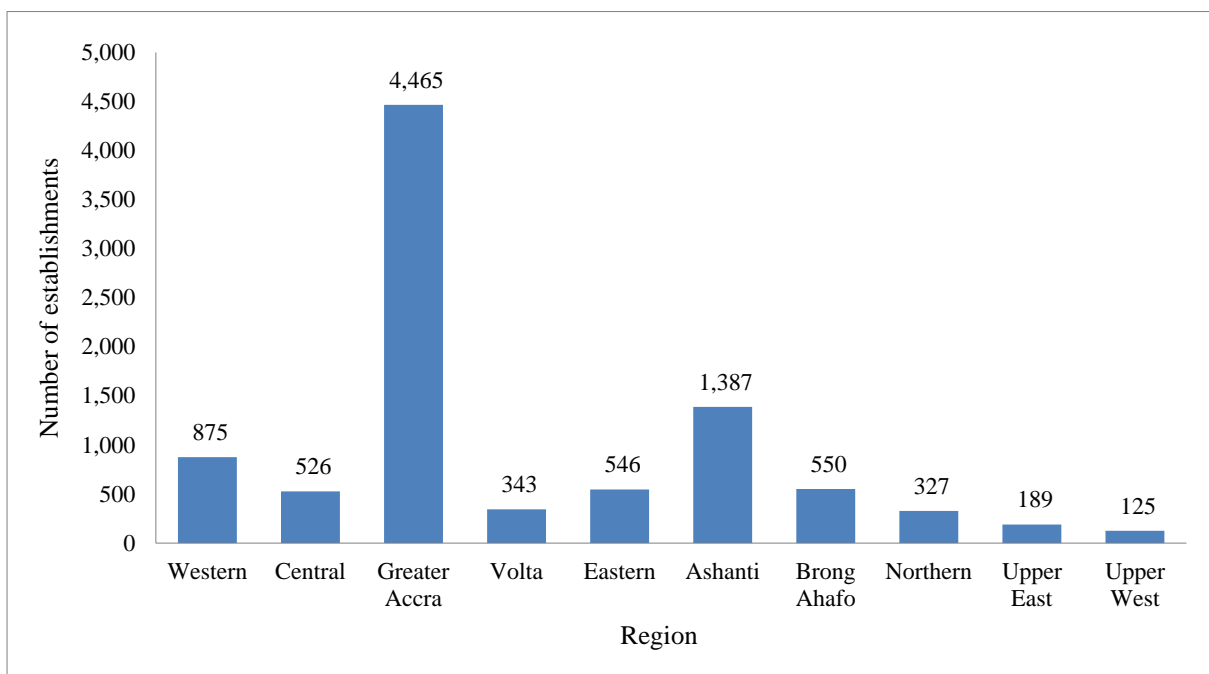
Figure 3.6: Distribution of large-sized establishments by region



3.6.2 Medium-sized establishments

The majority (4,465) of medium-sized establishments are concentrated in the Greater Accra region, as shown in Figure 3.7. The Volta (343), Northern (327), Upper East (189) and Upper West (125) regions together account for less than one-quarter of medium-sized establishments in Ghana.

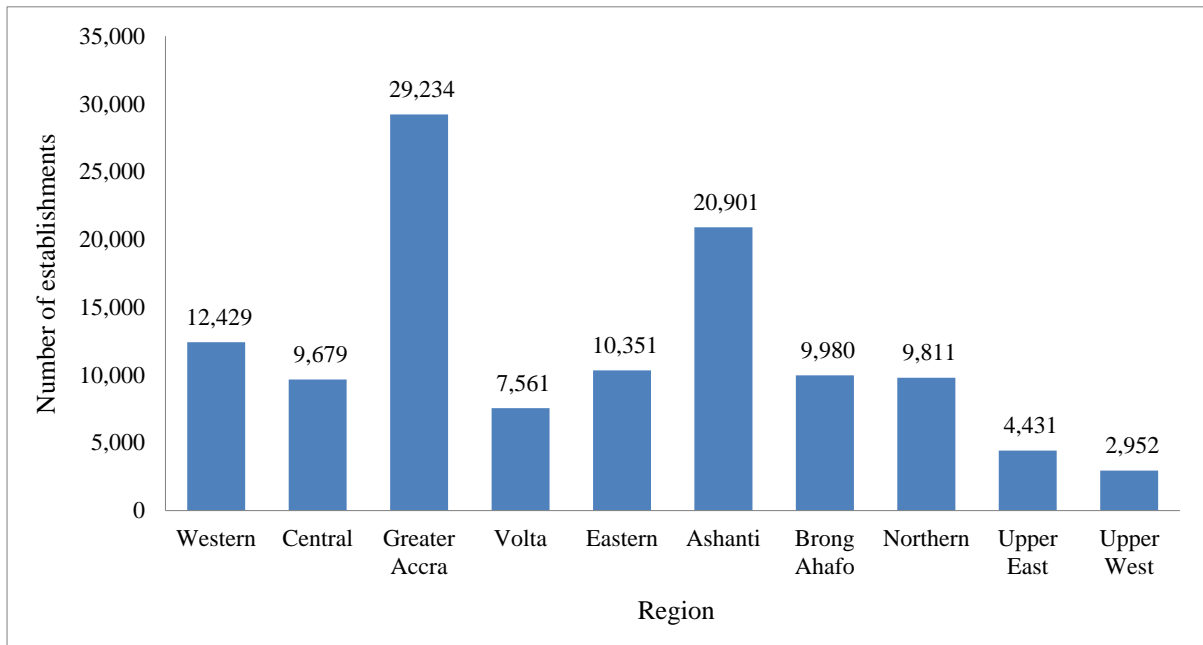
Figure 3.7: Distribution of medium-sized establishments by region



3.6.3 Small-sized establishments

Figure 3.8 shows that most of the small-sized establishments are found to be operating in the Greater Accra region (29,234), followed by the Ashanti (20,901) and Western (12,429) regions. The Upper West region (2,952) has the least number of small-sized establishments.

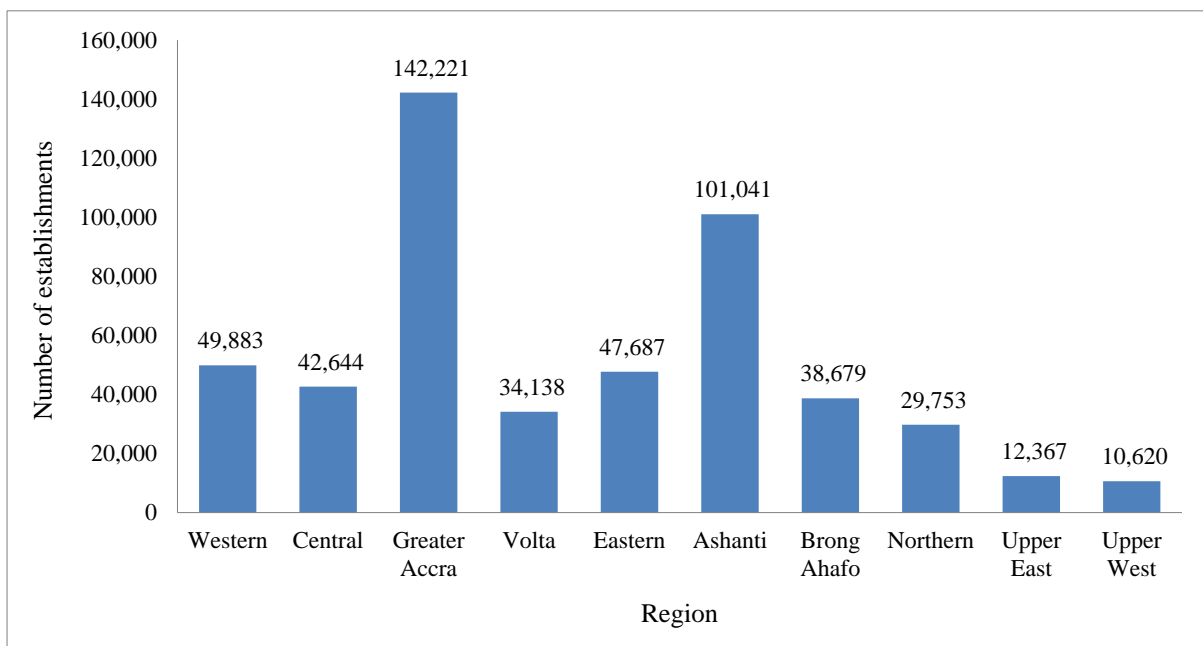
Figure 3.8: Distribution of small-sized establishments by region



3.6.4 Micro-sized establishments

There are a total of 142,221 micro-sized establishments operating in the Greater Accra region and 101,041 in the Ashanti region. The Upper West and Upper East regions have the least, with 12,367 and 10,620 micro-sized establishments respectively (Figure 3.9).

Figure 3.9: Distribution of micro-sized establishments by region

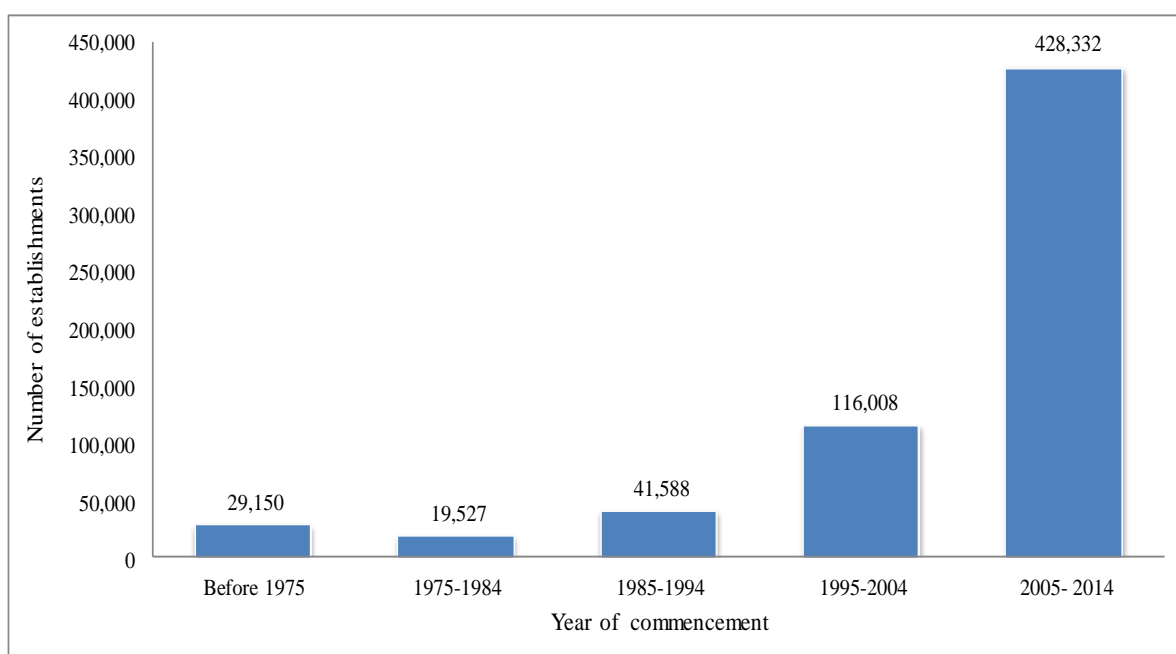


3.7 Year of commencement of establishments

The analysis in this section focuses on year of commencement of the establishments. Table A3 of the Summary Tables in the Appendices section indicates that out of a total of 638,234 establishments, 3,629, representing 0.6%, did not indicate the year of commencement of the establishment. The distribution of establishments as illustrated in Figure 3.10 reflects only establishments that indicated year of commencement. The data on year of commencement of the establishments has been divided into five groups: those commencing before 1975 and those after 1975 grouped in 10-year intervals, e.g. 1975-1984, and so on.

From Figure 3.10, a total of 428,332 representing 67.1% of establishments commenced operation within the period 2005-2014. This number is about four times that of the preceding period, 1995-2004 (116,008). The period 1975-1984 recorded the least number of establishments (19,527), commencing business representing 3.1% of the total number of establishments captured in the census.

Figure 3.10: Distribution of establishments by year of commencement



3.7.1 Year of commencement of establishments by region

Table 3.1 shows the year of commencement of establishment by region. It is observed that in all regions many establishments were created between 2005 and 2014. Greater Accra has the highest number of establishments in all the periods, as shown in Table 3.1. The Greater Accra region has 120,983 establishments which commenced business between 2005 and 2014. In the Greater Accra region, 30,595 establishments commenced operation from 1995 to 2004 while 10,435 establishments commenced operation from 1985 to 1994.

The Ashanti region has the second highest number of establishments in the country, having 84,492 establishments that commenced business in the period 2005 to 2014. In the period 1995 to 2004, a total of 22,978 establishments were created in the Ashanti region; this figure is about three times higher than the 7,485 establishments which commenced operation in the region from 1985 to 1994.

The Upper West region has the lowest number of establishments in the country, with 9,487 establishments beginning operation between 2005 and 2014. In the period 1995 to 2004, a total of 2,218 establishments were created in the same region, while just 717 came into existence in the period 1985 to 1994.

Table 3.1: Regional distribution of establishments by year of commencement

Region	Total	Commencement year					Not stated
		Before 1975	1975-1984	1985-1994	1995-2004	2005- 2014	
Western	63,439	2,872	2,075	4,526	11,619	42,084	263
Central	52,975	2,849	1,582	3,456	9,153	35,785	150
Greater Accra	177,152	7,275	5,643	10,435	30,595	120,983	2,221
Volta	42,155	2,609	1,376	3,531	7,833	26,739	67
Eastern	58,766	3,562	2,007	4,190	11,137	37,768	102
Ashanti	123,644	5,003	3,147	7,485	22,978	84,492	539
Brong Ahafo	49,346	2,417	1,637	3,201	9,025	32,963	103
Northern	39,975	1,317	1,192	2,792	8,287	26,356	31
Upper East	17,054	728	510	1,153	3,063	11,578	22
Upper West	13,728	518	358	819	2,318	9,584	131
National	638,234	29,150	19,527	41,588	116,008	428,332	3,629

Not stated category represents establishments that did not indicate their year of commencement

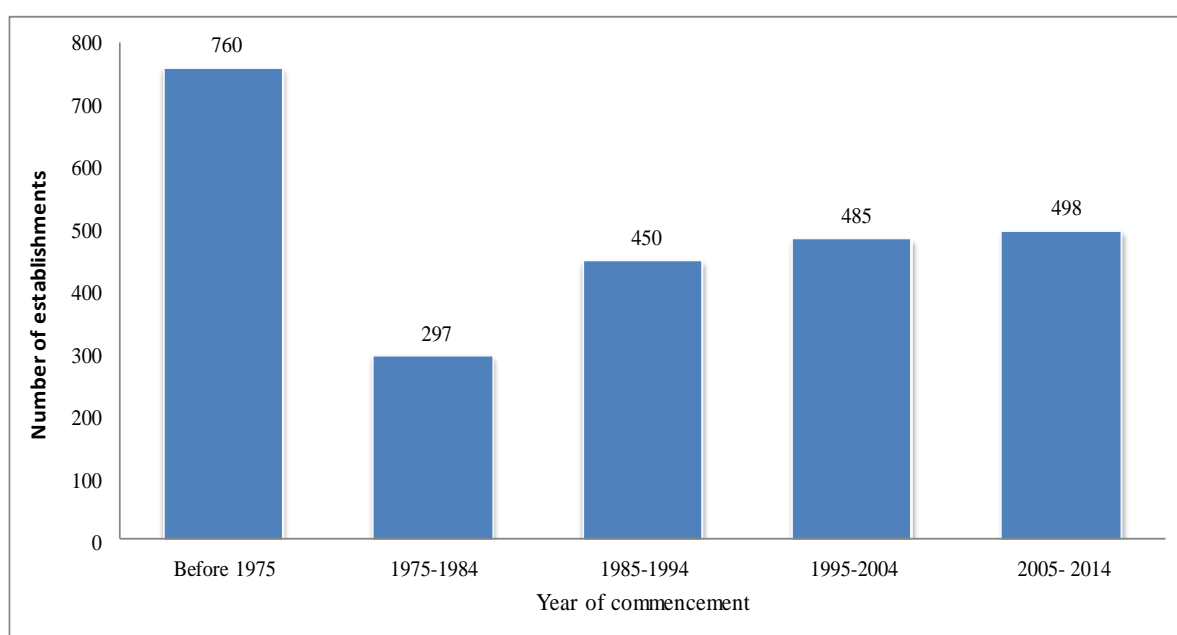
3.7.2 Year of commencement and size of establishment

This section focuses on the distribution of establishments by year of commencement and size. The size of an establishment is defined using the number of persons engaged. The internationally recognised classification for the grouping of establishments is Large, Medium, Small and Micro (LMSM).

3.7.3 Year of commencement for large-sized establishments

The distribution of large-sized establishments by year of commencement is illustrated in Figure 3.11. A total of 760 large-sized establishments commenced operation before 1975. The number of establishments commencing business in this category increased consistently from 297 in 1975-1984 to 498 in 2005-2014.

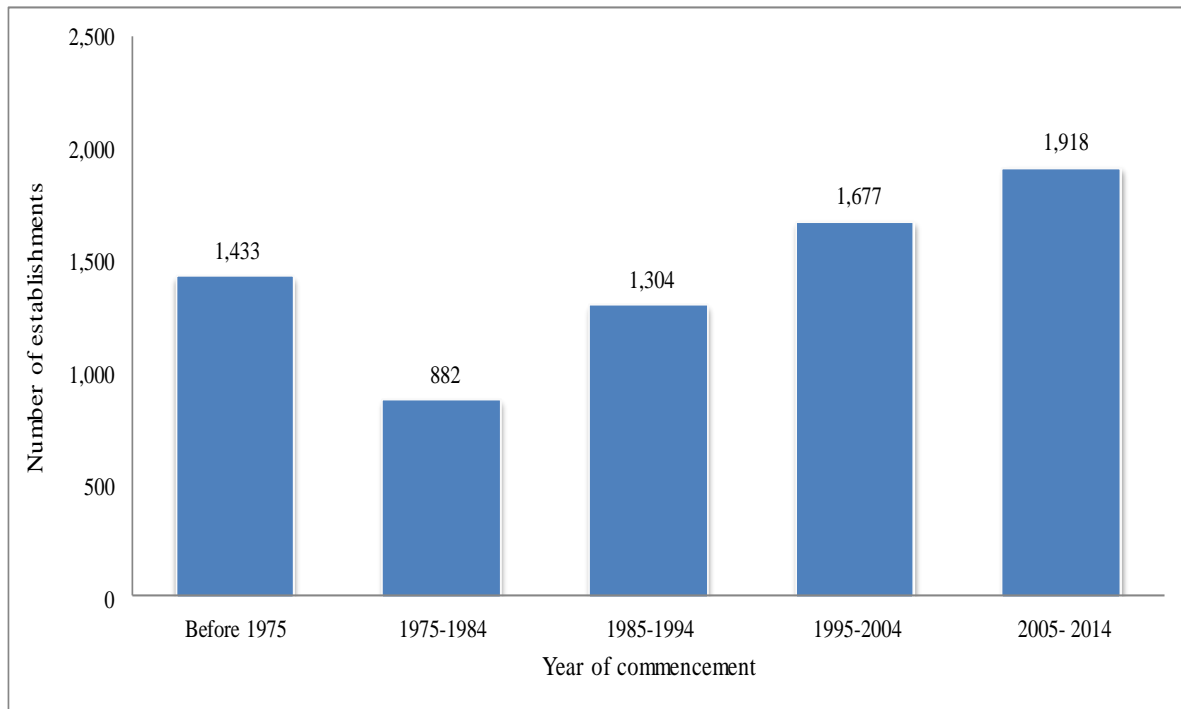
Figure 3.11: Distribution of large-sized establishments by year of commencement



3.7.4 Year of commencement of medium-sized establishments

Figure 3.12 indicates the distribution of medium-sized establishments by year of commencement. A faster rate of increase is observed for medium-sized establishments compared to that of large-sized establishments (Figure 3.11). A total of 882 medium-sized establishments commenced operation within the period 1975-1984. Subsequently, this number increased to 1,304 establishments within the period 1985-1994, 1,677 establishments within the period 1995-2004 and 1,918 establishments during the period 2005-2014.

Figure 3.12: Distribution of medium-sized establishments by year of commencement

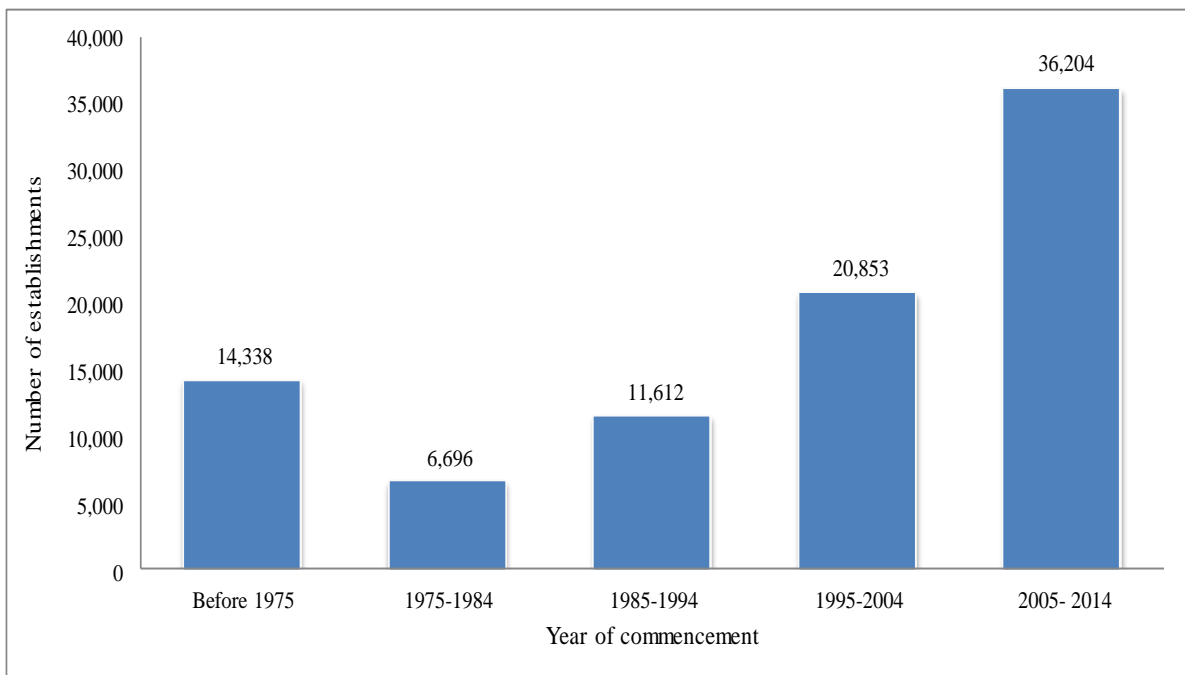


3.7.5 Year of commencement of small-sized establishments

Over the years, small-sized establishments have contributed significantly towards the development of the Ghanaian economy. As observed earlier, small-sized establishments form the second largest number of establishments in the country. Figure 3.13 indicates the distribution of small-sized establishments by year of commencement. It can be observed from Figure 3.13 that small-sized establishments have grown faster than medium-sized establishments.

A significant number of small-sized establishments (14,338) represent the oldest establishments in this group (before 1975). Subsequently, the number of small-sized establishments commencing business has increased over the years from 6,696 in the period 1975-1984 to 11,612 in 1985-1994 and then to 36,204 in the period 2005-2014.

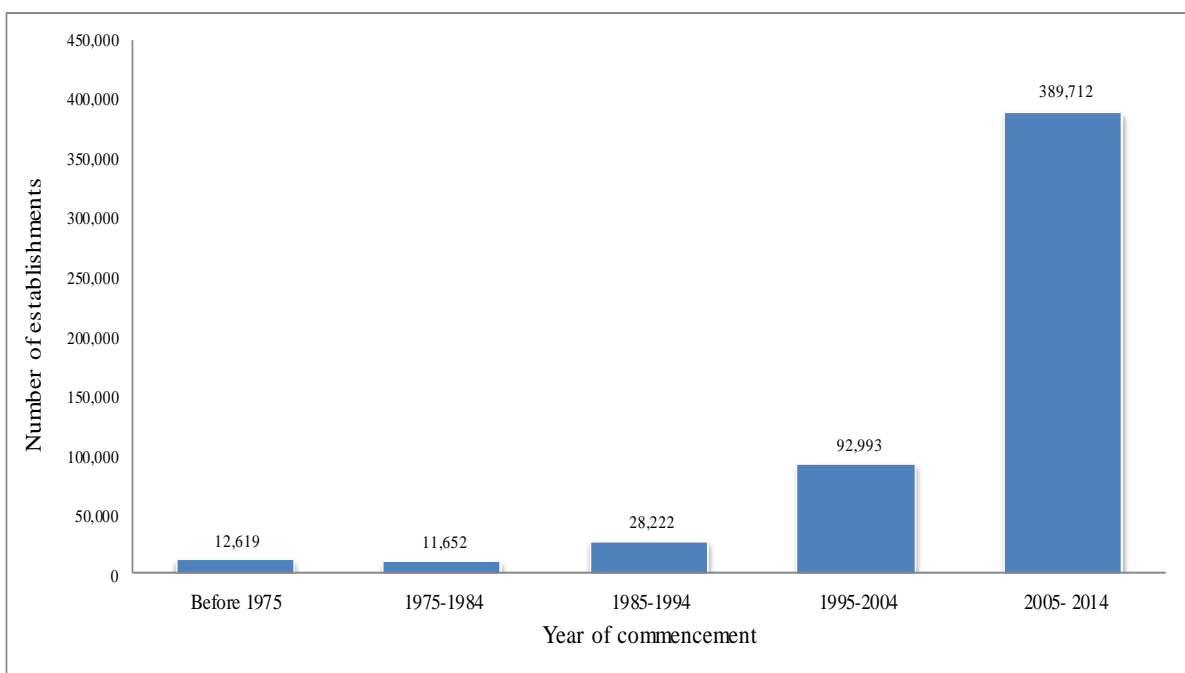
Figure 3.13: Distribution of small-sized establishments by year of commencement



3.7.6 Year of commencement of micro-sized establishments

Figure 3.14 illustrates the distribution of micro-sized establishments by year of commencement. The addition of new establishments is progressive within the ten-year intervals. Though the number of micro-sized establishments before 1975 numbered 12,619, the next period (1975-1984) recorded the lowest number (11,652) in the distribution. A total of 28,222 new micro establishments were created in the period 1985-1994, further increasing significantly to 389,712 in the period 2005-2014.

Figure 3.14: Distribution of micro-sized establishments by year of commencement



3.7.7 Sector size classification of establishments and year of commencement

Table 3.2 shows the sectoral distribution of establishments classified by size at year of commencement. In the Industry sector, the majority of the establishments by size classification commenced operation in the period 2005-2014. A total of 157 large-sized establishments were created in the period 2005-2014, with only 63 reported to have commenced operation in the period 1975-1984.

Similarly, while only (12) large establishments in the Agriculture (Institutional) sector commenced operation in the period 1975-1984, (23) were created in the period 2005-2014. This distribution pattern is observed with other size categories for the Agriculture sector. For example, 1,135 establishments in the Agriculture sector classified as micro-sized commenced operation in the period 2005-2014, while only (93) did so before 1975.

Conversely, for the Services sector, the ten-year period 1995-2004 recorded the creation of the highest number (366) of large establishments, whereas the least (222) were established within the period 1975-1984. In the case of micro-sized establishments, about thirty-five times the number of establishments (9,346) which commenced operation within the period 1975-1984 were created in the period 2005-2014 (323,858).

Table 3.2: Distribution of establishments by sector, LMSM and year of commencement

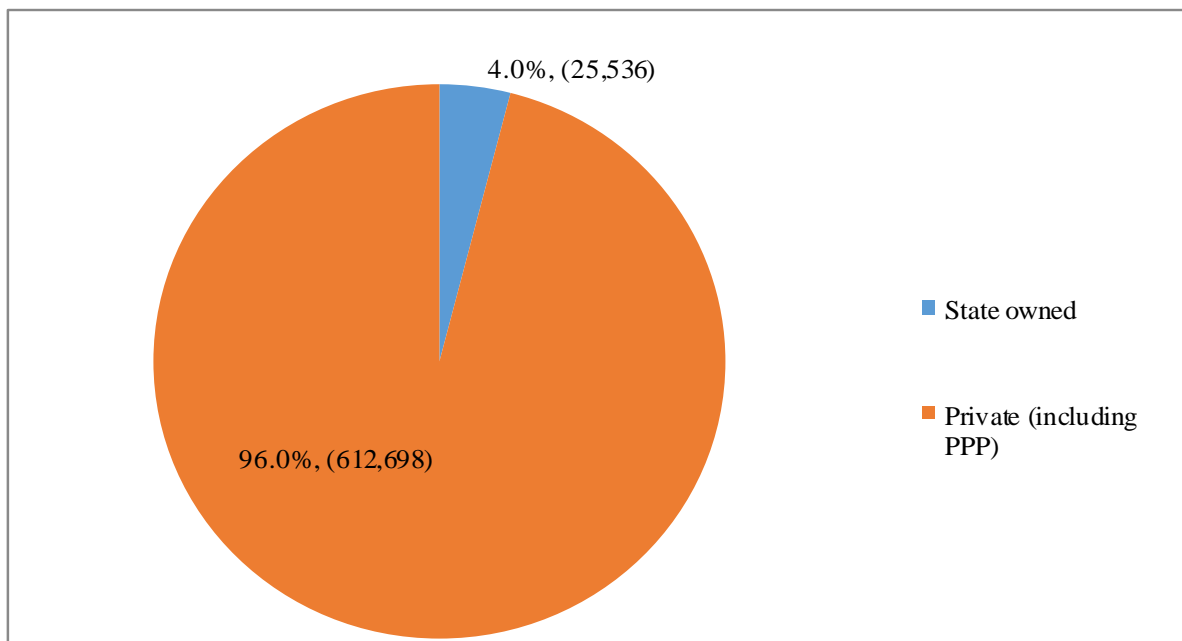
Sector/LMSM	Total number of establishments	Commencement year					
		Before 1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
All Sectors	638,234	29,150	19,527	41,588	116,008	428,332	3,629
Large	2,539	760	297	450	485	498	49
Medium	8,523	1,433	882	1,304	1,677	1,918	1,309
Small	90,681	14,338	6,696	11,612	20,853	36,204	978
Micro	536,491	12,619	11,652	28,222	92,993	389,712	1,293
Industry	108,242	2,990	2,985	6,645	22,320	72,987	315
Large	523	123	63	74	101	157	5
Medium	1,070	154	103	127	244	326	116
Small	14,035	622	599	1244	3,746	7,785	39
Micro	92,614	2091	2,220	5,200	18,229	64,719	155
Service	527,161	25904	16,342	34,656	93,060	353,890	3,309
Large	1,925	616	222	360	366	318	43
Medium	7,227	1226	743	1136	1,389	1,542	1,191
Small	75,994	13,627	6,031	10,280	16,945	28,172	939
Micro	442,015	10,435	9,346	22,880	74,360	323,858	1,136
Agriculture	2,831	256	200	287	628	1,455	5
Large	91	21	12	16	18	23	1
Medium	226	53	36	41	44	50	2
Small	652	89	66	88	162	247	0
Micro	1,862	93	86	142	404	1,135	2

3.8 Ownership of establishments

This section examines ownership of establishments in two categories: type of ownership and nationality of owners. The type of ownership is further sub-categorized as state-owned or privately owned, which includes public-private partnerships (PPPs). The nationality of owners is classified as Ghanaians, non-Ghanaians and joint ownership between Ghanaians and non-Ghanaians.

Figure 3.15 shows the distribution of establishments by type of ownership. Out of the total of 638,234 establishments in Ghana, the majority are privately owned (96.0%), with only 4.0 per cent being state owned.

Figure 3.15: Distribution of establishments by type of ownership

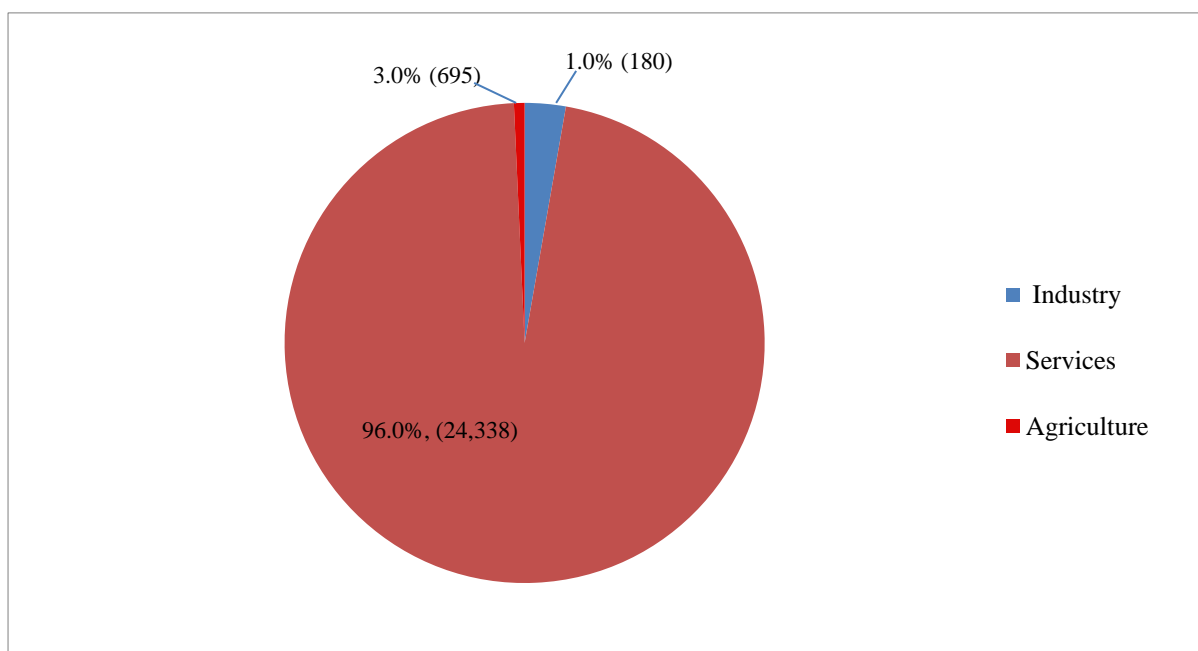


3.8.1 State-owned establishments

3.8.1.1 Sectoral distribution of state-owned establishments

Figure 3.16 shows the distribution of state-owned establishments by sector. The majority (96.0%) of the state-owned establishments are in the Services sector. This is followed by the Industry (3.0%) and Agriculture (Institutional) (1.0%) sectors.

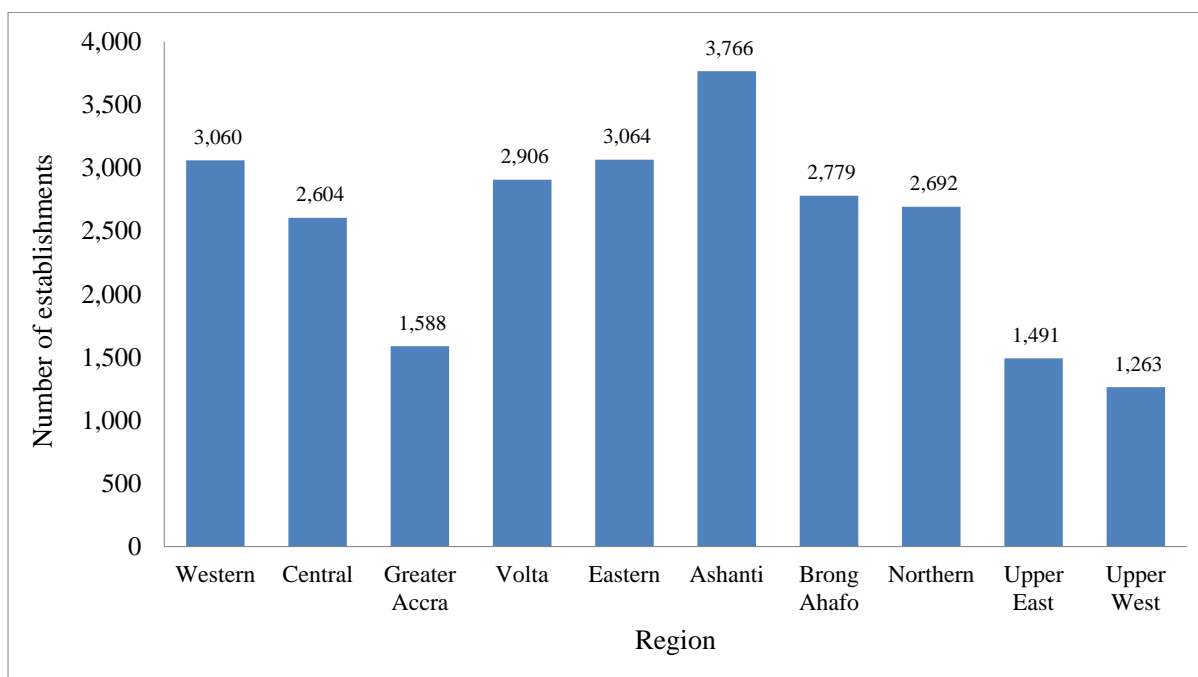
Figure 3.16: Distribution of state-owned establishments by sector



3.8.1.2 Regional distribution of state-owned establishments

With reference to Figure 3.17, the distribution of state-owned establishments by region indicates that out of a total of 25,213 establishments, the Ashanti region has the highest number (3,766), accounting for 14.9 per cent, followed by the Eastern (3,064) and Western (3,060) regions. The Upper West (1,263) region has the least number of state-owned establishments, representing 5.0 per cent.

Figure 3.17: Distribution of state-owned establishments by region

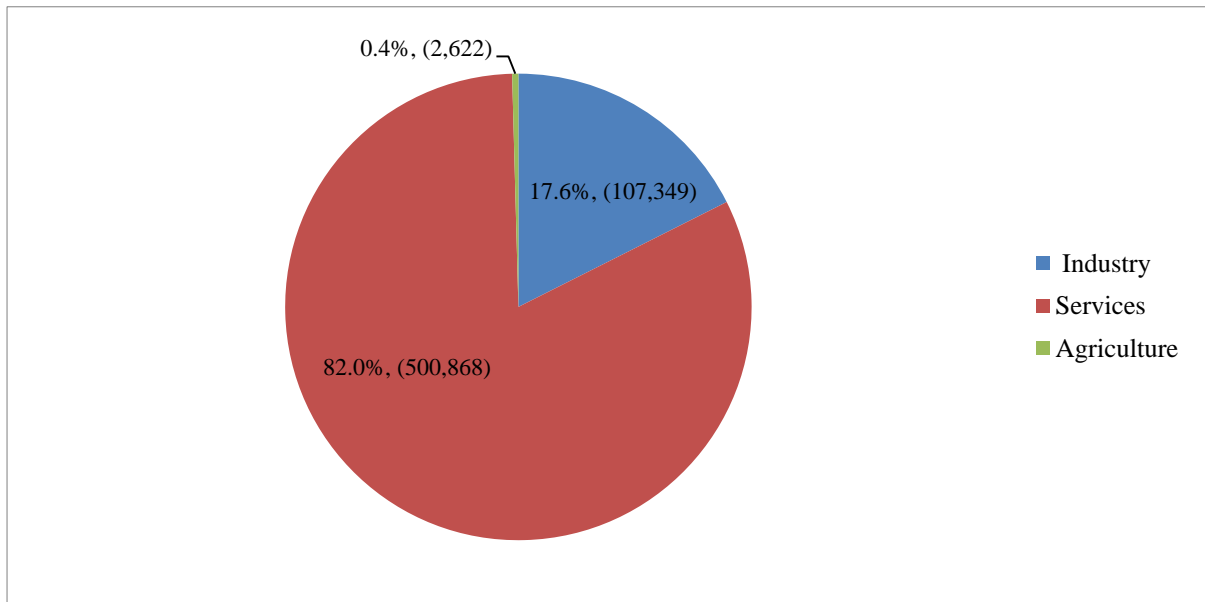


3.8.2 Privately owned establishments

3.8.2.1 Sectoral distribution of privately owned establishments

Figure 3.18 shows the distribution of privately owned establishments by sector. More than three-quarters (82.0%) of privately owned establishments operate in the Services sector. Nearly 18 per cent are in the Industry (17.6%) sector, while less than one per cent operate in the Agriculture sector.

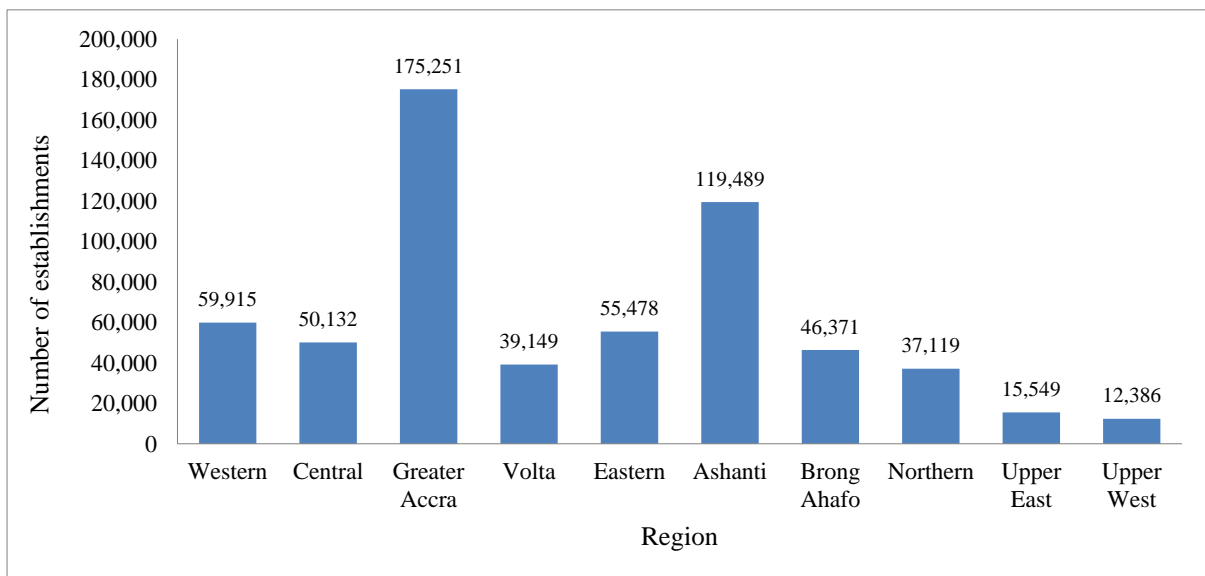
Figure 3.18: Distribution of privately owned establishments by sector



3.8.2.1 Regional distribution of privately owned establishments

The distribution of privately owned establishments by region shows that 28.7 per cent are in the Greater Accra region (175,251), while 19.6 per cent are in the Ashanti region. The Western region accounts for 9.8 per cent of privately owned establishments while Upper West has the least proportion, with about 2 per cent (Figure 3.19).

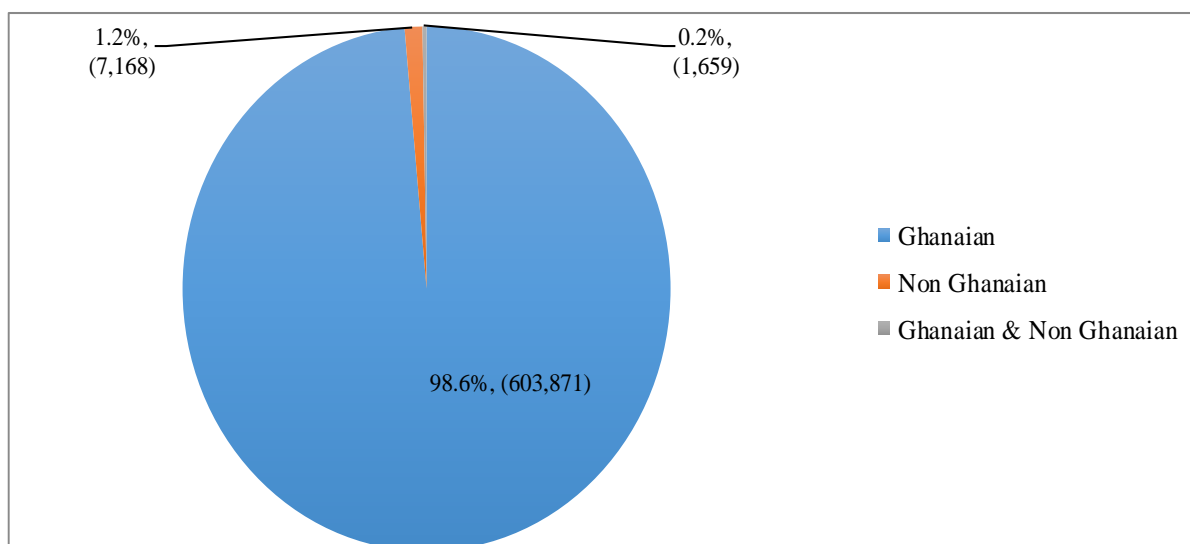
Figure 3.19: Distribution of privately owned establishments by region



3.8.2.3 Nationality of privately owned establishments by size

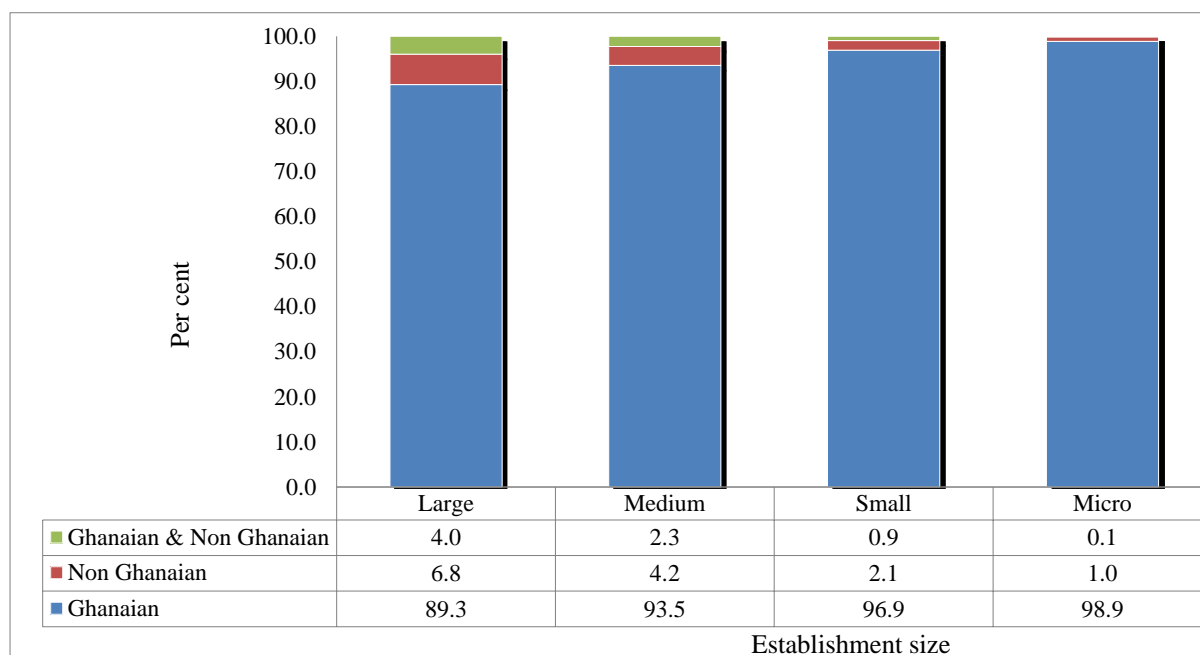
From Figure 3.20, it is clear that the majority of private establishments are owned by Ghanaians (98.6%), while 1.2 per cent are owned by non-Ghanaians and 0.2 per cent are jointly owned by Ghanaians and non-Ghanaians.

Figure 3.20: Distribution of private sector establishments by owners' nationality



The distribution of LSM establishments by nationality of ownership is illustrated in Figure 3.21. The Figure shows that the majority of LSM establishments are owned by Ghanaians, with micro-sized (98.9%) establishments being the highest proportion, followed by small-sized establishments (96.9%), medium-sized establishments (93.5%) and large-sized establishments (89.3%).

Figure 3.21: Distribution of privately owned LSM establishments by nationality



The proportion of LMSM establishments that are owned by non-Ghanaians is higher for large-sized establishments. Almost 7 per cent of large-sized establishments are owned by non-Ghanaians. However, the proportion is lower for medium-sized establishments (4.0%) and small-sized establishments (2.1%). Similarly, joint ownership between Ghanaians and non-Ghanaians is predominant among large-sized establishments.

3.9 Sector analysis of establishments

This section of the report discusses the regional and sub-sectoral distribution of non-household establishments in Ghana.

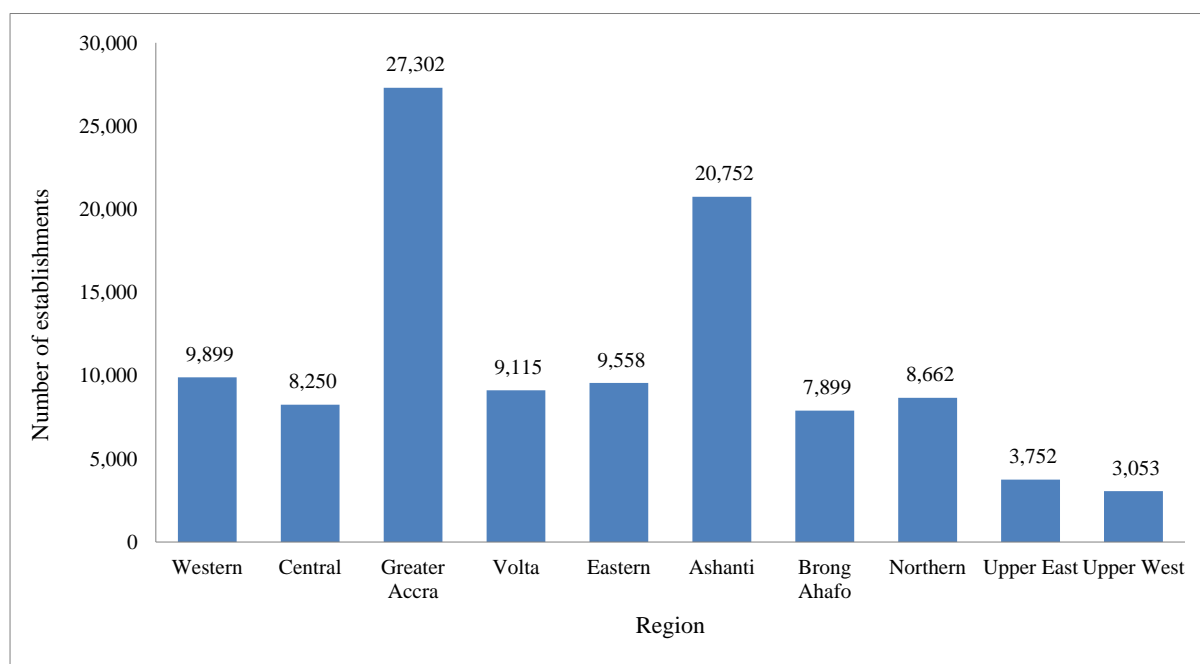
3.9.1 Industry sector

The Industry sector of Ghana is made up of five subsectors as classified by the International Standard Industrial Classification (ISIC revision 4). The subsectors are manufacturing, mining, quarrying, construction, electricity, gas, water supply and sewerage. Analysis in this section focuses on the regional sub-sectoral distributions.

3.9.2 Location of establishments in the Industry sector

Figure 3.22 shows the distribution of establishments in the Industry sector by region. This Figure reveals that the Greater Accra region (27,302) has the highest number of establishments in the Industry sector. This is followed by the Ashanti and Western regions, with 20,752 and 9,899 establishments respectively. Upper East and Upper West regions have fewer than four thousand establishments in the Industry sector (3,752 and 3,053 respectively).

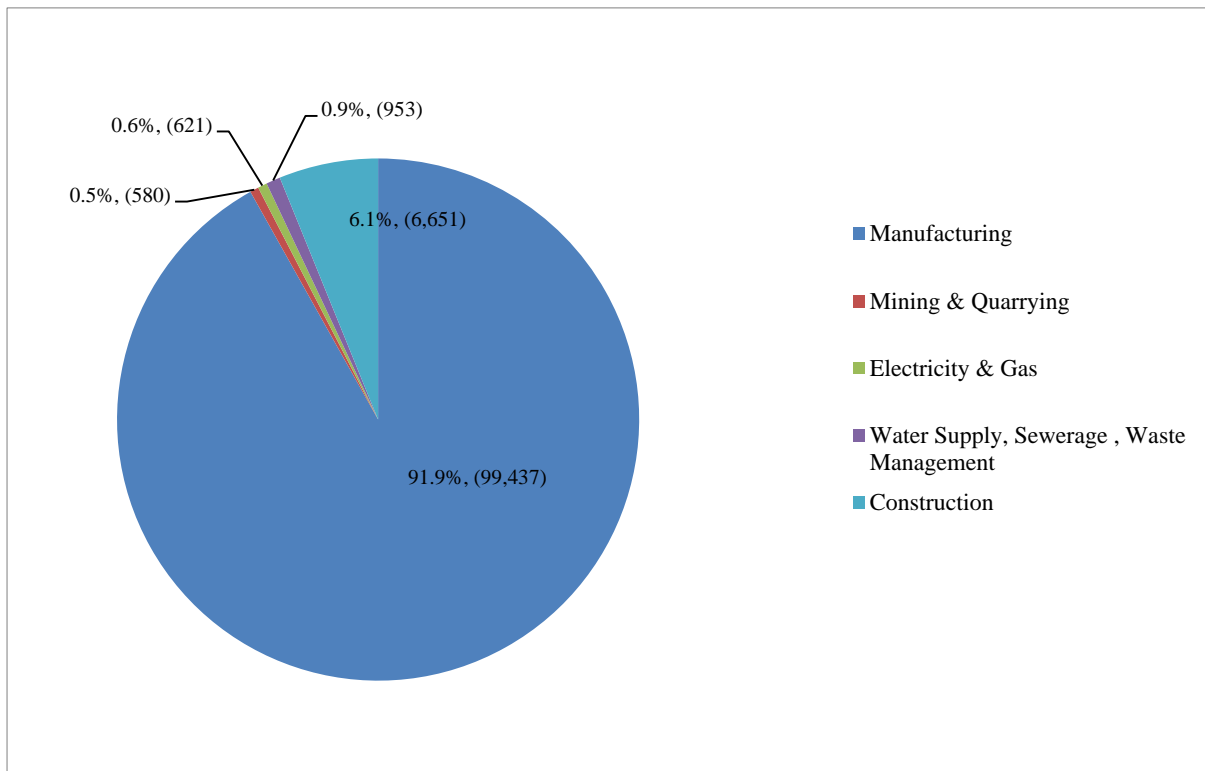
Figure 3.22: Regional distribution of establishments in the Industry sector



3.9.3 Establishments in the Industry subsectors

Figure 3.23 shows that in the Industry sector, the majority (91.9%) of the establishments are in the manufacturing subsector, followed by construction (6.1%). Water supply, sewage and waste management account for less than one per cent.

Figure 3.23: Distribution of establishments in the Industry sector by activity



3.9.4 Location of establishments in the Industry subsectors

The Greater Accra region has the highest number of manufacturing establishments (23.4%), with the Ashanti region recording the second highest (19.6%). The region with the least number of manufacturing establishments is the Upper West region (2.8%). Nearly half of the construction establishments (48.7%) are in the Greater Accra region, 13.3 per cent are in the Ashanti region, with the Upper East region accounting for 3.5 per cent (Table 3.3).

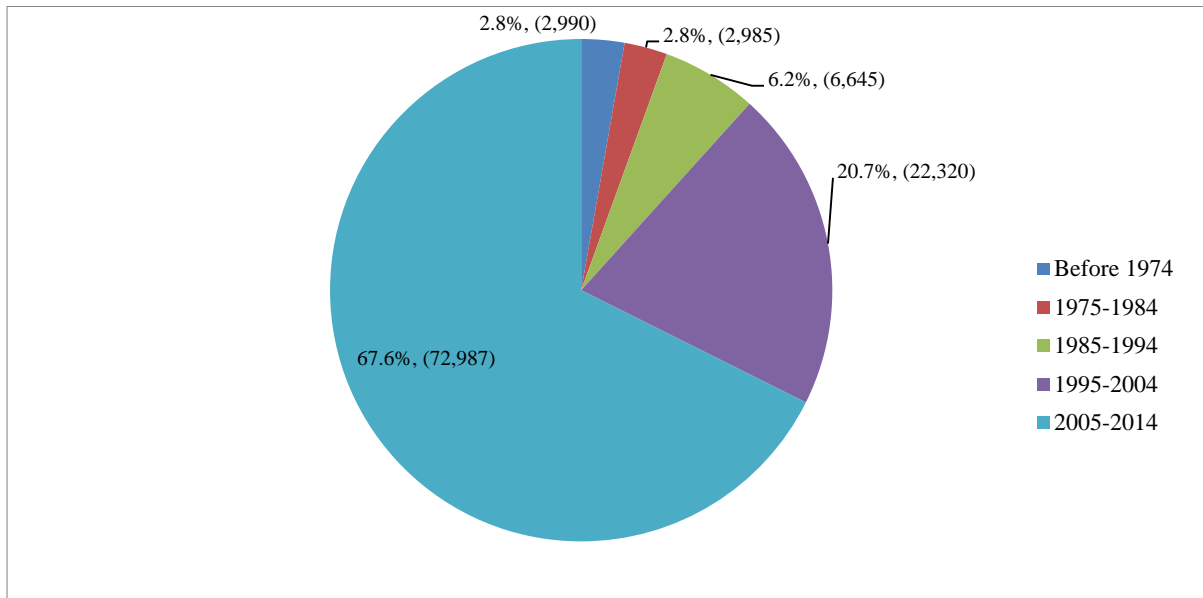
Table 3.3: Regional distribution of establishments in Industry subsectors

Region	All Industry		Manufacturing		Mining and Quarrying		Electricity and Gas		Water Supply, Sewage and Waste Management		Construction	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
National	108,242	100.0	99,437	100.0	580	100.0	621	100.0	953	100.0	6651	100.0
Western	9899	9.1	9,134	9.2	168	29.0	59	9.5	83	8.7	455	6.8
Central	8250	7.6	7,836	7.9	14	2.4	41	6.6	72	7.6	287	4.3
Greater Accra	27,302	25.2	23,313	23.4	260	44.8	264	42.5	224	23.5	3,241	48.7
Volta	9115	8.4	8,658	8.7	11	1.9	35	5.6	65	6.8	346	5.2
Eastern	9558	8.8	9,086	9.1	27	4.7	37	6.0	77	8.1	331	5.0
Ashanti	20752	19.2	19,483	19.6	69	11.9	84	13.5	231	24.2	885	13.3
Brong Ahafo	7899	7.3	7,430	7.5	8	1.4	30	4.8	83	8.7	348	5.2
Northern	8662	8.0	8,274	8.3	2	0.3	38	6.1	82	8.6	266	4.0
Upper East	3752	3.5	3,468	3.5	15	2.6	14	2.3	25	2.6	230	3.5
Upper West	3053	2.8	2,755	2.8	6	1.0	19	3.1	11	1.2	262	3.9

3.9.5 Year of commencement of establishments in the Industry sector

The distribution of establishments in the Industry sector by year of commencement is illustrated in Figure 3.24. Out of a total of 108,242 establishments in the Industry sector covered in the census, 2,990 commenced operation before 1975. About two-thirds of the establishments (72,987) in this sector commenced operation in the period 2005-2014.

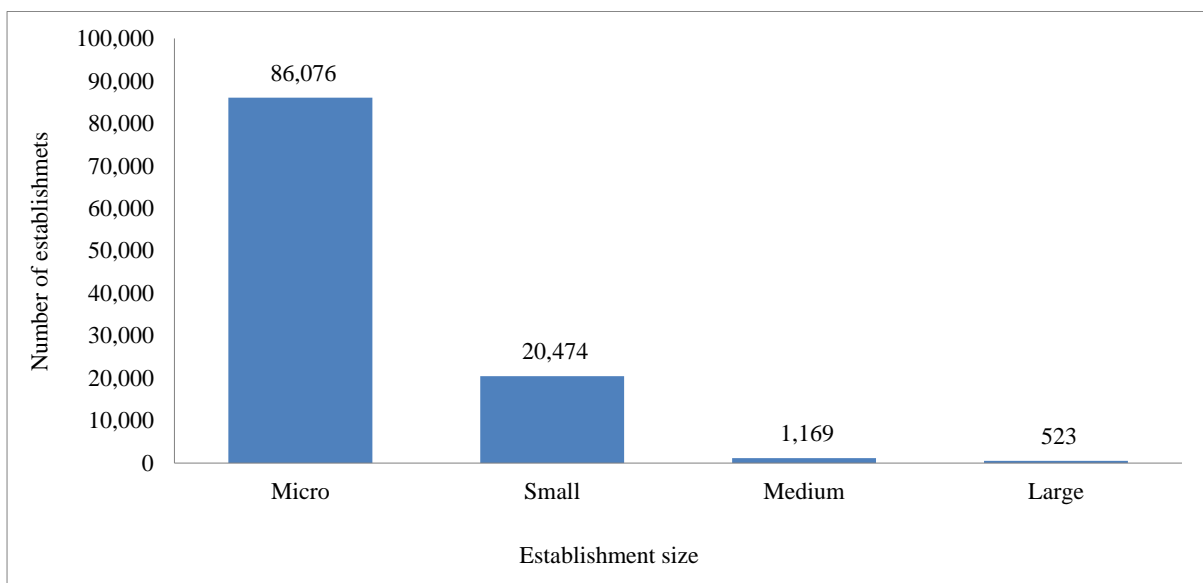
Figure 3.24: Distribution of establishments in the Industry sector by year of Commencement



3.9.6 Size classification of establishments in the Industry sector

Figure 3.25 shows the distribution of establishments in the Industry sector by size. The predominant size of establishments in the Industry sector is micro. Out of a total of 108,242 establishments in the Industry sector, 86,076 are micro-sized establishments and 20,474 are small-sized establishments. There are only 523 large establishments in the Industry sector.

Figure 3.25: Distribution of establishments in the Industry sector by size



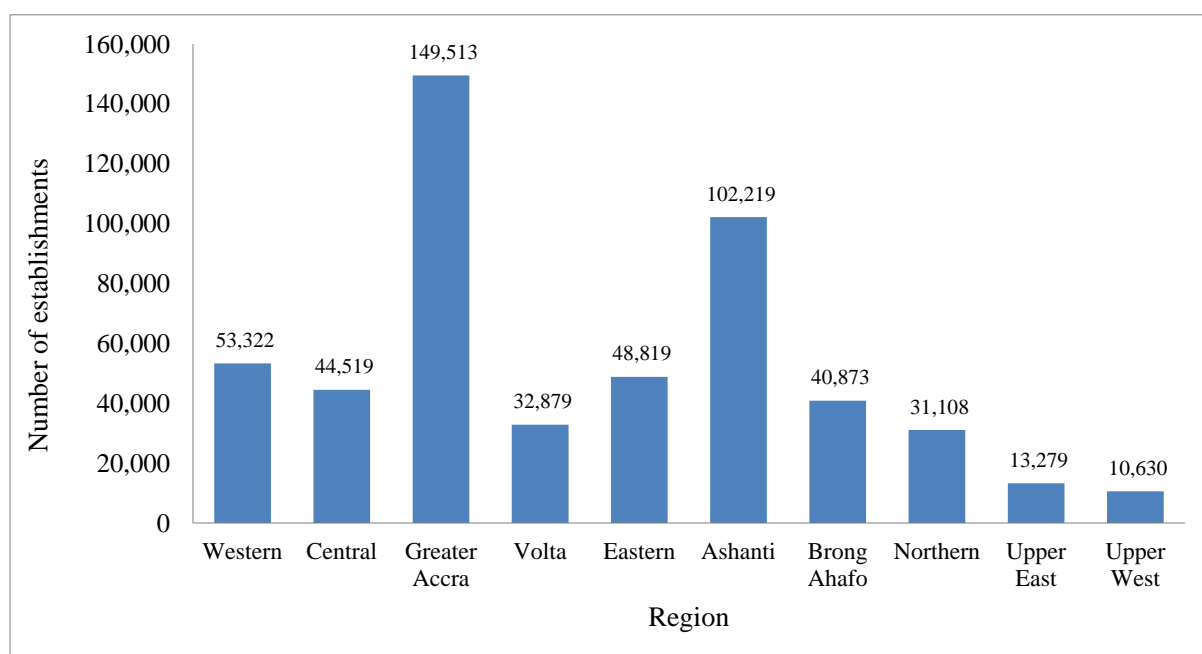
3.9.7 Services sector

The Services sector is made up of thirteen subsectors: wholesale and retail trade; arts, entertainment and recreation; human health and social work; education; public administration and defence; administrative and support service activities; professional, scientific and technical; real estate; financial and insurance; information and communication; accommodation and food; transportation and storage and other services. As observed for the Industry sector, analysis in this sector will focus on the regional sub-sectoral distribution.

3.9.8 Location of establishments in the Services sector

The distribution pattern of establishments in the Services sector by location, as shown in Figure 3.26, is similar to that of Industry. The Greater Accra region (149,513) has the highest number of establishments followed by the Ashanti region (102,219). Each of the other regions has less than 60,000 establishments, with the Upper East and Upper West regions having the lowest (13,279 and 10,630 respectively).

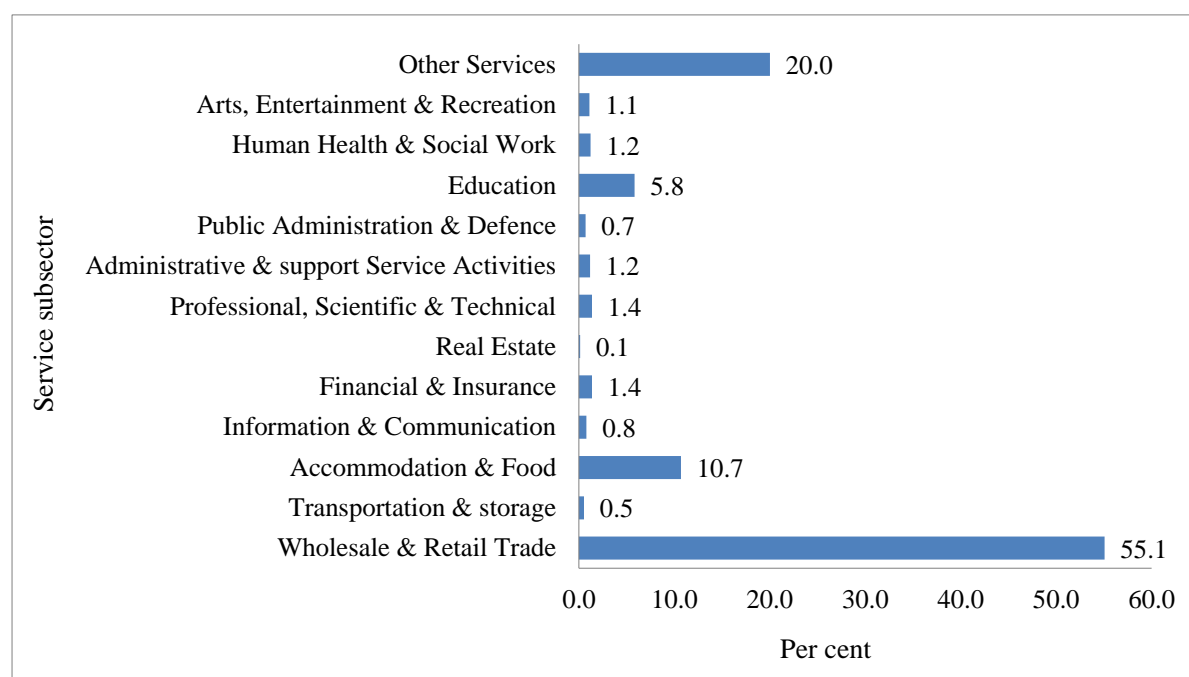
Figure 3.26: Distribution of establishments in the Services sector by region



3.9.9 Establishments in the Services subsectors

The distribution of establishments in the Services subsector, as illustrated in Figure 3.27, shows that more than half of the establishments (55.1%) are in the wholesale and retail trade subsector, followed by those engaged in other service activities (20%), accommodation and food (10.7%), and education (4.8%) subsectors. The other service activities group includes extraterritorial organizations and household jobs.

Figure 3.27: Distribution of establishments in the Services sector by activity



3.9.10 Location of establishments in the Services subsectors

The regional distribution of establishments in the Services subsector, as shown in Table 3.4, depicts that more than one-quarter (29.2%) of establishments in the wholesale and retail trade subsector are located in the Greater Accra region. About one-fifth of the establishments in the subsector (20.4) are located in the Ashanti region while the Upper East region has the least proportion (2.0%). In the accommodation and food subsector, about one-quarter of the establishments (26.0%) are in the Greater Accra region, 17.0 per cent are in the Ashanti region and 10.8 per cent are in the Western region.

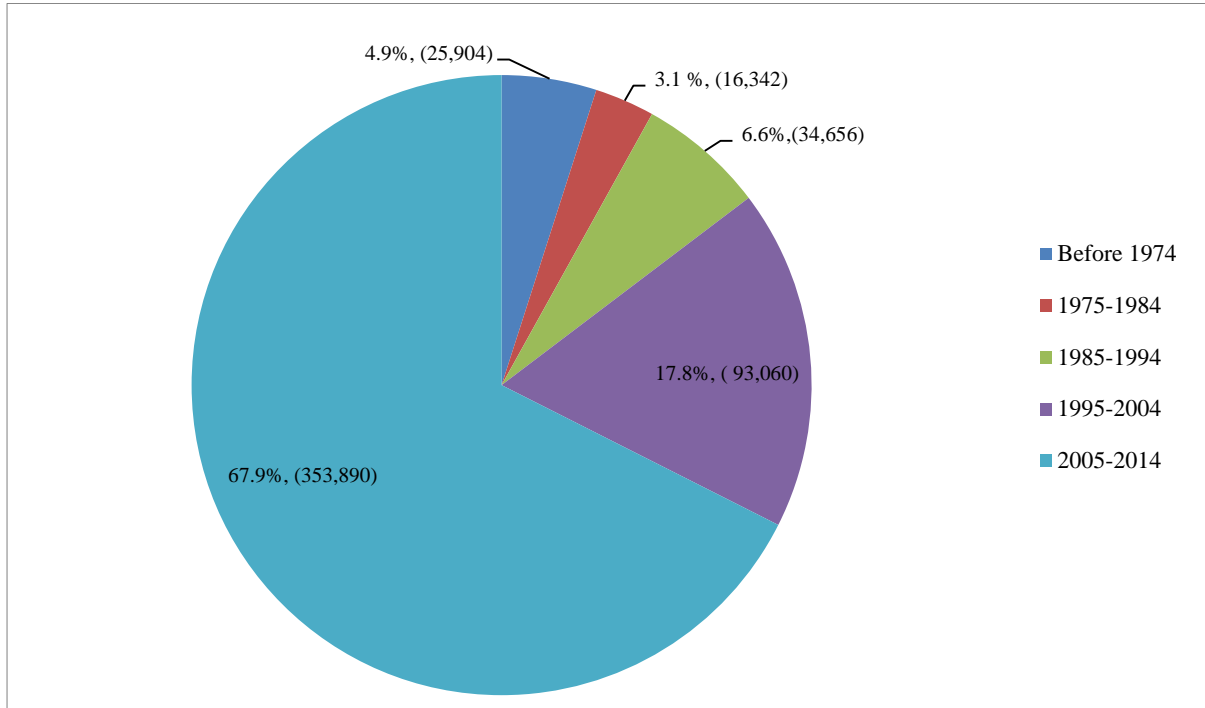
Table 3.4: Regional distribution of establishments in the Services subsectors (%)

Sub-sector	National	Region									
		Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Services	100.0	10.1	8.4	28.4	6.2	9.3	19.4	7.8	5.9	2.5	2.0
Wholesale and Retail Trade	100.0	10.3	8.1	29.2	5.5	9.0	20.4	7.6	5.7	2.2	2.0
Transportation and Storage	100.0	8.9	3.6	60.2	4.2	3.8	8.6	3.8	2.9	2.2	1.8
Accommodation and Food	100.0	10.8	8.9	26.0	8.8	9.9	17.0	8.2	4.5	3.6	2.4
Information and Communication	100.0	7.2	6.4	42.4	3.5	6.0	20.7	7.7	3.1	2.0	1.2
Financial and Insurance	100.0	8.9	7.9	40.9	4.6	7.7	15.0	8.8	3.5	1.4	1.3
Real Estate	100.0	3.9	3.3	80.6	1.7	1.8	5.9	1.2	0.6	0.3	0.6
Professional, Scientific and Technical	100.0	6.0	6.5	52.8	3.6	4.8	15.6	5.1	2.6	1.7	1.3
Administrative and Support Service Activities	100.0	8.4	8.0	42.5	5.4	7.3	16.0	4.5	4.5	1.9	1.5
Public Administration and Defence	100.0	8.9	9.9	16.0	10.4	11.8	14.7	12.0	7.0	5.3	4.0
Education	100.0	10.4	9.5	19.6	8.7	10.6	15.6	8.7	9.3	4.3	3.2
Human Health and Social Work	100.0	9.5	8.4	25.3	7.4	10.6	15.4	8.3	6.2	5.1	3.9
Arts, Entertainment and Recreation	100.0	2.9	9.5	32.7	4.4	5.4	34.3	6.7	1.8	1.5	0.8
Other Services ¹	100.0	10.2	9.3	25.2	6.7	10.0	19.5	8.1	6.9	2.3	1.7

3.9.11 Year of commencement of establishments in the Services sector

Figure 3.28 depicts the number of establishments that commenced operation in the Services sector according to the year they started operations. Out of a total of 527,161 establishments in the Services sector covered in Phase I of the IBES, the majority of them (353,890) commenced operation in the period 2005-2014. This number is more than three times the number of establishments that commenced operation in the period 1985-1994.

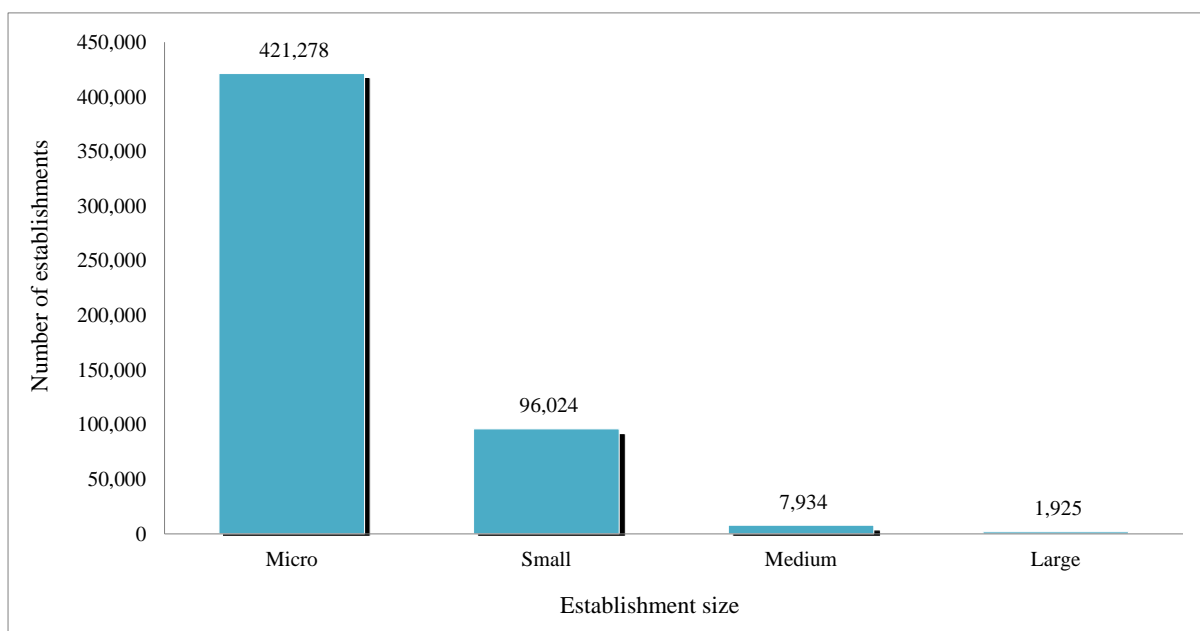
Figure 3.28: Establishments in the Services sector by year of commencement



3.9.12 Classification of establishments in the Services sector by size

The distribution of establishments by size, as shown in Figure 3.29, indicates that the Services sector has a large number of establishments classified as micro-sized. The distribution shows that 421,278 are micro, 96,024 are small, 7,934 are medium and 1,925 are large establishments.

Figure 3.29: Number of establishments in the Services sector by size

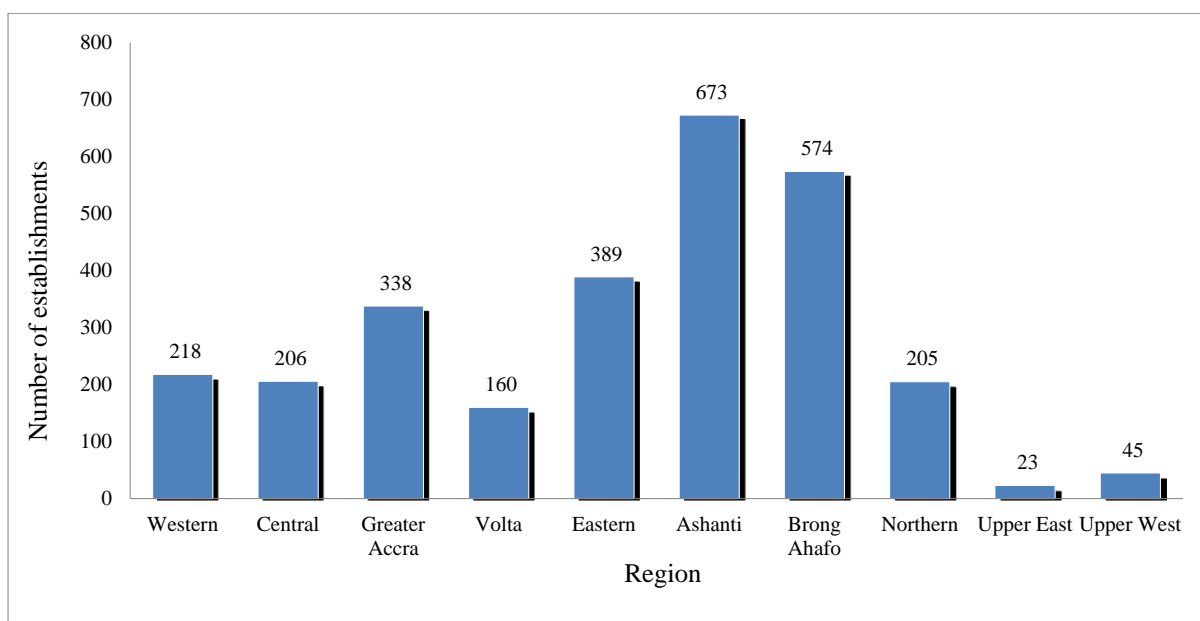


3.9.13 Agriculture (Institutional) sector

3.9.13.1 Location of establishments in the Agriculture sector

As a recall, the Agriculture (institutional) sector comprises agricultural activities managed by an establishment. The distribution of establishments in the Agriculture sector is illustrated by Figure 3.30, which shows that the Ashanti region (673) has the highest number, representing 23.8 per cent of the total number of establishments (2,831). This is followed by Brong Ahafo (574) and Eastern (389) regions. The Upper East region (23) has the least number of establishments in the Agriculture sector.

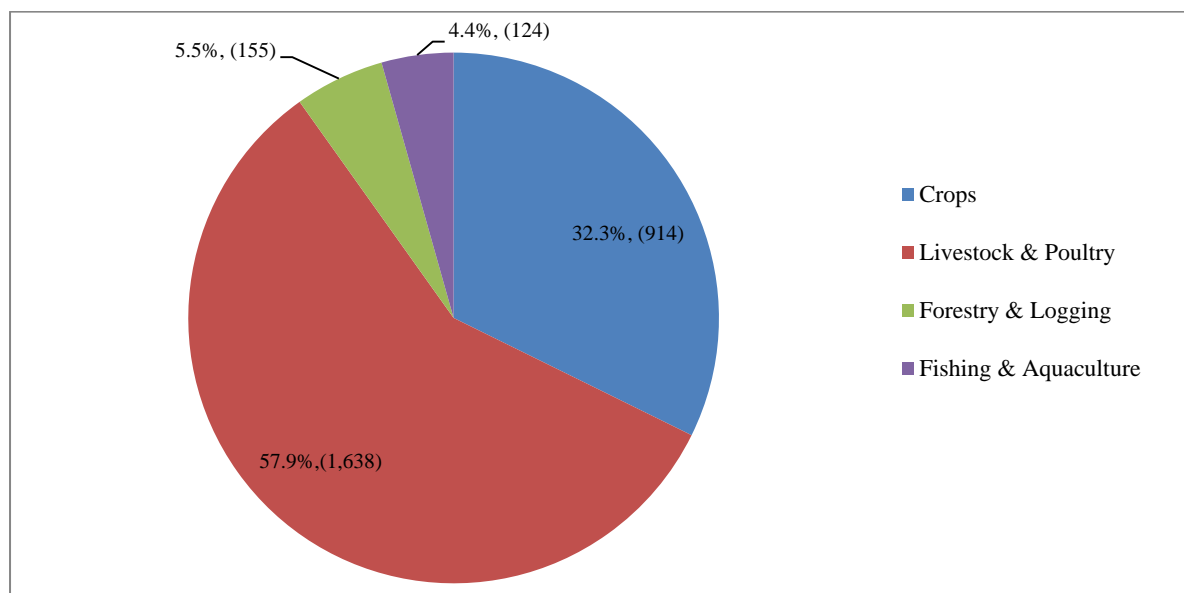
Figure 3.30: Distribution of establishments in the Agriculture sector by region



3.9.13.2 Establishments in the Agriculture subsectors

More than half (57.9%) of the establishments in the Agriculture sector are in the livestock and poultry subsector, while about one-third are in the crops subsector (32.3%). The forestry and logging (5.5%) and fishing and aquaculture (4.4%) subsectors have the lowest proportions (Figure 3.31).

Figure 3.31: Distribution of establishments in the Agriculture sector by activity



3.9.13.3 Location of establishments in the Agriculture subsectors

The regional distribution of the subsectors in the Agriculture sector, as presented in Table 3.5, depicts that the Ashanti region has the highest number of establishments in the livestock and poultry subsector (469), representing 28.6 per cent. This is followed by the Brong Ahafo region (27.4%), while the Upper East region recorded the lowest number of establishments in this subsector (9). For establishments in the crops subsector, the Eastern region recorded the highest proportion (22.9%), followed by Greater Accra (18.4%). The Upper West region (1.4%) has the least.

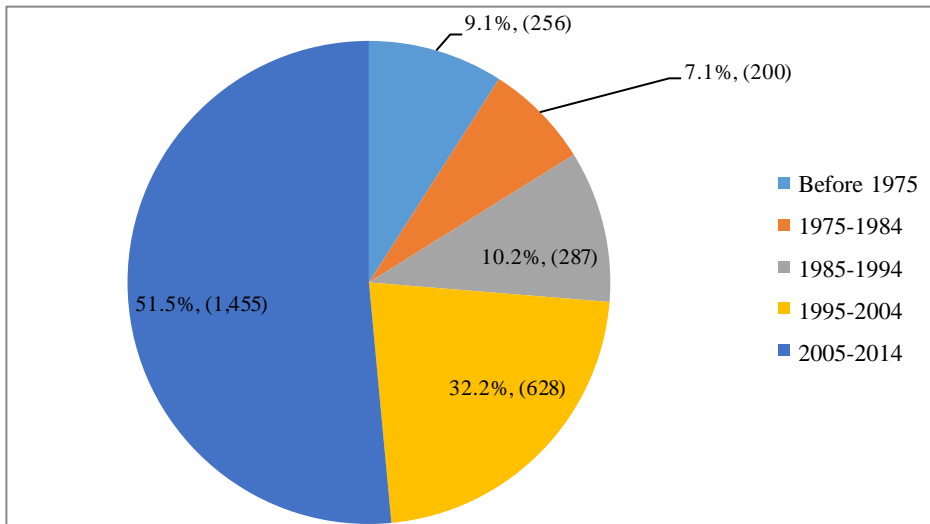
Table 3.5: Regional distribution of establishments in Agriculture subsectors

Region	Agriculture		Crops		Livestock and Poultry		Forestry and Logging		Fishing and Aquaculture	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
National	2,831	100.0	914	100.0	1,638	100.0	155	100.0	124	100.0
Western	218	7.7	109	11.9	76	4.6	25	16.1	8	6.5
Central	206	7.3	73	8.0	115	7.0	7	4.5	11	8.9
Greater Accra	338	11.9	168	18.4	126	7.7	15	9.7	29	23.4
Volta	160	5.7	43	4.7	93	5.7	12	7.7	12	9.7
Eastern	389	13.7	209	22.9	137	8.4	16	10.3	27	21.8
Ashanti	673	23.8	156	17.1	469	28.6	37	23.9	11	8.9
Brong Ahafo	574	20.3	70	7.7	449	27.4	34	21.9	21	16.9
Northern	205	7.2	46	5.0	149	9.1	6	3.9	4	3.2
Upper East	23	0.8	13	1.4	9	0.5	1	0.6	-	-
Upper West	45	1.6	27	3.0	15	0.9	2	1.3	1	0.8

3.9.13.4 Year of commencement of establishments in the Agriculture sector

Figure 3.32 depicts the distribution of establishments in the Agriculture sector by year of commencement of operations. Out of a total of 2,831 establishments in the sector, 1,455 representing 51.4 per cent commenced operations in the period 2005-2014. During the period 1995-2004, the number of establishments created (628) is less than half the number recorded for the period 2005-2014.

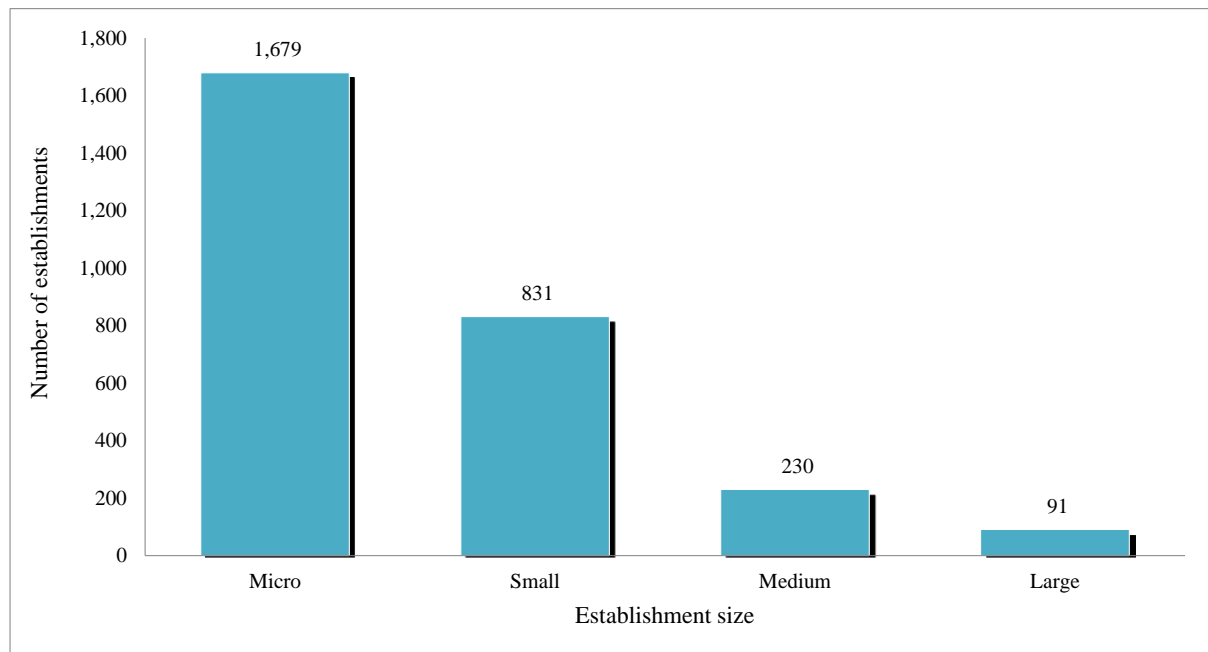
Figure 3.32: Distribution of establishments in the Agriculture sector by year of commencement



3.9.13.5 Size classification of establishments in the Agriculture sector

The distribution of establishments in the Agriculture sector by size, as illustrated in Figure 3.33, shows that the majority are micro (1,679), 831 are small and 230 are medium. Only 91 of the establishments in the Agriculture sector are large.

Figure 3.33: Distribution of establishments in the Agriculture sector by size



CHAPTER FOUR

PERSONS ENGAGED BY NON-HOUSEHOLD ESTABLISHMENTS

4.1 Introduction

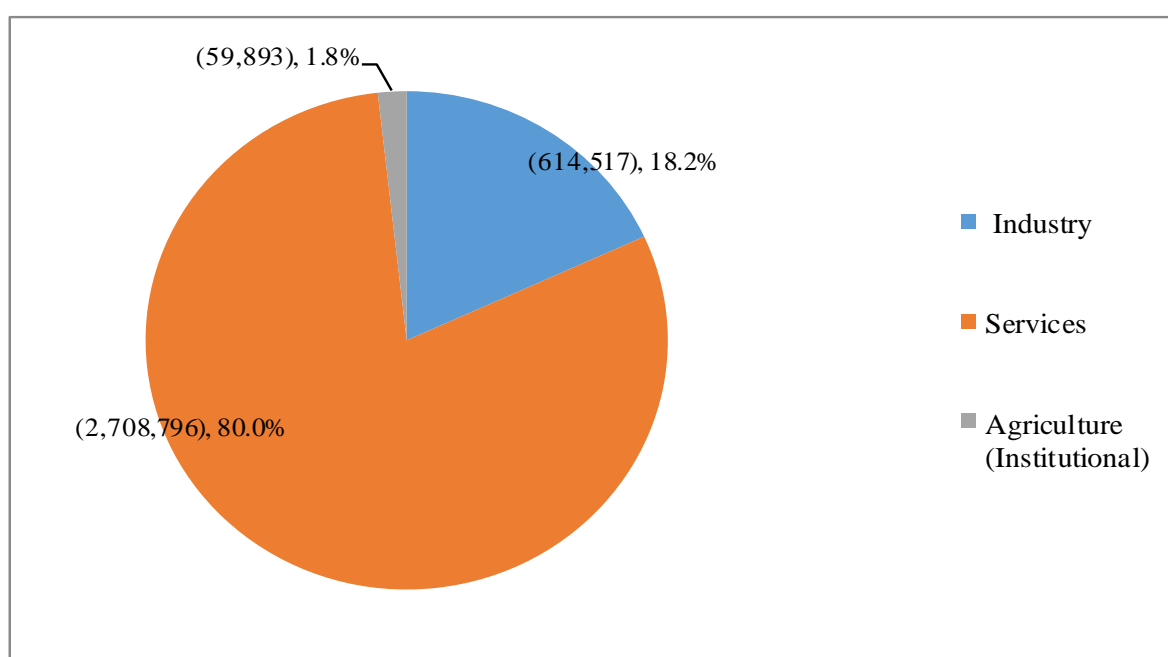
This chapter presents information on the distribution of persons engaged by non-household establishments in the country, following the conduct of the first phase of the Integrated Business Establishment Survey (IBES), an economic census undertaken in 2014. The chapter analyses the distribution of persons engaged by establishments according to their characteristics such as geography, sector, nationality, ownership, year of commencement and size classification. These characteristics are examined generally, and in more detail for specific sectors.

Further analysis in this chapter provides information to help tackle employment differentials that are gender-related. Primarily, sex disaggregated data on persons engaged by establishments is considered by sector, size (classification of establishments according to number of persons engaged), type of legal organization, status of engagement and nationality of ownership of establishments. Additionally, more detailed data drawn from the first phase of the IBES is provided in the Appendices section of this document.

4.2 Persons engaged in sectors

This section examines persons engaged by the major sectors of the economy. The data indicate that out of the 3,383,206 persons engaged in non-household establishments, 2,708,796 are engaged in the Services sector, accounting for 80.0 per cent, and 614,517 persons are engaged in the Industry sector, constituting 18.2 per cent. Agriculture (Institutional) engages the least (59,893) number of persons among the three sectors, representing only 1.8 per cent (Figure 4.1)

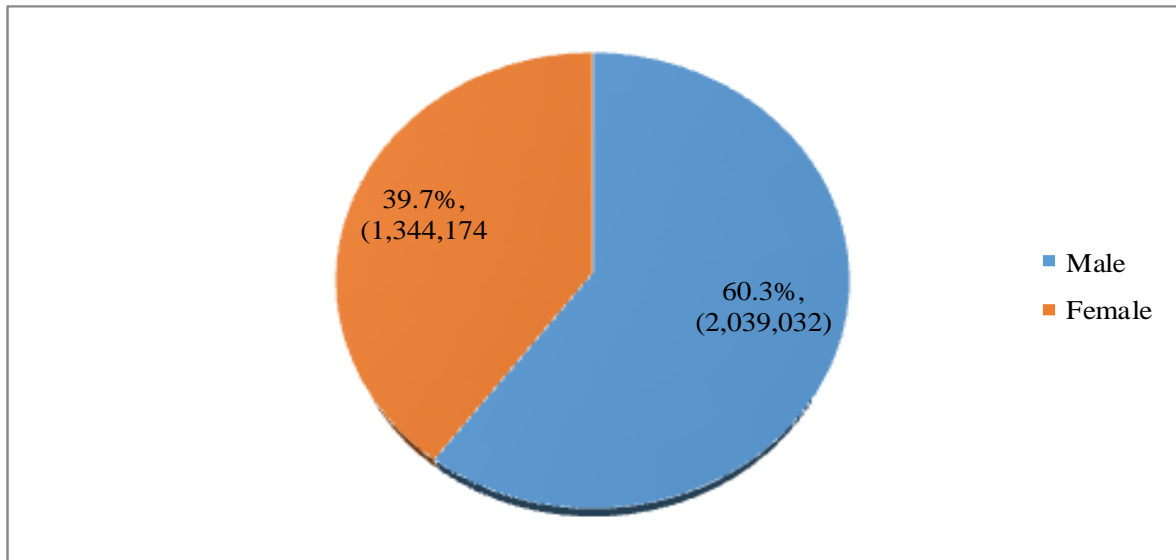
Figure 4.1: Distribution of persons engaged by sector



4.3 Sex disaggregation of persons engaged in establishments

The census shows that a total of 3,383,206 persons are engaged in non-household establishments in Ghana. Of this total, 2,039,032 are males, representing 60.3 per cent, and 1,344,174 are females, accounting for 39.7 per cent (Figure 4.2).

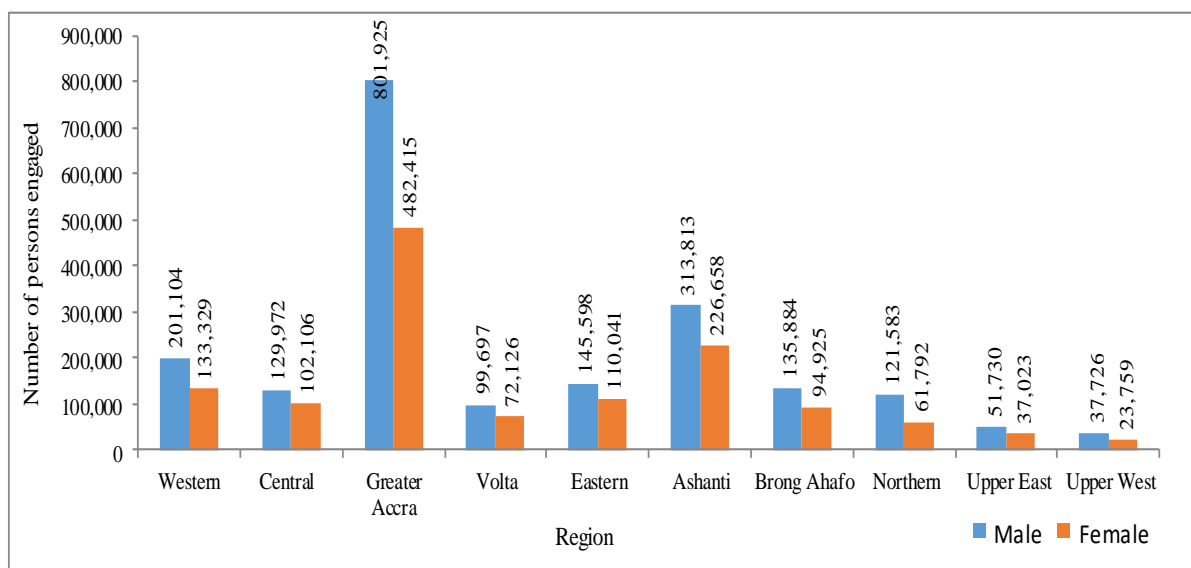
Figure 4.2: Distribution of persons engaged by sex



4.3.1 Sex disaggregation of persons engaged by location

The disaggregation of the data on persons engaged by sex in all sectors of the economy is illustrated in Figure 4.3, which depicts that in all regions there are more males than females. A total of 1,284,340 persons, constituting 38.0 per cent of the persons engaged in all sectors, are in the Greater Accra region, out of which males (801,925) are about twice the number of females (482,415).

Figure 4.3: Regional distribution of persons engaged by sex

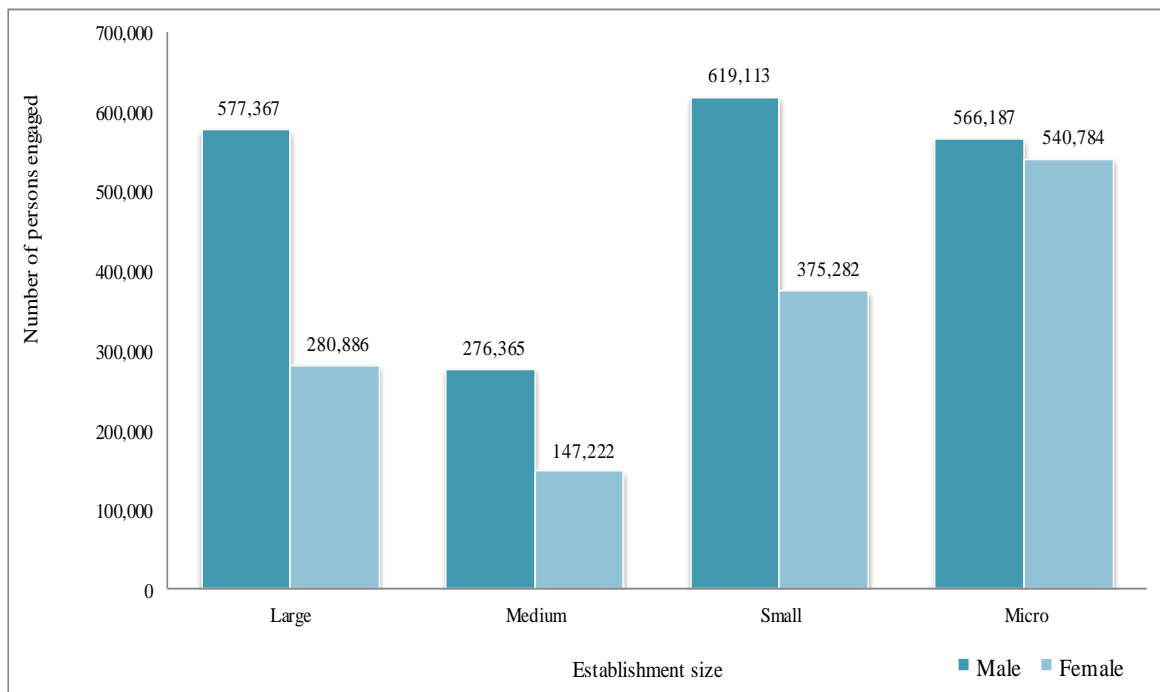


Similarly, in the Ashanti region, which has the second highest number (540,471) of persons engaged, males account for more than half (313,813) of the total number of persons engaged. The Upper West region has the lowest number (61,485) of persons engaged in all sectors among the regions, with more males (61.4%) than females (38.6%).

4.3.2 Sex disaggregation of persons engaged in large, medium, small and micro (LMSM) establishments

The distribution of persons engaged by LMSM establishments by sex, illustrated in Figure 4.4, reveals that while micro-sized establishments engage more persons relative to other LMSM establishments, the distribution of persons engaged by sex is very similar (male 566,187; female 540,784). However, in the case of both large- and medium-sized establishments, the number of males engaged is about twice that of females (577,367 against 280,886 and 276,365 against 147,222 respectively). Furthermore, about six out of every ten persons engaged in small-sized establishments are males.

Figure 4.4: Distribution of persons engaged by size of establishments

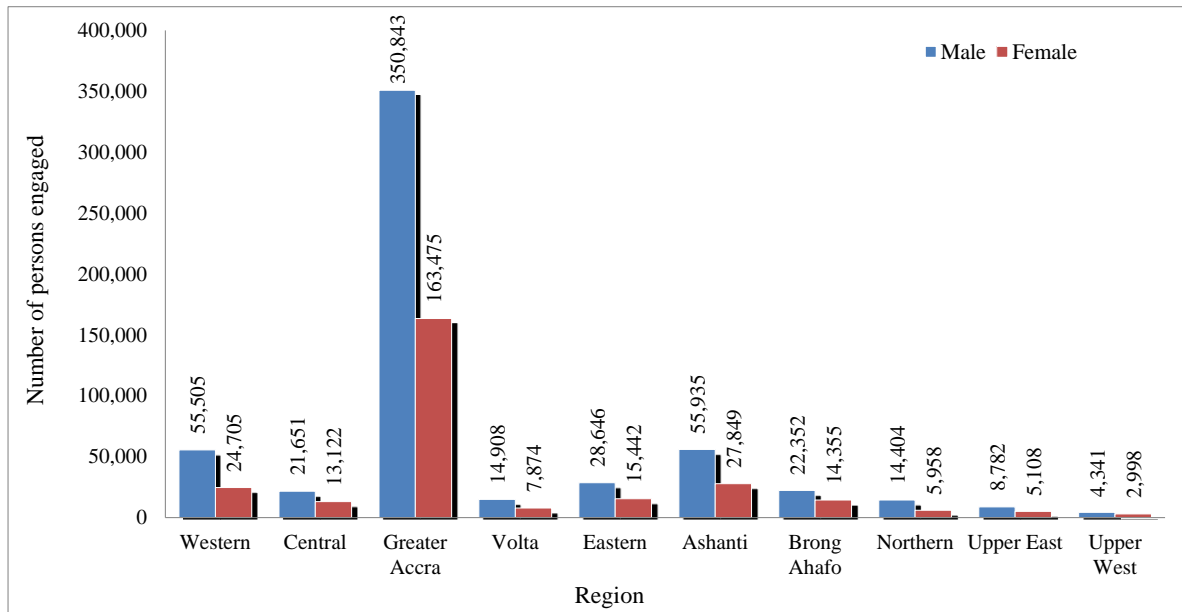


4.3.3 Large-sized establishments

The sex distribution of the number of persons engaged in large-sized establishments across the regions, as illustrated in Figure 4.5, again shows that there are more males than females in all ten regions, with the Greater Accra, Ashanti and Western regions having more than twice as many males as females.

The distribution reveals that establishments in the Greater Accra region engage 350,843 males (68.2%) compared with 163,475 females (31.8%). Ashanti region has the second highest number of large-sized establishments, engaging 55,935 males and 27,849 females. The Western region follows with 55,505 males and 24,705 females. Furthermore, establishments in these three regions together engage more than three-quarters (79.0%) of the total number of persons engaged in large-sized establishments.

Figure 4.5: Distribution of persons engaged in large-sized establishments by sex and region

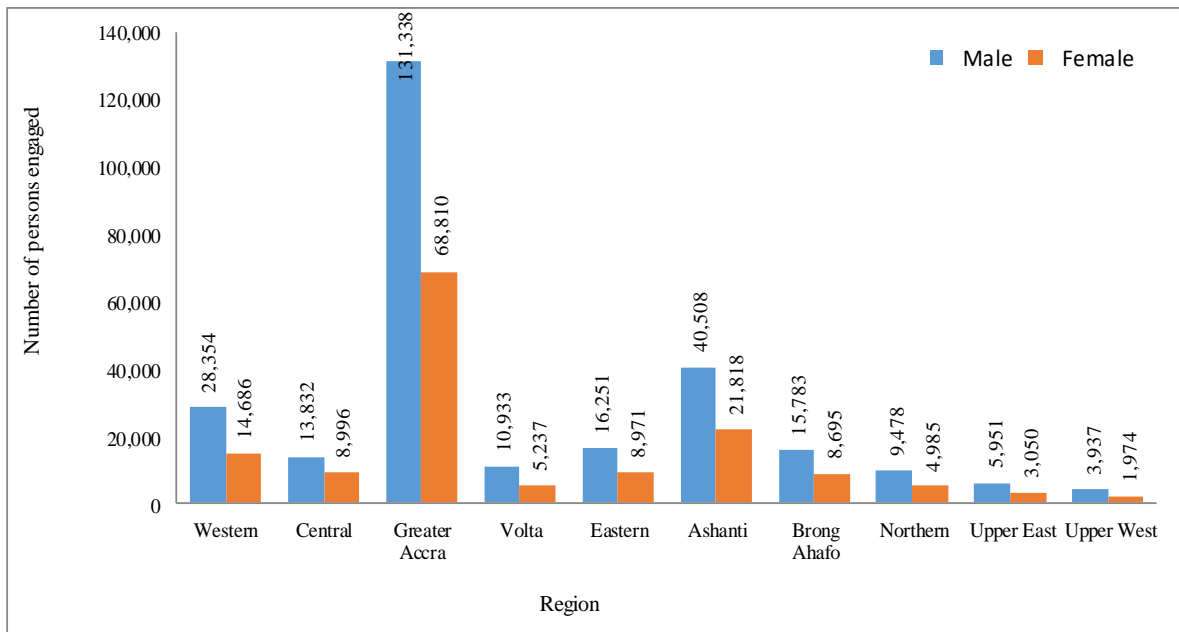


4.3.4 Medium-sized establishments

The distribution of the number of persons engaged by medium-sized establishments, illustrated in Figure 4.6, exhibits relatively lower levels of engagement but a similar sex distribution pattern across the regions compared with large-sized establishments. It is observed that the number of persons engaged in medium-sized establishments across the ten regions is skewed towards males. Again, the majority (72.1%) of persons engaged are in the Greater Accra, Ashanti and Western regions.

The distribution reveals that the number of males (131,338) engaged by establishments in the Greater Accra region is about twice that of females (68,810). The sex distribution for establishments in the Ashanti region follows the same pattern: the number of females (21,818) engaged is about half that of males (40,508). This is also the case for medium-sized establishments in the Upper West region which engaged the least number of males (3,937) and females (1,974).

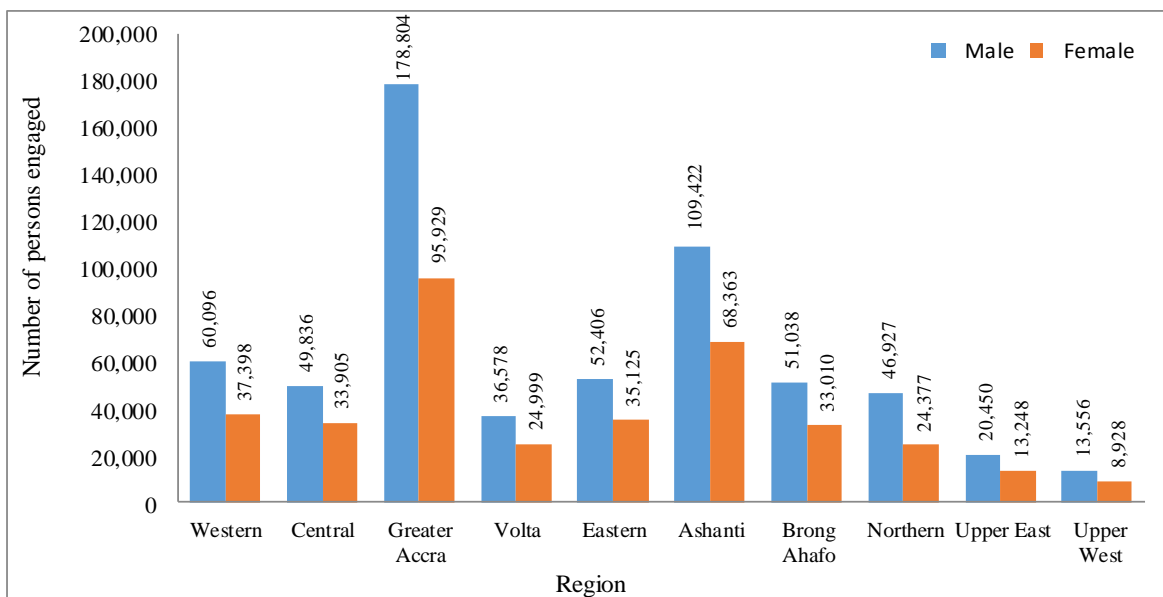
Figure 4.6: Distribution of persons engaged in medium-sized establishments by sex and region



4.3.5 Small-sized establishments

Figure 4.7 shows the distribution of the sex of persons engaged by small-sized establishments across the ten regions. It indicates that more males than females are engaged in these establishments across the ten regions. Similarly, it is observed that the Ashanti region (males 109,422 and females 68,363) follows the Greater Accra region in terms of the number of males (178,804) and females (95,929) engaged by small-sized establishments. The Upper West region engaged the least number of males (13,556) and females (8,928).

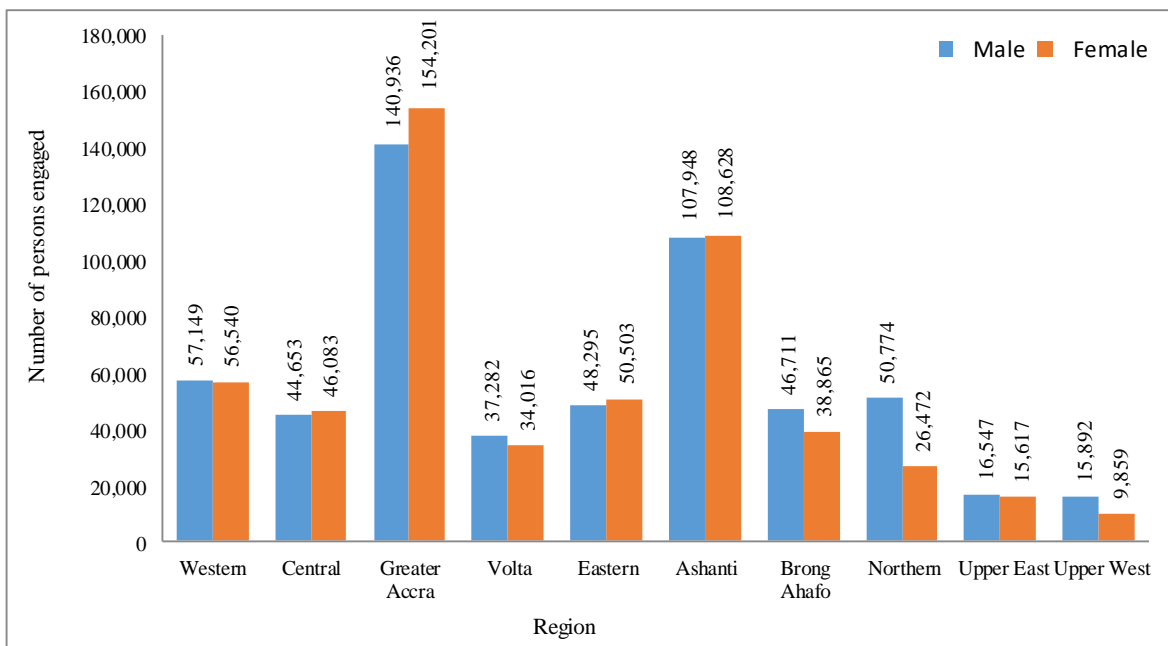
Figure 4.7: Distribution of persons engaged in small-sized establishments by region and sex



4.3.6 Micro-sized establishments

The distribution of persons engaged by micro-sized establishments by sex across the ten regions is as shown in Figure 4.8. From the Figure, it is apparent that though the pattern of distribution of persons engaged is similar to that of the other sized establishments, the micro-sized grouping exhibits a different sex distribution. There are more males than females engaged by micro-sized establishments in all regions except for the Greater Accra (140,936 males and 154,201 females), Ashanti (107,048 males and 108,628 females), Eastern (48,295 males and 50,503 females) and Central (44,653 males and 46,083 females) regions.

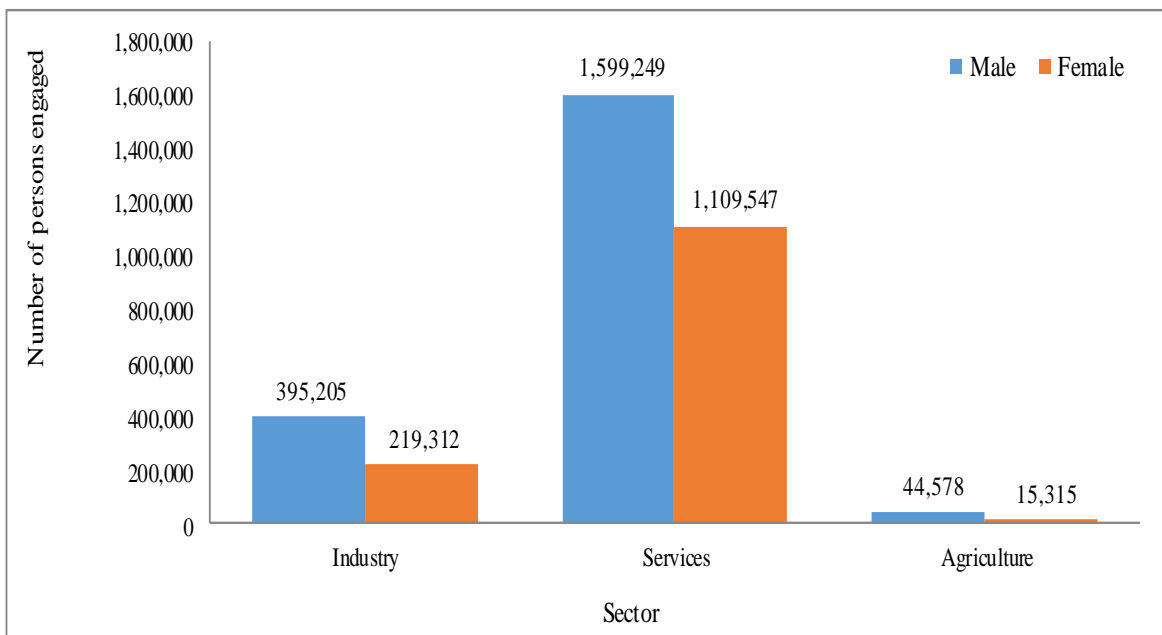
Figure 4.8: Distribution of persons engaged in micro-sized establishments by sex and region



4.3.7 Sex disaggregation of persons engaged by sector of establishments

Figure 4.9 illustrates the sex distribution of persons engaged by establishments in the three sectors. The Figure shows that while establishments in the Services sector engaged the highest number of persons compared with Industry and Agriculture, more males than females are engaged in all three sectors. There are 1,599,249 males, representing 59.0 per cent of persons engaged in establishments in the Services sector, compared with females (1,109,547) who constitute 41.0 per cent.

Figure 4.9: Distribution of persons engaged by sector and sex

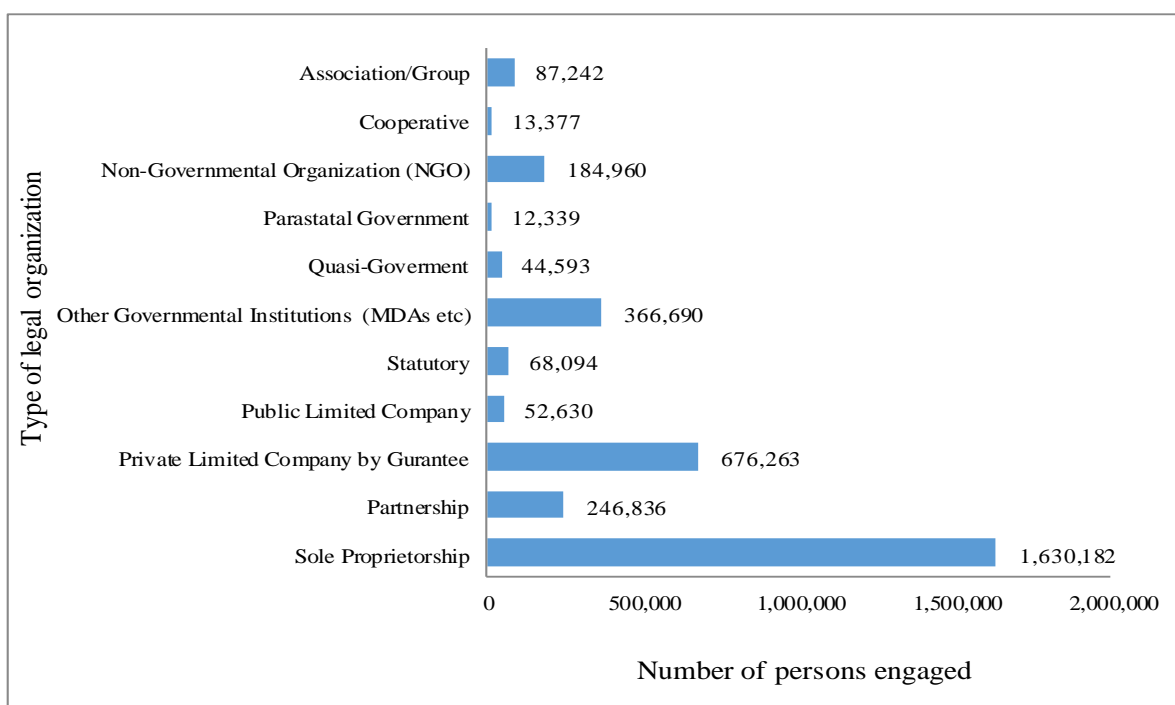


4.3.8 Legal status of establishments

This section of the report examines persons engaged by establishments classified according to the type of legal status. The census adopted the definition of legal status classification of establishments as applied by the Registrar General’s Department (RGD). In all, there are eleven classifications: sole proprietorship, partnership, public limited liability company, private limited liability company, statutory, quasi-governmental organization, parastatal, NGO, cooperatives, associations/groups and other governmental institutions such as ministries, departments and agencies (MDAs).

Among the eleven categories, establishments operating as sole proprietorships engaged 1,630,182 persons, representing almost half (48.2%) of all persons engaged in non-household establishments. This is followed by private limited companies by guarantee (676,263), with parastatal organizations (12,339) and cooperatives (13,377) each engaging less than one per cent (Figure 4.10).

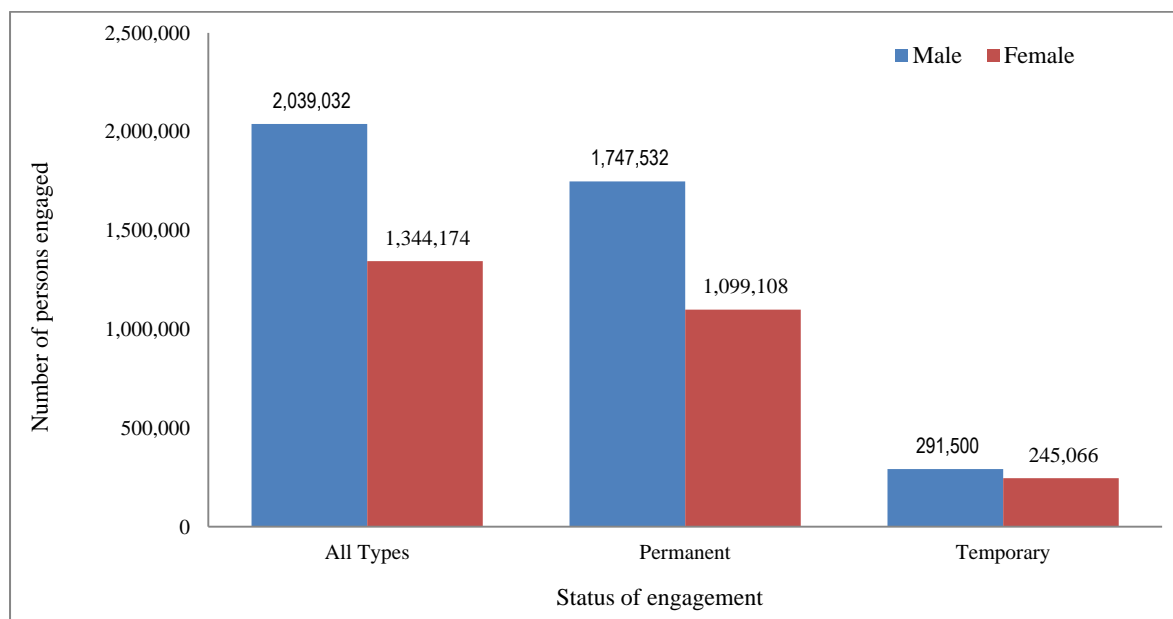
Figure 4.10: Distribution of persons engaged by type of legal organization



4.3.9 Status of persons engaged

The types or status of engagement being considered in this report are permanent and temporary. There are more permanent persons engaged than temporary. Eight out of every ten persons engaged in non-household establishments have permanent status. From Figure 4.11, it can be seen that both statuses of engagement show more males than females. A total of 1,747,532, representing 61.4% of permanently engaged persons, are males. For temporary engagement, a little over half (54.3%) are males, with females constituting 45.7 per cent.

Figure 4.11: Distribution of persons engaged by status of engagement

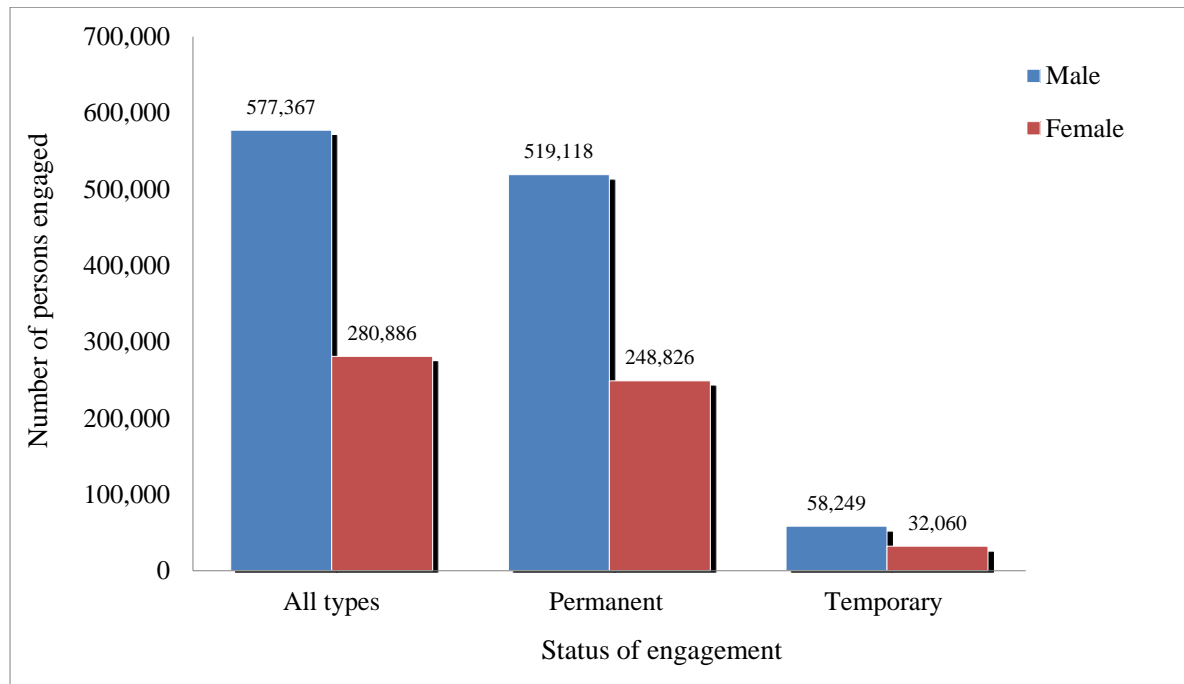


4.3.10 Status of persons engaged in establishments

4.3.10.1 Large-sized establishments

Figure 4.12 shows that more than two-thirds of persons engaged by large-sized establishments are males. This pattern is exhibited for both permanent and temporary persons engaged. A total of 519,118, representing about two-thirds of permanent persons engaged, are males, while 248,826 are females. Similarly, 58,249 out of a total of 90,309 temporary persons engaged are males, with the remainder (32,060) being females.

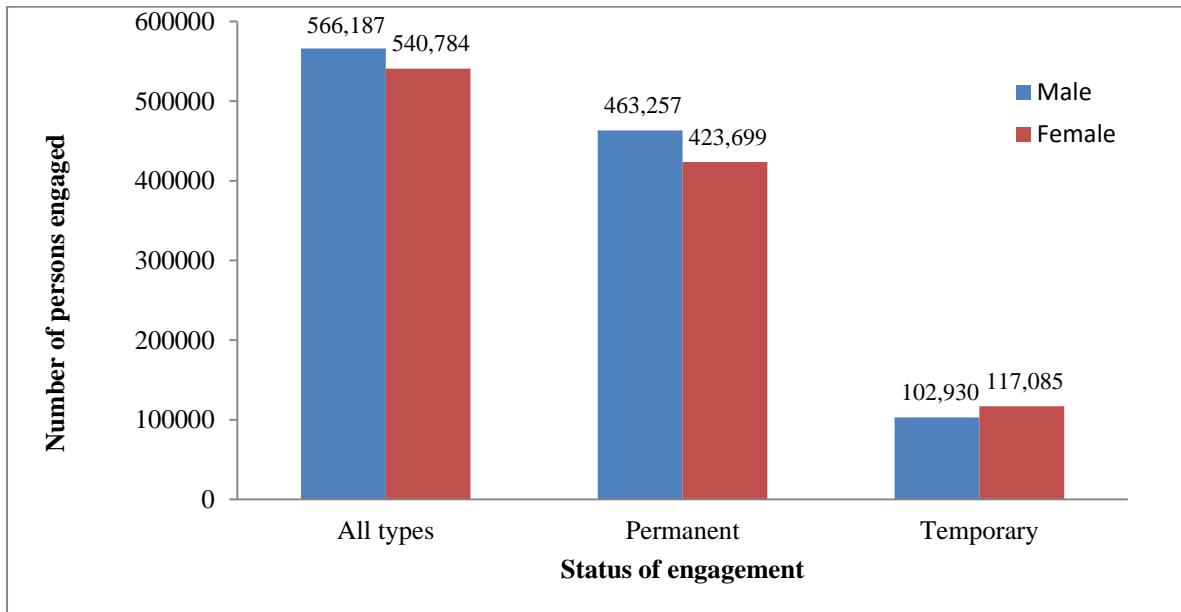
Figure 4.12: Number of persons engaged in large-sized establishments by status and sex



4.3.10.2 Medium-sized establishments

The sex disaggregated data on persons engaged by medium-sized establishments, as illustrated in Figure 4.13, indicates that about two out of every three persons engaged are males. The pattern is similar for permanent and temporary persons engaged in medium-sized establishments. A total of 249,199, representing 65.5 per cent of permanent persons engaged, are males. Similarly, of the temporary persons engaged, 27,166 are males and 15,747 are females.

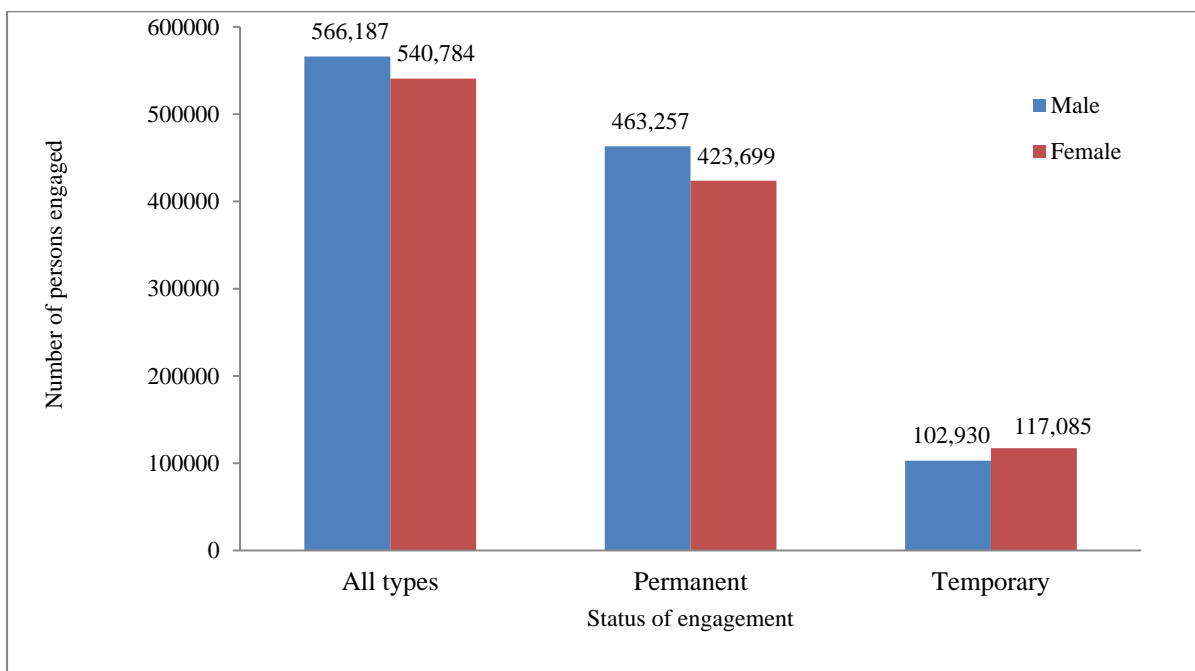
Figure 4.13: Distribution of persons engaged in medium-sized establishments by status and sex



4.3.10.3 Small-sized establishments

Figure 4.14 indicates that about two out of every three persons engaged by small-sized establishments are males. The pattern is similar for permanent and temporary persons engaged in these establishments. Out of 811,066 permanently engaged persons, 63.6 per cent are males and 36.4 per cent are females. Similarly, out of the total number of temporarily engaged persons, 103,155 are males and 80,174 are females.

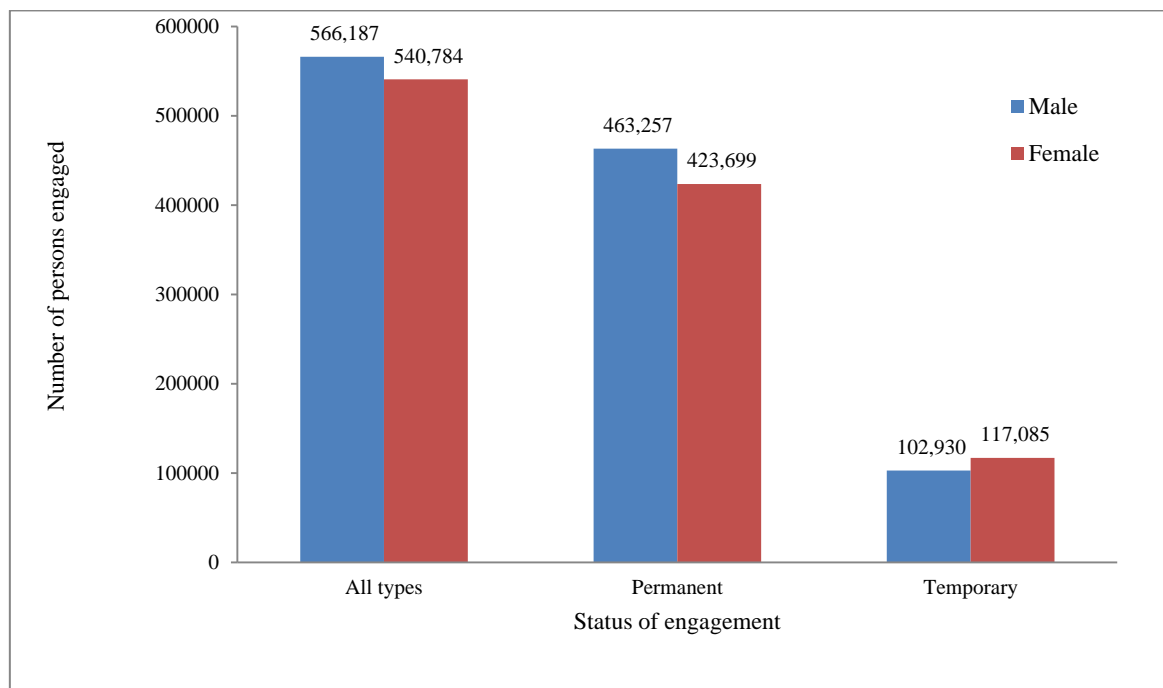
Figure 4.14: Distribution of persons engaged in small-sized establishments by status and sex



4.3.10.4 Micro-sized establishments

The distribution of persons engaged in micro-sized establishments according to status of engagement, as shown in Figure 4.15, shows that the proportion of males permanently engaged is 52.2 per cent compared with 47.8 per cent for females. However, for the persons engaged temporarily, there are more females (117,085) than males (102,930).

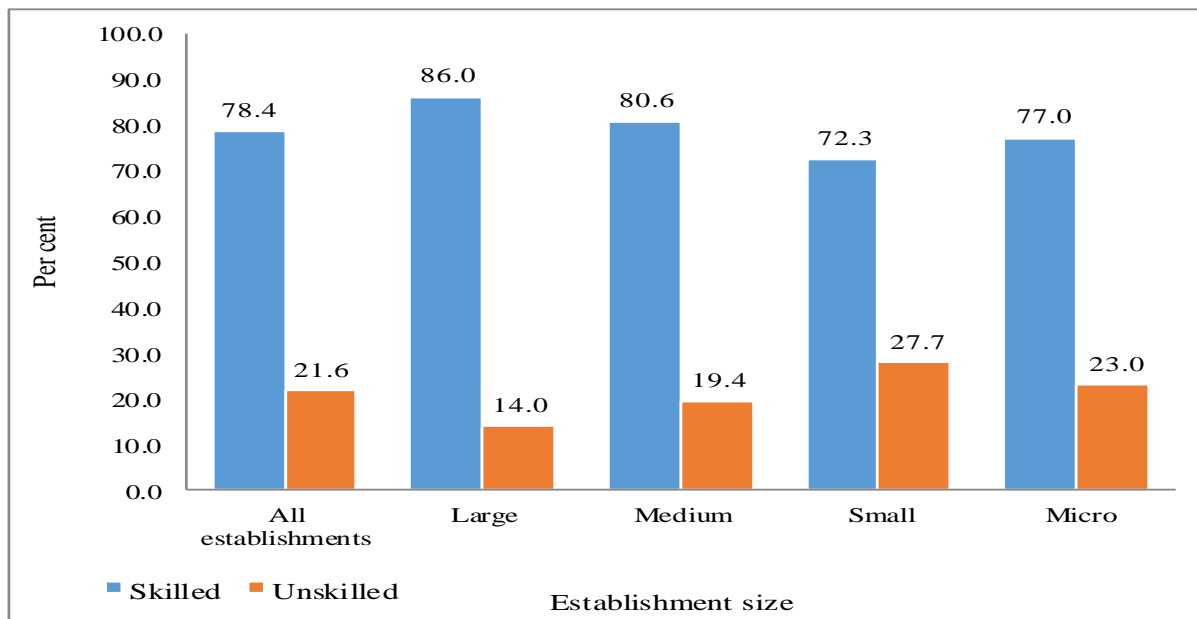
Figure 4.15: Distribution of persons engaged in micro-sized establishments by status and sex



4.4 Skilled and unskilled persons engaged in LMSM establishments

In this section, we examine the skill status of persons engaged in establishments in terms of whether the person is skilled or unskilled. The census considered skilled persons as those who are engaged in their field of training; otherwise they were considered unskilled. Figure 4.16 illustrates the distribution of persons engaged by establishments according to their skill status. More than three-quarters (78.4%) of persons engaged by establishments are skilled. This pattern is similar for each of the other establishment size groupings, except for small-sized establishments, which engage more than one-quarter (27.7%) of persons that are unskilled.

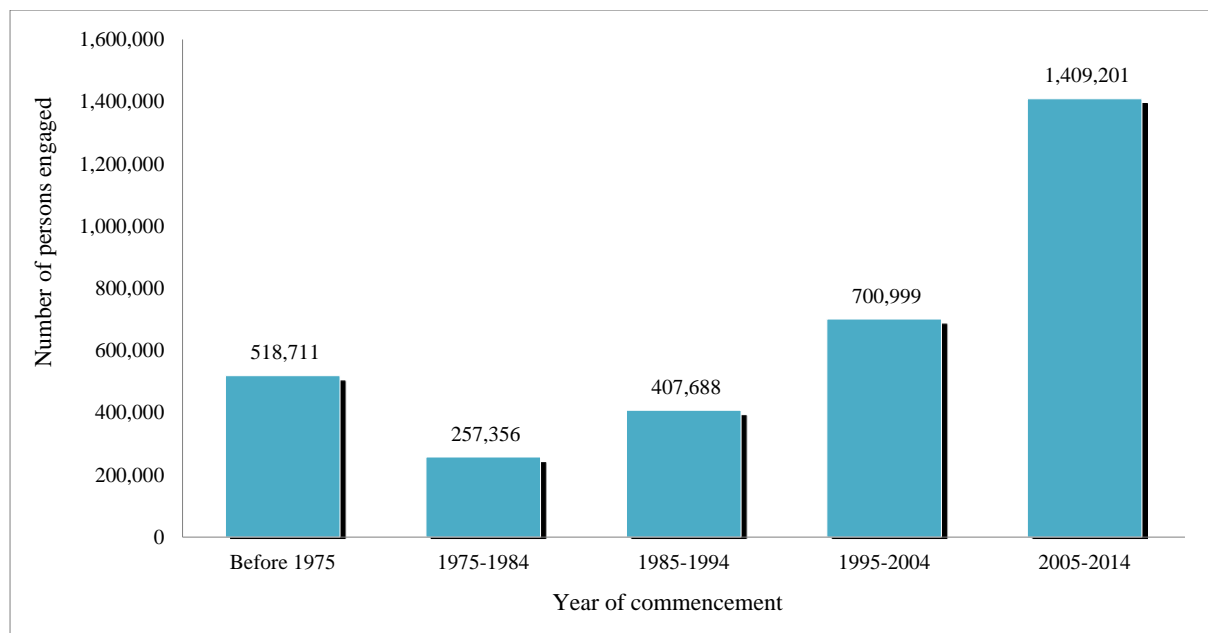
Figure 4.16: Distribution of persons engaged by skill status



4.5 Persons engaged by year of commencement of establishments

Figure 4.17 shows the distribution of persons engaged by establishments classified by the year of commencement. Overall, newly created establishments engaged more persons than older ones. From a total of 3,383,206 persons engaged, 1,409,201, representing 41.7%, were engaged by establishments created in the period 2005-2014, compared to 700,999 persons engaged by establishments created in the previous period (1995-2004). Similarly, the number of persons engaged by establishments created in the period 1985-1994 (407,688) is higher than those engaged by establishments that commenced operation ten years earlier.

Figure 4.17: Distribution of persons engaged by year of commencement



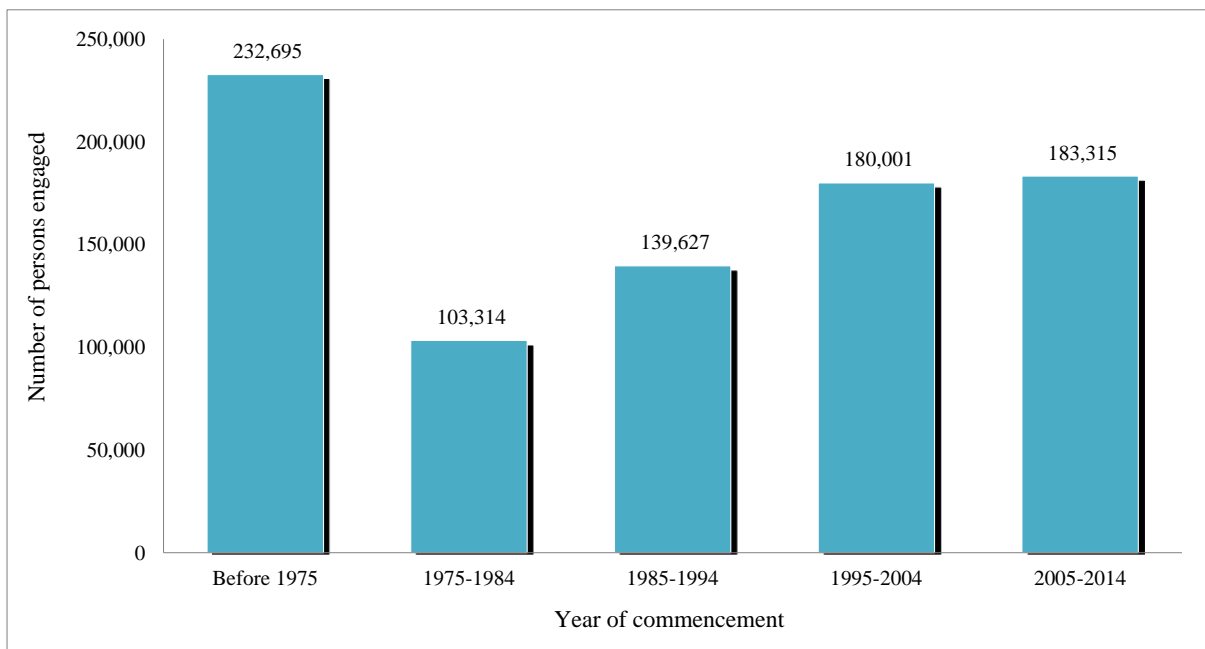
4.5.1 Persons engaged in LMSM establishments by year of commencement

This section focuses on the distribution of persons engaged in establishments by year of commencement and size. The size of the establishment is defined by the number of persons engaged. There are four size classifications of establishments: large, medium, small and micro.

4.5.2 Large-sized establishments

The distribution of persons engaged by large-sized establishments by year of commencement is shown in Figure 4.18. Out of a total of 858,253 persons engaged in large-sized establishments, about a quarter (232,695) are engaged by establishments created before 1975. The Figure further indicates that 42.3% of persons engaged in the large-sized establishments are engaged either by those that commenced operation in the period 1995-2004 (180,001) or 2005-2014 (183,315).

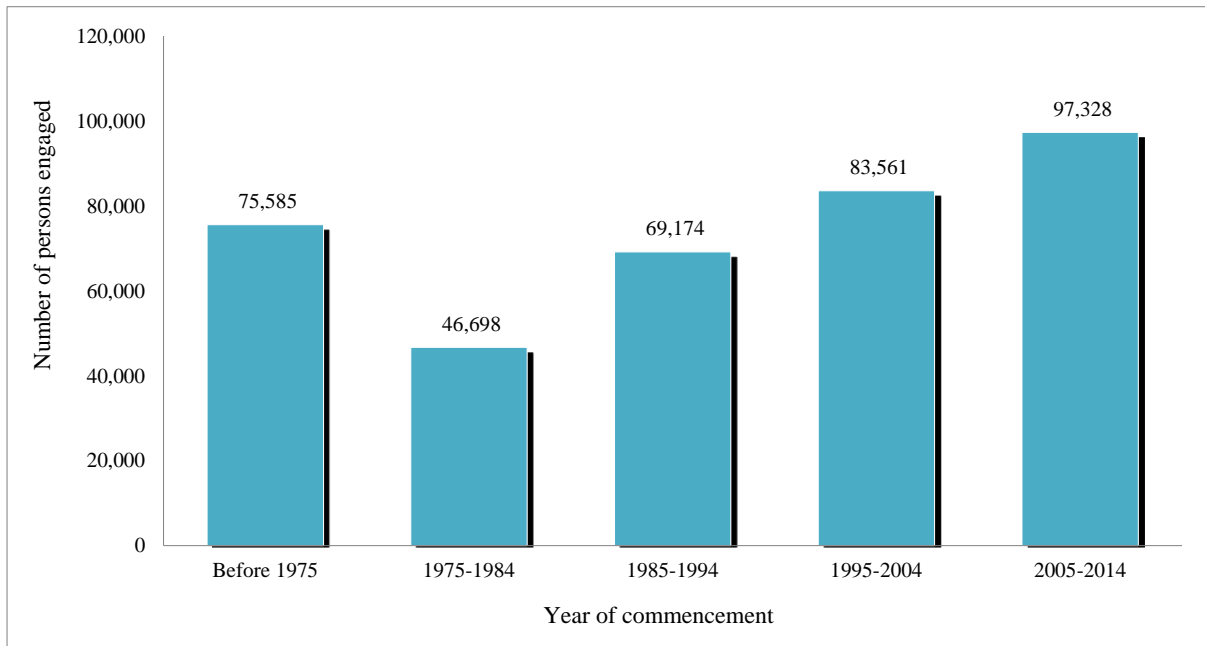
Figure 4.18: Distribution of persons engaged in large-sized establishments by year of commencement



4.5.3 Medium-sized establishments

Figure 4.19 illustrates the distribution of persons engaged in medium-sized establishments by year of commencement. It can be observed that medium-sized establishments that commenced operation in the period 2005-2014 engage more persons (97,328) than medium-sized establishments that were created in any other period. Establishments created in the period 1975-1984 engaged the least number of persons.

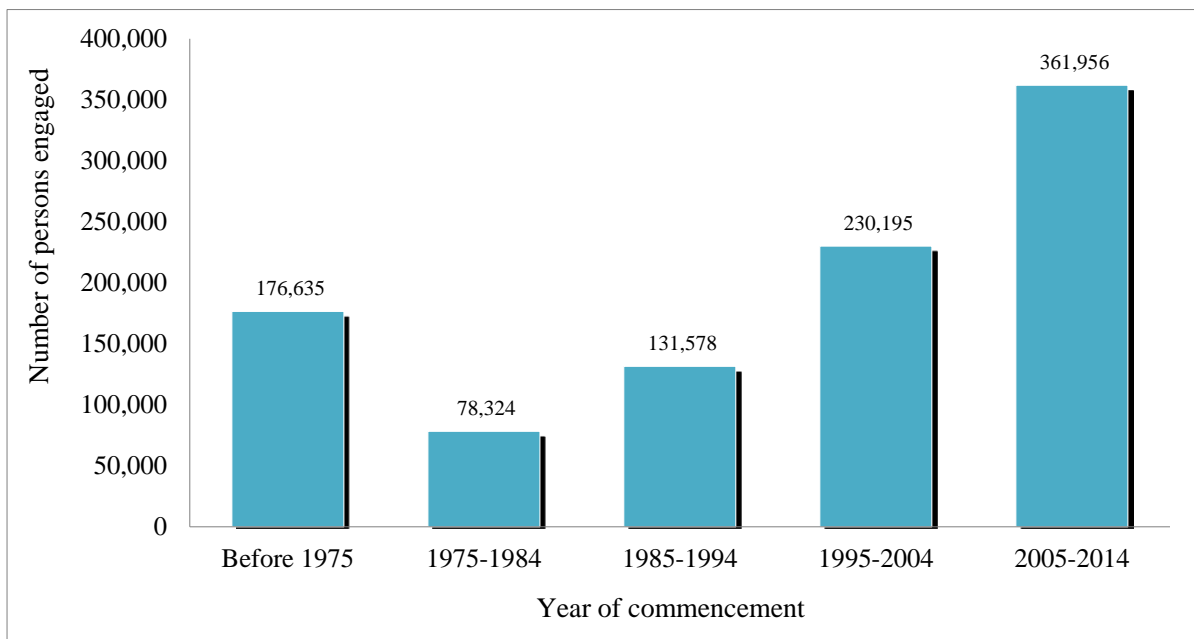
Figure 4.19: Distribution of persons engaged in medium-sized establishments by year of commencement



4.5.4 Small-sized establishments

The distribution pattern for persons engaged by small-sized establishments in terms of year of commencement is similar to that for medium-sized establishments. Small-sized establishments created in the period 2005-2014 (361,956) engaged more persons than those created in the other periods. Small-sized establishments created in the period 1975-1984 engaged the least number of persons (Figure 4.20).

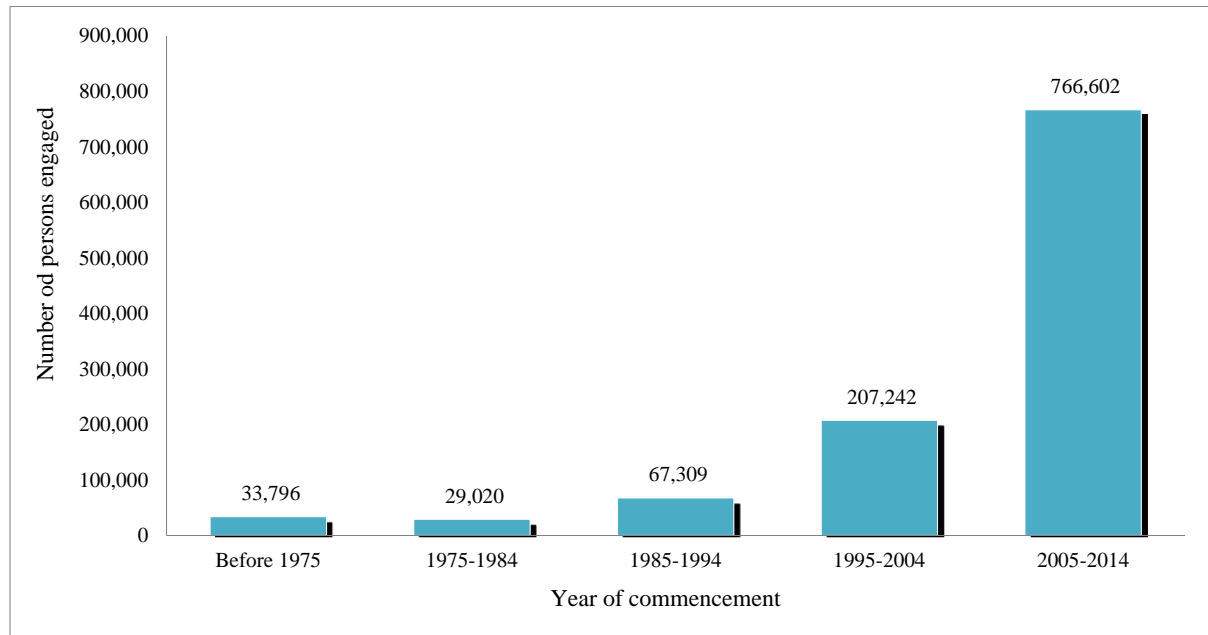
Figure 4.20: Distribution of persons engaged in small-sized establishments by year of commencement



4.5.5 Micro-sized establishments

From Figure 4.21, it can be seen that the majority (766,602) of the total number of persons engaged (1,103,969) in micro-sized establishments are engaged by establishments created in the period 2005-2014, while the least number of persons engaged are in establishments created in the period 1975-1984.

Figure 4.21: Distribution of persons engaged in micro-sized establishments by year of commencement



4.6 Sector analysis of persons engaged

This section discusses the distribution of persons engaged by non-household establishments in the three main sectors: Industry, Services, Agriculture (Institutional).

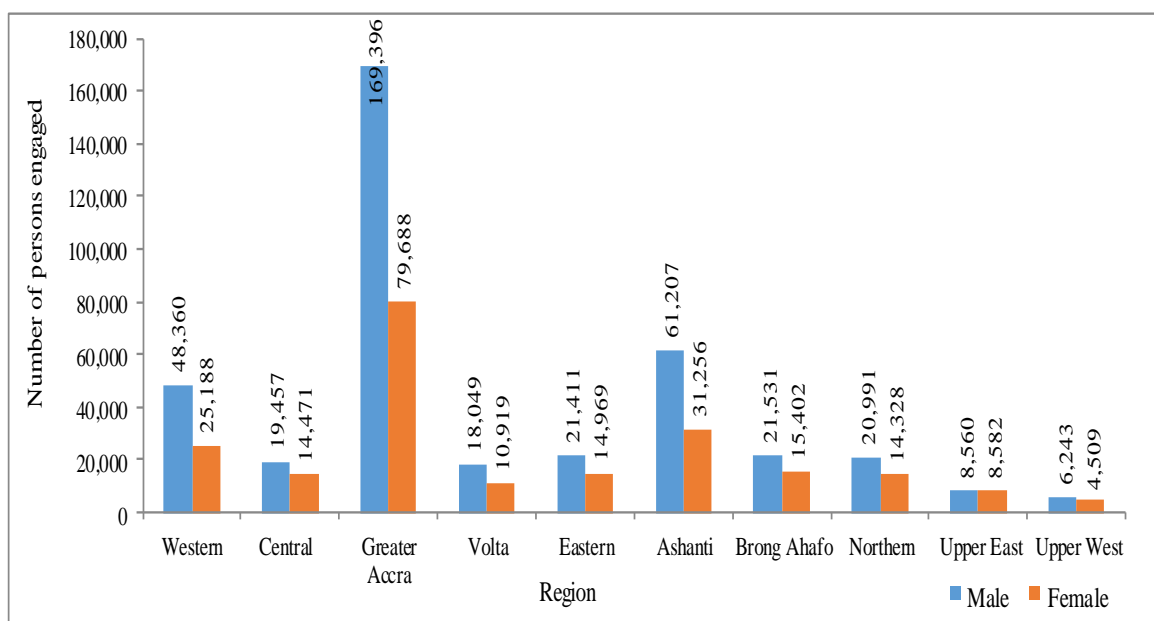
4.6.1 Industry sector

This sector consists of five subsectors: manufacturing; construction; mining and quarrying; electricity and gas; water supply, sewage and waste management.

4.6.2 Regional distribution of persons engaged in the Industry sector

Figure 4.22 indicates that there are more males than females engaged in all regions, apart from the Upper East region. A total of 249,084 people, constituting 40.5 per cent of the total number of persons engaged in the Industry sector, are in the Greater Accra region. Of this number, a little less than one-third are females while approximately two-thirds are males. Similarly, in the Ashanti region, which has the second highest number (92,463) of persons engaged in Industry, males constituted two-thirds of the number of persons engaged. Conversely, the Upper East region, which has the second lowest number (17,142) of persons engaged in the Industry sector, has slightly more females (50.1%) than males (49.9%).

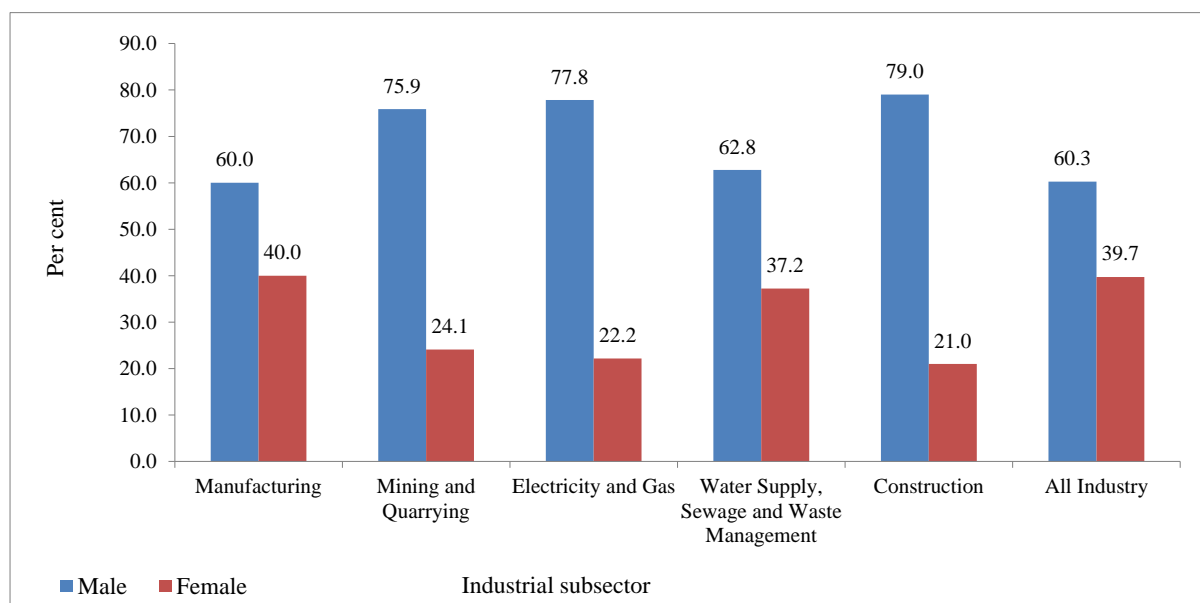
Figure 4.22: Distribution of persons engaged in Industry by region and sex



4.6.3 Persons engaged in the Industry subsectors

Figure 4.23 illustrates the distribution of persons engaged in the Industry subsectors by sex. Of the 614,517 persons engaged in the Industry sector, males constitute 64.3% while 35.7 percent are females. Three of the five subsectors - construction, electricity and gas, and mining and quarrying - have males accounting for more than three-quarters of their persons engaged. Though the female proportion of the persons engaged is lower relative to their male counterparts, the data shows relatively high proportions of females in manufacturing (40.0%) and water supply, sewerage and waste management (37.2%).

Figure 4.23: Distribution of persons engaged by sex and establishments in the Industry subsectors



4.6.3.1 Persons engaged by establishments in the Industry sector by type of legal organization

The distribution of persons engaged by establishments in the Industry sector as classified by type of legal status is shown in Table 4.1. Sole proprietorship establishments (334,199) contribute the larger proportion of the total number of persons engaged by non-household establishments than any other type of legal organization. Private limited liability companies engage 202,896 persons in the Industry sector, accounting for one-third of persons engaged in this sector. Establishments belonging to these two types of legal organizations contribute 87.4 per cent of persons engaged in the Industry sector (Table 4.1).

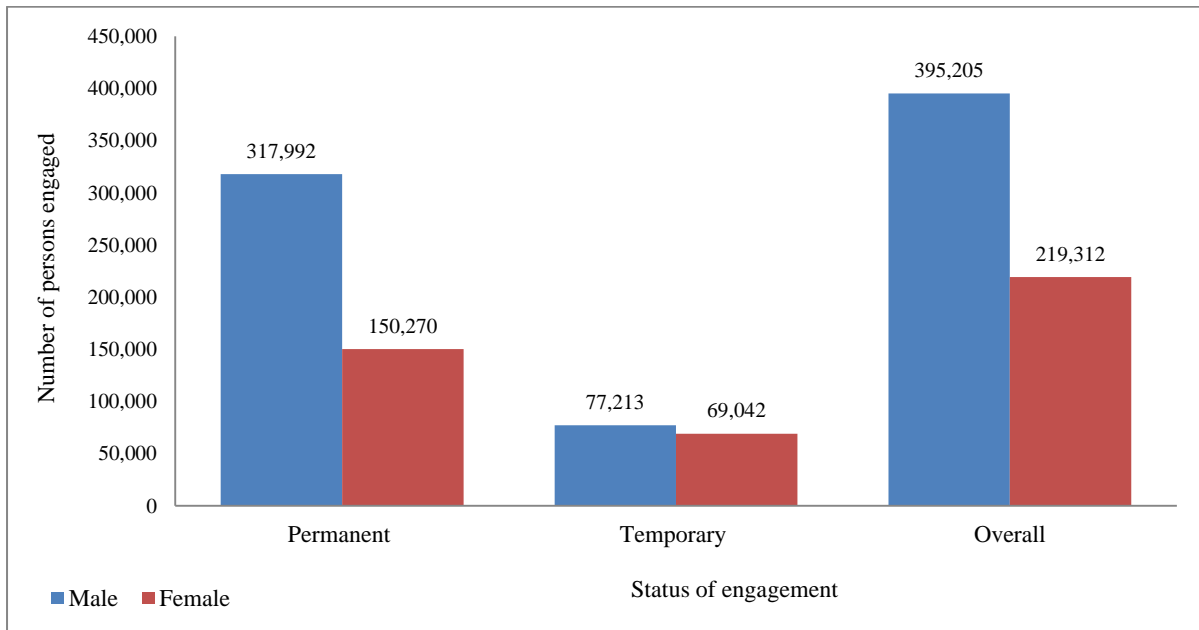
Table 4.1: Distribution of persons engaged in the Industry sector by type of legal organization

Type of Legal Organization	No. of Persons Engaged	Percentage Distribution
Sole Proprietorship	334,199	54.4
Partnership	45,294	7.4
Private Limited Company by Guarantee	202,896	33.0
Public Limited Company	14,012	2.3
Statutory	3,364	0.5
Other Governmental Institutions (MDAs etc.)	3,993	0.6
Quasi-Government	1,145	0.2
Parastatal Government	3,908	0.6
Non-Governmental Organization (NGO)	993	0.2
Cooperative	2,019	0.3
Association/Group	2,694	0.4
Total	614,517	100

4.6.3.2 Status of persons engaged in the Industry sector

Figure 4.24 shows that establishments in the Industry sector engage more permanent than temporary persons. The Figure further indicates that about two out of every three persons permanently engaged by establishments are males (317,992) and 150,270 are females. However, for persons temporarily engaged, males (77,213) constitute a slightly higher proportion than females (69,042).

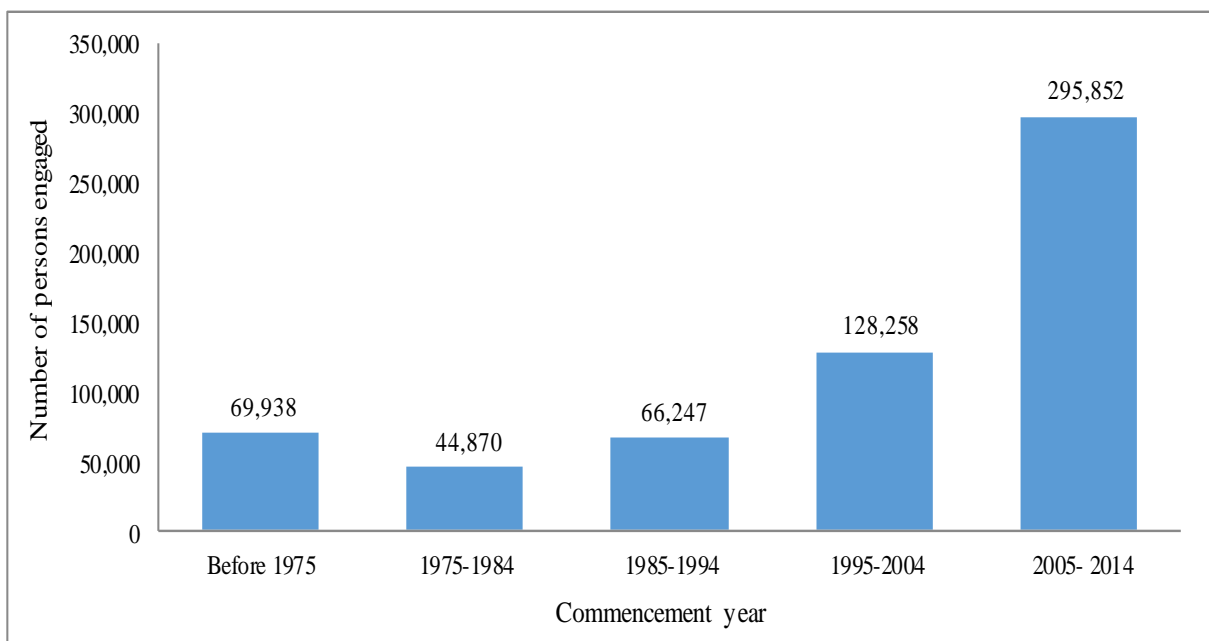
Figure 4.24: Distribution of persons engaged in the Industry sector by status of engagement and sex



4.6.3.3 Persons engaged in the Industry sector by year of commencement

Figure 4.25 reveals that in the Industry sector, about half of persons engaged (295,852) are in establishments created within the period 2005-2014, while one-fifth are in establishments created in the previous period (1995-2004). The lowest number of persons engaged in the sector, are in establishments created in the period 1975 -1984.

Figure 4.25: Distribution of persons engaged in the Industry sector by year of commencement



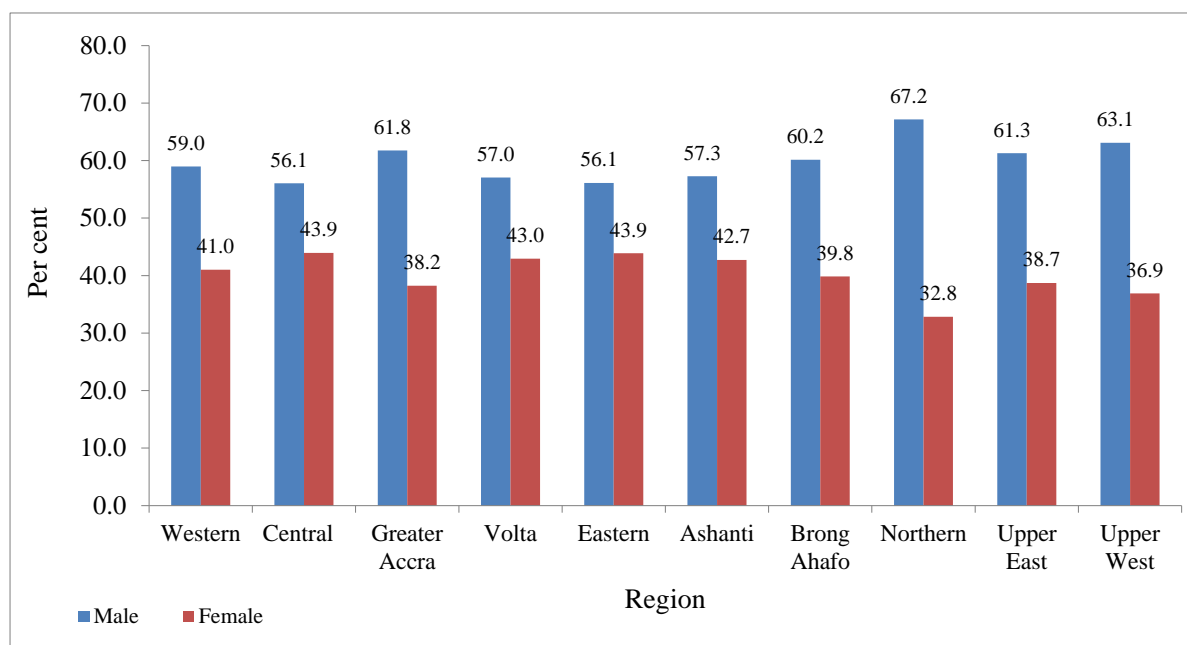
4.6.4 Services sector

The Services sector has more subsectors than any of the other sectors of the economy. There are thirteen subsectors, including the wholesale and retail trade, accommodation and food, transportation and storage, and financial and insurance.

4.6.4.1 Regional distribution of persons engaged in the Services sector by sex

In the Services sector, out of a total of 2,708,796 persons engaged, 59.0 per cent are males while 41.0 per cent are females. The distribution of persons engaged as depicted in figure 4.26 is similar to that exhibited in the Industry sector (Figure 4.26). At the regional level, the Northern (67.8%) and Upper West (61.9%) regions engaged the largest proportion of males, while the Central region accounted for the least proportion (55.5%) of males. On the other hand, female engagement in the Services sector is higher in the Central (44.5%) and Eastern (44.3%) regions.

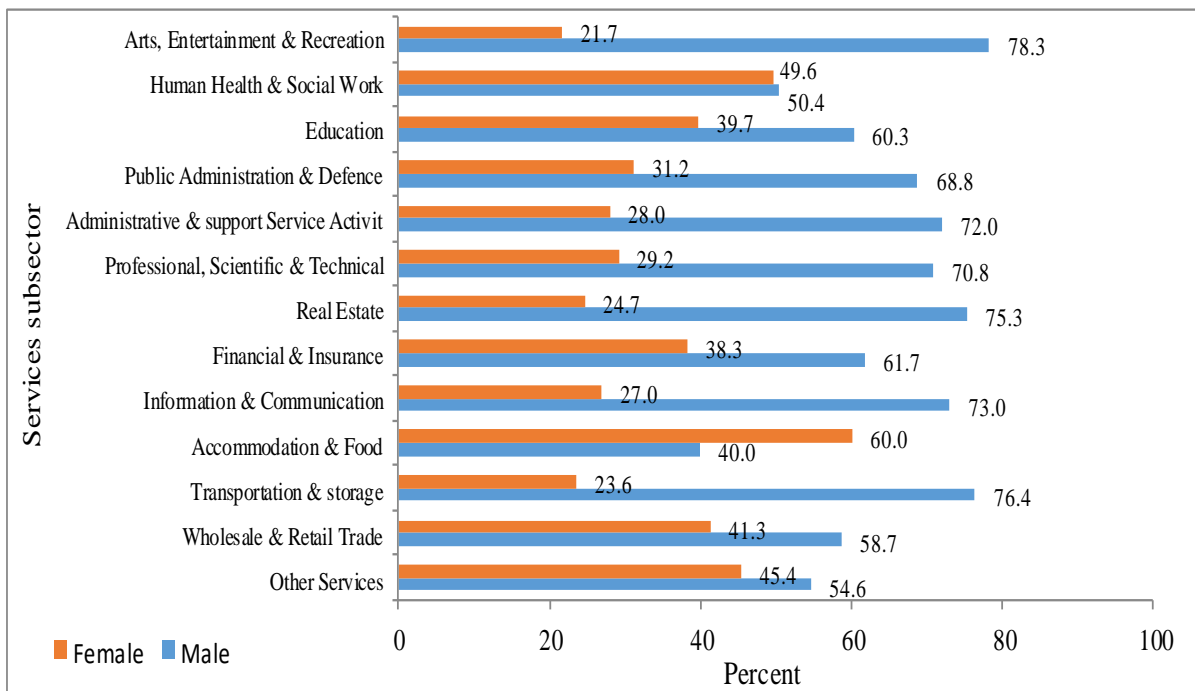
Figure 4.26: Distribution of persons engaged in the Services sector by sex and region



4.6.4.2 Persons engaged in the Services subsectors

Figure 4.27 indicates the distribution of persons engaged in the various Services subsectors by sex. The Figure reveals that males constitute more than half of the persons engaged in the respective Services subsectors. The highest proportions of males engaged are in the arts, entertainment and recreation (78.3%), transportation and storage (76.4%) and real estate (75.3%) subsectors.

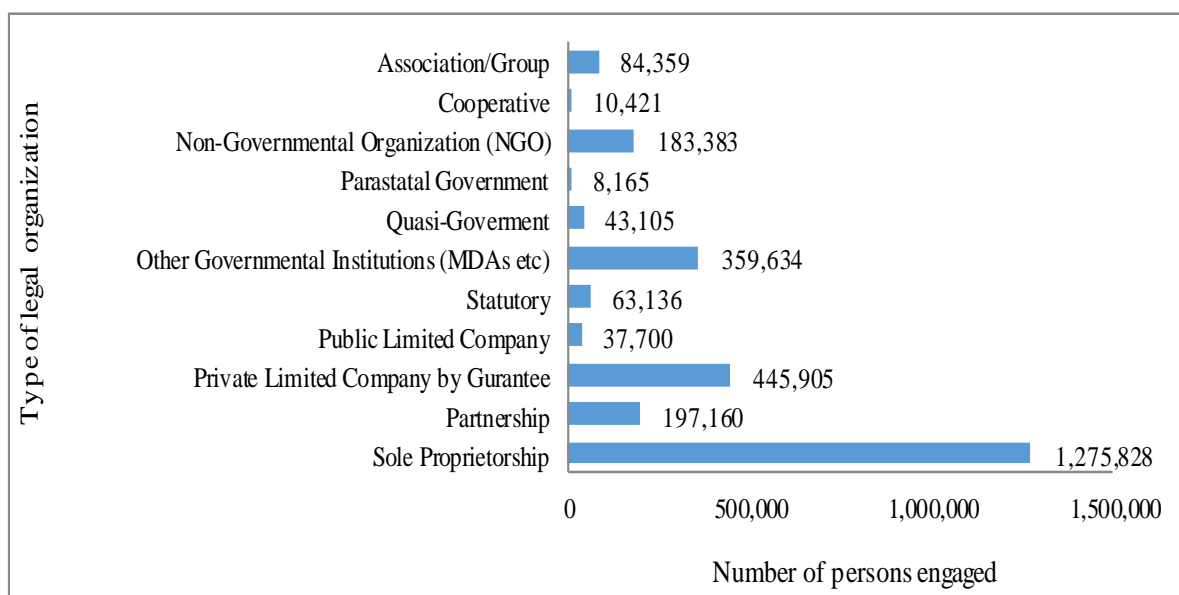
Figure 4.27: Distribution of persons engaged in the Services sector by sex (%)



4.6.4.3 Persons engaged in the Services sector by type of legal organization

The distribution of persons engaged in the Services sector as shown in Figure 4.28 is widely dispersed among the various types of legal organization. Out of a total of 2,708,796 persons engaged in the sector, 1,275,828, representing 47.1 per cent, are engaged by establishments operating as sole proprietorships, 16.5 per cent are engaged by private limited companies and 17.5 per cent are engaged by government institutions (MDAs, parastatal government and quasi-government statutory bodies).

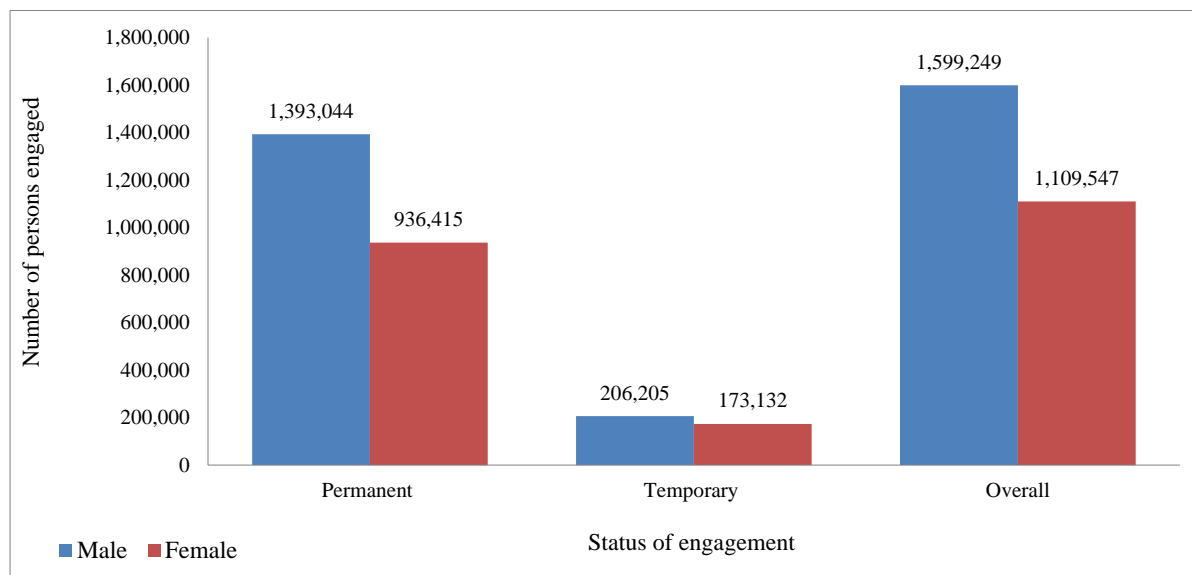
Figure 4.28: Distribution of persons engaged in the Services sector by type of legal organization



4.6.4.4 Status of persons engaged in the Services sector

In the Services sector, persons engaged with permanent status (2,329,459) constitute 86.0%. The sex distribution indicates that more males (1,393,044) than females (936,415) are permanently engaged by establishments in this sector. Similarly, more than half (54.4%) of temporarily engaged persons are males (Figure 4.29).

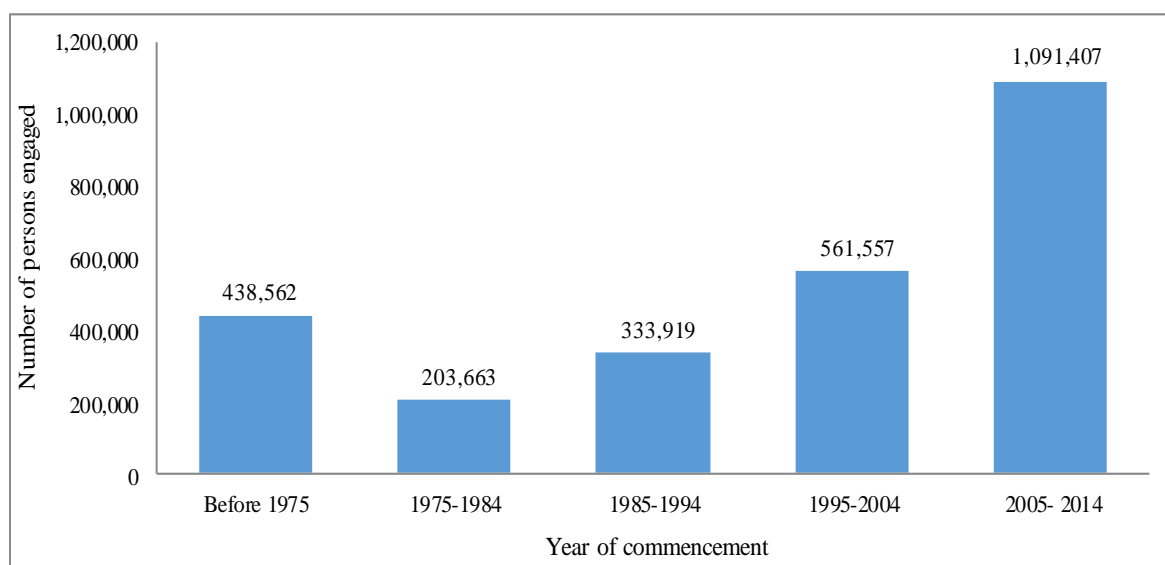
Figure 4.29: Distribution of persons engaged in the Services sector by type of engagement and sex



4.6.4.5 Persons engaged in the Services sector by year of commencement

Figure 4.30 shows that in the Services sector a total of 1,091,407, representing 41.5 per cent of persons engaged, are in establishments created within the period 2005-2014, while one-fifth (561,557) are in establishments created in the previous period (1995-2004). The distribution pattern for persons engaged by establishments in the services sector in terms of year of commencement is similar to the general distribution as previously discussed.

Figure 4.30: Distribution of persons engaged in the Services sector by year of commencement



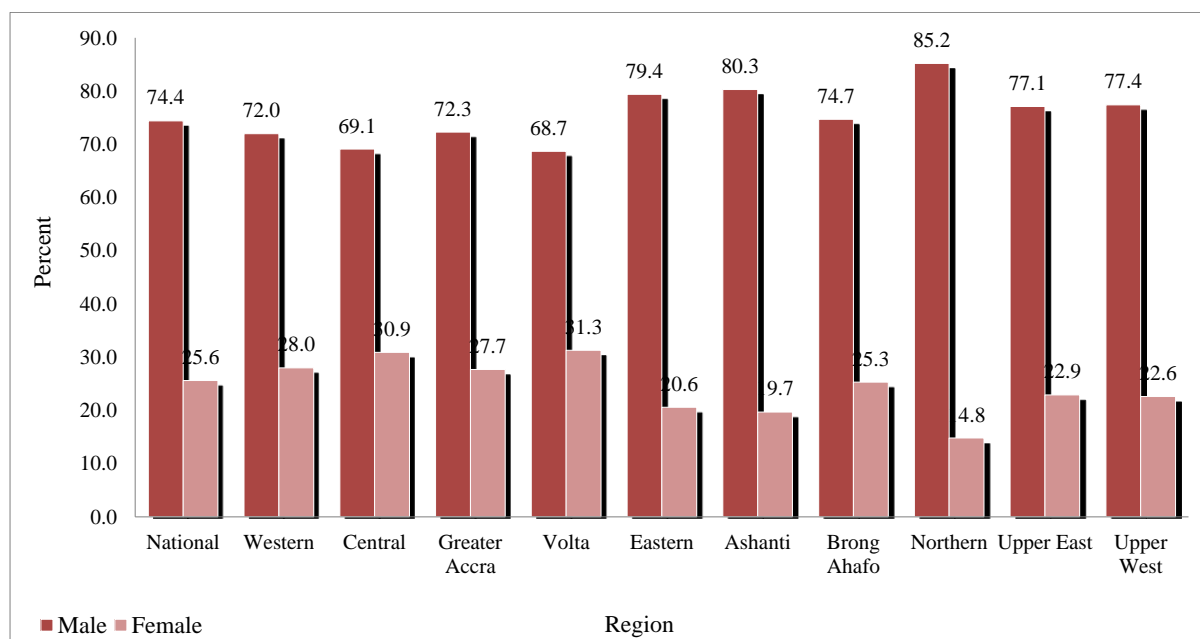
4.6.4.6 Agriculture (Institutional) sector

The Agriculture sector discussed in this report is categorized into crops, fishing and aquaculture, forestry and logging, and livestock and poultry.

4.6.4.7 Persons engaged in establishments in the Agriculture sector

Figure 4.31 shows that 74.4 per cent of persons engaged in Agriculture are males and 25.6 per cent are females. Notably, more males than females are engaged in the Agriculture sector across all regions. The Northern and Ashanti regions have the highest proportions of males engaged in Agriculture (85.2% and 80.3% respectively). Volta region records the highest (31.3%) proportion of females engaged in the Agriculture sector. Only 14.8 per cent of persons engaged in the sector in the Northern region are females.

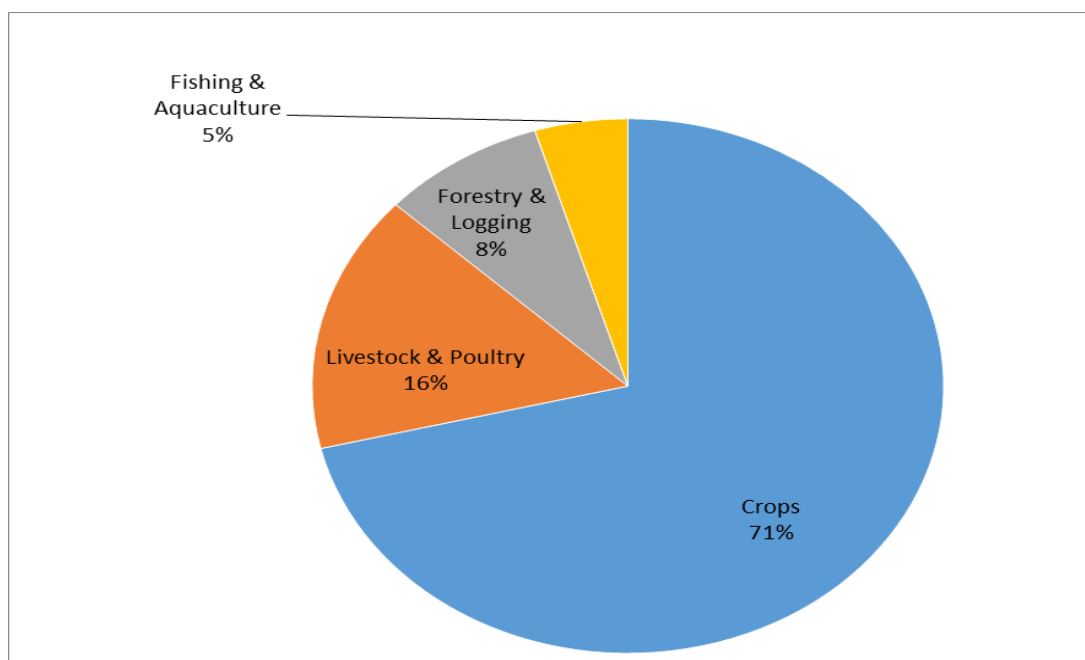
Figure 4.31: Regional distribution of persons engaged in Agriculture by sex



4.6.4.8 Persons engaged in the Agriculture subsectors

Figure 4.32 shows the distribution of persons engaged in the various Agriculture subsectors. In this sector, seven out of every ten (71.0%) persons engaged are in crop farming. This is followed by livestock and poultry (16.0%), forestry and logging (8.0%), and fishing and aquaculture (5.0%).

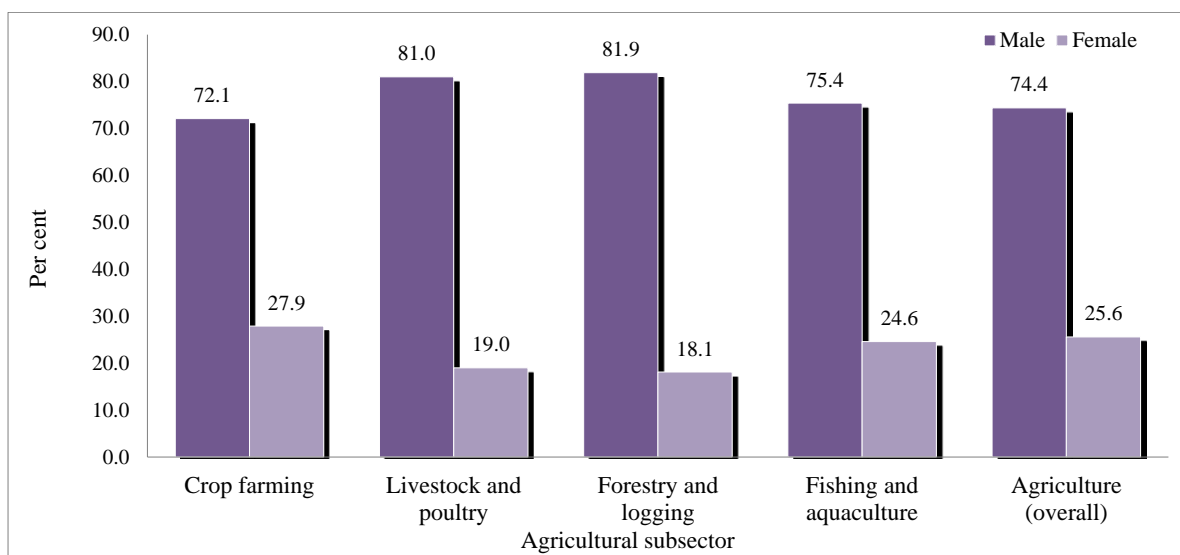
Figure 4.32: Distribution of persons engaged in the Agriculture sector



4.6.4.9 Persons engaged in the Agriculture subsectors by sex

From Figure 4.33, it can be seen that almost three-quarters (74.4%) of the total number of persons engaged in the Agriculture subsectors are males. At the subsector level, the proportions of male engaged are relatively higher than females. In the forestry and logging subsector, males account for 81.9 per cent of persons engaged, which is the highest proportion of males in any subsector. This is followed by livestock and poultry (81.0%) and fishing and aquaculture (75.4%). It is observed that the proportion of females involved in crop farming (27.9%) is higher than the sector average of 25.6 per cent.

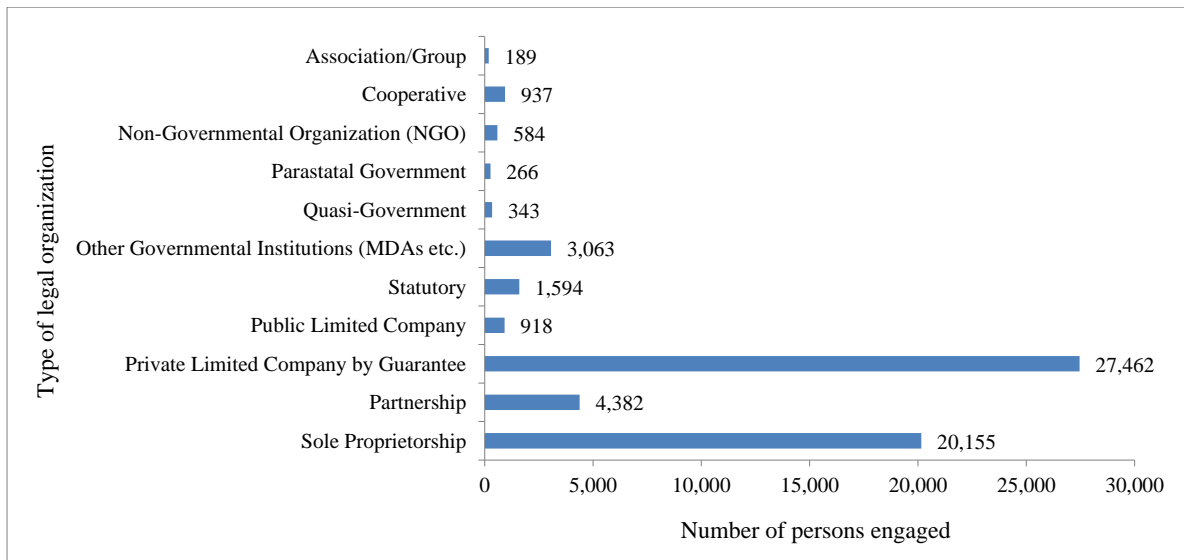
Figure 4.33: Distribution of persons engaged in the Agriculture subsectors by sex



4.6.4.10 Persons engaged in the Agriculture sector by type of legal organization

This agriculture sector as defined in census considered only institutional agriculture (non-household agricultural establishments). Figure 4.34 shows that 45.9 per cent (27,462) of persons engaged in the Agriculture sector are in private limited companies, while 33.7 per cent (20,155) are in establishments operating as sole proprietorships. Furthermore, the Figure shows that persons engaged by the two aforementioned types of legal organizations constitute more than three-quarters of the total number of persons engaged in the Agriculture sector.

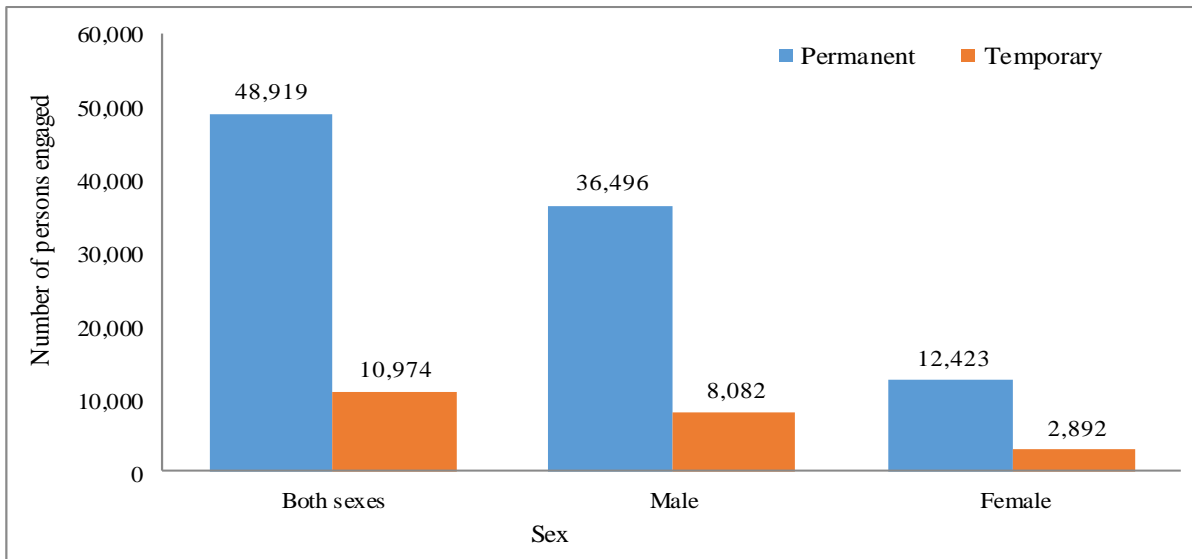
Figure 4.34: Distribution of persons engaged in the Agriculture sector by type of legal organization



4.6.4.11 Status of persons engaged in the Agriculture sector

In the Agriculture sector, persons engaged with permanent status (48,919) are about four times those with temporary status (10,974). This pattern is observed for both sexes, as indicated in Figure 4.35. Among males engaged in the sector, four out of every five (81.9%) have permanent status.

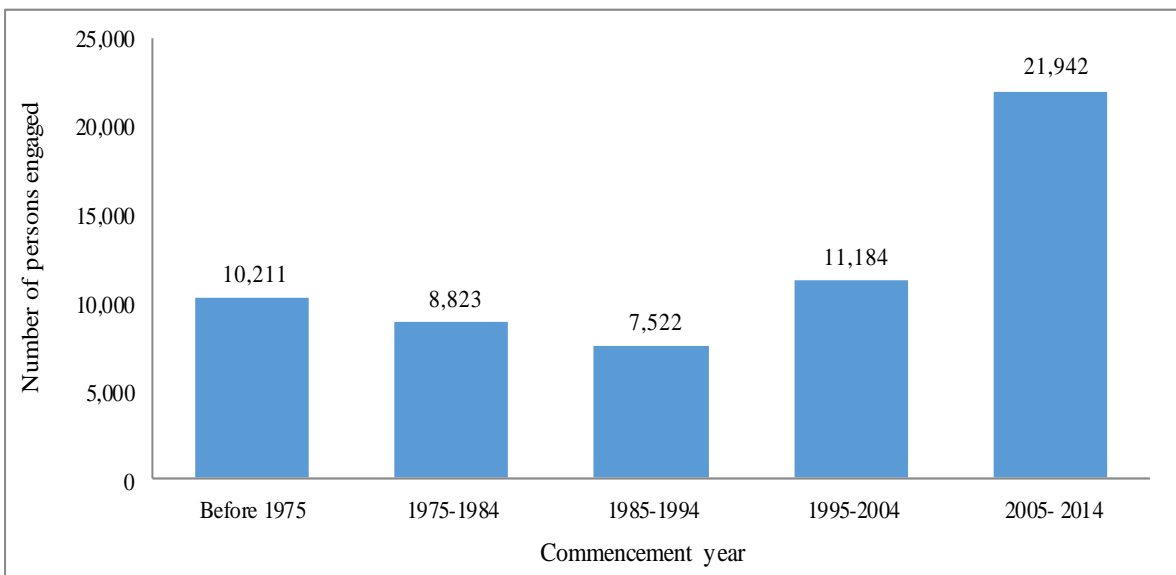
Figure 4.35: Distribution of persons engaged in the Agriculture sector by status of engagement



4.6.4.12 Persons engaged in the Agriculture sector by year of commencement

The distribution pattern for persons engaged by establishments in the Agriculture sector in terms of year of commencement is at variance with that observed for the Industry and Services sectors. Figure 4.36 shows that in the Agriculture sector, a total of 21,942 persons representing 36.8 per cent of persons engaged, are in establishments that were created within the period 2005-2014, while the least number of persons engaged (7,522) in the sector are in establishments created in the previous period (1985-1994).

Figure 4.36: Distribution of persons engaged in the Agriculture sector by year of commencement



CHAPTER FIVE

CONCLUSION

Phase I of the Integrated Business Establishment Survey (IBES I) was a non-household economic census spanning all sectors of the Ghanaian economy namely; industry, services, and agriculture. A unique feature of this census is with respect to the target population in the agriculture sector. In contrast to other censuses that focused on household agricultural activities, IBES I covered agricultural activities managed by establishments or institutions. Thus, in terms of coverage in the agriculture sector, the IBES focused only on “institutional agriculture”. This summary report presents a narration of non-household activities in Ghana. The report is structured into two parts: (i) non-household establishments and (ii) persons engaged or employed by these establishments. This report provides clear understanding of activities in non-household businesses in Ghana.

The aim of IBES I was to provide reliable, timely and relevant economic statistics to support the formulation and implementation of policies and strategies that can stimulate the growth of all sectors of the economy. In addition, it aims at improving the production and dissemination of statistics on production and employment for all sectors of the economy to meet the data requirements for monitoring the National Development Plan and the Sustainable Development Goals (SDGs).

In relation to the number of establishments in Ghana, the economic census reveals that a total of 638,234 establishments operate in Ghana, with more than a quarter located in Greater Accra. The majority (82.6%) of these establishments are found in the Services sector. In terms of the formality status (formal or informal), 10 per cent of the establishments are formal and the rest are informal. From the perspective of the age of establishments in Ghana, a total of 428,332 establishments, representing 67.1 per cent of the establishments, are fairly young, having commenced operation in the period 2005-2014. More than three-quarters (79.8%) of the establishments are micro-sized, suggesting that medium-sized and large-sized firms are relatively less represented in Ghana. Furthermore, classification by type and nationality of ownership show that most (96.0%) of the establishments in Ghana are privately owned; establishments owned by Ghanaians constitute 98.6 per cent.

Generally, employees in Ghana can be classified as either engaged in household or non-household activities. Results from the Phase I of IBES reveals that non-household based establishments engage 3,383,206 persons in Ghana. Disaggregating this figure by sex indicates that 60.3 per cent of all persons engaged by the establishments operating in Ghana are males. The sectorial distribution of the persons engaged reveals that eight out of every ten employees are engaged in the Services sector.

With regard to status in employment, 84.1 per cent of persons engaged in non-household establishments have permanent status. Skilled persons constitute more than three-quarters (78.4%) of the persons engaged and more than one-third (38.0%) are engaged in establishments located in the Greater Accra region. Again, about one-third of persons engaged are in micro-sized establishments. Establishments operating as sole proprietors engage 1,630,182 persons, representing almost half (48.2%) of all persons engaged in non-household establishments. A total of 1,409,201 of the persons engaged, representing 41.7 per cent, were engaged by establishments created within the period 2005-2014.

These findings provide a basis for detailed analysis of the structure of the Ghanaian economy. Even though they contribute to the overall growth agenda, the dominance of micro-sized establishments in Ghana engender concerns about the levels of unemployment in the country.

It is suggested that there should be conscious effort at growing micro-sized establishments into medium and large-sized establishments since their growth has the potential to create employment and thereby contribute to the reduction of unemployment levels in Ghana.

APPENDICES

Table A1: Number of establishments by form of organization, sector and region

Sector of Employment	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors												
Total	638,234	100.0	63,439	52,975	177,153	42,154	58,766	123,644	49,346	39,975	17,054	13,728
Head Office	47,563	7.5	3,420	2,220	24,352	1,659	2,798	7,481	2,427	1,470	974	762
Single Establishment	538,433	84.4	51,651	43,185	145,803	36,006	48,624	106,501	42,615	36,832	14,992	12,224
Subsidiary	52,238	8.2	8,368	7,570	6,998	4,489	7,344	9,662	4,304	1,673	1,088	742
Industry												
Total	108,242	100.0	9,899	8,250	27,302	9,115	9,558	20,752	7,899	8,662	3,752	3,053
Head Office	8,916	8.2	601	386	4,506	351	466	1,377	431	314	213	271
Single Establishment	97,485	90.1	8,902	7,695	22,409	8,624	8,914	19,031	7,368	8,280	3,505	2,757
Subsidiary	1,841	1.7	396	169	387	140	178	344	100	68	34	25
Services												
Total	527,161	100.0	53,322	44,519	149,513	32,879	48,819	102,219	40,873	31,108	13,279	10,630
Head Office	38,070	7.2	2,726	1,802	19,652	1,286	2,270	6,010	1,940	1,138	760	486
Single Establishment	439,017	83.3	42,658	35,337	123,265	27,270	39,435	86,988	34,777	28,377	11,473	9,437
Subsidiary	50,074	9.5	7,938	7,380	6,596	4,323	7,114	9,221	4,156	1,593	1,046	707
Agriculture												
Total	2,831	100.0	218	206	338	160	389	673	574	205	23	45
Head Office	577	20.4	93	32	194	22	62	94	56	18	1	5
Single Establishment	1,931	68.2	91	153	129	112	275	482	470	175	14	30
Subsidiary	323	11.4	34	21	15	26	52	97	48	12	8	10

Table A2: Establishments by principal activity, sector and region

Principal Activity/sector	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All activities	638,234	100.0	63,439	52,975	177,153	42,154	58,766	123,644	49,346	39,975	17,054	13,728
Industry												
Manufacturing	99,437	15.6	9,134	7,836	23,313	8,658	9,086	19,483	7,430	8,274	3,468	2,755
Mining and Quarrying	580	0.1	168	14	260	11	27	69	8	2	15	6
Electricity and Gas	621	0.1	59	41	264	35	37	84	30	38	14	19
Water Supply, Sewage and Waste Management	953	0.1	83	72	224	65	77	231	83	82	25	11
Construction	6,651	1.0	455	287	3,241	346	331	885	348	266	230	262
Services												
Wholesale and Retail Trade	290,274	45.5	29,959	23,413	84,682	15,880	26,258	59,330	22,021	16,687	6,353	5,691
Transportation and Storage	2,849	0.4	253	103	1,714	120	107	245	109	83	64	51
Accommodation and Food	56,352	8.8	6,065	5,020	14,633	4,942	5,558	9,601	4,598	2,548	2,055	1,332
Information and Communication	4,153	0.7	300	265	1,760	144	248	858	321	127	82	48
Financial and Insurance	7,214	1.1	640	569	2,954	331	557	1,081	632	252	102	96
Real Estate	660	0.1	26	22	532	11	12	39	8	4	2	4
Professional, Scientific and Technical	7,267	1.1	436	471	3,840	259	348	1,131	371	189	127	95
Administrative Support Service Activities	6,136	1.0	514	489	2,609	329	448	982	279	277	115	94
Public Administration and Defence	3,700	0.6	330	367	592	386	438	543	443	258	195	148
Education	30,780	4.8	3,213	2,938	6,044	2,679	3,274	4,808	2,664	2,861	1,316	983
Human Health and Social Work	6,441	1.0	612	538	1,631	474	680	990	533	401	329	253
Arts, Entertainment and Recreation	5,845	0.9	169	555	1,912	259	318	2,003	394	103	88	44
Other Services	105,490	16.5	10,805	9,769	26,610	7,065	10,573	20,608	8,500	7,318	2,451	1,791
Agriculture												
Crops	914	0.1	109	73	168	43	209	156	70	46	13	27
Livestock and Poultry	1,638	0.3	76	115	126	93	137	469	449	149	9	15
Forestry and Logging	155	0.0	25	7	15	12	16	37	34	6	1	2
Fishing and Aquaculture	124	0.0	8	11	29	12	27	11	21	4	-	1

Table A3: Year of commencement by frequency

Year of Establishment	Number	Per cent	Cumulative
Total	638,234	100.00	258
<1975	29,150	4.56	4.57
1975-1984	19,527	3.06	7.63
1985-1994	41,588	6.52	14.14
1995-2004	116,008	18.18	32.32
2005-2014	428,332	67.11	99.43
Not stated	3,629	0.57	100

Table A4: Number of establishments by sector and year of establishment

Sector	Age of establishment					Not stated
	<1975	1975-1984	1985-1994	1995-2004	2005-2014	
Total	29,150	19,527	41,588	116,008	428,332	3,629
Industry	2,990	2,985	6,645	22,320	72,987	315
Services	25,904	16,342	34,656	93,060	353,890	3,309
Agriculture	256	200	287	628	1,455	5

Table A5: Number of establishments by subsectors and year of establishment

Sub-sector	Age of establishment					
	<1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
Total	29,150	19,527	41,588	116,008	428,332	3,629
Manufacturing	1367	1,903	5,488	20,654	69,798	227
Mining and Quarrying	86	60	73	101	251	9
Electricity and Gas	47	44	50	107	349	24
Water Supply, Sewage and Waste Management	96	40	69	182	548	18
Construction	1394	938	965	1276	2,041	37
Wholesale and Retail Trade	4,890	5,430	14,406	49,897	214,253	1,398
Transportation Storage	483	323	438	588	942	75
Accommodation and Food	833	1,282	3,525	11,036	39,478	198
Information and Communication	235	180	211	531	2,938	58
Financial and Insurance	541	518	543	1045	4,327	240
Real Estate	81	61	66	103	337	12
Professional, Scientific and Technical	730	460	654	1324	3,950	149
Administrative Support Service Activities	340	212	286	848	4,359	91
Public Administration and Defence	844	323	703	720	918	192
Education	7,760	2,768	4,791	5,960	9,184	317
Human Health and Social Work	689	464	770	1,282	3,086	150
Arts, Entertainment and Recreation	148	124	424	1,032	4,096	21
Other Services	8,330	4,197	7,839	18,694	66,022	408
Crops	173	107	136	189	306	3
Livestock and Poultry	45	57	126	377	1,032	1
Forestry and Logging	31	19	14	37	53	1
Fishing and Aquaculture	7	17	11	25	64	0

Table A6: Number of LMSM establishments by year of establishment

LMSM	Age of establishment					
	<1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
Total	29,150	19,527	41,588	116,008	428,332	3,629
Large	760	297	450	485	498	49
Medium	1433	882	1304	1,677	1,918	1,309
Small	14,338	6,696	11,612	20,853	36,204	978
Micro	12,619	11,652	28,222	92,993	389,712	1,293

Table A7: Number of establishments by region and year of establishment

Region	Age of establishment					
	<1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
Total	29,150	19,527	41,588	116,008	428,332	3,629
Western	2,872	2,075	4,526	11,619	42,084	263
Central	2,849	1,582	3,456	9,153	35,785	150
Greater Accra	7,275	5,643	10,435	30,595	120,983	2,221
Volta	2,609	1,376	3,531	7,833	26,739	67
Eastern	3,562	2,007	4,190	11,137	37,768	102
Ashanti	5,003	3,147	7,485	22,978	84,492	539
Brong Ahafo	2,417	1,637	3,201	9,025	32,963	103
Northern	1,317	1,192	2,792	8,287	26,356	31
Upper East	728	510	1,153	3,063	11,578	22
Upper West	518	358	819	2,318	9,584	131

Table A8: Number of establishments by sector, LMSM and year of establishment

Sector/LMSM	<1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
Total						
Large	760	297	450	485	498	49
Medium	1433	882	1304	1677	1918	1,309
Small	14,338	6,696	11,612	20,853	36,204	978
Micro	12,619	11,652	28,222	92,993	389,712	1,293
Industry						
Large	123	63	74	101	157	5
Medium	154	103	127	244	326	116
Small	622	599	1244	3,746	7,785	39
Micro	2091	2,220	5,200	18,229	64,719	155
Services						
Large	616	222	360	366	318	43
Medium	1226	743	1136	1,389	1,542	1,191
Small	13,627	6,031	10,280	16,945	28,172	939
Micro	10,435	9,346	22,880	74,360	323,858	1,136
Agriculture						
Large	21	12	16	18	23	1
Medium	53	36	41	44	50	2
Small	89	66	88	162	247	0
Micro	93	86	142	404	1,135	2

Table A9: Number of establishments by region, LSM and year of establishment

Region/Size	<1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
Total	29,150	19,527	41,588	116,008	428,332	3,629
Large	760	297	450	485	498	49
Medium	1,433	882	1,304	1,677	1,918	1,309
Small	14,338	6,696	11,612	20,853	36,204	978
Micro	12,619	11,652	28,222	92,993	389,712	1,293
Western						
Total	2,872	2,075	4,526	11,619	42,084	263
Large	80	40	48	40	40	4
Medium	152	110	142	182	200	12
Small	1,484	792	1,367	2,191	3,496	77
Micro	1,156	1,133	2,969	9,206	38,348	170
Central						
Total	2,849	1,582	3,456	9,153	35,785	150
Large	41	18	29	16	19	3
Medium	118	46	67	98	121	15
Small	1,582	587	954	1,631	2,764	62
Micro	1,108	931	2,406	7,408	32,881	70
Greater Accra						
Total	7,275	5,643	10,435	30,595	120,983	2,221
Large	330	147	208	262	268	18
Medium	557	386	531	721	797	1,192
Small	2,569	1,712	2,662	5,404	10,105	556
Micro	3,819	3,398	7,034	24,208	109,813	455
Volta						
Total	2,609	1,376	3,531	7,833	26,739	67
Large	49	3	19	20	19	2
Medium	72	37	73	48	82	2
Small	1,466	422	961	1,174	1,774	20
Micro	1,022	914	2,478	6,591	24,864	43
Eastern						
Total	3,562	2,007	4,190	11,137	37,768	102
Large	63	24	24	32	38	1
Medium	110	55	84	110	118	5
Small	1,993	644	1,121	1,711	2,580	38
Micro	1,396	1,284	2,961	9,284	35,032	58
Ashanti						
Total	5,003	3,147	7,485	22,978	84,492	539
Large	95	43	61	53	53	10
Medium	211	129	203	305	320	72
Small	2,603	1,037	1,928	3,831	6,571	135
Micro	2,094	1,938	5,293	18,789	77,548	322

Table A9: Number of establishments by region, LSM and year of establishment (cont'd)

Region/Size	<1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
Brong Ahafo						
Total	2,417	1,637	3,201	9,025	32,963	103
Large	43	11	25	31	19	8
Medium	96	71	99	90	117	3
Small	1,336	692	951	1,750	3,046	33
Micro	942	863	2,126	7,154	29,781	59
Northern						
Total	1,317	1,192	2,792	8,287	26,356	31
Large	23	7	16	16	20	2
Medium	47	24	51	65	93	3
Small	646	466	944	1,905	3,309	12
Micro	601	695	1,781	6,301	22,934	14
Upper East						
Total	728	510	1,153	3,063	11,578	22
Large	23	4	11	11	17	1
Medium	47	14	31	36	40	1
Small	401	208	442	773	1,529	5
Micro	257	284	669	2,243	9,992	15
Upper West						
Total	518	358	819	2,318	9,584	131
Large	13		9	4	5	-
Medium	23	10	23	22	30	4
Small	258	136	282	483	1,030	40
Micro	224	212	505	1,809	8,519	87

Table A10: Distribution of establishments by region, LSM and year of establishment

Size/Year of Establishment	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Total	638,234	63,439	52,975	177,152	42,155	58,766	123,644	49,346	39,975	17,054	13,728
Before 1975	19,915	2,253	2,542	1,841	2,369	3,097	3,887	1,959	1,077	533	357
1975-1984	13,372	1,666	1,382	2,023	1,218	1,688	2,407	1,328	1,032	380	248
1985-1994	35,431	4,108	3,256	6,817	3,371	3,870	6,746	2,891	2,633	1,022	717
1995-2004	109,855	11,199	8,953	26,975	7,674	10,826	22,229	8,722	8,130	2,929	2,218
2005- 2014	422,187	41,665	35,581	117,368	26,578	37,458	83,743	32,663	26,196	11,448	9,487
Not stated	37,474	2,548	1,261	22,128	945	1,827	4,632	1,783	907	742	701
Large											
Total	2,539	252	126	1,233	112	182	315	137	84	67	31
Before 1975	482	54	35	115	45	61	79	40	21	20	12
1975-1984	123	16	13	28	1	21	31	5	5	3	
1985-1994	273	33	25	76	16	18	48	22	16	10	9
1995-2004	302	27	12	117	18	26	41	31	16	10	4
2005- 2014	320	25	14	129	19	34	42	19	19	14	5
Not stated	1,039	97	27	768	13	22	74	20	7	10	1
Medium											
Total	8,523	798	465	4,184	314	482	1,240	476	283	169	112
Before 1975	830	82	99	172	67	84	151	76	43	37	19
1975-1984	427	53	38	102	31	43	80	45	19	8	8
1985-1994	839	91	54	220	70	66	161	82	45	28	22
1995-2004	1,257	139	90	441	44	93	252	82	62	33	21
2005- 2014	1,474	148	110	507	76	104	269	105	90	35	30
Not stated	3,696	285	74	2,742	26	92	327	86	24	28	12
Small											
Total	90,681	9,407	7,580	23,008	5,817	8,087	16,105	7,808	7,282	3,358	2,229
Before 1975	11,524	1,279	1,491	869	1,402	1,858	2,274	1,190	595	340	226
1975-1984	4,826	669	508	587	387	556	815	589	431	168	116
1985-1994	9,738	1,239	892	1,524	928	1,022	1,704	864	906	399	260
1995-2004	19,057	2,053	1,568	4,300	1,134	1,622	3,629	1,663	1,875	744	469
2005- 2014	34,352	3,351	2,693	9,012	1,736	2,477	6,321	2,961	3,287	1,492	1,022
Not stated	11,184	816	428	6,716	230	552	1,362	541	188	215	136
Micro											
Total	536,491	52,982	44,804	148,727	35,912	50,015	105,984	40,925	32,326	13,460	11,356
Before 1975	7,079	838	917	685	855	1,094	1,383	653	418	136	100
1975-1984	7,996	928	823	1,306	799	1,068	1,481	689	577	201	124
1985-1994	24,581	2,745	2,285	4,997	2,357	2,764	4,833	1,923	1,666	585	426
1995-2004	89,239	8,980	7,283	22,117	6,478	9,085	18,307	6,946	6,177	2,142	1,724
2005- 2014	386,041	38,141	32,764	107,720	24,747	34,843	77,111	29,578	22,800	9,907	8,430
Not stated	21,555	1,350	732	11,902	676	1,161	2,869	1,136	688	489	552

Table A11: Distribution of persons engaged in establishments by LMSM and year of establishment

LMSM	Total	Age of establishment					
		<1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
Total	3,383,206	339,044	124,891	277,755	558,230	1,259,744	823,542
Large	858,253	135,001	28,590	67,802	91,629	91,345	443,886
Medium	423,587	44,441	22,554	44,512	61,725	72,875	177,480
Small	994,395	140,328	54,311	107,541	207,377	338,545	146,293
Micro	1,106,971	19,274	19,436	57,900	197,499	756,979	55,883

Table A12: Distribution of persons engaged in LMSM establishments by status and year of establishment

LMSM by status	Total	<1975	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
Total	3,383,206	339,044	124,891	277,755	558,230	1,259,744	823,542
Permanent	2,846,640	299,911	105,415	232,052	440,330	950,102	818,830
Temporary	536,566	39,133	19,476	45,703	117,900	309,642	4,712
Large							
Total	858,253	135,001	28,590	67,802	91,629	91,345	443,886
Permanent	767,944	116,687	22,448	57,817	75,722	51,884	443,386
Temporary	90,309	18,314	6,142	9,985	15,907	39,461	500
Medium							
Total	423,587	44,441	22,554	44,512	61,725	72,875	177,480
Permanent	380,674	38,969	19,764	38,199	50,390	58,704	174,648
Temporary	42,913	5,472	2,790	6,313	11,335	14,171	2,832
Small							
Total	994,395	140,328	54,311	107,541	207,377	338,545	146,293
Permanent	811,066	127,309	46,798	88,809	159,024	243,858	145,268
Temporary	183,329	13,019	7,513	18,732	48,353	94,687	1,025
Micro							
Total	1,106,971	19,274	19,436	57,900	197,499	756,979	55,883
Permanent	886,956	16,946	16,405	47,227	155,194	595,656	55,528
Temporary	220,015	2,328	3,031	10,673	42,305	161,323	355

Table A13: Distribution of persons engaged in LSM establishments by status and year of establishment

LMSM/Year of Establishment	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Total	2,479,492	132,657	65,181	737,474	44,769	77,397	162,215	68,993	42,107	26,249	15,479
Before 1975	210,240	20,592	14,725	60,891	12,790	20,555	28,140	12,228	10,379	6,369	4,297
1975-1984	75,406	6,769	5,950	13,153	2,046	9,683	10,541	3,913	2,289	1,036	590
1985-1994	179,952	11,571	8,800	42,330	7,872	8,220	19,483	9,463	7,268	3,579	3,466
1995-2004	369,910	18,253	9,921	67,519	6,523	13,348	25,829	15,745	8,638	4,300	2,335
2005- 2014	955,551	20,627	13,208	75,992	11,041	14,185	28,857	12,956	11,080	6,773	3,853
Not stated	688,433	54,845	12,577	477,589	4,497	11,406	49,365	14,688	2,453	4,192	938
Large											
Total	858,253	80,210	34,773	514,318	22,782	44,088	83,784	36,707	20,362	13,890	7,339
Before 1975	135,001	14,765	7,937	50,704	7,697	14,200	18,044	7,269	7,316	4,014	3,055
1975-1984	28,590	3,308	3,389	7,185	160	6,709	5,809	734	909	387	
1985-1994	67,802	5,327	5,265	29,782	3,295	3,617	8,909	4,386	3,838	1,502	1,881
1995-2004	91,629	8,733	4,072	41,595	3,230	6,923	10,128	10,281	3,847	1,953	867
2005- 2014	91,345	10,157	5,581	41,601	5,420	6,553	9,317	4,453	3,430	3,473	1,360
Not stated	443,886	37,920	8,529	343,451	2,980	6,086	31,577	9,584	1,022	2,561	176
Medium											
Total	423,587	43,040	22,828	200,148	16,170	25,222	62,326	24,478	14,463	9,001	5,911
Before 1975	44,441	4,548	5,297	9,318	3,691	4,497	7,822	3,769	2,468	2,015	1,016
1975-1984	22,554	2,792	2,053	5,381	1,499	2,418	3,917	2,590	949	481	474
1985-1994	44,512	5,005	2,643	11,024	3,649	3,581	8,870	4,213	2,524	1,678	1,325
1995-2004	61,725	7,467	4,281	21,624	2,159	4,803	12,072	3,801	2,916	1,603	999
2005- 2014	72,875	7,119	4,934	25,379	3,885	5,155	13,219	5,542	4,363	1,808	1,471
Not stated	177,480	16,109	3,620	127,422	1,287	4,768	16,426	4,563	1,243	1,416	626
Small											
Total	90,681	9,407	7,580	23,008	5,817	8,087	16,105	7,808	7,282	3,358	2,229
Before 1975	11,524	1,279	1,491	869	1,402	1,858	2,274	1,190	595	340	226
1975-1984	4,826	669	508	587	387	556	815	589	431	168	116
1985-1994	9,738	1,239	892	1,524	928	1,022	1,704	864	906	399	260
1995-2004	19,057	2,053	1,568	4,300	1,134	1,622	3,629	1,663	1,875	744	469
2005- 2014	34,352	3,351	2,693	9,012	1,736	2,477	6,321	2,961	3,287	1,492	1,022
Not stated	11,184	816	428	6,716	230	552	1,362	541	188	215	136

Table A13: Distribution of persons engaged in LMSM establishments by status and year of establishment

LMSM/Year of Establishment	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Micro											
Total	1,106,971	113,689	90,736	295,137	71,298	98,798	216,576	85,576	77,246	32,164	25,751
Before 1975	19,274	2,377	2,411	1,671	2,511	3,036	3,670	1,645	1,244	402	307
1975-1984	19,436	2,397	1,960	2,974	1,970	2,464	3,449	1,646	1,659	567	350
1985-1994	57,900	6,975	5,163	10,902	5,552	6,233	11,222	4,541	4,603	1,588	1,121
1995-2004	197,499	20,528	15,822	47,234	13,751	19,116	39,996	15,729	15,791	5,444	4,088
2005- 2014	756,979	77,904	63,337	202,362	45,750	65,120	150,885	58,896	51,753	22,637	18,335
Not stated	55,883	3,508	2,043	29,994	1,764	2,829	7,354	3,119	2,196	1,526	1,550

Table A14: Distribution of persons engaged by year of establishment and type of legal organization

Year of Establishment	Total	Sole Proprietor- ship	Partnership	Private Limited Company by Guarantee	Public Limited Company	Statutory	Other Govern- mental Institu-tions (MDAs etc.)	Quasi- Govern- ment	Parastatal Government	Non- Govern- mental Organiza- tion (NGO)	Coopera- tive	Associa- tion/ Groups
Total	3,383,206	1,630,182	246,836	676,263	52,630	68,094	366,690	44,593	12,339	184,960	13,377	87,242
Before 1975	339,044	28,429	12,012	17,915	16,119	28,719	144,514	20,684	5,176	50,566	790	14,120
1975-1984	124,891	28,561	10,652	15,849	3,325	4,385	29,371	4,263	497	17,873	923	9,192
1985-1994	277,755	89,755	17,714	27,434	5,889	11,764	69,236	4,713	1,926	31,834	2,422	15,068
1995-2004	558,230	294,115	55,612	64,495	8,811	7,460	50,391	7,994	2,208	41,361	3,986	21,797
2005- 2014	1,259,744	869,980	148,110	98,844	12,152	8,288	47,258	6,561	1,787	37,392	5,057	24,315
Not stated	823,542	319,342	2,736	451,726	6,334	7,478	25,920	378	745	5,934	199	2,750

Table A15: Distribution of persons engaged by subsector, sex and region

Industrial sector/sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Industrial Sector												
Both sexes	3,383,206	100.0	334,433	232,078	1,284,340	171,823	255,639	540,471	230,809	183,375	88,753	61,485
Male	2,039,032	60.3	201,104	129,972	801,925	99,697	145,598	313,813	135,884	121,583	51,730	37,726
Female	1,344,174	39.7	133,329	102,106	482,415	72,126	110,041	226,658	94,925	61,792	37,023	23,759
Manufacturing												
Both sexes	437,316	12.9	38,327	25,806	155,472	24,599	30,273	77,635	31,432	31,721	13,255	8,796
Male	262,489	60.0	22,706	13,827	100,334	14,404	16,893	49,313	17,174	17,937	5,492	4,409
Female	174,827	40.0	15,621	11,979	55,138	10,195	13,380	28,322	14,258	13,784	7,763	4,387
Mining and Quarrying												
Both sexes	42,576	1.3	21,630	457	14,092	315	1,416	2,922	900	13	727	104
Male	32,310	75.9	16,463	372	10,336	220	1,086	2,403	642	12	676	100
Female	10,266	24.1	5,167	85	3,756	95	330	519	258	1	51	4
Electricity and Gas												
Both sexes	10,810	0.3	1,049	431	4,801	557	1,093	797	1,043	481	286	272
Male	8,415	77.8	828	344	3,606	459	744	576	968	425	224	241
Female	2,395	28.5	221	87	1,195	98	349	221	75	56	62	31
Water Supply, Sewage and Waste Management												
Both sexes	35,943	1.1	6,945	4,885	14,102	1,231	1,700	3,130	1,571	973	1,338	68
Male	22,561	62.8	3,697	2,847	9,499	834	1,043	2,246	927	672	749	47
Female	13,382	59.3	3,248	2,038	4,603	397	657	884	644	301	589	21
Construction												
Both sexes	87,872	2.6	5,597	2,349	60,617	2,266	1,898	7,979	1,987	2,131	1,536	1,512
Male	69,430	79.0	4,666	2,067	45,621	2,132	1,645	6,669	1,820	1,945	1,419	1,446
Female	18,442	26.6	931	282	14,996	134	253	1,310	167	186	117	66

Table A15: Distribution of persons engaged by subsector, sex and region (cont'd)

Industrial Sector/Sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Wholesale and Retail Trade												
Both sexes	817,848	24.2	83,157	53,297	307,868	35,794	58,917	147,781	52,526	45,837	18,328	14,343
Male	479,816	58.7	47,955	28,228	186,309	19,040	30,151	83,073	32,403	31,116	11,737	9,804
Female	338,032	70.5	35,202	25,069	121,559	16,754	28,766	64,708	20,123	14,721	6,591	4,539
Transportation and Storage												
Both sexes	75,270	2.2	10,122	1,705	46,753	1,652	2,302	6,782	2,927	1,501	919	607
Male	57,493	76.4	7,873	1,525	34,216	1,383	2,119	5,963	1,688	1,314	880	532
Female	17,777	23.6	2,249	180	12,537	269	183	819	1,239	187	39	75
Accommodation and Food												
Both sexes	190,565	5.6	18,725	14,315	70,142	11,169	14,967	29,498	12,632	9,215	6,186	3,716
Male	76,139	40	8,069	5,636	30,726	4,070	5,963	10,835	4,773	2,840	1,644	1,583
Female	114,426	60	10,656	8,679	39,416	7,099	9,004	18,663	7,859	6,375	4,542	2,133
Information and Communication												
Both sexes	39,506	1.2	1,660	1,121	27,720	880	1,220	3,782	1,354	740	675	354
Male	28,842	73	1,262	912	19,590	652	978	2,985	1,092	586	502	283
Female	10,664	27	398	209	8,130	228	242	797	262	154	173	71
Financial and Insurance												
Both sexes	121,459	3.6	6,732	6,160	71,763	3,318	6,978	15,310	6,362	2,712	1,058	1,066
Male	74,993	61.7	3,797	3,806	44,959	2,217	4,260	8,780	3,892	1,909	657	716
Female	46,466	38.3	2,935	2,354	26,804	1,101	2,718	6,530	2,470	803	401	350
Real Estate												
Both sexes	10,410	0.3	319	269	8,903	36	208	612	29	14	7	13
Male	7,836	75.3	241	221	6,695	31	181	413	25	12	7	10
Female	2,574	24.7	78	48	2,208	5	27	199	4	2	0	3
Professional, Scientific and Tech.												
Both sexes	79,693	2.4	3,823	2,146	54,873	990	5,426	6,077	1,948	1,832	2,025	553
Male	56,461	70.8	2,805	1,420	38,595	765	4,114	4,296	1,384	1,464	1,224	394
Female	23,232	29.2	1,018	726	16,278	225	1,312	1,781	564	368	801	159

Table A15: Distribution of persons engaged by subsector, sex and region (cont'd)

Industrial Sector/Sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Professional, Scientific and Technical												
Both sexes	79,693	2.4	3,823	2,146	54,873	990	5,426	6,077	1,948	1,832	2,025	553
Male	56,461	70.8	2,805	1,420	38,595	765	4,114	4,296	1,384	1,464	1,224	394
Female	23,232	29.2	1,018	726	16,278	225	1,312	1,781	564	368	801	159
Administrative and Support Service Activities												
Both sexes	102,673	3	5,153	1,624	78,975	1,156	1,598	9,523	1,144	1,649	1,490	361
Male	73,923	72	3,619	1,134	57,019	814	1,272	6,613	828	1,363	1,002	259
Female	28,750	28	1,534	490	21,956	342	326	2,910	316	286	488	102
Public Administration and Defence												
Both sexes	170,626	5	10,565	11,356	72,324	9,662	11,890	24,065	13,972	8,070	4,933	3,789
Male	117,357	68.8	7,764	7,739	47,822	7,180	7,991	16,487	9,538	6,195	3,782	2,859
Female	53,269	31.2	2,801	3,617	24,502	2,482	3,899	7,578	4,434	1,875	1,151	930
Education												
Both sexes	477,068	14.1	40,421	47,179	119,521	35,923	48,326	86,103	43,051	28,365	16,676	11,503
Male	287,483	60.3	24,253	28,179	66,442	22,474	28,953	51,294	27,092	20,822	11,000	6,974
Female	189,585	65.9	16,168	19,000	53,079	13,449	19,373	34,809	15,959	7,543	5,676	4,529
Human Health and Social Work												
Both sexes	143,008	4.2	9,504	9,698	44,625	8,806	12,487	24,254	12,885	10,013	6,907	3,829
Male	72,029	50.4	4,365	4,289	24,878	3,554	6,031	10,666	6,554	6,087	3,743	1,862
Female	70,979	49.6	5,139	5,409	19,747	5,252	6,456	13,588	6,331	3,926	3,164	1,967
Arts, Entertainment and Recreation												
Both sexes	18,755	0.6	1,192	1,493	7,365	798	785	4,849	1,006	619	364	284
Male	14,676	78.3	853	1,202	5,290	678	637	4,036	862	555	332	231
Female	4,079	21.7	339	291	2,075	120	148	813	144	64	32	53

Table A15: Distribution of persons engaged by subsector, sex and region (cont'd)

Industrial Sector/Sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Other Services												
Both sexes	461,686	13.7	59,671	43,995	104,520	29,386	45,494	82,389	38,904	35,879	11,663	9,785
Male	252,046	125.5	32,801	23,605	55,616	16,534	24,656	41,559	20,384	24,958	6,367	5,566
Female	209,640	74.5	26,870	20,390	48,904	12,852	20,838	40,830	18,520	10,921	5,296	4,219
Household Employers												
Both sexes	229	0	24		198		6		1			
Male	155	67.7	16		132		6		1			
Female	74	32.3	8		66		0		0			
Crops												
Both sexes	42,672	1.3	7,797	3,007	16,551	2,375	7,019	1,914	2,522	840	235	412
Male	30,747	72.1	5,496	1,994	11,904	1,467	5,502	1,491	1,696	701	179	317
Female	11,925	27.9	2,301	1,013	4,647	908	1,517	423	826	139	56	95
Livestock and Poultry												
Both sexes	9,355	0.3	1,183	526	852	429	507	2,943	2,158	573	109	75
Male	7,576	81	813	408	683	363	419	2,482	1,779	497	80	52
Female	1,779	19	370	118	169	66	88	461	379	76	29	23
Forestry and Logging												
Both sexes	5,016	0.1	783	208	548	382	464	2,042	355	156	36	42
Male	4,106	81.9	719	177	373	329	428	1,578	288	140	34	40
Female	910	18.1	64	31	175	53	36	464	67	16	2	2
Fishing and Aquaculture												
Both sexes	2,850	0.1	54	51	1,755	99	665	84	100	41		1
Male	2,149	75.4	43	40	1,280	97	526	55	74	33		1
Female	701	24.6	11	11	475	2	139	29	26	8		0

Table A16: Distribution of persons engaged by status of employment by region

Type of Employees/ Sector	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Activities												
Total Employees	3,383,206	100.0	334,433	232,078	1,284,340	171,823	255,639	540,471	230,809	183,375	88,753	61,485
Permanent	2,846,640	84.1	268,606	188,677	1,159,051	139,234	205,675	450,988	183,534	138,687	66,015	46,173
Temporary	536,566	15.9	65,827	43,401	125,289	32,589	49,964	89,483	47,275	44,688	22,738	15,312
Industry												
Total Employees	614,517	100.0	73,548	33,928	249,084	28,968	36,380	92,463	36,933	35,319	17,142	10,752
Permanent	468,262	76.2	54,140	21,237	213,486	20,518	26,065	69,469	24,852	21,224	10,229	7,042
Temporary	146,255	23.8	19,408	12,691	35,598	8,450	10,315	22,994	12,081	14,095	6,913	3,710
Services												
Total Employees	2,708,796	100.0	251,068	194,358	1,015,550	139,570	210,604	441,025	188,741	146,446	71,231	50,203
Permanent	2,329,459	86.0	206,210	164,527	926,871	116,646	174,814	375,902	154,188	116,089	55,536	38,676
Temporary	379,337	14.0	44,858	29,831	88,679	22,924	35,790	65,123	34,553	30,357	15,695	11,527
Agriculture												
Total Employees	59,893	100.0	9,817	3,792	19,706	3,285	8,655	6,983	5,135	1,610	380	530
Permanent	48,919	81.7	8,256	2,913	18,694	2,070	4,796	5,617	4,494	1,374	250	455
Temporary	10,974	18.3	1,561	879	1,012	1,215	3,859	1,366	641	236	130	75

Table A17: Distribution of persons engaged by sex, status of employment and region

Type of Employees/Sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Employees	3,383,206	100.0	334,433	232,078	1,284,340	171,823	255,639	540,471	230,809	183,375	88,753	61,485
Male	2,039,032	60.3	201,104	129,972	801,925	99,697	145,598	313,813	135,884	121,583	51,730	37,726
Female	1,344,174	39.7	133,329	102,106	482,415	72,126	110,041	226,658	94,925	61,792	37,023	23,759
Permanent	2,846,640	84.1	268,606	188,677	1,159,051	139,234	205,675	450,988	183,534	138,687	66,015	46,173
Male	1,747,532	61.4	165,441	107,561	730,432	82,475	119,073	265,847	111,444	95,331	40,259	29,669
Female	1,099,108	38.6	103,165	81,116	428,619	56,759	86,602	185,141	72,090	43,356	25,756	16,504
Temporary	536,566	15.9	65,827	43,401	125,289	32,589	49,964	89,483	47,275	44,688	22,738	15,312
Male	291,500	54.3	35,663	22,411	71,493	17,222	26,525	47,966	24,440	26,252	11,471	8,057
Female	245,066	45.7	30,164	20,990	53,796	15,367	23,439	41,517	22,835	18,436	11,267	7,255
Ghanaians	3,372,269	99.7	333,404	231,430	1,278,699	170,585	255,261	539,845	230,373	182,736	88,510	61,426
Male	2,030,506	60.2	200,226	129,544	797,567	98,796	145,309	313,303	135,504	121,030	51,538	37,689
Female	1,341,763	39.8	133,178	101,886	481,132	71,789	109,952	226,542	94,869	61,706	36,972	23,737
Permanent	2,837,377	84.1	267,726	188,114	1,154,199	138,266	205,374	450,439	183,134	138,124	65,865	46,136
Male	1,740,182	61.3	164,670	107,182	726,687	81,717	118,834	265,387	111,090	94,831	40,139	29,645
Female	1,097,195	38.7	103,056	80,932	427,512	56,549	86,540	185,052	72,044	43,293	25,726	16,491
Temporary	534,892	15.9	65,678	43,316	124,500	32,319	49,887	89,406	47,239	44,612	22,645	15,290
Male	290,324	54.3	35,556	22,362	70,880	17,079	26,475	47,916	24,414	26,199	11,399	8,044
Female	244,568	45.7	30,122	20,954	53,620	15,240	23,412	41,490	22,825	18,413	11,246	7,246
Non-Ghanaians	10,937	0.3	1,029	648	5,641	1,238	378	626	436	639	243	59
Male	8,526	78.0	878	428	4,358	901	289	510	380	553	192	37
Female	2,411	22.0	151	220	1,283	337	89	116	56	86	51	22
Permanent	9,263	84.7	880	563	4,852	968	301	549	400	563	150	37
Male	7,350	79.3	771	379	3,745	758	239	460	354	500	120	24
Female	1,913	20.7	109	184	1,107	210	62	89	46	63	30	13
Temporary	1,674	15.3	149	85	789	270	77	77	36	76	93	22
Male	1,176	70.3	107	49	613	143	50	50	26	53	72	13
Female	498	29.7	42	36	176	127	27	27	10	23	21	9

Table A18: Distribution of persons engaged by type of legal organization, sector and region

Type of Legal Organization/Sector	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors												
Total	3,383,206	100.0	334,433	232,078	1,284,340	171,823	255,639	540,471	230,809	183,375	88,753	61,485
Sole Proprietorship	1,630,182	48.2	158,070	117,506	564,321	79,945	123,647	299,203	118,013	95,144	43,060	31,273
Partnership	246,836	7.3	27,497	17,166	71,003	11,714	21,053	49,767	21,067	14,572	8,341	4,656
Private Limited Company by Guarantee	676,263	20.0	55,255	18,588	496,901	9,565	21,031	47,405	14,956	6,166	4,619	1,777
Public Limited Company	52,630	1.6	10,739	5,281	15,678	3,322	3,721	7,374	2,280	2,619	608	1,008
Statutory	68,094	2.0	6,760	4,000	26,093	4,957	3,913	8,141	6,856	3,002	1,917	2,455
Other Governmental Institutions (MDAs etc.)	366,690	10.8	28,418	34,176	55,986	34,925	42,714	68,444	38,880	31,688	19,621	11,838
Quasi-Government	44,593	1.3	4,583	4,046	6,969	4,056	5,087	6,672	4,965	4,770	1,716	1,729
Parastatal Government	12,339	0.4	564	540	4,984	692	1,903	1,351	1,201	214	793	97
Non-Governmental Organization (NGO)	184,960	5.5	23,724	23,773	17,127	19,278	25,739	39,984	18,159	10,732	4,718	1,726
Cooperative	13,377	0.4	1,120	940	3,380	839	1,502	2,724	1,775	648	290	159
Association/Groups	87,242	2.6	17,703	6,062	21,898	2,530	5,329	9,406	2,657	13,820	3,070	4,767
Industry												
Total	614,517	100.0	73,548	33,928	249,084	28,968	36,380	92,463	36,933	35,319	17,142	10,752
Sole Proprietorship	334,199	54.4	35,268	21,851	92,306	20,926	24,079	64,749	25,391	27,992	12,583	9,054
Partnership	45,294	7.4	4,855	3,810	12,262	2,881	4,055	8,591	3,341	3,272	1,488	739
Private Limited Company by Guarantee	202,896	33.0	28,638	6,636	133,831	2,296	6,156	15,378	6,022	2,040	1,539	360
Public Limited Company	14,012	2.3	3,411	842	5,310	2,081	330	1,075	520	250	34	159
Statutory	3,364	0.5	152	161	1,857	110	104	181	411	321	18	49
Other Governmental Institutions (MDAs etc.)	3,993	0.6	659	136	1,125	140	351	456	175	328	509	114
Quasi-Government	1,145	0.2	6	68	78	83	69	610	190	31	-	10
Parastatal Government	3,908	0.6	83	133	1,922	111	935	267	237	35	173	12
Non-Governmental Organization (NGO)	993	0.2	49	101	67	59	57	103	28	323	175	31
Cooperative	2,019	0.3	43	58	212	19	21	739	531	145	205	46
Association/Groups	2,694	0.4	384	132	114	262	223	314	87	582	418	178

Table A18: Distribution of persons engaged by type of legal organization, sector and region (cont'd)

Type of Legal Organization/Sector	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Services												
Total	2,708,796	100.0	251,068	194,358	1,015,550	139,570	210,604	441,025	188,741	146,446	71,231	50,203
Sole Proprietorship	1,275,828	47.1	117,002	93,353	469,401	58,088	97,247	231,490	90,064	66,699	30,414	22,070
Partnership	197,160	7.3	21,393	13,143	58,282	8,568	16,648	40,199	17,270	11,054	6,743	3,860
Private Limited Company by Guarantee	445,905	16.5	24,940	11,207	347,370	5,841	10,472	30,288	7,467	3,925	3,080	1,315
Public Limited Company	37,700	1.4	7,146	4,415	10,235	1,079	3,374	5,922	1,737	2,369	574	849
Statutory	63,136	2.3	6,112	3,675	24,113	4,736	3,721	7,724	6,251	2,596	1,863	2,345
Other Governmental Institutions (MDAs etc.)	359,634	13.3	27,436	33,844	54,280	34,596	41,998	67,369	38,537	30,894	19,012	11,668
Quasi-Government	43,105	1.6	4,518	3,913	6,891	3,973	4,805	6,056	4,775	4,739	1,716	1,719
Parastatal Government	8,165	0.3	481	378	3,062	581	935	1,029	851	179	584	85
Non-Governmental Organization (NGO)	183,383	6.8	23,668	23,672	17,025	19,023	25,653	39,877	18,012	10,326	4,508	1,619
Cooperative	10,421	0.4	1,057	834	3,157	820	647	1,985	1,242	481	85	113
Association/Groups	84,359	3.1	17,315	5,924	21,734	2,265	5,104	9,086	2,535	13,184	2,652	4,560
Agriculture												
Total	59,893	100.0	9,817	3,792	19,706	3,285	8,655	6,983	5,135	1,610	380	530
Sole Proprietorship	20,155	33.7	5,800	2,302	2,614	931	2,321	2,964	2,558	453	63	149
Partnership	4,382	7.3	1,249	213	459	265	350	977	456	246	110	57
Private Limited Company by Guarantee	27,462	45.9	1,677	745	15,700	1,428	4,403	1,739	1,467	201	-	102
Public Limited Company	918	1.5	182	24	133	162	17	377	23	-	-	-
Statutory	1,594	2.7	496	164	123	111	88	236	194	85	36	61
Other Governmental Institutions (MDAs etc.)	3,063	5.1	323	196	581	189	365	619	168	466	100	56
Quasi-Government	343	0.6	59	65	-	-	213	6	-	-	-	-
Parastatal Government	266	0.4	-	29	-	-	33	55	113	-	36	-
Non-Governmental Organization (NGO)	584	1.0	7	-	35	196	29	4	119	83	35	76
Cooperative	937	1.6	20	48	11	-	834	-	2	22	-	-
Associations/Groups	189	0.3	4	6	50	3	2	6	35	54	-	29

Table A19: Distribution of persons engaged by sector, status and type of legal organization

Sector/Status	Total	Sole Proprietorship	Partnership	Private Limited Company by Guarantee	Public Limited Company	Statutory	Other Governmental Institutions (MDAs etc.)	Quasi-Government	Parastatal Government	Non-Governmental Organization (NGO)	Cooperative	Associations/Groups
Total												
Total	3,383,206	1,630,182	246,836	676,263	52,630	68,094	366,690	44,593	12,339	184,960	13,377	87,242
Permanent	2,846,640	1,301,381	188,712	622,346	44,223	62,213	335,352	39,102	11,060	158,572	10,373	73,306
Temporary	536,566	328,801	58,124	53,917	8,407	5,881	31,338	5,491	1,279	26,388	3,004	13,936
Industry												
Total	614,517	334,199	45,294	202,896	14,012	3,364	3,993	1,145	3,908	993	2,019	2,694
Permanent	468,262	231,225	29,872	180,540	11,353	3,163	3,293	826	3,500	738	1,657	2,095
Temporary	146,255	102,974	15,422	22,356	2,659	201	700	319	408	255	362	599
Service												
Total	2,708,796	1,275,828	197,160	445,905	37,700	63,136	359,634	43,105	8,165	183,383	10,421	84,359
Permanent	2,329,459	1,052,295	156,429	418,770	32,158	57,711	329,482	38,026	7,423	157,517	8,606	71,042
Temporary	379,337	223,533	40,731	27,135	5,542	5,425	30,152	5,079	742	25,866	1,815	13,317
Agriculture												
Total	59,893	20,155	4,382	27,462	918	1,594	3,063	343	266	584	937	189
Permanent	48,919	17,861	2,411	23,036	712	1,339	2,577	250	137	317	110	169
Temporary	10,974	2,294	1,971	4,426	206	255	486	93	129	267	827	20

Table A20: Distribution of persons engaged by sub-sectors and type of legal organization

Subsector	Total	Sole Proprietorship	Partnership	Private Limited Company by Guarantee	Public Limited Company	Statutory	Other Governmental Institutions (MDAs etc.)	Quasi-Government	Parastatal Government	Non-Governmental Organization (NGO)	Cooperative	Associations/Groups
Total	3,383,206	1,630,182	246,836	676,263	52,630	68,094	366,690	44,593	12,339	184,960	13,377	87,242
Industry												
Manufacturing	437,316	291,714	35,297	98,151	5,600	24	649	595	245	748	1,849	2,444
Mining and Quarrying	42,576	5,514	1,607	33,687	1,347		149		30	0	140	102
Electricity and Gas	10,810	1,274	644	1,378	3,134	726	506	218	2,929	0	1	
Water Supply, Sewage, and Waste Management	35,943	12,183	5,074	12,490	2,736	520	1,659	330	688	152	15	96
Services												
Construction	87,872	23,514	2,672	57,190	1,195	2,094	1,030	2	16	93	14	52
Wholesale and Retail Trade	817,848	576,935	91,302	134,702	6,438	281	2,209	257	340	271	1,810	3,303
Transportation and Storage	75,270	12,717	5,499	36,660	6,141	926	3,083	262	445	229	3,398	5,910
Accommodation and Food	190,565	144,558	21,190	22,201	632	121	644	447	173	172	144	283
Information and Communication	39,506	12,767	2,231	20,439	334	527	2,052	32	561	281	58	224
Financial and Insurance	121,459	27,745	8,543	71,665	5,624	1,602	1,529	287	340	517	3,047	560
Real Estate	10,410	2,152	455	7,357	113	11	227	0	0	2	0	93
Professional, Scientific and Technical	79,693	26,919	5,170	36,297	568	2,357	6,773	602	82	716	36	173
Administrative and Support Service Activities	102,673	31,786	5,375	60,424	263	1,265	2,117	486	32	605	131	189

Table A20: Distribution of persons engaged by subsectors and type of legal organization (cont'd)

Subsector	Total	Sole Proprietorship	Partnership	Private Limited Company by Guarantee	Public Limited Company	Statutory	Other Governmental Institutions (MDAs etc.)	Quasi-Government	Parastatal Government	Non-Governmental Organization (NGO)	Cooperative	Associations/Groups
Public Administration and Defence	170,626	39,876	180	2,010	6,374	34,774	81,467	2,210	2,221	1,069	216	229
Education	477,068	158,652	26,992	24,565	6,606	15,788	212,022	13,843	1,423	12,474	426	4,277
Human Health and Social Work	143,008	36,190	9,005	14,545	3,298	4,002	42,376	24,156	2,113	6,769	22	532
Arts, Entertainment and Recreation	18,755	9,685	2,273	3,180	516	742	1,464	142	295	223	17	218
Other Services	464,781	197,749	18,971	12,500	793	740	3,705	390	140	160,289	1,136	68,368
Agriculture												
Crops	42,672	12,204	2,837	22,375	785	641	2,084	278	209	319	840	100
Livestock and Poultry	9,355	6,940	1,054	931	1	10	217			45	74	83
Forestry and Logging	5,016	474	312	2,036	132	943	754	65	57	220	23	0
Fishing and Aquaculture	2,850	537	179	2,120	0	0	8	0	0	0	0	6

Table A21: Distribution of persons engaged by sectors and type of legal organization

Sector	Total	Sole Proprietorship	Partnership	Private Limited Company by Guarantee	Public Limited Company	Statutory	Other Governmental Institutions (MDAs etc.)	Quasi-Government	Parastatal Government	Non-Governmental Organization (NGO)	Cooperative	Associations/Groups
Total												
All Total	3,383,206	1,630,182	246,836	676,263	52,630	68,094	366,690	44,593	12,339	184,960	13,377	87,242
Industry	614,517	334,199	45,294	202,896	14,012	3,364	3,993	1,145	3,908	993	2,019	2,694
Services	2,708,796	1,275,828	197,160	445,905	37,700	63,136	359,634	43,105	8,165	183,383	10,421	84,359
Agriculture	59,893	20,155	4,382	27,462	918	1,594	3,063	343	266	584	937	189

Table A22: Distribution of persons engaged by size of establishment, skills and region

Employees/Skilled Workers	Total	Per cent	1-4	5-9	10-14	15-19	20-24	25-29	30-49	50-99	100-199	200+
Total												
Total Employees	3,383,206	100.0	969,681	485,255	256,689	167,016	116,701	81,724	214,763	223,024	214,410	653,943
<i>Skilled</i>	2,651,099	78.4	765,877	314,297	185,568	130,045	92,417	65,492	170,578	181,507	173,634	571,684
<i>Unskilled</i>	732,107	21.6	203,804	170,958	71,121	36,971	24,284	16,232	44,185	41,517	40,776	82,259
Western												
Total Employees	334,433	100.0	98,194	54,695	25,514	15,267	9,334	5,869	16,938	27,212	23,253	58,157
<i>Skilled</i>	240,341	71.9	73,254	32,492	17,045	10,957	6,992	4,307	12,346	20,430	16,398	46,120
<i>Unskilled</i>	94,092	28.1	24,940	22,203	8,469	4,310	2,342	1,562	4,592	6,782	6,855	12,037
Central												
Total Employees	232,078	100.0	79,936	38,608	22,013	17,414	9,976	4,700	11,874	12,384	11,781	23,392
<i>Skilled</i>	175,787	75.7	63,676	26,214	16,869	14,594	7,856	3,725	8,669	9,362	9,272	15,550
<i>Unskilled</i>	56,291	24.3	16,260	12,394	5,144	2,820	2,120	975	3,205	3,022	2,509	7,842
Greater Accra												
Total Employees	1,284,340	100.0	262,606	111,333	65,387	48,490	38,178	35,450	109,814	94,464	90,576	428,042
<i>Skilled</i>	1,101,654	85.8	212,417	80,830	51,397	40,084	32,090	29,347	91,034	83,885	82,610	397,960
<i>Unskilled</i>	182,686	14.2	50,189	30,503	13,990	8,406	6,088	6,103	18,780	10,579	7,966	30,082
Volta												
Total Employees	171,823	100.0	62,429	31,849	17,158	10,234	6,963	3,368	7,432	9,208	10,940	12,242
<i>Skilled</i>	139,662	81.3	53,673	23,172	13,748	8,572	5,778	2,885	6,159	7,413	8,600	9,662
<i>Unskilled</i>	32,161	18.7	8,756	8,677	3,410	1,662	1,185	483	1,273	1,795	2,340	2,580
Eastern												
Total Employees	255,639	100.0	87,158	42,332	23,937	15,723	9,905	5,354	11,619	14,523	18,997	26,091
<i>Skilled</i>	185,572	72.6	65,499	26,593	17,388	12,189	7,474	4,053	8,616	11,325	14,153	18,282
<i>Unskilled</i>	70,067	27.4	21,659	15,739	6,549	3,534	2,431	1,301	3,003	3,198	4,844	7,809
Ashanti												
Total Employees	540,471	100.0	191,861	85,214	45,559	30,488	22,259	14,570	31,529	33,507	29,685	55,799
<i>Skilled</i>	410,481	75.9	150,866	53,162	32,977	23,103	17,557	11,829	24,843	26,351	22,834	46,959
<i>Unskilled</i>	129,990	24.1	40,995	32,052	12,582	7,385	4,702	2,741	6,686	7,156	6,851	8,840

Table A22: Distribution of persons engaged by size of establishment, skills and region (cont'd)

Employees/Skilled Workers	Total	Per cent	"1-4	"5-9	"10-14	"15-19	"20-24	"25-29	"30-49	"50-99	"100-199	"200+
Brong Ahafo												
Total Employees	119,364	100.0	55,222	24,338	10,106	4,532	3,056	1,532	3,928	4,775	5,334	6,541
<i>Skilled</i>	41,980	35.2	8,199	7,285	4,936	2,690	2,084	1,023	2,984	3,440	4,269	5,070
<i>Unskilled</i>	77,384	64.8	47,023	17,053	5,170	1,842	972	509	944	1,335	1,065	1,471
Northern												
Total Employees	183,375	100.0	64,381	45,464	19,666	8,581	5,472	3,666	7,307	8,376	7,264	13,198
<i>Skilled</i>	130,799	71.3	52,441	28,072	12,046	5,593	3,762	2,648	5,435	6,025	4,964	9,813
<i>Unskilled</i>	52,576	28.7	11,940	17,392	7,620	2,988	1,710	1,018	1,872	2,351	2,300	3,385
Upper East												
Total Employees	88,753	100.0	26,699	20,422	8,841	4,660	2,701	1,939	3,978	5,323	6,610	7,580
<i>Skilled</i>	61,024	68.8	19,692	12,085	5,635	3,148	1,891	1,401	3,099	4,087	4,851	5,135
<i>Unskilled</i>	27,729	31.2	7,007	8,337	3,206	1,512	810	538	879	1,236	1,759	2,445
Upper West												
Total Employees	61,485	100.0	22,071	13,521	5,914	2,989	2,197	1,153	2,443	3,758	2,574	4,865
<i>Skilled</i>	40,636	66.1	16,480	7,301	3,519	2,097	1,621	739	1,768	2,188	1,771	3,152
<i>Unskilled</i>	20,849	33.9	5,591	6,220	2,395	892	576	414	675	1,570	803	1,713

Table A23: Distribution of establishments by type of legal organization, sector and region

Type of Legal Organization/Sector	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors												
Total	638,234	100.0	63,439	52,975	177,153	42,154	58,766	123,644	49,346	39,975	17,054	13,728
Sole Proprietorship	498,077	78.0	46,878	40,761	141,964	32,584	45,176	99,993	38,220	29,574	12,648	10,279
Partnership	50,939	8.0	6,457	3,887	12,182	2,615	5,110	10,950	4,229	2,767	1,622	1,120
Private Limited Company by Guarantee	27,965	4.4	2,172	1,468	17,607	695	1,080	2,906	943	559	290	245
Public Limited Company	2,997	0.5	724	413	384	109	392	522	218	121	61	53
Statutory	2,398	0.4	308	248	405	230	210	371	269	121	105	131
Other Governmental Institutions (MDAs etc.)	20,020	3.1	2,129	1,807	1,006	2,368	2,400	2,984	2,070	2,817	1,387	1,052
Quasi-Government	1,614	0.3	174	219	129	196	204	162	263	131	64	72
Parastatal Government	667	0.1	47	80	113	34	90	109	130	25	19	20
Non-Governmental Organization (NGO)	23,784	3.7	2,784	3,309	1,501	2,929	3,566	4,805	2,522	1,584	563	221
Cooperative	837	0.1	79	102	137	51	84	135	158	59	14	18
Association/Groups	8,936	1.4	1,687	681	1,725	343	454	707	324	2,217	281	517
Industry												
Total	108,242	100.0	9,899	8,250	27,302	9,115	9,558	20,752	7,899	8,662	3,752	3,053
Sole Proprietorship	94,055	86.9	8,564	7,433	21,869	8,309	8,546	18,394	7,109	7,795	3,339	2,697
Partnership	6,842	6.3	719	482	1,496	518	681	1,468	488	541	241	208
Private Limited Company by Guarantee	6,111	5.6	457	233	3,788	161	235	699	209	141	102	86
Public Limited Company	301	0.3	91	25	52	25	26	46	7	19	4	6
Statutory	79	0.1	8	8	9	10	5	14	15	7	1	2
Other Governmental Institutions (MDAs etc.)	246	0.2	20	24	21	20	15	22	13	83	19	9
Quasi-Government	32	0.0	2	3	3	4	4	7	4	4		1
Parastatal Government	141	0.1	9	9	30	8	21	31	18	5	6	4
Non-Governmental Organization (NGO)	98	0.1	4	6	7	13	10	24	6	20	6	2
Cooperative	77	0.1	9	10	5	6	4	14	14	6	5	4
Association/Groups	260	0.2	16	17	22	41	11	33	16	41	29	34

Table A23: Distribution of establishments by type of legal organization, sector and region (cont'd)

Type of Legal Organization/Sector	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Services												
Total	527,161	100.0	53,322	44,519	149,513	32,879	48,819	102,219	40,873	31,108	13,279	10,630
Sole Proprietorship	402,096	76.3	38,177	33,172	119,942	24,173	36,359	81,099	30,654	21,658	9,302	7,560
Partnership	43,772	8.3	5,711	3,384	10,662	2,077	4,383	9,405	3,669	2,194	1,377	910
Private Limited Company by Guarantee	21,535	4.1	1,690	1,226	13,670	518	802	2,162	715	409	188	155
Public Limited Company	2,660	0.5	626	386	331	79	363	460	209	102	57	47
Statutory	2,274	0.4	290	234	395	215	203	350	247	111	103	126
Other Governmental Institutions (MDAs etc.)	19,680	3.7	2,101	1,776	981	2,338	2,377	2,944	2,048	2,714	1,362	1,039
Quasi-Government	1,574	0.3	171	215	126	192	195	154	259	127	64	71
Parastatal Government	514	0.1	38	70	83	26	68	73	109	20	11	16
Non-Governmental Organization (NGO)	23,651	4.5	2,779	3,303	1,490	2,915	3,551	4,779	2,513	1,556	554	211
Cooperative	750	0.1	69	90	131	45	76	121	143	52	9	14
Association/Groups	8,655	1.6	1,670	663	1,702	301	442	672	307	2,165	252	481
Agriculture												
Total	2,831	100.0	218	206	338	160	389	673	574	205	23	45
Sole Proprietorship	1,926	68.0	137	156	153	102	271	500	457	121	7	22
Partnership	325	11.5	27	21	24	20	46	77	72	32	4	2
Private Limited Company by Guarantee	319	11.3	25	9	149	16	43	45	19	9		4
Public Limited Company	36	1.3	7	2	1	5	3	16	2			
Statutory	45	1.6	10	6	1	5	2	7	7	3	1	3
Other Governmental Institutions (MDAs etc.)	94	3.3	8	7	4	10	8	18	9	20	6	4
Quasi-Government	8	0.3	1	1			5	1				
Parastatal Government	12	0.4		1			1	5	3		2	
Non-Governmental Organization (NGO)	35	1.2	1		4	1	5	2	3	8	3	8
Cooperative	10	0.4	1	2	1		4		1	1		
Association/Groups	21	0.7	1	1	1	1	1	2	1	11		2

Table A24: Distribution of establishments by owners' nationality, sector and region

Nationality of Owner/Sector	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors												
Total	638,234	100.0	63,439	52,975	177,153	42,154	58,766	123,644	49,346	39,975	17,054	13,728
Ghanaian	629,342	98.6	62,437	52,240	174,106	40,978	58,153	122,735	48,738	39,477	16,874	13,604
Non-Ghanaian	7,190	1.1	823	619	2,427	1,042	465	643	508	420	138	105
Ghanaian and Non-Ghanaian	1,702	0.3	179	116	620	134	148	266	100	78	42	19
Industry												
Total	108,242	100.0	9,899	8,250	27,302	9,115	9,558	20,752	7,899	8,662	3,752	3,053
Ghanaian	107,378	99.2	9,805	8,207	26,915	8,972	9,507	20,673	7,866	8,643	3,742	3,048
Non-Ghanaian	683	0.6	73	32	299	128	37	60	29	13	8	4
Ghanaian and Non-Ghanaian	181	0.2	21	11	88	15	14	19	4	6	2	1
Services												
Total	527,161	100.0	53,322	44,519	149,513	32,879	48,819	102,219	40,873	31,108	13,279	10,630
Ghanaian	519,206	98.5	52,420	43,832	146,864	31,857	48,273	101,397	40,305	30,632	13,110	10,516
Non-Ghanaian	6,465	1.2	748	586	2,121	909	417	579	473	406	129	97
Ghanaian and Non-Ghanaian	1,490	0.3	154	101	528	113	129	243	95	70	40	17
Agriculture												
Total	2,831	100.0	218	206	338	160	389	673	574	205	23	45
Ghanaian	2,758	97.4	212	201	327	149	373	665	567	202	22	40
Non-Ghanaian	42	1.5	2	1	7	5	11	4	6	1	1	4
Ghanaian and Non-Ghanaian	31	1.1	4	4	4	6	5	4	1	2		1

Table A25: Distribution of establishments in the private sector by sector, owners nationality and region, in percentages

Distribution Type/Sector	National	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors											
All nationals	100.0	9.8	8.2	28.7	6.4	9.1	19.6	7.6	6.1	2.5	2
Ghanaian	100.0	9.8	8.2	28.6	6.3	9.1	19.7	7.6	6.1	2.6	2
Non-Ghanaian	100.0	11.5	8.6	33.7	14.6	6.5	8.9	7.1	5.8	1.9	1.5
Ghanaian and Non-Ghanaian	100.0	10.5	6.6	38.8	8.5	8.9	12.9	5.9	4.2	2.7	1
Industry											
All nationals	100.0	9.1	7.6	25.3	8.4	8.8	19.2	7.3	8	3.5	2.8
Ghanaian	100.0	9	7.6	25.2	8.4	8.9	19.3	7.3	8	3.5	2.8
Non-Ghanaian	100.0	10.7	4.7	43.4	19	5.5	8.7	4.3	1.9	1.2	0.6
Ghanaian and Non-Ghanaian	100.0	8.6	6.1	50.3	9.2	8.6	9.8	2.5	3.1	1.2	0.6
Services											
All nationals	100.0	10	8.3	29.5	6	9.1	19.6	7.6	5.7	2.4	1.9
Ghanaian	100.0	10	8.3	29.4	5.9	9.1	19.8	7.6	5.7	2.4	1.9
Non-Ghanaian	100.0	11.6	9	32.8	14.1	6.4	8.9	7.4	6.3	2	1.5
Ghanaian and Non-Ghanaian	100.0	10.8	6.6	37.8	8.1	8.7	13.3	6.3	4.4	3	0.9
Agriculture											
All nationals	100.0	7.1	7.2	12.7	5.3	13.9	23.9	20.9	7.1	0.6	1.4
Ghanaian	100.0	7.2	7.2	12.6	5	13.6	24.2	21.1	7.2	0.5	1.3
Non-Ghanaian	100.0	2.5	2.5	17.5	12.5	27.5	10	15	2.5	2.5	7.5
Ghanaian and Non-Ghanaian	100.0	4.3	13	13	26.1	21.7	8.7	4.3	4.3	0	4.3

Table A26: Distribution of establishments in the private sector by sector owners' nationality and region

Distribution Type/Sector	National	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Economic Activities											
All nationals	610,839	59,915	50,132	175,251	39,149	55,478	119,489	46,371	37,119	15,549	12,386
Ghanaian	602,267	58,948	49,426	172,287	37,988	54,889	118,668	45,779	36,643	15,371	12,268
Non-Ghanaian	7,109	814	609	2,396	1,036	459	633	506	414	138	104
Ghanaian and Non-Ghanaian	1,463	153	97	568	125	130	188	86	62	40	14
Industry											
All nationals	107,349	9,722	8,163	27,183	9,040	9,481	20,624	7,835	8,546	3,722	3,033
Ghanaian	106,511	9,636	8,121	26,808	8,897	9,430	20,549	7,802	8,528	3,712	3,028
Non-Ghanaian	675	72	32	293	128	37	59	29	13	8	4
Ghanaian and Non-Ghanaian	163	14	10	82	15	14	16	4	5	2	1
Services											
All nationals	500,868	50,006	41,781	147,736	29,971	45,633	98,239	37,988	28,386	11,812	9,316
Ghanaian	493,197	49,127	41,121	145,157	28,964	45,111	97,499	37,436	27,930	11,645	9,207
Non-Ghanaian	6,394	741	576	2,096	903	411	570	471	400	129	97
Ghanaian and Non-Ghanaian	1,277	138	84	483	104	111	170	81	56	38	12
Agriculture											
All nationals	2,622	187	188	332	138	364	626	548	187	15	37
Ghanaian	2,559	185	184	322	127	348	620	541	185	14	33
Non-Ghanaian	40	1	1	7	5	11	4	6	1	1	3
Ghanaian and Non-Ghanaian	23	1	3	3	6	5	2	1	1		1

Table A27: Distribution of establishments in the private sector by owners' nationality and region, in percentages

Type of Owner/sector	Number of Establishments	Share of Establishments (%)	Percentage										
			National	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All	610,839	100.0	100.0	9.8	8.2	28.7	6.4	9.1	19.6	7.6	6.1	2.5	2.0
Ghanaian	602,267	98.6	100.0	9.8	8.2	28.6	6.3	9.1	19.7	7.6	6.1	2.6	2.0
Non-Ghanaian	7,109	1.2	100.0	11.5	8.6	33.7	14.6	6.5	8.9	7.1	5.8	1.9	1.5
Ghanaian and Non-Ghanaian	1,463	0.2	100.0	10.5	6.6	38.8	8.5	8.9	12.9	5.9	4.2	2.7	1.0
Industry													
All nationals	107,349	100.0	100.0	9.1	7.6	25.3	8.4	8.8	19.2	7.3	8.0	3.5	2.8
Ghanaian	106,511	99.2	100.0	9.0	7.6	25.2	8.4	8.9	19.3	7.3	8.0	3.5	2.8
Non-Ghanaian	675	0.6	100.0	10.7	4.7	43.4	19.0	5.5	8.7	4.3	1.9	1.2	0.6
Ghanaian and Non-Ghanaian	163	0.2	100.0	8.6	6.1	50.3	9.2	8.6	9.8	2.5	3.1	1.2	0.6
Services													
All nationals	500,868	100.0	100.0	10.0	8.3	29.5	6.0	9.1	19.6	7.6	5.7	2.4	1.9
Ghanaian	493,197	98.5	100.0	10.0	8.3	29.4	5.9	9.1	19.8	7.6	5.7	2.4	1.9
Non-Ghanaian	6,394	1.3	100.0	11.6	9.0	32.8	14.1	6.4	8.9	7.4	6.3	2.0	1.5
Ghanaian and Non-Ghanaian	1,277	0.3	100.0	10.8	6.6	37.8	8.1	8.7	13.3	6.3	4.4	3.0	0.9
Agriculture													
All nationals	2,622	100.0	100.0	7.1	7.2	12.7	5.3	13.9	23.9	20.9	7.1	0.6	1.4
Ghanaian	2,559	97.6	100.0	7.2	7.2	12.6	5.0	13.6	24.2	21.1	7.2	0.5	1.3
Non-Ghanaian	40	1.5	100.0	2.5	2.5	17.5	12.5	27.5	10.0	15.0	2.5	2.5	7.5
Ghanaian and Non-Ghanaian	23	0.9	100.0	4.3	13.0	13.0	26.1	21.7	8.7	4.3	4.3	0.0	4.3

Table A28: Distribution of establishments by size and region

Size of establishments	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Size of establishments												
Total	638,234		63,439	52,975	177,153	42,154	58,766	123,644	49,346	39,975	17,054	13,728
Micro	509,033	79.8	49,883	42,644	142,221	34,138	47,687	101,041	38,679	29,753	12,367	10,620
Small	117,329	18.4	12,429	9,679	29,234	7,561	10,351	20,901	9,980	9,811	4,431	2,952
Medium	9,333	1.5	875	526	4,465	343	546	1,387	550	327	189	125
Large	2,539	0.4	252	126	1,233	112	182	315	137	84	67	31
Industry												
Total	108,242		9,899	8,250	27,302	9,115	9,558	20,752	7,899	8,662	3,752	3,053
Micro	86,076	79.5	7,824	6,837	21,457	7,790	8,078	16,430	6,049	6,435	2,767	2,409
Small	20,474	18.9	1,910	1,340	4,929	1,289	1,383	4,101	1,769	2,165	953	635
Medium	1,169	1.1	103	62	597	25	72	167	63	53	20	7
Large	523	0.5	62	11	319	11	25	54	18	9	12	2
Services												
Total	527,161		53,322	44,519	149,513	32,879	48,819	102,219	40,873	31,108	13,279	10,630
Micro	421,278	79.9	41,981	35,673	120,606	26,262	39,392	84,162	32,232	23,181	9,595	8,194
Small	96,024	18.2	10,469	8,294	24,187	6,220	8,828	16,622	8,059	7,589	3,464	2,292
Medium	7,934	1.5	703	446	3,833	304	453	1,183	466	266	165	115
Large	1,925	0.4	169	106	887	93	146	252	116	72	55	29
Agriculture												
Total	2,831		218	206	338	160	389	673	574	205	23	45
Micro	1,679	59.3	78	134	158	86	217	449	398	137	5	17
Small	831	29.4	50	45	118	52	140	178	152	57	14	25
Medium	230	8.1	69	18	35	14	21	37	21	8	4	3
Large	91	3.2	21	9	27	8	11	9	3	3	0	0

Table A29: Distribution of persons engaged in micro-sized establishments by, sector status of employment and region

Status of employment/sector/sex	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors											
Both sexes	969,681	98,194	79,936	262,606	62,429	87,158	191,861	74,346	64,381	26,699	22,071
Male	482,468	48,044	38,372	120,183	32,103	41,367	93,199	39,916	42,161	13,410	13,713
Female	487,213	50,150	41,564	142,423	30,326	45,791	98,662	34,430	22,220	13,289	8,358
Permanent											
Both sexes	789,004	75,955	64,726	226,581	50,168	68,782	156,768	58,592	51,152	19,445	16,835
Male	398,723	37,675	31,472	105,736	26,134	33,068	77,313	31,869	34,606	9,962	10,888
Female	390,281	38,280	33,254	120,845	24,034	35,714	79,455	26,723	16,546	9,483	5,947
Temporary											
Both sexes	180,677	22,239	15,210	36,025	12,261	18,376	35,093	15,754	13,229	7,254	5,236
Male	83,745	10,369	6,900	14,447	5,969	8,299	15,886	8,047	7,555	3,448	2,825
Female	96,932	11,870	8,310	21,578	6,292	10,077	19,207	7,707	5,674	3,806	2,411
Industry											
Both sexes	176,601	16,164	13,542	43,690	14,303	15,400	35,143	12,908	14,069	6,299	5,083
Male	100,094	8,180	7,132	23,492	8,737	8,400	20,671	7,257	9,662	3,205	3,358
Female	76,507	7,984	6,410	20,198	5,566	7,000	14,472	5,651	4,407	3,094	1,725
Permanent											
Both sexes	135,320	11,898	10,468	35,483	11,214	11,721	26,788	9,384	10,179	4,381	3,804
Male	81,588	6,485	5,804	20,268	7,207	6,859	16,761	5,667	7,476	2,390	2,671
Female	53,732	5,413	4,664	15,215	4,007	4,862	10,027	3,717	2,703	1,991	1,133
Temporary											
Both sexes	41,281	4,266	3,074	8,207	3,089	3,679	8,355	3,524	3,890	1,918	1,279
Male	18,506	1,695	1,328	3,224	1,530	1,541	3,910	1,590	2,186	815	687
Female	22,775	2,571	1,746	4,983	1,559	2,138	4,445	1,934	1,704	1,103	592

Table A29: Distribution of persons engaged in micro-sized establishments by sector, status of employment and region (cont'd)

Status of employment/sector/sex	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Services											
Both sexes	789,169	81,836	66,096	218,593	47,918	71,256	155,672	60,477	49,981	20,384	16,956
Male	379,026	39,702	31,003	96,401	23,180	32,530	71,636	31,859	32,191	10,195	10,329
Female	410,143	42,134	35,093	122,192	24,738	38,726	84,036	28,618	17,790	10,189	6,627
Permanent											
Both sexes	650,316	63,910	53,992	190,794	38,777	56,656	129,071	48,348	40,715	15,051	13,002
Male	314,231	31,070	25,458	85,192	18,768	25,853	59,769	25,475	26,890	7,563	8,193
Female	336,085	32,840	28,534	105,602	20,009	30,803	69,302	22,873	13,825	7,488	4,809
Temporary											
Both sexes	138,853	17,926	12,104	27,799	9,141	14,600	26,601	12,129	9,266	5,333	3,954
Male	64,795	8,632	5,545	11,209	4,412	6,677	11,867	6,384	5,301	2,632	2,136
Female	74,058	9,294	6,559	16,590	4,729	7,923	14,734	5,745	3,965	2,701	1,818
Agriculture											
Both sexes	3,911	194	298	323	208	502	1,046	961	331	16	32
Male	3,348	162	237	290	186	437	892	800	308	10	26
Female	563	32	61	33	22	65	154	161	23	6	6
Permanent											
Both sexes	3,368	147	266	304	177	405	909	860	258	13	29
Male	2,904	120	210	276	159	356	783	727	240	9	24
Female	464	27	56	28	18	49	126	133	18	4	5
Temporary											
Both sexes	543	47	32	19	31	97	137	101	73	3	3
Male	444	42	27	14	27	81	109	73	68	1	2
Female	99	5	5	5	4	16	28	28	5	2	1

Table A30: Distribution of persons employed in small-sized establishments by sector status of employment and region

Status of employment/sector/sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors												
Both sexes	1,107,385	100.0	110,679	92,711	298,838	69,572	97,251	198,090	93,058	82,849	38,563	25,774
Male	687,805	62.1	67,724	55,083	194,236	41,277	58,153	121,460	56,471	54,705	23,220	15,476
Female	419,580	37.9	42,955	37,628	104,602	28,295	39,098	76,630	36,587	28,144	15,343	10,298
Permanent												
Both sexes	887,953	100.0	86,120	76,720	257,903	54,934	78,641	159,609	71,631	57,780	26,547	18,068
Male	567,512	63.9	54,548	46,748	169,321	33,777	48,028	100,715	45,429	40,391	17,100	11,455
Female	320,441	36.1	31,572	29,972	88,582	21,157	30,613	58,894	26,202	17,389	9,447	6,613
Temporary												
Both sexes	219,432	100.0	24,559	15,991	40,935	14,638	18,610	38,481	21,427	25,069	12,016	7,706
Male	120,293	54.8	13,176	8,335	24,915	7,500	10,125	20,745	11,042	14,314	6,120	4,021
Female	99,139	45.2	11,383	7,656	16,020	7,138	8,485	17,736	10,385	10,755	5,896	3,685
Industry												
Both sexes	163,876	100.0	14,382	10,381	43,384	9,962	11,352	32,155	13,283	16,811	7,257	4,909
Male	100,884	61.6	8,231	5,791	32,013	5,441	6,659	21,368	6,864	8,907	3,303	2,307
Female	62,992	38.4	6,151	4,590	11,371	4,521	4,693	10,787	6,419	7,904	3,954	2,602
Permanent												
Both sexes	104,361	100.0	8,983	6,604	33,712	6,073	7,346	20,622	7,159	7,735	3,572	2,555
Male	72,346	69.3	5,914	4,120	25,908	3,929	4,787	15,137	4,404	4,778	2,000	1,369
Female	32,015	30.7	3,069	2,484	7,804	2,144	2,559	5,485	2,755	2,957	1,572	1,186
Temporary												
Both sexes	59,515	100.0	5,399	3,777	9,672	3,889	4,006	11,533	6,124	9,076	3,685	2,354
Male	28,538	48.0	2,317	1,671	6,105	1,512	1,872	6,231	2,460	4,129	1,303	938
Female	30,977	52.0	3,082	2,106	3,567	2,377	2,134	5,302	3,664	4,947	2,382	1,416

Table A30: Distribution of persons employed in small-sized establishments by sector, status of employment and region (cont'd)

Status of employment/sector/sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors												
Services												
Both sexes	934,955	100.0	95,737	81,755	254,190	59,039	84,566	164,308	78,267	65,472	31,092	20,529
Male	579,953	62.0	59,055	48,848	161,220	35,375	50,368	98,748	48,375	45,311	19,739	12,914
Female	355,002	38.0	36,682	32,907	92,970	23,664	34,198	65,560	29,892	20,161	11,353	7,615
Permanent												
Both sexes	776,653	100.0	76,639	69,642	223,042	48,434	70,371	137,614	63,246	49,596	22,820	15,249
Male	489,431	63.0	48,244	42,258	142,492	29,495	42,432	84,440	40,005	35,217	14,967	9,881
Female	287,222	37.0	28,395	27,384	80,550	18,939	27,939	53,174	23,241	14,379	7,853	5,368
Temporary												
Both sexes	158,302	100.0	19,098	12,113	31,148	10,605	14,195	26,694	15,021	15,876	8,272	5,280
Male	90,522	57.2	10,811	6,590	18,728	5,880	7,936	14,308	8,370	10,094	4,772	3,033
Female	67,780	42.8	8,287	5,523	12,420	4,725	6,259	12,386	6,651	5,782	3,500	2,247
Agriculture												
Both sexes	8,554	100.0	560	575	1,264	571	1,333	1,627	1,508	566	214	336
Male	6,968	81.5	438	444	1,003	461	1,126	1,344	1,232	487	178	255
Female	1,586	18.5	122	131	261	110	207	283	276	79	36	81
Permanent												
Both sexes	6,939	100.0	498	474	1,149	427	924	1,373	1,226	449	155	264
Male	5,735	82.6	390	370	921	353	809	1,138	1,020	396	133	205
Female	1,204	17.4	108	104	228	74	115	235	206	53	22	59
Temporary												
Both sexes	1,615	100.0	62	101	115	144	409	254	282	117	59	72
Male	1,233	76.3	48	74	82	108	317	206	212	91	45	50
Female	382	23.7	14	27	33	36	92	48	70	26	14	22

Table A31: Distribution of persons employed in medium-sized establishments by sector, status of employment and region

Status of employment/sector/sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors												
Both sexes	447,887	100.0	45,350	24,658	208,578	17,040	27,142	66,736	26,698	15,783	9,601	6,301
Male	291,392	65.1	29,831	14,866	136,663	11,409	17,432	43,219	17,145	10,313	6,318	4,196
Female	156,495	34.9	15,519	9,792	71,915	5,631	9,710	23,517	9,553	5,470	3,283	2,105
Permanent												
Both sexes	401,739	100.0	39,277	21,165	194,949	15,037	23,619	58,887	22,469	12,916	8,291	5,129
Male	262,179	65.3	25,863	12,808	127,961	10,184	15,283	37,839	14,690	8,497	5,481	3,573
Female	139,560	34.7	13,414	8,357	66,988	4,853	8,336	21,048	7,779	4,419	2,810	1,556
Temporary												
Both sexes	46,148	100.0	6,073	3,493	13,629	2,003	3,523	7,849	4,229	2,867	1,310	1,172
Male	29,213	63.3	3,968	2,058	8,702	1,225	2,149	5,380	2,455	1,816	837	623
Female	16,935	36.7	2,105	1,435	4,927	778	1,374	2,469	1,774	1,051	473	549
Industry												
Both sexes	58,872	100.0	5,337	2,845	30,764	1,273	3,505	8,161	2,909	2,722	1,085	271
Male	40,618	69.0	4,107	1,782	21,988	980	2,121	5,988	1,774	1,136	619	123
Female	18,254	31.0	1,230	1,063	8,776	293	1,384	2,173	1,135	1,586	466	148
Permanent												
Both sexes	50,707	100.0	4,567	2,173	28,039	865	2,733	7,075	2,079	2,075	897	204
Male	35,312	69.6	3,484	1,478	19,847	713	1,791	5,185	1,351	852	488	123
Female	15,395	30.4	1,083	695	8,192	152	942	1,890	728	1,223	409	81
Temporary												
Both sexes	8,165	100.0	770	672	2,725	408	772	1,086	830	647	188	67
Male	5,306	65.0	623	304	2,141	267	330	803	423	284	131	0
Female	2,859	35.0	147	368	584	141	442	283	407	363	57	67

Table A31: Distribution of persons employed in medium-sized establishments by sector, status of employment and region (cont'd)

Status of employment/sector/sex	Total	Per cent	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Services												
Both sexes	342,844	100.0	30,330	18,619	165,688	13,783	20,675	50,618	20,051	10,881	7,369	4,830
Male	218,790	63.8	19,162	10,778	106,872	9,024	12,974	31,528	12,811	7,398	4,922	3,321
Female	121,195	35.3	11,021	7,473	58,232	4,618	7,259	18,807	6,833	3,120	2,390	1,442
Permanent												
Both sexes	339,985	100.0	30,183	18,251	165,104	13,642	20,233	50,335	19,644	10,518	7,312	4,763
Male	218,790	64.4	19,162	10,778	106,872	9,024	12,974	31,528	12,811	7,398	4,922	3,321
Female	121,195	35.6	11,021	7,473	58,232	4,618	7,259	18,807	6,833	3,120	2,390	1,442
Temporary												
Both sexes	36,085	100.0	4,999	2,612	10,864	1,386	2,363	6,371	3,141	2,190	1,054	1,105
Male	22,433	62.2	3,051	1,603	6,541	836	1,520	4,209	1,863	1,515	672	623
Female	13,652	37.8	1,948	1,009	4,323	550	843	2,162	1,278	675	382	482
Agriculture												
Both sexes	12,945	100.0	4,831	950	1,846	739	1,041	1,869	1,004	353	150	162
Male	9,551	73.8	3,511	703	1,262	569	817	1,494	697	264	105	129
Female	3,394	26.2	1,320	247	584	170	224	375	307	89	45	33
Permanent												
Both sexes	11,047	100.0	4,527	741	1,806	530	653	1,477	746	323	82	162
Male	8,077	73.1	3,217	552	1,242	447	518	1,126	528	247	71	129
Female	2,970	26.9	1,310	189	564	83	135	351	218	76	11	33
Temporary												
Both sexes	1,898	100.0	304	209	40	209	388	392	258	30	68	0
Male	1,474	77.7	294	151	20	122	299	368	169	17	34	0
Female	424	22.3	10	58	20	87	89	24	89	13	34	0

Table A32: Distribution of persons employed in large-sized establishments by sector, status of employment and region

Status of employment/sector/sex	Total	Per cent	Region									
			Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
All Sectors												
Both sexes	858,253	100.0	80,210	34,773	514,318	22,782	44,088	83,784	36,707	20,362	13,890	7,339
Male	577,367	67.3	55,505	21,651	350,843	14,908	28,646	55,935	22,352	14,404	8,782	4,341
Female	280,886	32.7	24,705	13,122	163,475	7,874	15,442	27,849	14,355	5,958	5,108	2,998
Permanent												
Both sexes	767,944	100.0	67,254	26,066	479,618	19,095	34,633	75,724	30,842	16,839	11,732	6,141
Male	519,118	67.6	47,355	16,533	327,414	12,380	22,694	49,980	19,456	11,837	7,716	3,753
Female	248,826	32.4	19,899	9,533	152,204	6,715	11,939	25,744	11,386	5,002	4,016	2,388
Temporary												
Both sexes	90,309	100	12,956	8,707	34,700	3,687	9,455	8,060	5,865	3,523	2,158	1,198
Male	58,249	64.5	8,150	5,118	23,429	2,528	5,952	5,955	2,896	2,567	1,066	588
Female	32,060	35.5	4,806	3,589	11,271	1,159	3,503	2,105	2,969	956	1,092	610
Industry												
Both sexes	215,168	100.0	37,665	7,160	131,246	3,430	6,123	17,004	7,833	1,717	2,501	489
Male	153,609	71.4	27,842	4,752	91,903	2,891	4,231	13,180	5,636	1,286	1,433	455
Female	61,559	28.6	9,823	2,408	39,343	539	1,892	3,824	2,197	431	1,068	34
Permanent												
Both sexes	177,874	100.0	28,692	1,992	116,252	2,366	4,265	14,984	6,230	1,235	1,379	479
Male	128,746	72.4	22,173	1,686	81,259	1,935	3,150	11,473	4,841	833	947	449
Female	49,128	27.6	6,519	306	34,993	431	1,115	3,511	1,389	402	432	30
Temporary												
Both sexes	37,294	100.0	8,973	5,168	14,994	1,064	1,858	2,020	1,603	482	1,122	10
Male	24,863	66.7	5,669	3,066	10,644	956	1,081	1,707	795	453	486	6
Female	12,431	33.3	3,304	2,102	4,350	108	777	313	808	29	636	4

Table A32: Distribution of persons employed in large-sized establishments by sector, status of employment and region (cont'd)

Status of employment/sector/sex	Total	Per cent	Region									
			Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Services												
Both sexes	608,602	100.0	38,313	25,644	366,799	17,585	32,186	64,339	27,212	18,285	11,389	6,850
Male	399,047	65.6	24,703	15,664	247,255	10,977	19,920	40,879	15,608	12,806	7,349	3,886
Female	209,555	34.4	13,610	9,980	119,544	6,608	12,266	23,460	11,604	5,479	4,040	2,964
Permanent												
Both sexes	562,505	100.0	35,478	22,642	347,931	15,793	27,554	58,882	22,950	15,260	10,353	5,662
Male	370,592	65.9	23,040	13,929	235,083	9,847	17,369	37,036	13,507	10,708	6,769	3,304
Female	191,913	34.1	12,438	8,713	112,848	5,946	10,185	21,846	9,443	4,552	3,584	2,358
Temporary												
Both sexes	46,097	100.0	2,835	3,002	18,868	1,792	4,632	5,457	4,262	3,025	1,036	1,188
Male	28,455	61.7	1,663	1,735	12,172	1,130	2,551	3,843	2,101	2,098	580	582
Female	17,642	38.3	1,172	1,267	6,696	662	2,081	1,614	2,161	927	456	606
Agriculture												
Both sexes	34,483	100.0	4,232	1,969	16,273	1,767	5,779	2,441	1,662	360	0	0
Male	24,711	71.7	2,960	1,235	11,685	1,040	4,495	1,876	1,108	312	0	0
Female	9,772	28.3	1,272	734	4,588	727	1,284	565	554	48	0	0
Permanent												
Both sexes	27,565	100.0	3,084	1,432	15,435	936	2,814	1,858	1,662	344	0	0
Male	19,780	71.8	2,142	918	11,072	598	2,175	1,471	1,108	296	0	0
Female	7,785	28.2	942	514	4,363	338	639	387	554	48	0	0
Temporary												
Both sexes	6,918	100.0	1,148	537	838	831	2,965	583	0	16	0	0
Male	4,931	71.3	818	317	613	442	2,320	405	0	16	0	0
Female	1,987	28.7	330	220	225	389	645	178	0	0	0	0

Table A33: Distribution of establishments in sectors by age of establishment

Sub-sector	Total	Percent	<1974	1975-1984	1985-1994	1995-2004	2005-2014	Not stated
All Sub-sectors	638,234	100.0	29,150	19,527	41,588	116,008	428,332	3,629
Manufacturing	99,437	15.6	1,367	1,903	5,488	20,654	69,798	227
Mining and Quarrying	580	0.1	86	60	73	101	251	9
Electricity and Gas	621	0.1	47	44	50	107	349	24
Water Supply, Sewage and Waste Management	953	0.2	96	40	69	182	548	18
Construction	6,651	1.0	1,394	938	965	1,276	2,041	37
Wholesale and Retail Trade	290,274	45.5	4,890	5,430	14,406	49,897	214,253	1,398
Transportation and Storage	2,849	0.5	483	323	438	588	942	75
Accommodation and Food	56,352	8.8	833	1,282	3,525	11,036	39,478	198
Information and Communication	4,153	0.7	235	180	211	531	2,938	58
Financial and Insurance	7,214	1.1	541	518	543	1,045	4,327	240
Real Estate	660	0.1	81	61	66	103	337	12
Professional, Scientific and Technical	7,267	1.1	730	460	654	1,324	3,950	149
Administrative and Support Service Activities	6,136	1.0	340	212	286	848	4,359	91
Public Administration and Defence	3,700	0.6	844	323	703	720	918	192
Education	30,780	4.8	7,760	2,768	4,791	5,960	9,184	317
Human Health and Social Work	6,441	1.0	689	464	770	1,282	3,086	150
Arts, Entertainment and Recreation	5,845	0.9	148	124	424	1,032	4,096	21
Other Services	105,490	16.5	8,330	4,197	7,839	18,694	66,022	408
Crops	914	0.1	173	107	136	189	306	3
Livestock and Poultry	1,638	0.3	45	57	126	377	1,032	1
Forestry and Logging	155	0.0	31	19	14	37	53	1
Fishing and Aquaculture	124	0.0	7	17	11	25	64	

Table A34: Distribution of establishment by sector, size of establishment and region

Sector/size of Establishment	Region										
	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Ghana											
Total	638,234	63,439	52,975	177,152	42,155	58,766	123,644	49,346	39,975	17,054	13,728
1-4	509,033	49,883	42,644	142,220	34,139	47,687	101,041	38,679	29,753	12,367	10,620
5-9	76,363	8,618	6,074	17,554	4,994	6,653	13,475	6,555	7,159	3,173	2,108
10-14	22,365	2,232	1,909	5,670	1,499	2,083	3,983	1,967	1,729	776	517
15-19	10,120	923	1,050	2,931	617	952	1,856	794	530	285	182
20-24	5,422	435	467	1,767	324	461	1,038	450	255	124	101
25-29	3,059	221	179	1,312	127	202	549	214	138	73	44
30-49	5,907	458	330	3,026	204	319	862	331	202	107	68
50-99	3,325	405	192	1,396	135	217	508	213	124	79	56
100-199	1,567	171	89	657	81	139	215	92	54	49	20
200+	1,073	93	41	619	35	53	117	51	31	21	12
Industry											
Total	108,242	9,899	8,250	27,302	9,115	9,558	20,752	7,899	8,662	3,752	3,053
1-4	86,076	7,824	6,837	21,457	7,790	8,078	16,430	6,049	6,435	2,767	2,409
5-9	15,980	1,574	1,076	3,518	1,025	1,064	3,252	1,459	1,702	791	519
10-14	2,714	202	154	765	172	170	516	215	337	104	79
15-19	915	77	48	313	46	64	188	51	76	35	17
20-24	567	44	42	206	32	57	102	28	33	12	11
25-29	298	13	20	127	14	28	43	16	17	11	9
30-49	672	54	38	338	14	46	98	38	30	10	6
50-99	476	48	23	248	10	23	67	25	22	9	1
100-199	259	23	5	148	7	18	33	7	7	10	1
200+	285	40	7	182	5	10	23	11	3	3	1

Table A34: Distribution of establishment by sector, size of establishment and region (cont'd)

Sector/size of Establishment	Region										
	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Services											
Total	527,161	53,322	44,519	149,512	32,880	48,819	102,219	40,873	31,108	13,279	10,630
0-4	421,278	41,981	35,673	120,605	26,263	39,392	84,162	32,232	23,181	9,595	8,194
5-9	59,889	7,018	4,977	13,968	3,939	5,505	10,103	4,999	5,420	2,379	1,581
10-14	19,501	2,019	1,749	4,886	1,319	1,881	3,436	1,725	1,385	669	432
15-19	9,111	842	996	2,599	565	874	1,652	729	450	246	158
20-24	4,796	385	417	1,553	285	397	931	416	216	109	87
25-29	2,727	205	155	1,181	112	171	500	190	118	61	34
30-49	5,133	392	284	2,672	182	261	744	280	165	93	60
50-99	2,725	302	159	1,130	120	185	424	180	101	70	54
100-199	1,250	131	77	495	69	116	176	84	44	39	19
200+	751	47	32	423	26	37	91	38	28	18	11
Agriculture											
Total	2,831	218	206	338	160	389	673	574	205	23	45
0-4	1,679	78	134	158	86	217	449	398	137	5	17
5-9	494	26	21	68	30	84	120	97	37	3	8
10-14	150	11	6	19	8	32	31	27	7	3	6
15-19	94	4	6	19	6	14	16	14	4	4	7
20-24	59	6	8	8	7	7	5	6	6	3	3
25-29	34	3	4	4	1	3	6	8	3	1	1
30-49	102	12	8	16	8	12	20	13	7	4	2
50-99	124	55	10	18	5	9	17	8	1	-	1
100-199	58	17	7	14	5	5	6	1	3	-	-
200+	37	6	2	14	4	6	3	2	-	-	-

Table A35: Distribution of persons engaged in establishments by sector, size of establishment and region

Sector/size of Establishment	Region										
	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Ghana											
Total	3,383,206	334,433	232,078	1,284,336	171,827	255,639	540,471	230,809	183,375	88,753	61,485
1-4	969,681	98,194	79,936	262,602	62,433	87,158	191,861	74,346	64,381	26,699	22,071
5-9	485,255	54,695	38,608	111,333	31,849	42,332	85,214	41,817	45,464	20,422	13,521
10-14	256,689	25,514	22,013	65,387	17,158	23,937	45,559	22,700	19,666	8,841	5,914
15-19	167,016	15,267	17,414	48,490	10,234	15,723	30,488	13,170	8,581	4,660	2,989
20-24	116,701	9,334	9,976	38,178	6,963	9,905	22,259	9,716	5,472	2,701	2,197
25-29	81,724	5,869	4,700	35,450	3,368	5,354	14,570	5,655	3,666	1,939	1,153
30-49	214,763	16,938	11,874	109,814	7,432	11,619	31,529	11,829	7,307	3,978	2,443
50-99	223,024	27,212	12,384	94,464	9,208	14,523	33,507	14,269	8,376	5,323	3,758
100-199	214,410	23,253	11,781	90,576	10,940	18,997	29,685	12,730	7,264	6,610	2,574
200+	653,943	58,157	23,392	428,042	12,242	26,091	55,799	24,577	13,198	7,580	4,865
Industry											
Total	614,517	73,548	33,928	249,084	28,968	36,380	92,463	36,933	35,319	17,142	10,752
1-4	176,601	16,164	13,542	43,690	14,303	15,400	35,143	12,908	14,069	6,299	5,083
5-9	98,395	9,546	6,490	21,735	6,262	6,426	20,064	9,029	10,625	4,957	3,261
10-14	30,508	2,257	1,722	8,642	1,928	1,911	5,765	2,414	3,805	1,168	896
15-19	14,941	1,269	770	5,159	751	1,044	3,043	825	1,223	580	277
20-24	12,120	968	882	4,434	656	1,227	2,146	600	707	261	239
25-29	7,912	342	517	3,414	365	744	1,137	415	451	291	236
30-49	24,808	1,989	1,353	12,626	516	1,704	3,573	1,380	1,098	353	216
50-99	31,964	3,248	1,392	17,038	657	1,501	4,388	1,529	1,524	632	55
100-199	35,967	3,374	599	20,441	983	2,400	4,644	1,053	932	1,411	130
200+	181,301	34,391	6,661	111,905	2,547	4,023	12,560	6,780	885	1,190	359

Table A35: Distribution of persons engaged in establishments by sector, size of establishment and region (cont'd)

	Region										
	Total	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West
Services											
Total	2,708,796	251,068	194,358	1,015,546	139,574	210,604	441,025	188,741	146,446	71,231	50,203
1-4	789,169	81,836	66,096	218,589	47,922	71,256	155,672	60,477	49,981	20,384	16,956
5-9	383,747	44,990	31,989	89,144	25,397	35,384	64,400	32,168	34,626	15,444	10,205
10-14	224,450	23,125	20,224	56,528	15,141	21,658	39,440	19,967	15,780	7,638	4,949
15-19	150,530	13,933	16,545	43,020	9,379	14,456	27,187	12,114	7,291	4,014	2,591
20-24	103,316	8,242	8,923	33,569	6,146	8,538	20,008	8,987	4,637	2,374	1,892
25-29	72,912	5,447	4,074	31,929	2,976	4,530	13,273	5,031	3,138	1,622	892
30-49	186,103	14,496	10,239	96,574	6,614	9,437	27,187	9,985	5,946	3,475	2,150
50-99	182,367	19,786	10,324	76,294	8,214	12,459	28,019	12,200	6,762	4,691	3,618
100-199	170,481	17,762	10,153	68,096	9,240	15,893	24,151	11,571	5,972	5,199	2,444
200+	445,721	21,451	15,791	301,803	8,545	16,993	41,688	16,241	12,313	6,390	4,506
Agriculture											
Total	59,893	9,817	3,792	19,706	3,285	8,655	6,983	5,135	1,610	380	530
1-5	3,911	194	298	323	208	502	1,046	961	331	16	32
5-9	3,113	159	129	454	190	522	750	620	213	21	55
10-14	1,731	132	67	217	89	368	354	319	81	35	69
15-19	1,545	65	99	311	104	223	258	231	67	66	121
20-24	1,265	124	171	175	161	140	105	129	128	66	66
25-29	900	80	109	107	27	80	160	209	77	26	25
30-49	3,852	453	282	614	302	478	769	464	263	150	77
50-99	8,693	4,178	668	1,132	337	563	1,100	540	90	-	85
100-199	7,962	2,117	1,029	2,039	717	704	890	106	360	-	-
200+	26,921	2,315	940	14,334	1,150	5,075	1,551	1,556	-	-	-

Table A36: Distribution of establishments by economic activity and size

Sector/Activities	Size of Establishment										
	Total	1-4	5-9	10-14	15-19	20-24	25-29	30-49	50-99	100-199	200+
Total	638,234	509,033	76,363	22,365	10,120	5,422	3,059	5,907	3,325	1,567	1,073
Industry	108,242	86,076	15,980	2,714	915	567	298	672	476	259	285
Manufacturing	99,437	80,813	14,202	2,249	686	399	189	394	237	128	140
Mining and Quarrying	580	149	101	63	30	31	17	53	62	30	44
Electricity and Gas	621	381	78	34	21	13	12	35	29	13	5
Water Supply, Sewerage and Waste Management	953	483	184	78	34	34	22	44	23	21	30
Construction	6,651	4,250	1,415	290	144	90	58	146	125	67	66
Services	527,161	421,278	59,889	19,501	9,111	4796	2727	5133	2725	1250	751
Wholesale and Retail Trade	290,274	264,783	17,946	3,411	1,353	681	429	984	417	151	119
Transportation and Storage	2,849	1,090	715	294	121	89	72	196	148	69	55
Accommodation and Food	56,352	48,428	5,757	1,062	359	176	108	285	108	41	28
Information and Communication	4,153	3,061	463	184	104	78	62	107	52	21	21
Financial and Insurance	7,214	2,870	1,678	925	539	320	222	391	153	61	55
Real Estate	660	321	153	61	27	24	8	24	22	12	8
Professional, Scientific and Technical	7,267	4,989	1,175	365	186	76	73	189	110	59	45
Administrative and Support Service Activities	6,136	4,673	738	195	96	65	62	118	91	40	58
Public Administration and Defence	3,700	906	811	399	297	225	161	324	303	158	116
Education	30,780	4,494	9,925	6,873	3,959	1,972	1,013	1,416	702	355	71
Human Health and Social Work	6,441	2,529	1,566	673	367	257	158	396	236	137	122
Arts, Entertainment and Recreation	5,845	5,371	227	68	52	28	24	27	25	19	4
Other Services	105,377	77,734	18,717	4,971	1,640	800	327	664	354	123	47
Household Employers	14	6	2	0	2	1	1	1	1	0	0
Extraterritorial Organizations	99	23	16	20	9	4	7	11	3	4	2
Agriculture (Institutional)	2831	1679	494	150	94	59	34	102	124	58	37
Crops	914	368	173	57	49	35	24	51	87	40	30
Livestock and Poultry	1,638	1,207	269	66	28	13	9	22	15	8	1
Forestry and Logging	155	46	29	19	9	6	1	20	17	5	3
Fishing and Aquaculture	124	58	23	8	8	5	0	9	5	5	3

Table A37: Distribution of persons engaged in establishments by size and economic activities

Sector/Activities	Size of Establishment										Total
	1-4	5-9	10-14	15-19	20-24	25-29	30-49	50-99	100-199	200+	
Total	969,681	485,255	256,689	167,016	116,701	81,724	214,763	223,024	214,410	653,943	3,383,206
Industry	176,601	98,395	30,508	14,941	12,120	7,912	24,808	31,964	35,967	181,301	614,517
Manufacturing	163,813	87,477	25,148	11,149	8,459	5,006	14,391	15,566	17,588	88,719	437,316
Mining and Quarrying	352	665	732	502	684	443	1,946	4,389	4,234	28,629	42,576
Electricity and Gas	828	471	395	354	296	327	1,281	2,053	1,802	3,003	10,810
Water Supply, Sewerage and Waste Management	966	1,177	912	562	743	581	1,593	1,533	3,317	24,559	35,943
Construction	10,642	8,605	3,321	2,374	1,938	1,555	5,597	8,423	9,026	36,391	87,872
Services	789,169	383,747	224,450	150,530	103,316	72,912	186,103	182,367	170,481	445,721	2,708,796
Wholesale and Retail Trade	475,604	110,162	38,637	22,143	14,538	11,588	35,760	28,061	20,413	60,942	817,848
Transportation and Storage	2,556	4,626	3,368	1,990	1,924	1,900	7,265	9,776	9,276	32,589	75,270
Accommodation and Food	97,075	35,353	11,981	5,887	3,753	2,847	10,124	7,304	5,576	10,665	190,565
Information and Communication	6,189	2,891	2,171	1,747	1,695	1,666	3,955	3,506	3,151	12,535	39,506
Financial and Insurance	6,942	11,208	10,743	8,973	6,914	6,007	13,999	10,498	8,124	38,051	121,459
Real Estate	819	975	696	444	524	216	908	1,416	1,712	2,700	10,410
Professional, Scientific and Technical Administrative and Support Service Activities	10,657	7,495	4,268	3,090	1,649	2,000	6,905	7,492	8,323	27,814	79,693
Public Administration and Defence	10,100	4,587	2,255	1,603	1,410	1,696	4,330	6,344	5,530	64,818	102,673
Education	2,445	5,449	4,720	4,979	4,928	4,297	12,227	20,001	21,626	89,954	170,626
Human Health and Social Work	13,140	69,017	80,897	65,894	42,732	27,005	50,963	47,589	47,522	32,309	477,068
Arts, Entertainment and Recreation	6,593	10,330	7,853	6,127	5,585	4,215	14,838	15,571	19,640	52,256	143,008
Other Services	8,030	1,373	777	859	622	643	945	1,687	2,525	1,294	18,755
Other Services	149,019	120,281	56,084	26,794	17,042	8,832	23,884	23,122	17,063	19,794	461,915
Agriculture (Institutional)	3,911	3,113	1,731	1,545	1,265	900	3,852	8,693	7,962	26,921	59,893
Crops	857	1,132	661	804	762	637	1,937	6,138	5,532	24,212	42,672
Livestock and Poultry	2,818	1,660	743	464	274	234	780	1,072	1,020	290	9,355
Forestry and Logging	93	180	235	146	126	29	773	1,117	705	1,612	5,016
Fishing and Aquaculture	143	141	92	131	103		362	366	705	807	2,850

Table A38: Distribution of persons engaged in establishment by sub-sectors, sex and region

Sub-sector in Industry/Sex	Region										Total
	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West	
All sub sectors											
Total	334,433	232,078	1,284,336	171,827	255,639	540,471	230,809	183,375	88,753	61,485	3,383,206
Male	201,104	129,972	801,921	99,701	145,598	313,813	135,884	121,583	51,730	37,726	2,039,032
Female	133,329	102,106	482,415	72,126	110,041	226,658	94,925	61,792	37,023	23,759	1,344,174
Manufacturing											
Total	38,327	25,806	155,472	24,599	30,273	77,635	31,432	31,721	13,255	8,796	437,316
Male	22,706	13,827	100,334	14,404	16,893	49,313	17,174	17,937	5,492	4,409	262,489
Female	15,621	11,979	55,138	10,195	13,380	28,322	14,258	13,784	7,763	4,387	174,827
Mining and Quarrying											
Total	21,630	457	14,092	315	1,416	2,922	900	13	727	104	42,576
Male	16,463	372	10,336	220	1,086	2,403	642	12	676	100	32,310
Female	5,167	85	3,756	95	330	519	258	1	51	4	10,266
Electricity and Gas											
Total	1,049	431	4,801	557	1,093	797	1,043	481	286	272	10,810
Male	828	344	3,606	459	744	576	968	425	224	241	8,415
Female	221	87	1,195	98	349	221	75	56	62	31	2,395
Water Supply, Sewerage, Waste Management											
Total	6,945	4,885	14,102	1,231	1,700	3,130	1,571	973	1,338	68	35,943
Male	3,697	2,847	9,499	834	1,043	2,246	927	672	749	47	22,561
Female	3,248	2,038	4,603	397	657	884	644	301	589	21	13,382
Construction											
Total	5,597	2,349	60,617	2,266	1,898	7,979	1,987	2,131	1,536	1,512	87,872
Male	4,666	2,067	45,621	2,132	1,645	6,669	1,820	1,945	1,419	1,446	69,430
Female	931	282	14,996	134	253	1,310	167	186	117	66	18,442

Table A38: Distribution of persons engaged in establishment by sub-sectors, sex and region (cont'd)

Sub-sector in Industry/Sex	Region										Total
	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West	
Wholesale and Retail Trade											
Total	83,157	53,297	307,864	35,798	58,917	147,781	52,526	45,837	18,328	14,343	817,848
Male	47,955	28,228	186,305	19,044	30,151	83,073	32,403	31,116	11,737	9,804	479,816
Female	35,202	25,069	121,559	16,754	28,766	64,708	20,123	14,721	6,591	4,539	338,032
Transportation and storage											
Total	10,122	1,705	46,753	1,652	2,302	6,782	2,927	1,501	919	607	75,270
Male	7,873	1,525	34,216	1,383	2,119	5,963	1,688	1,314	880	532	57,493
Female	2,249	180	12,537	269	183	819	1,239	187	39	75	17,777
Accommodation and Food											
Total	18,725	14,315	70,142	11,169	14,967	29,498	12,632	9,215	6,186	3,716	190,565
Male	8,069	5,636	30,726	4,070	5,963	10,835	4,773	2,840	1,644	1,583	76,139
Female	10,656	8,679	39,416	7,099	9,004	18,663	7,859	6,375	4,542	2,133	114,426
Information and Communication											
Total	1,660	1,121	27,720	880	1,220	3,782	1,354	740	675	354	39,506
Male	1,262	912	19,590	652	978	2,985	1,092	586	502	283	28,842
Female	398	209	8,130	228	242	797	262	154	173	71	10,664
Financial and Insurance											
Total	6,732	6,160	71,763	3,318	6,978	15,310	6,362	2,712	1,058	1,066	121,459
Male	3,797	3,806	44,959	2,217	4,260	8,780	3,892	1,909	657	716	74,993
Female	2,935	2,354	26,804	1,101	2,718	6,530	2,470	803	401	350	46,466
Real Estate											
Total	319	269	8,903	36	208	612	29	14	7	13	10,410
Male	241	221	6,695	31	181	413	25	12	7	10	7,836
Female	78	48	2,208	5	27	199	4	2	0	3	2,574
Professional, Scientific and Technical											
Total	3,823	2,146	54,873	990	5,426	6,077	1,948	1,832	2,025	553	79,693
Male	2,805	1,420	38,595	765	4,114	4,296	1,384	1,464	1,224	394	56,461
Female	1,018	726	16,278	225	1,312	1,781	564	368	801	159	23,232

Table A38: Distribution of persons engaged in establishment by Sub-sectors, sex and region (cont'd)

Sub-sector in Industry/Sex	Region										Total
	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West	
Administrative and support Service Activities											
Total	5,153	1,624	78,975	1,156	1,598	9,523	1,144	1,649	1,490	361	102,673
Male	3,619	1,134	57,019	814	1,272	6,613	828	1,363	1,002	259	73,923
Female	1,534	490	21,956	342	326	2,910	316	286	488	102	28,750
Public Administration and Defence											
Total	10,565	11,356	72,324	9,662	11,890	24,065	13,972	8,070	4,933	3,789	170,626
Male	7,764	7,739	47,822	7,180	7,991	16,487	9,538	6,195	3,782	2,859	117,357
Female	2,801	3,617	24,502	2,482	3,899	7,578	4,434	1,875	1,151	930	53,269
Education											
Total	40,421	47,179	119,521	35,923	48,326	86,103	43,051	28,365	16,676	11,503	477,068
Male	24,253	28,179	66,442	22,474	28,953	51,294	27,092	20,822	11,000	6,974	287,483
Female	16,168	19,000	53,079	13,449	19,373	34,809	15,959	7,543	5,676	4,529	189,585
Human Health and Social Work											
Total	9,504	9,698	44,625	8,806	12,487	24,254	12,885	10,013	6,907	3,829	143,008
Male	4,365	4,289	24,878	3,554	6,031	10,666	6,554	6,087	3,743	1,862	72,029
Female	5,139	5,409	19,747	5,252	6,456	13,588	6,331	3,926	3,164	1,967	70,979
Arts, Entertainment and Recreation											
Total	1,192	1,493	7,365	798	785	4,849	1,006	619	364	284	18,755
Male	853	1,202	5,290	678	637	4,036	862	555	332	231	14,676
Female	339	291	2,075	120	148	813	144	64	32	53	4,079
Other Service											
Total	59,695	43,995	104,718	29,386	45,500	82,389	38,905	35,879	11,663	9,785	461,915
Male	32,817	23,605	55,748	16,534	24,662	41,559	20,385	24,958	6,367	5,566	252,201
Female	26,878	20,	48,970	12,852	20,838	40,830	18,520	10,921	5,296	4,219	209,714

Table A38: Distribution of persons engaged in establishment by sub-sectors, sex and region (cont'd)

Sub-sector in Industry/Sex	Region										Total
	Western	Central	Greater Accra	Volta	Eastern	Ashanti	Brong Ahafo	Northern	Upper East	Upper West	
Crops											
Total	7,797	3,007	16,551	2,375	7,019	1,914	2,522	840	235	412	42,672
Male	5,496	1,994	11,904	1,467	5,502	1,491	1,696	701	179	317	30,747
Female	2,301	1,013	4,647	908	1,517	423	826	139	56	95	11,925
Livestock and Poultry											
Total	1,183	526	852	429	507	2,943	2,158	573	109	75	9,355
Male	813	408	683	363	419	2,482	1,779	497	80	52	7,576
Female	370	118	169	66	88	461	379	76	29	23	1,779
Forestry and Logging											
Total	783	208	548	382	464	2,042	355	156	36	42	5,016
Male	719	177	373	329	428	1,578	288	140	34	40	4,106
Female	64	31	175	53	36	464	67	16	2	2	910
Fishing and Aquaculture											
Total	54	51	1,755	99	665	84	100	41	0	1	2,850
Male	43	40	1,280	97	526	55	74	33	0	1	2,149
Female	11	11	475	2	139	29	26	8	0	0	701

Table A39: Establishment status by region and size of establishment

Region/ establishment status	Size of establishment										Total
	1-4	5-9	10-14	15-19	20-24	25-29	30-49	50-99	100-199	200+	
All regions											
Total	509,033	76,363	22,365	10,120	5,422	3,059	5,907	3,325	1,567	1,073	638,234
Formal	25,441	13,483	6,471	3,705	2,501	1,591	3,023	2,186	1,060	853	60,314
Informal	483,592	62,880	15,894	6,415	2,921	1,468	2,884	1,139	507	220	577,920
Western											
Total	49,883	8,618	2,232	923	435	221	458	405	171	93	63,439
Formal	1,784	1,167	551	283	198	115	270	258	102	73	4,801
Informal	48,099	7,451	1,681	640	237	106	188	147	69	20	58,638
Central											
Total	42,644	6,074	1,909	1,050	467	179	330	192	89	41	52,975
Formal	1,279	904	431	282	174	83	164	105	45	27	3,494
Informal	41,365	5,170	1,478	768	293	96	166	87	44	14	49,481
Greater Accra											
Total	142,220	17,554	5,670	2,931	1,767	1,312	3,026	1,396	657	619	177,152
Formal	12,908	5,972	3,024	1,766	1,225	814	1,600	1,136	591	573	29,609
Informal	129,312	11,582	2,646	1,165	542	498	1,426	260	66	46	147,543
Volta											
Total	34,139	4,994	1,499	617	324	127	204	135	81	35	42,155
Formal	1,091	603	265	159	98	48	100	66	37	19	2,486
Informal	33,048	4,391	1,234	458	226	79	104	69	44	16	39,669
Eastern											
Total	47,687	6,653	2,083	952	461	202	319	217	139	53	58,766
Formal	1,639	941	487	259	170	106	154	115	73	29	3,973
Informal	46,048	5,712	1,596	693	291	96	165	102	66	24	54,793
Ashanti											
Total	101,041	13,475	3,983	1,856	1,038	549	862	508	215	117	123,644
Formal	3,588	1,845	947	534	341	248	429	286	110	68	8,396
Informal	97,453	11,630	3,036	1,322	697	301	433	222	105	49	115,248
Brong Ahafo											
Total	38,679	6,555	1,967	794	450	214	331	213	92	51	49,346
Formal	1,438	931	417	232	170	92	153	118	48	34	3,633
Informal	37,241	5,624	1,550	562	280	122	178	95	44	17	45,713
Northern											
Total	29,753	7,159	1,729	530	255	138	202	124	54	31	39,975
Formal	728	509	167	95	58	45	71	50	24	14	1,761
Informal	29,025	6,650	1,562	435	197	93	131	74	30	17	38,214
Upper East											
Total	12,367	3,173	776	285	124	73	107	79	49	21	17,054
Formal	483	442	130	58	40	27	51	35	25	9	1,300
Informal	11,884	2,731	646	227	84	46	56	44	24	12	15,754
Upper West											
Total	10,620	2,108	517	182	101	44	68	56	20	12	13,728
Formal	503	169	52	37	27	13	31	17	5	7	861
Informal	10,117	1,939	465	145	74	31	37	39	15	5	12,867

Table A40: Establishment status by sector and size of establishment

Sector/ establishment status	Size of establishment										Total
	1-4	5-9	10-14	15-19	20-24	25-29	30-49	50-99	100- 199	200+	
All regions											
Total	509,033	76,363	22,365	10,120	5,422	3,059	5,907	3,325	1,567	1,073	638,234
Formal	25,441	13,483	6,471	3,705	2,501	1,591	3,023	2,186	1,060	853	60,314
Informal	483,592	62,880	15,894	6,415	2,921	1,468	2,884	1,139	507	220	577,920
Industry											
Total	86,076	15,980	2,714	915	567	298	672	476	259	285	108,242
Formal	4,652	1,873	624	333	263	159	382	347	208	263	9,104
Informal	81,424	14,107	2,090	582	304	139	290	129	51	22	99,138
Service											
Total	421,278	59,889	19,501	9,111	4,796	2,727	5,133	2,725	1,250	751	527,161
Formal	20,587	11,486	5,792	3,326	2,214	1,413	2,579	1,751	801	556	50,505
Informal	400,691	48,403	13,709	5,785	2,582	1,314	2,554	974	449	195	476,656
Agriculture											
Total	1,679	494	150	94	59	34	102	124	58	37	2,831
Formal	202	124	55	46	24	19	62	88	51	34	705
Informal	1,477	370	95	48	35	15	40	36	7	3	2,126

Table A41: Number of persons engaged in establishment by establishment status, sector and size of establishment

Sector/ establishment status	Size of establishment										Total
	1-4	5-9	10-14	15-19	20-24	25-29	30-49	50-99	100-199	200+	
All regions											
Total	969,681	485,255	256,689	167,016	116,701	81,724	214,763	223,024	214,410	653,943	3,383,206
Formal	482,468	304,780	158,276	102,122	70,810	51,817	137,933	146,849	141,313	442,664	2,039,032
Informal	487,213	180,475	98,413	64,894	45,891	29,907	76,830	76,175	73,097	211,279	1,344,174
Industry											
Total	176,601	98,395	30,508	14,941	12,120	7,912	24,808	31,964	35,967	181,301	614,517
Formal	100,094	57,795	19,224	10,143	8,103	5,619	17,127	22,011	25,677	129,412	395,205
Informal	76,507	40,600	11,284	4,798	4,017	2,293	7,681	9,953	10,290	51,889	219,312
Service											
Total	789,169	383,747	224,450	150,530	103,316	72,912	186,103	182,367	170,481	445,721	2,708,796
Formal	379,026	244,316	137,637	90,782	61,695	45,523	117,872	118,444	109,941	294,013	1,599,249
Informal	410,143	139,431	86,813	59,748	41,621	27,389	68,231	63,923	60,540	151,708	1,109,547
Agriculture											
Total	3,911	3,113	1,731	1,545	1,265	900	3,852	8,693	7,962	26,921	59,893
Formal	3,348	2,669	1,415	1,197	1,012	675	2,934	6,394	5,695	19,239	44,578
Informal	563	444	316	348	253	225	918	2,299	2,267	7,682	15,315

Table A42: Number of persons engaged in establishment by establishment status, region and size of establishment

Region/ establishment status	Size of establishment										Total	
	1-4	5-9	10-14	15-19	20-24	25-29	30-49	50-99	100-199	200+		
All regions												
Total	969,681	485,255	256,689	167,016	116,701	81,724	214,763	223,024	214,410	653,943	3,383,206	
Formal	482,468	304,780	158,276	102,122	70,810	51,817	137,933	146,849	141,313	442,664	2,039,032	
Informal	487,213	180,475	98,413	64,894	45,891	29,907	76,830	76,175	73,097	211,279	1,344,174	
Western												
Total	98,194	54,695	25,514	15,267	9,334	5,869	16,938	27,212	23,253	58,157	334,433	
Formal	48,044	33,176	15,729	9,366	5,816	3,637	10,857	18,175	14,635	41,669	201,104	
Informal	50,150	21,519	9,785	5,901	3,518	2,232	6,081	9,037	8,618	16,488	133,329	
Central												
Total	79,936	38,608	22,013	17,414	9,976	4,700	11,874	12,384	11,781	23,392	232,078	
Formal	38,372	22,952	13,325	10,225	5,715	2,866	7,017	7,672	7,538	14,290	129,972	
Informal	41,564	15,656	8,688	7,189	4,261	1,834	4,857	4,712	4,243	9,102	102,106	
Greater Accra												
Total	262,602	111,333	65,387	48,490	38,178	35,450	109,814	94,464	90,576	428,042	1,284,336	
Formal	120,179	75,091	42,215	30,364	23,676	22,890	71,496	62,190	61,100	292,720	801,921	
Informal	142,423	36,242	23,172	18,126	14,502	12,560	38,318	32,274	29,476	135,322	482,415	
Volta												
Total	62,433	31,849	17,158	10,234	6,963	3,368	7,432	9,208	10,940	12,242	171,827	
Formal	32,107	18,869	10,149	6,124	4,091	2,044	4,842	6,305	7,044	8,126	99,701	
Informal	30,326	12,980	7,009	4,110	2,872	1,324	2,590	2,903	3,896	4,116	72,126	
Eastern												
Total	87,158	42,332	23,937	15,723	9,905	5,354	11,619	14,523	18,997	26,091	255,639	
Formal	41,367	25,898	13,985	9,143	5,801	3,326	7,384	9,593	12,296	16,805	145,598	
Informal	45,791	16,434	9,952	6,580	4,104	2,028	4,235	4,930	6,701	9,286	110,041	
Ashanti												
Total	191,861	85,214	45,559	30,488	22,259	14,570	31,529	33,507	29,685	55,799	540,471	
Formal	93,199	52,896	27,702	18,444	13,370	9,048	20,125	21,935	19,432	37,662	313,813	
Informal	98,662	32,318	17,857	12,044	8,889	5,522	11,404	11,572	10,253	18,137	226,658	

Table A42: Number of persons engaged in establishment by establishment status, region and size of establishment (cont'd)

Region/ establishment status	Size of establishment										Total	
	1-4	5-9	10-14	15-19	20-24	25-29	30-49	50-99	100-199	200+		
Brong Ahafo												
Total	74,346	41,817	22,700	13,170	9,716	5,655	11,829	14,269	12,730	24,577	230,809	
Formal	39,916	25,441	13,638	8,153	5,732	3,507	7,414	9,358	7,733	14,992	135,884	
Informal	34,430	16,376	9,062	5,017	3,984	2,148	4,415	4,911	4,997	9,585	94,925	
Northern												
Total	64,381	45,464	19,666	8,581	5,472	3,666	7,307	8,376	7,264	13,198	183,375	
Formal	42,161	30,466	12,736	5,586	3,520	2,397	4,640	5,597	5,212	9,268	121,583	
Informal	22,220	14,998	6,930	2,995	1,952	1,269	2,667	2,779	2,052	3,930	61,792	
Upper East												
Total	26,699	20,422	8,841	4,660	2,701	1,939	3,978	5,323	6,610	7,580	88,753	
Formal	13,410	12,073	5,235	2,877	1,730	1,305	2,551	3,534	4,446	4,569	51,730	
Informal	13,289	8,349	3,606	1,783	971	634	1,427	1,789	2,164	3,011	37,023	
Upper West												
Total	22,071	13,521	5,914	2,989	2,197	1,153	2,443	3,758	2,574	4,865	61,485	
Formal	13,713	7,918	3,562	1,840	1,359	797	1,607	2,490	1,877	2,563	37,726	
Informal	8,358	5,603	2,352	1,149	838	356	836	1,268	697	2,302	23,759	

Reference Number - - -

Indicate Sub-Sector of Principal Activity (WRITE APPROPRIATE CODE IN THE BOX)

D7: Sub-Sector in Industry <input type="text"/> 1. Manufacturing 2. Mining & Quarrying 3. Electricity & Gas 4. Water Supply, Sewerage, Waste Management 5. Construction	D8: Sub-Sector in Services <input type="text"/> 1. Wholesale & Retail Trade 2. Transportation & Storage 3. Accommodation & Food storage 4. Information & Communication 5. Financial & Insurance 6. Real Estate 7. Professional, Scientific & Technical 8. Administrative & Support Service Activities	D9: Sub-Sector in Agriculture <input type="text"/> 1. Crops 2. Livestock 3. Forestry & Logging 4. Fishing & Aquaculture
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EMPLOYMENT DATA

REPORT EMPLOYMENT ONLY FOR YOUR ESTABLISHMENT (LOCATION). IF IN A HEAD OFFICE, REPORT EMPLOYMENT ONLY FOR THE HEAD OFFICE.
 NUMBER OF PERSONS ENGAGED INCLUDES WORKING PROPRIETORS, UNPAID FAMILY WORKERS, PERMANENT, CASUAL AND TEMPORARY STAFF AND PART-TIME WORKERS. EXCLUDE WORKERS PAID BY EXTERNAL CONTRACTORS EVEN THOUGH THEIR WORK TAKE PLACE IN YOUR ESTABLISHMENT. FOR EXAMPLE, EMPLOYEES OF A CONTRACTED SECURITY AGENCY.

SECTION E: PERSONS ENGAGED

E1: How many persons were engaged in the activities of the Establishment as at 31st August, 2014

	TOTAL	PERMANENT	TEMPORARY
	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

CLASSIFY THE NUMBER OF PERSONS ENGAGED AS FOLLOWS:

	PERMANENT		TEMPORARY	
	MALE	FEMALE	MALE	FEMALE
E2: Total	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
E3: Ghanaian	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
E4: Non-Ghanaian	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

SECTION F: SKILL LEVELS OF PERSONS ENGAGED

STATE FOR EACH SKILL LEVEL, THE NUMBER OF PERSONS ENGAGED IN THE ACTIVITIES OF THE ESTABLISHMENT DURING THE LAST PAY PERIOD NEAREST TO 31ST AUGUST, 2014

WORKERS DIRECTLY INVOLVED IN PRODUCTION OF GOODS AND SERVICES

F1: Skilled Workers

F2: Unskilled Workers

F3: Apprentices (Learners)

WORKERS NOT DIRECTLY INVOLVED IN PRODUCTION OF GOODS AND SERVICES

F4: Managerial, Professional and Administrative

F5: Other Workers

Reference Number

Reg. Code	District Code	EZ Code	Est. Code
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

SECTION G: NUMBER OF PERSONS ENGAGED OVER THE LAST 12 MONTHS (EXCLUDE APPRENTICES)

	TOTAL	SKILLED	UNSKILLED
G1: Number of persons engaged as at 30th November, 2013	<input type="text"/>	<input type="text"/>	<input type="text"/>
G2: Number of persons engaged as at 28th February, 2014	<input type="text"/>	<input type="text"/>	<input type="text"/>
G3: Number of persons engaged as at 31st May, 2014	<input type="text"/>	<input type="text"/>	<input type="text"/>
G4: Number of persons engaged as at 31st August, 2014	<input type="text"/>	<input type="text"/>	<input type="text"/>

SECTION H: ESTABLISHMENT RECORDS

H1: In what year did the establishment commence?

H4: When does the establishment's accounting year end?

/
Day Month

H2: What type of accounting records are kept? (WRITE CODE)

1. Formal 2. Informal 3. No Accounts

H5: Number of months of operation during the last 12 months

(IF OPTION 3, SKIP TO H5)

H3: Where are the accounting records kept / managed? (WRITE CODE)

1. This Establishment 2. Head Office 3. Another Establishment

H6: Is this establishment operating for Profit or Not for Profit (WRITE CODE)

1. Profit
2. Not for Profit

SECTION I: CONTACT PERSON'S DETAILS

I1: Name

I2: Designation

I3: Contact Number

I4: Email

SECTION J: IDENTIFICATION OF FIELD PERSONNEL

J1: Name of Enumerator

Signature

J2: Enumerator ID

J3: Interview Date / /
Day Month Year

J4: Name of Supervisor

Signature

J5: Supervisor ID

J6: Date Checked / /
Day Month Year

J7: Name of Zonal Coordinator

Signature

J8: Date Checked / /
Day Month Year

