



GHANA 2021 POPULATION AND HOUSING CENSUS

GENERAL REPORT VOLUME 3H

FERTILITY AND MORTALITY



THE COORDINATED PROGRAMME OF ECONOMIC AND
SOCIAL DEVELOPMENT POLICIES 2017-2024
AN AGENDA FOR JOBS: CREATING PROSPERITY
AND EQUAL OPPORTUNITY FOR ALL



TRANSFORMING OUR WORLD
THE 2030 AGENDA FOR SUSTAINABLE
DEVELOPMENT

GHANA 2021 POPULATION AND HOUSING CENSUS

**GENERAL REPORT
VOLUME 3H**

**GHANA STATISTICAL SERVICE
FEBRUARY 2022**

ADMINISTRATIVE MAP OF GHANA



GHANA 2021 POPULATION AND HOUSING CENSUS PUBLICATIONS

Volume 1	Preliminary Report
Volume 2	Residential Proximity to Essential Service Facilities Report
Volume 3A	Population of Regions and Districts
Volume 3B	Age and Sex Profile
Volume 3C	Background Characteristics
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FOREWORD

The Ghana 2021 Population and Housing Census (PHC) was conducted to provide updated demographic, social and economic data for research, policy and planning to support national development activities and track the implementation of national, continental, and global development goals, such as the Coordinated Programme of Economic and Social Development Policies, 2017-2024: An Agenda for Jobs: Creating Prosperity and Equal Opportunity for All; Agenda 2063, The Africa We Want; and Transforming Our World: the 2030 Agenda for Sustainable Development.

Development is inextricably linked with population growth, which is driven by three variables, namely fertility, mortality, and migration. The first two, which contribute to natural population growth, represent important predictors of population change with implications for the achievement of the demographic dividend. As fertility declines and quality of life improves, a window of opportunity to achieve key development goals open for countries. The shift in population structure and composition is linked with improvements in wellbeing such as quality of life, school participation, maternal and child health, and labour force participation. Furthermore, levels and causes of mortality are indicative of the development of health system infrastructure and management.

Volume 3H: Fertility and Mortality presents statistics on children ever born to women aged 15-49 years; proportion of children ever born and are surviving to women aged 15-49 years; deaths of household members; cause of death; and pregnancy-related deaths. The statistics are disaggregated by region and type of locality (urban/rural).

This publication targets Government Ministries, Departments, and Agencies (MDAs); Metropolitan, Municipal and District Assemblies (MMDAs), Development Partners, Civil Society Organisations (CSOs), Private Sector, Research and Academia, and the public. The report will guide the Ministry of Health and relevant stakeholders in the implementation of the Revised National Health Policy (2020) which aims to ensure healthy lives for all. The statistics on fertility and mortality will particularly aid implementation, monitoring and evaluation of several health sector policies and strategic plans including the Reproductive, Maternal, Newborn, Child and Adolescent Health and Nutrition Strategic Plan (2020), the National Child Health Policy and Strategy (2017 – 2025), and the National Reproductive Health Service Policy and Standards (2014).

Further, the statistics on fertility and mortality will help accomplish the goals of the Revised National Population Policy (2018) which include functional integration of population variables into the national development planning process of the country for sustainable development as well as the Sexual and Reproductive Health Policy for Young People (2018) which targets young people for responsible adulthood. The report thus provides information for evidence-based decision-making to ensure the health and wellbeing of persons in Ghana and monitor progress towards the nation's development goals.

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We are indeed grateful to the Ministry of Finance, Ministry of Education, Ghana Education Service (GES), Ministry of Information, Information Services Department, Ministry of Local Government, Decentralisation and Rural Development, Local Government Service, and the various District Assemblies, National Identification Authority, Ministry of Defence, Ghana Armed Forces, Ministry of Interior, Ghana Police Service, Ghana Immigration Service, Ghana Civil Aviation Authority, Ghana Airports Company Limited, Ghana Fire Service, Ghana Prisons Service, Ministry of Health, Ghana Health Service, Ministry of Foreign Affairs and Regional Integration, National Commission for Civic Education (NCCE), Electoral Commission (EC), Office of Government Machinery, Ministry of Parliamentary Affairs, Parliament, Ministry of National Security, National Sports Authority, National Communication Authority, Ghana Highways Authority, Survey Department, Ministry of Sanitation and Water Resources, Ministry of Food and Agriculture, Births and Deaths Registry, Religious and Traditional Leaders, individuals and all other organisations that provided the needed support to enable GSS execute this essential national exercise.

We are also indebted to our partners and collaborators, notably, the United Nations Population Fund (UNFPA), World Bank, European Union (EU), International Organisation for Migration (IOM), United Nations Development Programme (UNDP), United Nations Economic Commission for Africa (UNECA), United Kingdom Office for National Statistics (ONS), Statistics Denmark, Geo-Referenced Infrastructure and Demographic Data for Development (GRID³), Jospong Group of Companies, IPMC Ghana, telecommunication companies, CalBank, Windy Lodge Beach Resort, and tertiary institutions for their technical, logistic and financial support, and publicity, education and advocacy campaigns that led to the effective and efficient management of the census processes.

The Statistical Service also appreciates the contributions of the general public, the media, all Census officials and field officers for ensuring a successful enumeration.

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ABBREVIATIONS AND ACRONYMS

CAPI	Computer-Assisted Personal Interview
CCT	Census Coordinating Team
CSOs	Civil Society Organisations
CSPro	Census and Survey Processing System
CTA	Chief Technical Advisor
DCICs	District Census Implementation Committees
DCOs	District Census Officers
DDQM	District Data Quality Monitor
DFSs	District Field Supervisors
DPs	Development Partners
DQMTs	Data Quality Management Teams
EAs	Enumeration Areas
EBRP	Enumerator Bureau Recruitment Portal
EC	Electoral Commission
EU	European Union
GCA	Ghana Census of Agriculture
GES	Ghana Education Service
GHS	Ghana Health Service
GoG	Government of Ghana
GRID ³	Geo-Referenced Infrastructure and Demographic Data for Development
GSS	Ghana Statistical Service
HQ	Headquarters
IOM	International Organisation for Migration
IT	Information Technology
MDAs	Ministries, Departments, and Agencies
MMDAs	Metropolitan, Municipal and District Assemblies
NCCE	National Commission for Civic Education
NDQMT	National Data Quality Management Team
NGOs	Non-Governmental Organisations
NIA	National Identification Authority
NPEAC	National Publicity, Education and Advocacy Committee
NTAC	National Technical Advisory Committee
ONS	United Kingdom Office for National Statistics
PEA	Publicity, Education and Advocacy
PES	Post-Enumeration Survey
PHC	Population and Housing Census
PPEs	Personal Protective Equipment
RCICs	Regional Census Implementation Committees
RDQMT	Regional Data Quality Management Team
RFSs	Regional Field Supervisors
SA	Supervisory Area
SDGs	Sustainable Development Goals
UNDP	United Nations Development Programme

UNECA	United Nations Economic Commission for Africa
UNFPA	United Nations Population Fund
WAEC	West African Examinations Council
ZFCs	Zonal Field Coordinators

1. OVERVIEW OF 2021 POPULATION AND HOUSING CENSUS

1.1. Introduction

Population census is the complete enumeration of all persons in a country at a specified time. It involves the collection, compilation and dissemination of demographic, social and economic statistics relating to the population. The complementary housing census is the complete enumeration of all living quarters (both occupied and vacant) in a country at a specified time. It also involves collection, compilation, and dissemination of statistical data on living quarters and occupants. Ghana has been conducting censuses since 1891 but Population and Housing censuses since 2000. In total, twelve population censuses have been conducted in the country — six during the pre-independence era and the other six in the post-independence era. The 2021 PHC is the 12th census and the first fully digital census (E-Census) conducted in the country.

The 2021 PHC was a count of all persons present in Ghana on the Census Night (27th June, 2021), irrespective of their nationality. It also involved counting all living quarters in the country. The Census operations focused on strategic areas to ensure that everyone is counted, enumerated once, and at the right place. These were anchored on five main strategic pillars: deployment of ICT solutions to drive the entire census process; use of geo-spatial data; decentralised data flow, management and analysis; integrated and enhanced field operations; and enhanced use of census processes and outcomes, notably census data.

The Census was designed and implemented to provide reliable and accurate data for evidence-based decision making, to support the implementation and tracking of progress and achievement of national agenda (e.g., The Coordinated Programme of Economic and Social Development Policies (2017-2024), Ghana Centennial Development Plan, NDPC Agenda 2057); continental (e.g., Agenda 2063) and global development agenda (e.g., the Sustainable Development Goals [SDGs]).

As a country, the Population and Housing Census provides information on who we are, how many we are, and where and how we are living. This information is essential for national development as the size, composition and characteristics of the population are useful for planning by all Ministries, Departments and Agencies (MDAs) and the private sector. The results will form the basis for the estimation and projection of needs in all sectors of the economy.

This report focuses on the regions and districts, which constitute the units of administration and planning in the country. It presents data on the population of administrative units, age and sex structure and the background characteristics of the population.

1.2. History of Census Taking in Ghana

The history of official census taking in Ghana dates back to 1891 when the first census was conducted by the colonial administration. The census recorded a total population of 764,613. Since then, censuses have been held every 10 years in accordance with the United Nations recommendations. The expectation is that the decennial interval is an appropriate period to determine a change in a country's population structure, composition and socio-economic arrangements. However, the decennial interval was distorted in 1941, 1980, 1990 and 2020. The Second World War which occurred between 1939 and 1945 was the reason the census was not conducted in 1941. After the war, the census was conducted in 1948. In the late 1970s and early 1980s the country was hit with economic challenges and political instability that did not make it possible for a census to be conducted in 1980 but instead in 1984. Having taken a census in 1984, the next census could not have been held in 1990, as the time was too short to plan the Census, nor could the ten-year interval be maintained in 1994. More recently, due to the emergence of COVID-19, the Census that had been planned for 2020 had to be conducted in 2021 and a total population of 30,832,019 was recorded (Table 1.1).

TABLE 1.1: GHANA'S POPULATION IN CENSUS YEARS

Pre-independence		Post-independence	
Year	Count	Year	Count
1891	764,613	1960	6,726,815
1901	1,549,661	1970	8,559,313
1911	1,503,911	1984	12,296,081
1921	2,296,400	2000	18,912,079
1931	3,160,386	2010	24,658,823
1948	4,118,459	2021	30,832,019

1.3. Objectives of 2021 PHC

Generally, censuses provide data for comparing and projecting demographic, social and economic characteristics, as well as household and housing conditions at all levels of the country's administrative units and dimensions: national, regional, districts and localities.

The Ghana 2021 PHC had an overarching goal of generating updated demographic, social and economic data, housing characteristics and dwelling conditions to support national development planning activities. This was reinforced by eight specific objectives, which are to:

- a) Generate data on population and housing to determine, analyse and assess the population structure and the demographic, social, economic and housing characteristics of the population;
- b) Identify and analyse the availability, ownership and accessibility to ICT and ICT devices by the population, and how ICT is used by the different cohorts within the population;

- c) Collect and analyse the sanitation characteristics and conditions in households, localities, districts and regions in the country;
- d) Generate data on economic activities to determine the population in employment and multidimensional poverty;
- e) Identify the population that have difficulties in performing activities due to disability;
- f) Develop sampling frame on population and housing to serve as a basis for intercensal and other surveys;
- g) Track the implementation of national, continental and global goals including the Coordinated Programme of Economic and Social Development Policies, 2017-2024; An Agenda for Jobs: Creating Prosperity and Equal Opportunity for All; Agenda 2063: The Africa We Want; and Transforming Our World: The 2030 Agenda for Sustainable Development; and
- h) Generate and develop datasets as bases for detailed and specific researches that contribute to context-specific planning and decision making.

The intended outcomes of the 2021 PHC were to make available these datasets and information for four broad categories of users: the government, global development partners, private sector, and academics/analysts. The government is the primary and utmost user of the 2021 PHC data. The central government, policy-makers and local governments need the data to plan for the socio-economic development of the country in diverse areas including education, health, housing, and other social services for different groups of persons such as children, aged, young people, the vulnerable, marginalised as well as those with special needs. Beyond the government, results from the PHC will provide corporate Ghana, development partners and the private sector with the required data and information to facilitate innovative interventions, programmes and activities to contribute to the infrastructural and socio-economic development of the country. Furthermore, the data would serve as the base for present and future modelling of the country's development framework.

1.4. Legal Framework

The 2021 PHC, derived its legal authority from the Statistical Service Act, 2019 (Act 1003), which stipulates *inter alia*, that the Service shall conduct a census of population every ten years in the month of March¹. The Act, therefore, empowered the Government Statistician to conduct the 2021 PHC. All the census activities, namely collection, compilation and dissemination of demographic, social and economic statistics relating to the population derived their legal basis from Act 1003.

In pursuance of the dictates of the Statistical Service Act, 2019, all the field officers were educated about the responsibility of the public to provide information, and they in turn, to collect the information accordingly; as well as the relevance of adhering to the principles and dictates of the Statistical Service Act. The field officers were trained about how to execute their mandate before, during and after the 2021 PHC within the legal

¹ The Census could not be organised in March 2020 because of the COVID-19 situation in the country.

framework. One of the fundamental principles which informed the 2021 PHC operations and activities is the ethic of confidentiality. The knowledge that the disclosure without lawful authorisation of information obtained in the 2021 PHC is an offence liable for a fine or a term of imprisonment or both, as stipulated in the Statistical Service Act, ensured confidentiality at all levels. In keeping with the ethical principle, enumerators verbally informed all respondents prior to the data collection that the data being collected would only be used by the Ghana Statistical Service for statistical purposes as stipulated in Act 1003.

In addition, the field officers complied with the section of the Act that compelled them to handle 2021 PHC documents and logistics with utmost care. Largely, the intent was achieved through two processes. The first was that all field officers were educated during the training on all matters relating to confidentiality, and attention was drawn to Clause 55 of the Act, which stipulates that:

"Any person, who, without lawful authority, destroys, defaces or mutilates any schedule, form or other document containing particulars obtained in pursuance of the provisions of this Act shall be guilty of an offence and liable on summary conviction to a fine or to imprisonment for a term not exceeding twelve months or to both fine and imprisonment".

The second was that all the field officers swore the Oath of Secrecy in accordance with the Statistical Service Act, 2019. They swore to uphold secrecy in the fulfilment of their assigned duties and tasks according to law in the discharge of their duties in all matters relating to the Census.

The public was also educated via the various media outlets about their responsibility to provide accurate responses during the 2021 PHC in accordance with the Act. This notwithstanding, there were few instances where, as a last resort, GSS activated the District Census Implementation Committee (DCIC) and the Ghana Police Service to persuade some persons and households to comply with the law.

1.5. E-Census

The 2021 PHC was fully digital (E-Census) with all the processes based on IT solutions. The IT platforms that were adopted are: Computer Assisted Personal Interview (CAPI) and Batch Program for Data Entry and Cleaning; Census Management Systems to integrate the activities of all the Census implementation teams on a common platform; Census Coverage System which harnessed all the Geo-Data from Demarcation and the Census Listing Data to determine physical coverage of the Census; Census Dynamic Dashboard for monitoring of fieldwork; and Census Citizens Platform for citizen engagement. These are based on three-pronged objectives: to receive data in near real-time; to correct inconsistencies associated with the data; and to release census data on time. The E-Census is consistent with the recommendations from the United Nations which stipulate that all the 2020 round of population censuses should be digitalised. The approach also addressed some of the challenges that were posed by the COVID-19 pandemic.

The IT platform was also used for recruitment of officers, instrumentation, training, mapping, logistic management, enumeration in the census, transmission and management of data, analysis, post enumeration survey and payment of funds.

1.6. Census in COVID-19 Era

The outbreak of COVID-19 impacted the Census in diverse ways. It disrupted staff work schedules, finances, timing of recruitment, training and all related activities. This led to its postponement from March 2020 to June 2021. In response to the pandemic in general and the restrictions and associated disruption, GSS developed a Business Continuity Plan (BCP) to serve as the framework to guide the implementation of the Census. Key strategies that were put in place were with respect to staff management, resource re-mobilisation, transfer of funds, hybrid training models, adherence to COVID-19 protocols and vaccination. The BCP underscored and facilitated the implementation of the E-Census.

Staff work schedules were restructured to accommodate virtual interactions and work-from-home plans while maintaining a section to keep the offices running. Official vehicles were used to pick up some of the staff from home to work due to the partial lockdown that was imposed by the government. Moreover, activities such as meetings and consultations were done in virtual spaces.

Based on the BCP, revised financial, logistics and procurement strategies were presented to and approved by the National Census Steering Committee. Local and international partners and collaborators were further engaged to support in various ways including financial and logistic commitments. In addition, payments to suppliers and personnel contracted were done electronically.

Hybrid training models, comprising self-learning, virtual and face-to-face interactions were developed and employed at different phases of the training programme. These were adopted to train the national and regional trainers as well as field officers to ensure adherence to the social distancing protocol, and to limit travel. During the face-to-face interaction, the maximum number of participants was pegged at 40 to achieve social distancing in training rooms.

A COVID-19 prevention team was constituted to ensure that all the COVID-19 protocols were adhered to during training, meetings and the fieldwork. Running water, soap, tissue paper, hand sanitisers and face masks were provided and social distancing was observed. In addition, the Ghana Health Service was engaged to vaccinate all staff of the GSS and field officers.

1.7. Census Organisational Structure

The Chief Census Officer who is also the Government Statistician had the overall responsibility for coordinating all the Census activities. Strategic implementation structures were set up at the national, regional and district levels. At the apex of the census organisation structure was the National Steering Committee, chaired by the

Minister of Finance, and was supported by the National Publicity, Education and Advocacy Committee (NPEAC), chaired by the Minister of Information; and the National Technical Advisory Committee (NTAC) with the Governing Board of GSS providing oversight for the entire census.

The Census operation was managed by the Census Coordinating Team (CCT) comprising the Deputy Government Statisticians, UNFPA Chief Technical Advisor (CTA) and three other Technical Advisors. The implementation was organised under seven workstreams, with the National Census Secretariat performing the administrative functions. The workstreams were Census Methodology; Logistics and Finance; IT and Data Processing; Publicity, Education and Advocacy; Monitoring and Evaluation; Census Mapping and Post-Enumeration Survey.

At the regional level, 16 Regional Census Implementation Committees (RCICs) and at the district level, 272² District Census Implementation Committees (DCICs), chaired by the Regional and District Coordinating Directors, respectively, coordinated the exercise. For effective coordination between the national and sub-national levels, the regions were zoned into six areas and coordinated by Zonal Field Coordinators (ZFCs).

1.8. Finance and Logistics

The main funding and logistics for the Census were provided by the Government of Ghana, and partly by the World Bank, development partners and the private sector. Funding and support came in various forms — cash, technical assistance, provision of logistics and infrastructure (offices, storage and training), and financial administration. These were mainly coordinated at the GSS Headquarters (HQ). However, the regional and district offices processed and validated payments at their respective levels. With respect to fund transfer and payment of enumerators, the Electronic Payment System (G-Money) was used. This facilitated the timely transfer of money to recipients (persons or accounts) with less costs (financial and time).

The logistics and finance workstream was constituted to ensure that the right products, and the needed quantities reached the right location safely and timely to facilitate effective and efficient training of census personnel, conduct of fieldwork, write reports and disseminate them. The workstream coordinated the distribution of census materials from GSS HQ to the regions and districts and also ensured that damaged materials were replaced expeditiously for seamless implementation of the Census.

1.9. Publicity, Education and Advocacy

The Publicity, Education and Advocacy (PEA) workstream engaged various stakeholders; primarily, ministries, departments and agencies (GES, NCCE, GHS,

² The Metropolitan areas were represented at the sub-metro level and this brought the total number of statistical districts to 272, as opposed to the 261 District Assemblies in the country.

Information Service Department) at the various levels of administration and governance (i.e., including MMDAs) and the private sectors for public education on the 2021 PHC. Also, religious groups and traditional authorities at the community level were contacted and they played specific roles to enhance the publicity of the 2021 PHC. The media (print, electronic and social media), on their part, played an important role in the publicity.

The 2021 PHC was publicised through diverse and myriad outlets to inform the public about the exercise, and their civic responsibility of allowing field officers to enter their communities and houses, and to provide the required information. The PEA workstream with its institutional partners and the media rolled out strategic programmes to enhance the communication messaging to the public regarding the 2021 PHC. Notable was the television programme that was developed to educate children about the 2021 PHC, with the expectation that they would share information with their parents and guardians; and discussions on local and international platforms to inform the local and global communities about the exercise.

PEA activities were conducted at all three phases of the exercise: during pre-enumeration, main enumeration and post-enumeration.

1.9.1. Pre-Enumeration

Two main PEA activities were conducted during the pre-enumeration stage. First, the PEA workstream led the development of key communication messages and instructional materials for information, education and communication. For instance, GSS developed a document on 100 uses of census data; a quarterly newsletter; information sheets for targeted groups; posters and flyers; census drama and advocacy videos. Secondly, public education through media outlets (print, electronic and social) were provided to create awareness, as well as to sensitise and educate the public about the importance of the 2021 PHC, and to encourage them to participate in the exercise.

1.9.2. Main Enumeration

The public education during the main enumeration covered three essential issues. First, it touched on how to identify an enumerator, and by extension, a census officer. Second, the education related to how to receive the field officer, and what households were expected to do whenever a census officer entered their premises. Third, the education and sensitisation programmes presented the general categories of questions that would be asked, and who could respond to these questions.

1.9.3. Post-Enumeration

The public education undertaken during the post-enumeration phase expressed commendations to the various segments of the public for contributing to the success of the 2021 PHC. In addition, the public was sensitised about the schedule for the release of the results, the impending Post-Enumeration Survey (PES), and the rationale for the

exercise. The post- enumeration publicity on the PES appealed to the public to provide similar reception to the enumerators as they did during the main enumeration.

1.9.4. Special Events

GSS put up a series of special events to sensitise, educate and create awareness about the PHC. These included a 100-Day Countdown to the Census Night which was launched by Alhaji Dr. Mahamudu Bawumia, Vice President of Ghana; and the 30-Day Countdown to the Census Night launched by Nana Addo Dankwa Akufo-Addo, President of Ghana, and subsequently launched concurrently in all the districts by District Chief Executives. Census Night was set for mid-night of 27th June 2021 as a statistical reference point for the Census. The night signified an imaginary snapshot of the status of the population in the country at that point in time. To ensure that people remembered the night, activities were organised and celebrated concurrently at the national, regional, and all the 272 Statistical Districts in the country.

1.10. Instruments and Procedures

GSS developed two categories of instruments for the 2021 PHC: the listing form and the enumeration instruments. The listing form was only one, while the enumeration instruments comprised six questionnaires, designated as PHC 1A, PHC 1B, PHC 1C, PHC 1D, PHC 1E and PHC 1F. The PHC 1A was the most comprehensive with the others being its subsets.

1.10.1. Listing Form

The listing form was developed to collect data on type of structures, level of completion, whether occupied or vacant and use(s) of the structures. There were also modules used to collect information about the availability, number and types of toilet facilities in the structures. It was also used to capture the number of households in a structure, number of persons in households and the sex of the persons residing in the households if occupied. Finally, the listing form was used to capture data on non-household populations such as the population in institutions, floating population and sex of the non-household populations. The form was administered two weeks prior to Census Night.

1.10.2. PHC 1A

The PHC 1A questionnaire was used to collect data from all households in the country. Primarily, it was used to capture household members and visitors who spent the Census Night in the dwelling of the household, and their relationship with the head of the household. It was also used to collect data on homeless households. Members of the households who were absent were enumerated at the place where they had spent the Census Night. The questionnaire was also used to collect the following household information: emigration; socio-demographic characteristics (sex, age, place of birth and enumeration, survival status of parents, literacy and education; economic activities; difficulty in performing activities; ownership and usage of information, technology and

communication facilities; fertility; mortality; housing characteristics and conditions and sanitation.

1.10.3. PHC 1B

The PHC 1B questionnaire was used to collect data from persons in stable institutions comprising boarding houses, hostels and prisons who were present on Census Night. Other information that was captured with this instrument are socio-demographic characteristics, literacy and education, economic activities, difficulty in performing activities; ownership and usage of information, technology and communication facilities; fertility; mortality; housing characteristics and conditions and sanitation.

1.10.4. PHC 1C

The PHC 1C questionnaire was used to collect data from persons in “unstable” institutions such as hospitals and prayer camps who were present at these places on Census Night. The instrument was used to capture only the socio-demographic characteristics of individuals.

1.10.5. PHC 1D

The PHC 1D questionnaire was used to collect data from the floating population. This constitutes persons who were found at airports, seaports, lorry stations and similar locations waiting for or embarking on long-distance travel, as well as outdoor sleepers on Census Night. The instrument captured the socio-demographic information of individuals.

1.10.6. PHC 1E

All persons who spent the Census Night at hotels, motels and guest houses were enumerated using the PHC 1E. The content of the questionnaire was similar to that of the PHC 1D.

1.10.7. PHC 1F

The PHC 1F questionnaire was administered to diplomats in the country.

1.11. IT Operations

The 2021 PHC, being an E-Census, its execution demanded the full deployment of IT software, devices and accessories at all stages of the process among which were: census mapping, development of instruments, recruitment and training, asset management, data transmission and storage, data quality management, data processing and release, and monitoring. Tablets were procured and the Computer Assisted Personal Interview (CAPI) application was developed. Basic IT activities such as testing of the tablets and all the corresponding accessories were performed to ensure

that the specifications conformed to the expected standards. In addition, three other tasks were conducted. These were tablet provisioning, asset retrieval and inventory.

1.11.1. Tablets Provisioning

The provisioning of all the tablets for the 2021 PHC involved the uploading of all required content materials for the Census onto the tablets. The contents were the instruments and other related documents such as the Field Officer's Manual, Supervisory Area (SA) and Enumeration Area (EA) maps, reference materials, etc. The team adopted four steps to provision the tablets. The first step was to prepare the tablets. This involved the acquisition of tablets and taking inventory of all tablets acquired. The second step was to pre-provision the tablets. This involved the basic configuration (e.g., resetting of dates, time, etc.) of the tablets, matching each tablet with the specification required and validating their functionality. The third step was the provisioning of the tablets. The final step was the post-provisioning. This involved labelling, preparing and distributing the tablets to specific regions and districts.

1.11.2. Assets Retrieval

After enumeration was completed, all the assets, particularly, the tablets and accessories were retrieved from the field officers at the district and regional levels. Checks were conducted to ensure that all the tablets, with the specific labels that were distributed are retrieved.

1.11.3. Stock-taking and Reconciliation

The inventory of the assets that were retrieved was conducted at the Secretariat of GSS. A series of activities were conducted: the team checked the functionality of each of the tablets; backed up all data to secure the data on an external storage device and local server; stored the tablets according to the regions and districts based on the distribution plan; reset the tablets to original status; and developed an inventory report.

1.12. Census Mapping

The 2021 PHC utilised both analogue and interactive maps to determine, identify, locate and relate with supervisory area (SA) and enumeration area (EA) localities, geographical boundaries and other notable landmarks. The production of the various maps entailed the following: preparation; recruitment and training; deployment of teams; development of maps; monitoring; re-demarcation; and administrative activities and finalisation.

1.12.1. Preparation

The GIS workstream in charge of mapping assembled all the materials including digital datasets, GPS devices and other logistics that were needed for the exercise. Based on the outcome, the schedule and the personnel to be recruited were also developed and determined accordingly.

1.12.2. Recruitment and Training

About 130 personnel were recruited and trained to conduct the mapping exercise in the country for the 2021 PHC. The personnel were trained purposely to collect data that were used as the basis for the SA and EA mapping.

1.12.3. Deployment of Teams

After the training, the personnel were deployed to the field in teams to collect the data on coordinates and visible features. In all, 50 teams were deployed with each team comprising two or three field officers. A team was assigned to one district at a time. Two main objectives were achieved. Firstly, the existing maps that were used in the 2010 PHC were updated to reflect the changes that had occurred between then and at the time of the exercise. For instance, in the 2010 PHC, there were 120 districts as opposed to 261 districts during the 2021 PHC. Secondly, further segmentations were done in order to arrive at desired EAs for the development of appropriate maps for the 2021 PHC.

1.12.4. Production of Maps

Based on the data collected from the fieldwork, analogue and interactive maps were developed. While the analogue maps provided all the details such as geographical features and landmarks in each district, the interactive maps enabled the field officers to navigate through the boundaries in their assigned EAs, SAs and districts.

1.12.5. Monitoring

A monitoring team was constituted to visit all the districts where GPS coordinate data, other features and landmarks were taken by the field officers. This was done for the purpose of quality assurance. The monitoring team therefore took and downloaded all the GPS coordinates to the GSS Secretariat, and the data were used to validate the ones collected earlier.

1.12.6. Re-Demarcation

During the mapping fieldwork, it was observed that there had been changes in the districts due to rapid structural development, population density, etc., since the 2010 PHC. As such, some of the EAs and SAs within districts were re-demarcated to make the 2021 PHC exercise manageable. In total, 51,913 EAs and 11,199 SAs were identified. The EAs formed the basis for determining the number of field officers required, their deployment as well as the procurement and distribution of logistics.

1.12.7. Administrative Activities

A series of interrelated administrative activities were conducted after the re-demarcation of areas and generation of maps. The first activity was editing. All the EAs that were demarcated in the 2010 PHC were accounted for in the 2021 PHC, and the re-demarcated EAs reviewed to obtain the current total number of EAs. The second

activity was coding. Every EA was assigned its unique 10-digit code. The third activity was the production of the digitised prototype maps. These maps were proofread at the fourth stage. Lastly, the maps were finalised for use by the field officers.

The interactive maps were based on Google features. The 2021 PHC also made use of existing satellite images that showed features and objects on the ground –Building Footprint. The images were captured about two years before the 2021 PHC and were used as a basis for identifying features and objects on the ground.

1.13. Recruitment and Training

Recruitment and training were core to the 2021 PHC. To ensure that the right calibre of field officers were recruited and trained for this important exercise, different approaches were adopted.

1.13.1. Approach to Recruitment

GSS engaged two main categories of officers to implement the 2021 PHC. The first comprised Curriculum Reviewers, National Monitors, Chief Trainers, Deputy Chief Trainers, Master Trainers, National Trainers and Regional Trainers. The second was the engagement of field officers, made up of Supervisors and Enumerators. The approaches employed to select the officers ranged from institutional selection, recommendations and online application processes.

1.13.2. Curriculum Reviewers

The curriculum reviewers, 12 in number, were staff in the various universities across the country, and some selected staff of GSS with expertise in instructional material development, training and assessment. They were purposively selected based on their expertise. They developed and revised all the training documents, including the Field Officer's Manual and the Trainer's Guide; complemented the training of all the field officers by assisting with sessions on presentation skills of the trainees, assessing and selecting them for the 2021 PHC.

1.13.3. Chief Trainers and Deputy Chief Trainers

The Chief Trainers and Deputy Chief Trainers were staff of GSS and MDAs with rich experience in censuses, surveys, and fieldwork. They were purposively selected and trained to train the master trainers. The Chief Trainers and deputies were responsible for the development of the Census instruments and the training of all groups of personnel. Four Chief Trainers and eight Deputy Chief Trainers were engaged for the exercise.

1.13.4. Master Trainers

The Master Trainers comprised persons with postgraduate degrees and considerable experience in teaching and research. To assemble such persons, GSS wrote letters to the various universities to nominate persons to be considered for recruitment and training. A

total of 108 Master Trainers were recruited and trained. They were subsequently engaged to train the national trainers.

1.13.5. National Trainers

National trainers were also selected through recommendations from the universities in the country. A request was made by GSS to the universities, particularly, departments with social sciences orientation, to nominate officers to be recruited and trained. In all, 1,896 were recruited and trained and 915 were engaged to train the regional trainers.

1.13.6. Regional Trainers

The regional trainers were made up of persons who had obtained Masters or Bachelor's degrees and had experience in teaching or training. The regional trainers applied through the Enumerator Bureau Recruitment Portal (EBRP), an online portal that was developed by GSS. In all, 8,777 persons were recruited and trained and 5,688 were engaged to train the enumerators at the district level.

1.13.7. Enumerators and Supervisors

The enumerators constituted the last line of the mainstream field officers. Their selection was online-based through the EBRP. However, in areas where the lack of internet connectivity precluded prospective applicants from applying through the Bureau, District Census Officers (DCOs) with the DCICs provided an offline platform which was later input into the EBRP. A total of 206,358 applications were submitted via the EBRP out of which 75,050 were recruited and trained. After the training, 70,352 (59,152 enumerators and 11,200 supervisors) were selected and engaged.

1.13.8. Other Recruitments

GSS also recruited, trained and appointed additional personnel who played supervisory and administrative roles in the statistical districts. They comprised six zonal field coordinators (ZFCs), 32 regional field supervisors (RFS), 499 district field supervisors (DFS) and 272 district census officers (DCOs). Some of the ZFCs and RFS were staff at GSS HQ and regional statisticians. The rest comprised staff and non-staff who applied through EBRP, were screened, selected and appointed.

Other streams of officers were recruited, based on their expertise, to support the 2021 PHC. These were data quality monitors, IT officers, field technical officers and the census administrative officers who constituted the data quality management teams (DQMTs) at the district, regional and national (HQ). Generally, these teams provided data management support to the supervisors and enumerators on the field.

1.13.9. National Data Quality Management Team

At HQ, a national data quality management team (NDQMT) comprising two top-level staff were charged with the responsibility of recruiting, training and liaising with the

regional data quality management teams (RDQMTs) and district data quality management teams (DDQMTs).

1.13.10. RDQM and DDQM

The regional data quality monitors (RDQMs) and the district data quality monitors (DDQMs) were recruited through a two-staged online assessment. Potential monitors were expected to possess expertise in computer-based applications including Excel, STATA and CS PRO. In all, 37 RDQMs and 272 DDQMs were employed. Their task was to cross-check for inconsistencies with the aim of ensuring that data collected by the enumerators were of the desired quality. One data monitor was assigned to each statistical district office while at the regional level, five each were assigned to Ashanti, Eastern and Greater Accra regions; three to Central region; two each to Bono, Bono East, Northern, Upper East, Upper West, Volta and Western regions; and one each to Ahafo, North East, Oti, Savannah and Western North.

1.13.11. NIT, RIT and DIT

Other support streams were the information technology (IT) officers at the national (NIT), regional (RIT) and district (DIT) levels. The NIT officers developed the CAPI and resolved any errors which were observed in the application. A total of 34 RIT and 449 DIT officers were recruited and trained. These included one RIT officer assigned to each region and two DIT officers assigned to each district. The DIT officers addressed CAPI and tablet-related challenges at the district level. They referred unresolved challenges to the RIT. There were two DIT officers assigned to each district and one RIT officer assigned to each region.

1.14. Approach to Training

Three main modes of training were adopted at four levels. These were self-learning, virtual and face-to-face training modes. The first two modes were instituted in response to the restrictions that were introduced due to the emergence of the COVID-19 pandemic. The four levels were the training of master, national and regional trainers and finally supervisors and enumerators,

1.14.1. Self-learning

All the training materials such as the Field Officer's Manual, Trainer's Guide, presentation slides and other materials needed to train the applicants were uploaded onto the GSS website. As part of the training processes, applicants downloaded these materials and studied on their own. This was the first level of training that was used to train all the field officers. The chief trainers, master trainers, NDQM and NIT officers were only trained by the 'face-to-face' mode. Three weeks was used for the self-learning mode of training.

1.14.2. Virtual Training

The second stage after the self-learning was virtual training. GSS procured the Google Classroom and Zoom virtual platforms to train the applicants after the self-learning as the second level of training, and used it as the first level of selection of the national and regional trainers. A period of between nine and 15 days was used for this mode of training and selection. Assessments were conducted at the end of the training and trainees whose results were satisfactory were selected to participate in face-to-face training.

1.14.3. Face-to-Face Training

There were two slots of the face-to-face training. The first was the training of chief trainers, master trainers, NDQM and NIT which took place before the emergence of COVID-19. The second was the final level of training and selection of all other officers, and this was done after the COVID had reduced in intensity. This stage lasted for 10 days and included assessment and final selection. Qualified persons were selected for the specific positions for which they applied.

1.15. Listing of Structures

The structure listing entailed the counting of all structures in the country whether occupied or vacant, and this was conducted within two weeks prior to the Census Night. The first week was used for listing of the structures while the second week was used for mop-up. The structure listing involved three main steps. These were canvassing, assigning serial numbers to structures (chalking) and collecting information on the structure and households (listing).

1.15.1. Canvassing

Canvassing involved both enumerators and supervisors walking through their respective EAs and SAs to familiarise themselves with the areas they were assigned to work in. The exercise had two objectives. The first was to identify and interact with significant persons in the area. The second was for them to move within and around the EAs and communities and identify their boundaries, landmarks indicated on their maps, and the location of structures. During the canvassing, enumerators also planned how to use the serpentine approach for the listing of structures.

1.15.2. Structure Numbering (Chalking)

In this second stage, unique numbers composed of two parts were assigned to every structure in an EA. The first part, the 'stem' — 2021PHC/xxx/ — identified the Census and the EA where the structure is located, and the second, a four-digit serial number assigned consecutively within the EA. This was done to identify every structure for listing and enumeration so as to ensure complete coverage of all structures as well as the persons who dwell in the occupied ones. The numbering, also known as chalking, was done in the serpentine order, and arrows used to indicate the direction to the next numbered

structure. Enumerators wrote the serial numbers in conspicuous places which would be visible to other officers and household members, but would not be easily erased.

1.15.3. Listing

Listing of persons in occupied structures followed after the chalking. The exercise entailed the collection of basic information about a structure, its use and the occupants, based on the listing form.

1.16. Enumeration of Persons

The 2021 PHC collected data from different categories of groups of population in the country. All persons irrespective of their nationality were enumerated at the place where they spent the Census Night in the country. They were categorised into two: household and non-household/institutional populations. The household population comprised the persons in 'conventional' households as well as homeless households, and non-household population were categorised as stable and unstable institutional population (group quarters), floating population, persons who spent Census Night at hotels and guesthouses, and diplomats.

1.16.1. Enumeration of Persons in Households

The household population consisted of persons in conventional households and homeless persons. The categories of persons enumerated were usually members of and visitors to the household who spent the Census Night in the household, and workers who, by virtue of their work, were on duty on Census Night, such as security guards/watchmen, medical staff. The homeless population were those who slept on pavements and in make-shift structures. Due to the transient nature of their lives, those who were enumerated were given Certificate of Enumeration in order to avoid omissions and multiple counting.

1.16.2. Enumeration of Persons in Institutions

The institutional population [non-household], also known as group quarters, consisted of two broad categories: stable and unstable populations. The stable population included those in boarding schools and halls/hostels of residence at secondary and tertiary institutions, barracks, and religious communities, while the unstable population comprised persons who boarded at places such as prisons, correctional centres and health facilities. However, staff and their household members who resided in these institutions were enumerated as conventional household members.

Prior to the Census Night, field officers listed all locations of these categories of households and estimated their populations. The purpose was to plan for their enumeration to ensure that they were not omitted. The PHC 1B questionnaire and PHC 1C questionnaire were used to enumerate the stable and unstable populations,

respectively. In order to avoid omission or multiple counting, persons who were enumerated were given a Certificate of Enumeration.

1.16.3. Enumeration of Floating Population

Persons identified as “floating” were enumerated using the PHC 1D, on Census Night. Prior to the Census Night, field officers engaged with organisations, institutions, offices and communities that regulate these spaces and planned the enumeration processes. To avoid omissions and multiple counting, all the floating population enumerated were issued with a Certificate of Enumeration. The floating population include those who on Census Night, slept at lorry parks, markets, filling stations, railway stations, in front of stores and offices, on verandas, pavements, as well as those at seaports, airports, oil rigs, border posts and those who engaged in fishing and hunting and, therefore, could not spend the Census Night in their respective homes.

1.16.4. Enumeration of Persons in Hotels and Guest Houses

Persons who spent the Census Night in hotels and guest houses were enumerated with PHC 1E. Copies of the instrument were printed and deposited with the managers or receptionists of the hotels and guest houses to be filled by these occupants.

1.16.5. Enumeration of Diplomats

Diplomats (officials who represent their respective countries abroad or representatives of international organisations designated as such) were enumerated with PHC 1F. The instrument was printed and submitted to their offices through the Ministry of Foreign Affairs and Regional Integration.

1.17. Data Transmission and Storage

The transmission and storage of data was as important as their production. Dual approaches — horizontal and vertical — were developed for transmission and storage. During the fieldwork, every enumerator transmitted the data collected to their respective supervisors via Bluetooth daily (horizontal approach).

The vertical approach involved the transmission of data onto a GSS central server at the Secretariat. Enumerators, after transmitting the data to the supervisors via Bluetooth, also transmitted the data via the internet to the central server at the GSS Headquarters daily. Supervisors then in turn transmitted the data received from their enumerators via the internet to the central server at GSS Secretariat also on a daily basis. These approaches provided back-up data.

1.18. Data Quality Management

The use of CAPI and tablets was the first data quality control mechanism which allowed for data monitoring during the data collection exercise. To enhance the quality of data

from the field, GSS instituted data quality management teams (DQMTs) at the national, regional and district levels to assess the quality of data in near real time.

The DDQMT monitored all the data errors, inconsistencies, missing data and duplicates, and drew the attention of the supervisors to any anomalies found, for further investigation and correction. The DDQMT also undertook spot checks and validation exercises to assure complete and quality data. In addition, there was always one DIT on the field to address IT concerns. The rover system was developed and utilised whereby a DIT met enumerators daily to address their concerns.

At the regional level, the RDQMT resolved all the data-related issues referred to it by the DDQMT. Similarly, at the national level, data-related issues that were escalated by the RDQMT were addressed by the NDQMT.

1.19. Quality Assurance, Monitoring and Evaluation

Quality assurance, monitoring and evaluation were integrated into every aspect of the 2021 PHC. The team for this workstream ensured that all the plans relating to the 2021 PHC were implemented, monitored and evaluated in order to achieve complete coverage and generate quality data. To ensure effective monitoring and evaluation each member of the team was assigned to two work streams as a substantive officer and a support officer to facilitate experience sharing and effective coordination. The team was guided by best practices from the previous PHCs, Ghana Census of Agriculture (GCA), Household-Based Sample Surveys and the Building Footprints from satellite imagery.

Throughout the census processes, all the work plans of the various work streams were reviewed to ensure that they also conform to the schedule. To facilitate information flow during the Census quality assurance and monitoring and valuation, a reporting system was instituted. Firstly, a weekly report was sent to the Census Coordinating Team (CCT) which was part of the weekly meetings of the Monitoring and Evaluation Team. Secondly, a monthly report was also submitted to the CCT. Lastly, quarterly assessment report was also developed and shared with the CCT.

During the preparatory stage, the quality assurance and monitoring and evaluating team sampled all the logistics and materials that were procured to assess the validity and their conformity to specifications. During field data collection, a Call Centre served to daily address concerns from the public to ensure complete coverage. In addition, a profiling framework was developed and used regularly to assess the risk levels of districts, SAs, EAs and localities. This also ensured that both the field officers and the logistics were safe and secured. It also facilitated logistical and security needs and helped in addressing them.

Furthermore, 112 monitors, comprising 95 national monitors and 17 international monitors were deployed to monitor and evaluate the activities of the field officers during the Census. A situation room was set up where data were collated and posted onto a

dashboard, and constantly monitored and verified. When necessary, queries were generated and sent to the field for validation and correction.

Following the main enumeration, a Post Enumeration Survey (PES) was conducted to further evaluate the validity and reliability of the data collected during the Census. Similar to the Census, all aspects of the PES were monitored and evaluated for quality assurance purposes. National monitors were also deployed to the field for on-site monitoring.

1.20. Partnership and Collaboration

Census implementation requires partnerships. Therefore, the activities of the 2021 PHC were implemented in collaboration with both local and international partners and stakeholders. The partners and stakeholders supported in diverse ways. Notably, the local partners and stakeholders included the tertiary institutions across the country, telecommunication companies (Telcos), Jospong Group of companies, Metropolitan/Municipal/District Assemblies (MMDAs), Ministries, Departments and Agencies (MDAs), Ghana Education Service (GES)/Ministry of Education, Ghana Health Service/Ministry of Health, Electoral Commission, religious bodies, schools and communities, security agencies and the media.

1.20.1. Local Partners and Collaborators

1.20.1.1. Tertiary institutions

The public universities across the country supported various stages of the implementation of 2021 PHC by permitting some of their academic staff to be engaged in the Census operations. The institutions also provided lecture rooms and accommodation spaces at subsidised rates for the training of census personnel.

1.20.1.2. Telecommunication companies

Three telecommunication companies (Telcos) – MTN, Vodafone and AirtelTigo – collaborated with GSS and provided an Access Point Name (APN) to enable access to internet services. They also supplied SIM cards and data to GSS at discounted cost. In addition, the three Telcos offered free SMS blasts to aid the publicity activities and MTN offered free call back ring tones

1.20.1.3. Jospong Group of Companies

The Jospong Group of Companies provided vehicles that transported logistics from the Headquarters of GSS to the statistical districts across the country. The Group, through Zoomlion, its waste management consortium, also fumigated all the training centres periodically and provided cleaning services at these centres. In addition, Zoomlion supplied personal protective equipment (PPEs) such as face masks and alcohol-based hand sanitizers to support the Census. The Group also assisted with printing of some of the training materials. These services and supplies were provided at no cost to GSS.

1.20.1.4. IPMC Ghana

IPMC Ghana supported the uploading of all the Census content materials to the 75,000 tablets. The support covered sharing of technical knowledge on how to upload the Census materials with minimal human involvement and the provision of servers with the aim of shortening the duration for the exercise without compromising accuracy.

1.20.1.5. Metropolitan/Municipal/District Assemblies

The MMDAs were key partners to the 2021 PHC. They constituted the District Census Implementation Committee which oversaw the recruitment of field officers and the implementation of the 2021 PHC. The MMDAs also created awareness, sensitised and educated the population in the various localities about the 2021 PHC with the use of mobile education vans and through the assembly members; and provided vehicles, and office and storage spaces for use in the regions and districts during the Census.

1.20.1.6. Ministries, Departments and Agencies

The MDAs played diverse collaborative roles to support the implementation of the 2021 PHC. Specifically, the Ministry of Information through the Information Service Departments at the various districts, the National Commission for Civic Education (NCCE) and other related ministries and departments partnered with GSS to provide publicity, education and advocacy for the Census.

1.20.1.7. Ghana Education Service

The Ghana Education Service (GES) supported the Census at two levels. Firstly, the GES revised the school calendar to accommodate the 2021 PHC training calendar. This was to allow for the training of Census personnel at the premises of selected basic and senior high schools across the country. Secondly, the GES through the schools provided the needed spaces, water, electricity and other logistics such as projectors and furniture for the training of the field officers at no cost to GSS.

1.20.1.8. Ghana Health Service

Through its Metropolitan/Municipal/District Directorates, the Ghana Health Service vaccinated the field officers against COVID-19 prior to the fieldwork.

1.20.1.9. Electoral Commission and West African Examination Council

As partners, the Electoral Commission (EC) and the West African Examination Council (WAEC) supported the Census with vehicles for transportation of materials, logistics and personnel. The EC also made available a number of office spaces at the district level for the 2021 PHC administrative work.

1.20.1.10. Religious bodies and traditional leaders

The churches and mosques in the country collaborated by using the pulpit and minbar respectively, for publicity, education and advocacy before and during the Census. The traditional leaders in all the communities also provided support by using existing local platforms and communication channels for the same purpose. In addition, they assisted the field officers to determine locality boundaries and to canvas difficult to reach communities.

1.20.1.11. Security agencies

The Police, Military and the Fire Service played various roles before, during and after the Census. The Police provided the needed security for the personnel, logistics and materials especially at difficult to reach communities. The Military supported with publicity and advocacy particularly within the security restricted zones, and also provided access to field officers to educate and enumerate persons in such communities. The Fire Service provided the use of the fire tenders for Census Night activities.

1.20.1.12. GCB Bank and Cal Bank

GCB Bank provided an electronic platform that was used for the payment of funds while Cal Bank provided financial assistance to support the printing of some of the training materials.

1.20.1.13. Windy Lodge Hotel

The Windy Lodge Hotel offered financial assistance for the printing of some of the training materials, particularly the Field Officer's Manual and the questionnaires.

1.20.1.14. The media

Every aspect of the 2021 PHC was made known to the general public via the print and electronic media (including social media). Several media channels partnered and collaborated with GSS to create awareness, inform and educate the public widely about the 2021 PHC activities before, during and after the field exercises. They also supported the dissemination of the reports.

1.20.2. International Partners and Collaborators

The Development Partners touted the formulation of a Census Donor's Forum. However, the COVID-19 protocols and restrictions militated against its implementation. Consequently, the following partners bilaterally supported the Census process in various ways:

1.20.2.1. UNFPA

UNFPA is the leading partner in the implementation of PHCs globally and has continued to play a key role in the conduct of Ghana 2021 PHC. Principally, UNFPA deployed a Chief Technical Advisor (CTA) to provide responsive technical assistance and oversight and ensure that every phase of the process is implemented in accordance with the United Nations Principles and Recommendations for the 2020 Round of the World PHCs programme as well as international best practices. UNFPA also provided additional support related to logistics for procurement of some of the tablets, staff capacity building, provision of GIS software and implementation of independent monitoring of the Census.

1.20.2.2. UNECA

UNECA provided technical assistance and staff capacity building in GIS applications, provisioning of the tablets and development and deployment of the enumeration tracking dashboard and Census Activity Tracker.

1.20.2.3. World Bank

The World Bank provided technical assistance and staff training on GIS applications and access to geospatial resources including satellite imagery partially used for the production of EA maps.

1.20.2.4. US Census Bureau

The US Census Bureau supported by providing the needed technical assistance and training on the CAPI development and deployment.

1.20.2.5. ONS-UK/UKAID

UKAID, through ONS, provided strategic support, including the formulation of the Census Business Continuity Plan (BCP) in response to the COVID-19 pandemic and review of various strategic documents. They also supported staff capacity building and compilation of the Preliminary and General Census reports.

1.20.2.6. IOM

IOM supported the production of thematic reports.

1.20.2.7. Statistics Denmark

Statistics Denmark trained staff to develop a statistical data bank where customised data could be generated and analysed.

1.20.2.8. Geo-referenced Infrastructure and Demographic Data for Development (GRID³)

GRID³ supported capacity development in GIS applications and provided technical assistance in the development of various tools for processing geospatial data and creation of hard-to-count (HTC) indices.

2. VOLUME 3H: BACKGROUND INFORMATION

Information on fertility and mortality trends and patterns predict future population dynamics and their implications on demographic, social and economic activities as well as environmental sustainability. Complete and accurate data on births and deaths are, therefore, required to generate relevant fertility and mortality indicators necessary to inform the effective implementation of population and development programmes and related decision making. These indicators are important for determining the provision of physical infrastructural and social services such as housing, education and health facilities.

The Ghana National Population Policy (revised edition, 2017) aims at reducing fertility rate from 4.2 children per woman in 2014 to 3.5 by 2024, and 3.0 by 2034. Evidence from Ghana Demographic and Health Surveys and Ghana Maternal Health Surveys indicate that the fertility rate has declined over the years, from 6.4 in 1988 to 4.2 in 2014.

The population policy further seeks to reduce maternal mortality ratio from 380 per 100,000 live births in 2014 to 100 per 100,000 live births in 2024, and 50 per 100,000 live births by 2034, and to decrease under-five mortality rate from 60 deaths per 1,000 live births in 2014 to 40 deaths per 1000 live births by 2024 and 10 deaths per 1,000 live births by 2034. Available evidence shows that maternal mortality ratio has declined from 380 in 2014 to 310 in 2017, and under-five mortality rate from 155 per 1,000 live births in 1998, to 52 per 1,000 live births in 2017. More recent data are required to monitor progress towards the realisation of these targets and goals.

Against this background, the 2021 PHC provides relevant data for updating fertility and mortality indicators. Specifically, the Census elicited information on the total number of male and female children born alive to women 12 years and older, and their survival status as at Census Night (27th June, 2021). Information on the last live births of women aged 12-54 years and the age of the mother at birth of her first child born alive was also collected.

The fertility questions were asked about all the biological children born alive (excluding still births and children of other relatives) to the women regardless of the age and marital status of the child and whether the child was alive or had since died as at the Census Night; and whether the child was born in or out of marriage/wedlock, or in the present or previous marriage; or lives with the mother in the same household or elsewhere.

Households also reported on deaths of members that occurred during the twelve months preceding the Census Night. The cause of death (from both natural and non-natural causes) was also recorded. Additional questions were asked about deceased females aged 12-54 years to determine whether the timing of death was related to pregnancy or maternal cause. These data are used to estimate the current levels and patterns of mortality in the country, as portrayed by the crude death rate (number of deaths per 1000 population in a given year), age-sex specific death rates (proportion of deaths at a particular age by sex), maternal mortality ratio (maternal deaths per 100,000 live births)

and life expectancy (average number of years one is expected to live at the prevailing mortality conditions).

This report presents information on key indicators derived from the 2021 PHC modules on fertility and mortality, namely: children ever born to women aged 15-49 years; proportion of children ever born and are surviving to women aged 15-49 years; deaths of household members in the 12 months preceding Census Night; cause of death; and pregnancy-related deaths at national, regional and urban-rural levels. It is based on responses obtained from persons in households, as defined under Section 1.10.2.

The next sections deal with the definition of concepts, highlights of findings with charts and detailed results presented in tables.

3. DEFINITION OF CONCEPTS

This section defines concepts and terms used in the report to guide interpretation of the data.

3.1. Live Birth

Live birth refers to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy, that, after such expulsion or extraction, showed any sign of life such as crying, breathing, beating of the heart, voluntary movement of muscles and pulsation of the umbilical cord.

3.2. Children Ever Born

Children ever born refers to the total number of children born alive to a woman aged 12 years or older during her lifetime, irrespective of their current age. It includes children who have died since birth, but excludes stillborns, abortions or children adopted by the person.

3.3. Mean Children Ever Born

This refers to the average number of children ever born per women in the population. It is obtained by dividing the total number of children ever born to women in a specified age group (in this report, 15-49 years) by the number of women in that age group.

3.4. Children Surviving

This refers to children who were born alive and were still living as at the Census Night. These children may be living with the mother or may be living elsewhere.

3.5. Proportion of Children Surviving

It refers to the share of children surviving out of the number of children ever born to women in a specified age group (in this report, 15-49 years). It is obtained by dividing the total number of children surviving by the number of children ever born to women in a specified age group.

3.6. Age at First Birth

This refers to the age of the mother in completed years at the time of the birth of her first child/children born alive.

3.7. Median Age at First Birth

It is the age below which half of the women of reproductive age give birth for the first time and the other half above.

3.8. Household Death

It refers to the death of a household member during the 12-month period preceding the Census Night, which is the reference period (28th June 2020 to 27th June 2021), irrespective of the place of occurrence.

3.9. Pregnancy-related Death

The death of a woman during the reference period while pregnant or within 42 days of termination of pregnancy, irrespective of the cause of death.

3.10. Maternal-related Death

The death of a woman during the reference period while pregnant or within 42 days of termination of pregnancy Irrespective of the duration and site of the pregnancy, from any causes related to or aggravated by the pregnancy or its management but not from accidental or incidental causes.

3.11. Death due to Accident

This refers to death that occurred unexpectedly and unintentionally as a result of harm or injury to an individual due to motor crash, animal attack, drowning, collapse of building, fire, taking of wrong medication, intoxication, and others.

3.12. Death due to Violence

This refers to death resulting from behaviours involving physical force intended to hurt, damage, or kill, such as armed robbery, conflict and/or war, terrorist attacks, street fighting or riot.

3.13. Death due to Homicide

This refers to death resulting from the killing of a person by another.

3.14. Death due to Suicide

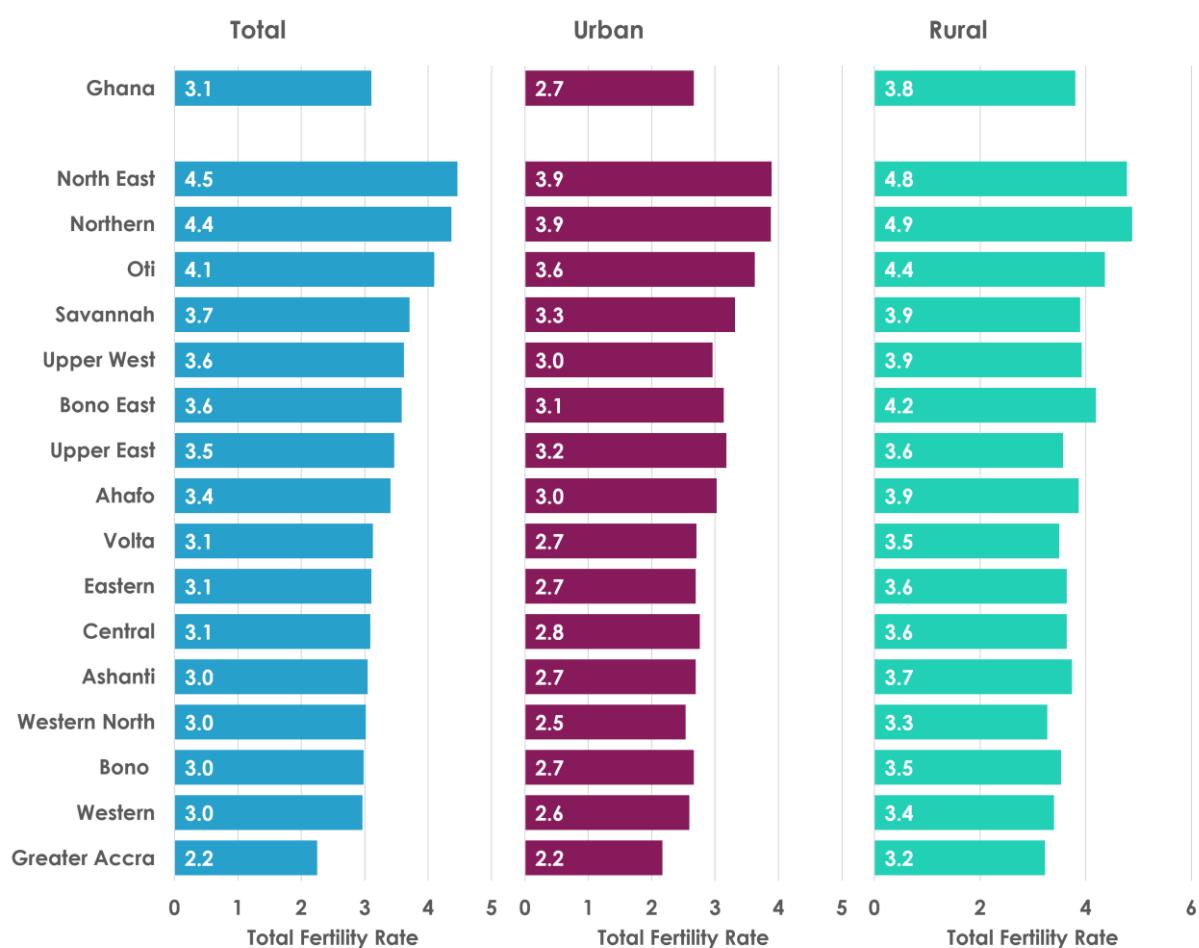
This refers to death resulting from the intentional taking of one's own life.

4. HIGHLIGHTS OF RESULTS

Total Fertility Rate [which is the average number of children that would be born to a woman by the end of her reproductive lifespan (15-49 years)] is 3.1. The rate is higher in rural (3.8) than urban (2.7) areas.

Three regions have Total Fertility Rate (TFR) of more than 4.0 (North East, 4.5; Northern, 4.4; Oti, 4.1); Greater Accra has the lowest (2.2), and is the only region with a TFR of less than 3.0.

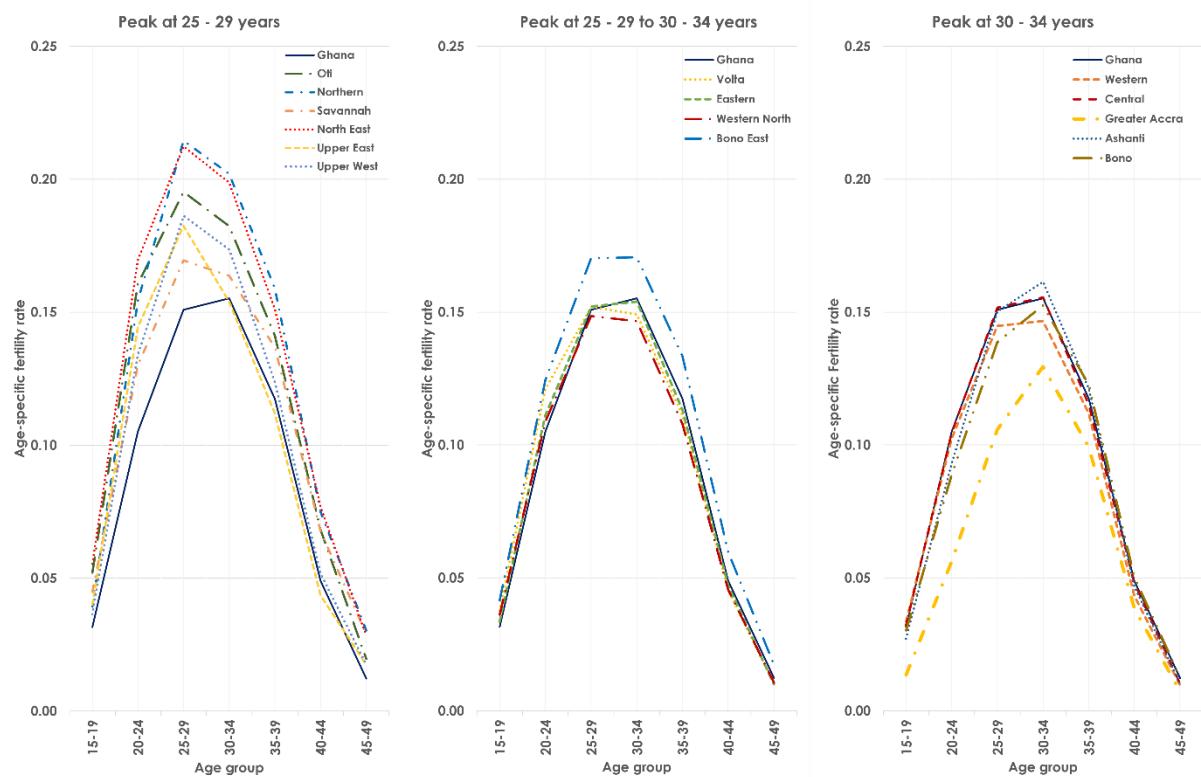
FIGURE 4.1: TOTAL FERTILITY RATE BY TYPE OF LOCALITY AND REGION



Age-specific Fertility Rate (which is the ratio between the number of live births in a year and the female population in a particular age group) peaks at three different age groups (25-29, 25-29 to 30-34 and 30-34 years) with the peak for 25-29 years age group being the highest.

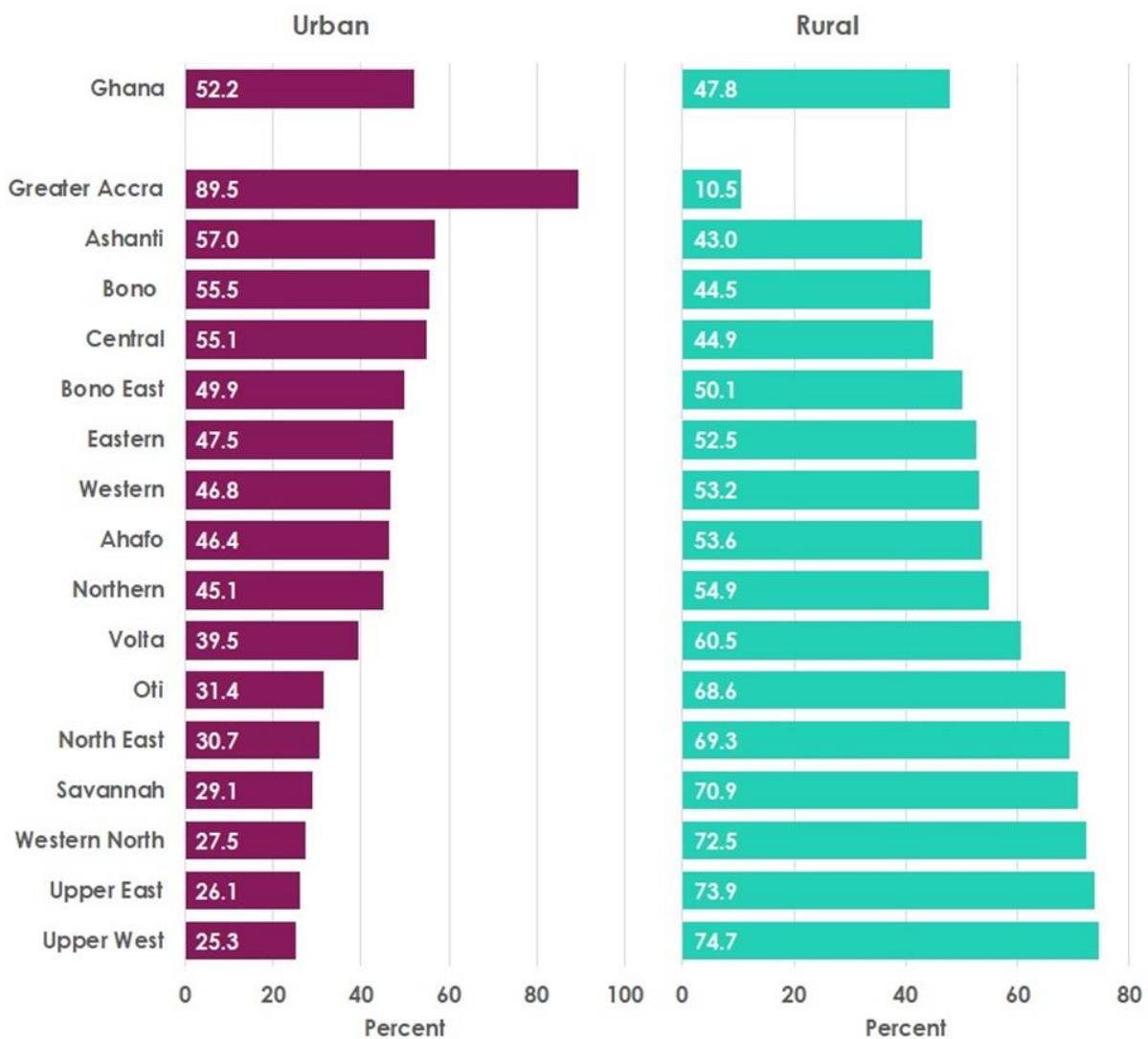
In most regions, the age-specific Fertility Rate peaks at 25-29 years except in Greater Accra, Ashanti, Bono and Ahafo regions where it peaks at age 30-34 years, and in four other regions (Bono East, Eastern, Volta and Western North) that a peak from ages 25-29 to 30-34).

FIGURE 4.2: AGE-SPECIFIC FERTILITY RATE BY REGION



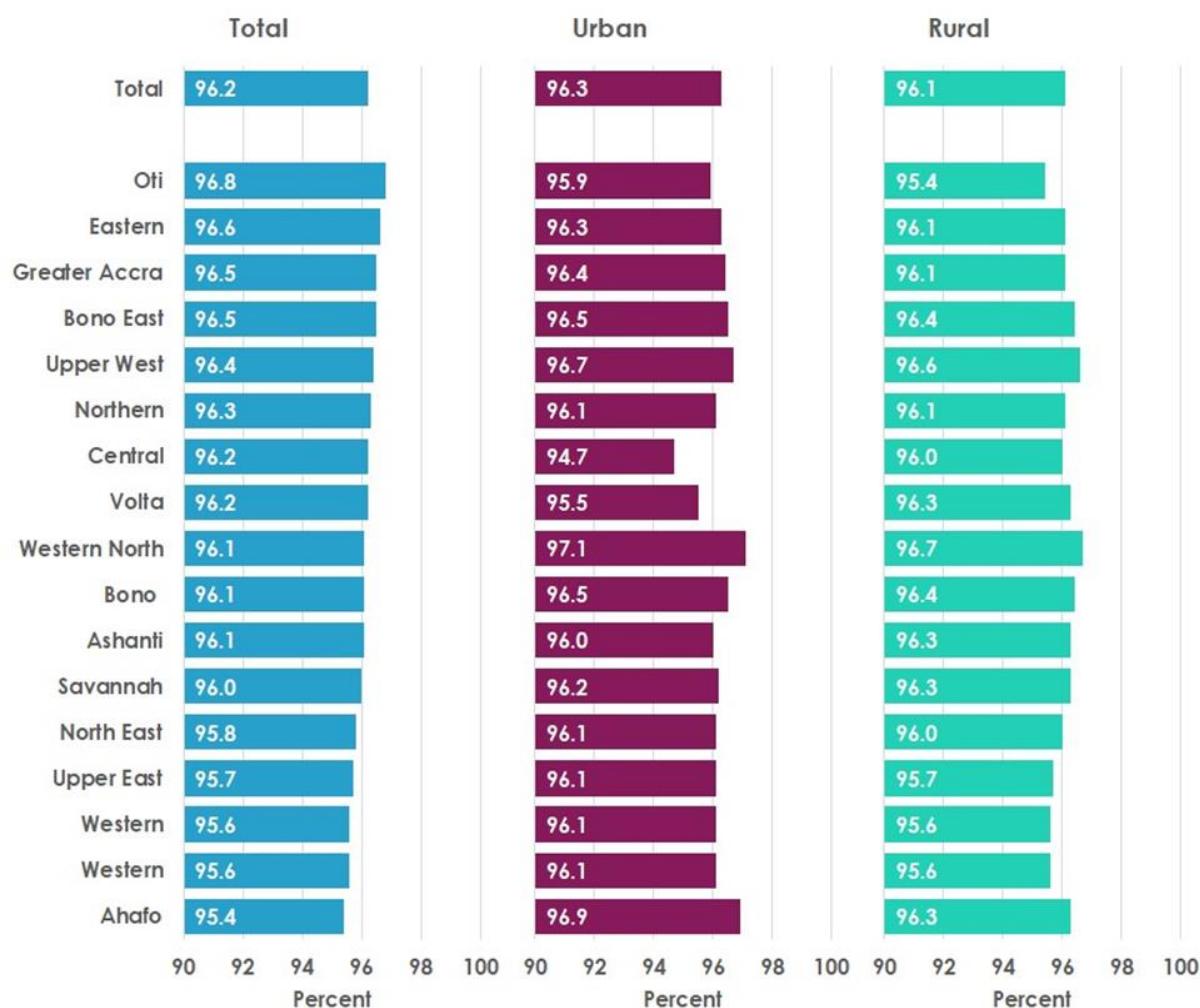
In total, 772,617 children were born in the 12 months preceding the Census Night; 403,367 (52.2%) in urban and 369,250 (47.8%) in rural areas.

FIGURE 4.3: SHARE OF URBAN-RURAL BIRTHS IN THE 12 MONTHS PRECEDING THE CENSUS NIGHT BY REGION



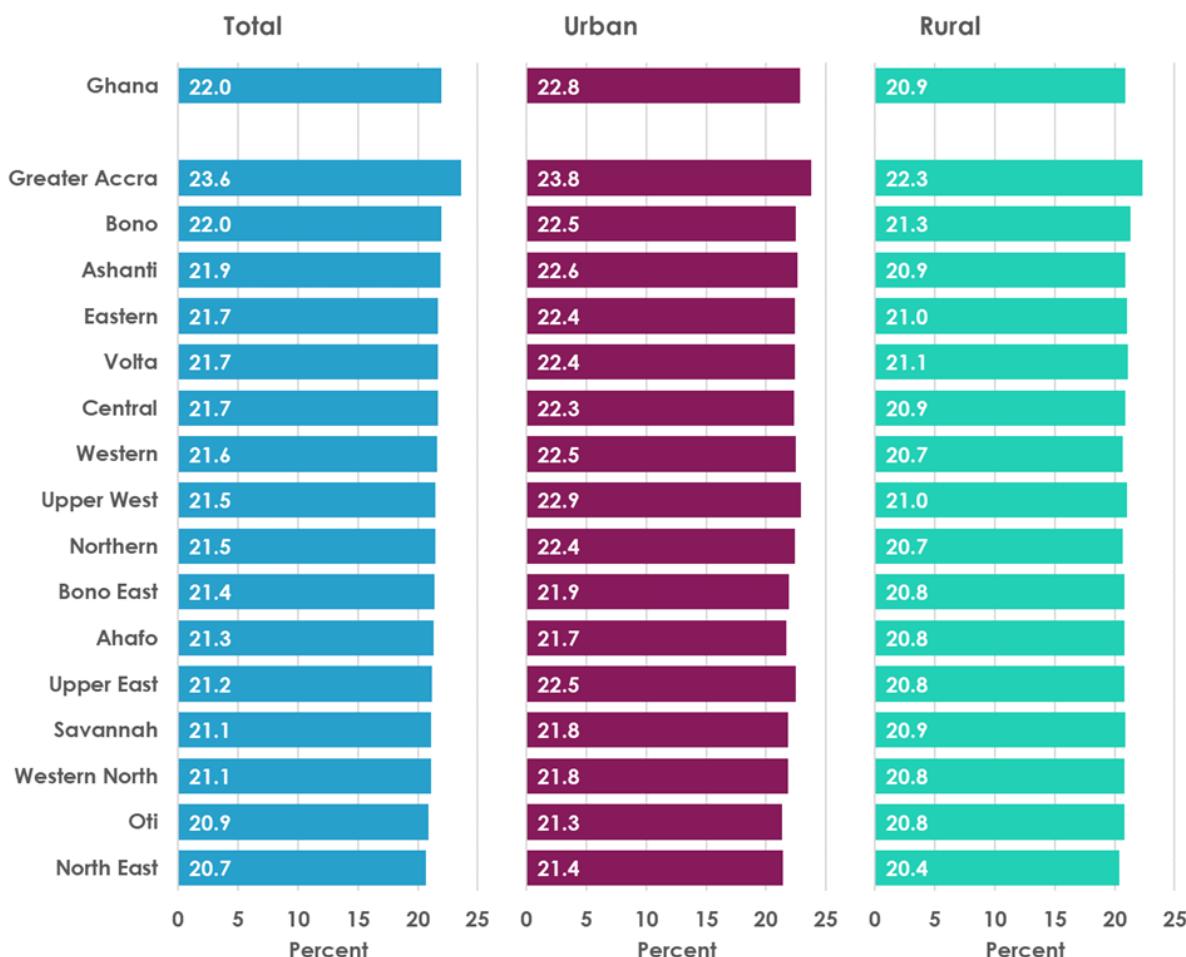
More than nine out of every 10 (96.2%) children born within the reference period (28th June 2020 to 27th June 2021) to women aged 15-49 years survived to the Census Night.

FIGURE 4.4: PROPORTION OF SURVIVING CHILDREN AMONG BIRTHS TO WOMEN AGED 15-49 YEARS 12 MONTHS PRECEDING THE CENSUS NIGHT BY TYPE OF LOCALITY AND REGION



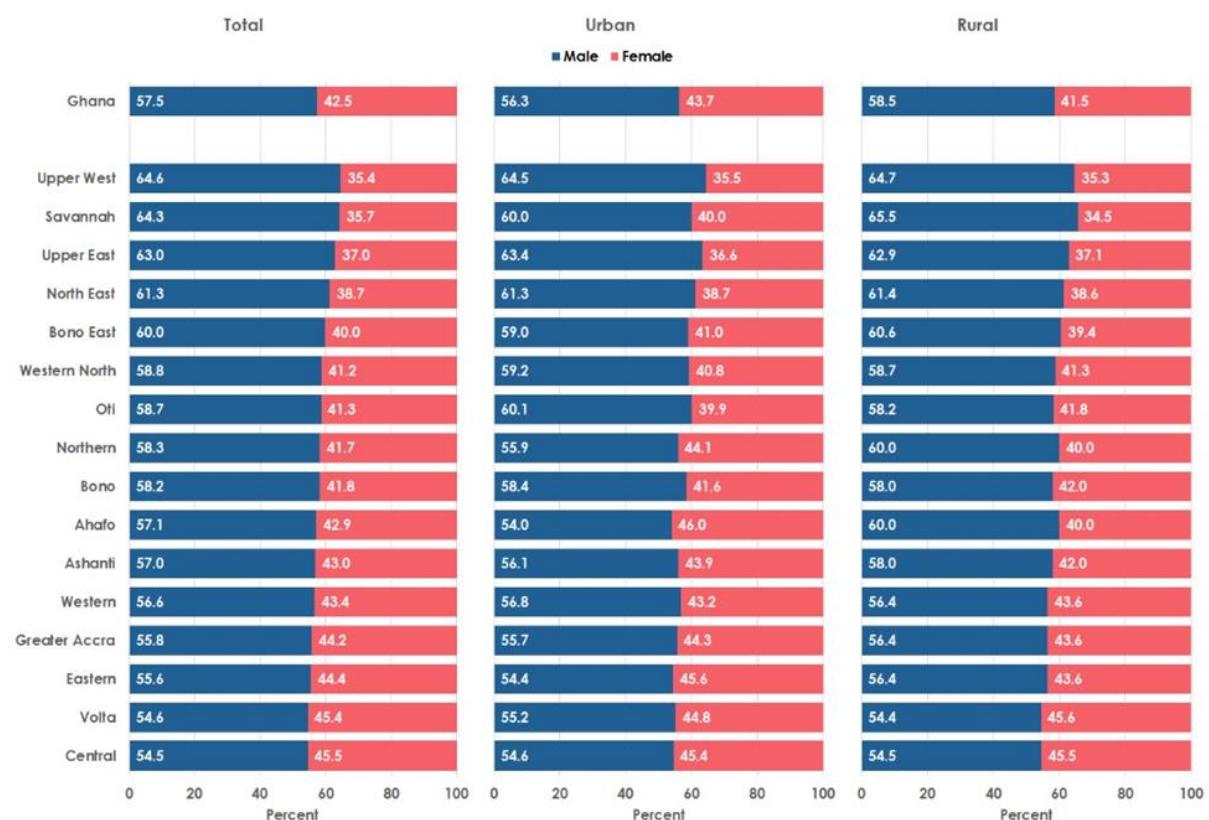
Women aged 45-49 years had their first child around 22 years; women in rural areas give birth at a younger age (21 years) than their urban counterparts (23 years). In Greater Accra Region (23.6 years), women give birth for the first time about 3 years later than those in North East Region (20.7 years).

FIGURE 4.5: AGE AT FIRST BIRTH OF WOMEN AGED 45-49 YEARS BY TYPE OF LOCALITY AND REGION



Of the total 132,199 household deaths occurring 12 months preceding the Census Night, more than half are males (76,067; 57.5%) compared with females (56,132; 42.5%), and the proportion of males in rural (58.5%) is higher than in urban (56.3%) areas. The share of males ranges from 54.5 (Central Region) to 64.6 percent (Upper West Region).

FIGURE 4.6: MALE-FEMALE SHARE OF HOUSEHOLD DEATHS OCCURRING 12 MONTHS PRECEDING THE CENSUS NIGHT BY TYPE OF LOCALITY AND REGION



Proportion of household deaths occurring 12 months preceding the Census Night is higher in rural (56.4%) than urban (43.6%) areas, and similarly among males and females. The proportion of household deaths in urban areas is more than 50 percent in three regions (Greater Accra, 88.2%; Bono, 52.7%; and Ashanti, 52.5%) and this is similar for males for females there are four regions including Ahafo Region.

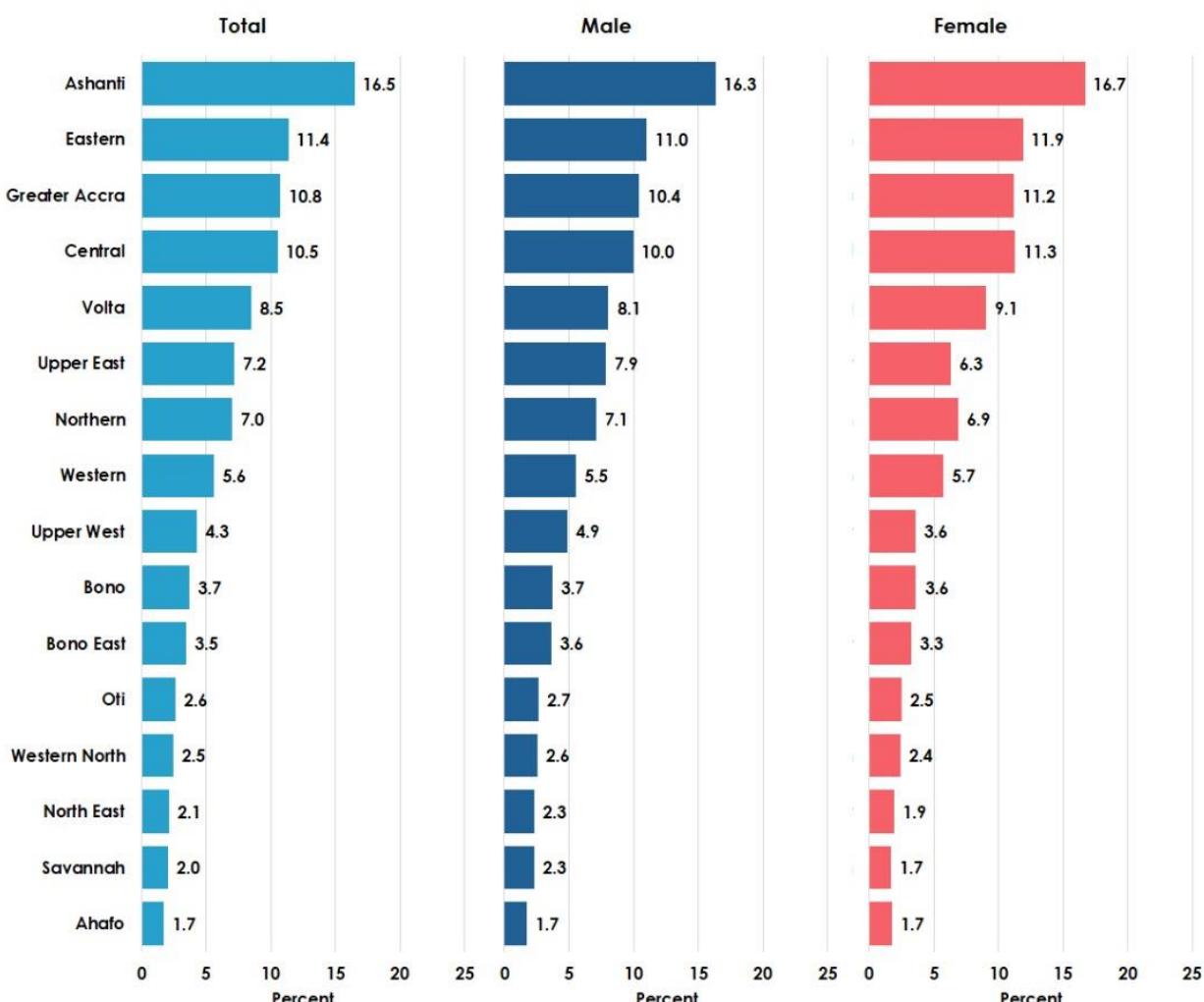
FIGURE 4.7: SHARE OF URBAN-RURAL HOUSEHOLD DEATHS OCCURRING 12 MONTHS PRECEDING THE CENSUS NIGHT BY SEX AND REGION

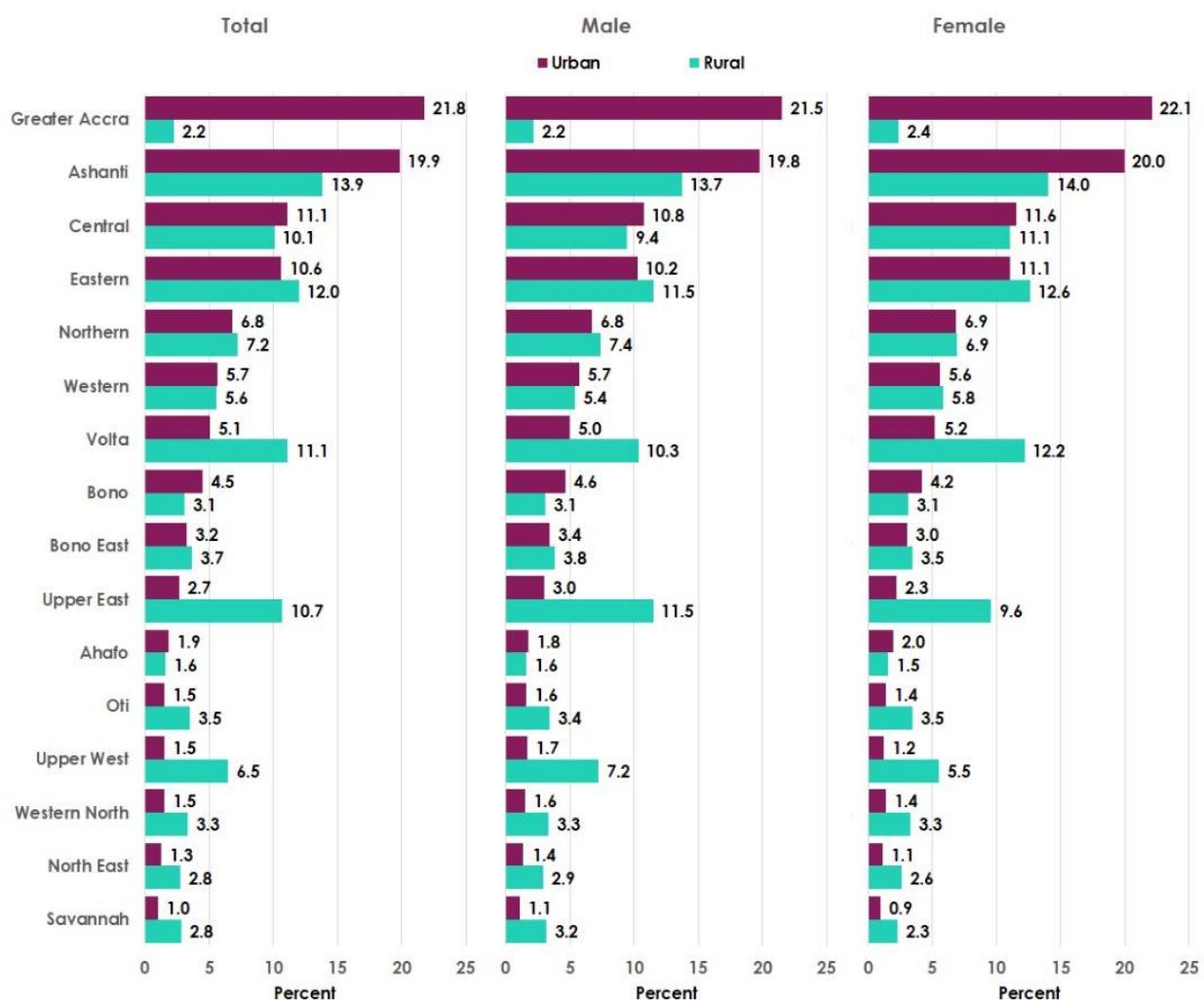


In urban areas, four regions (Central, Greater Accra, Volta and Eastern) contribute more than 60 percent of household deaths during the reference period while in rural areas five regions contribute about 60 percent.

In urban areas Greater Accra Region (21.8%) recorded the highest proportion of household deaths during the 12 months preceding the Census Night while Savannah Region (1.0%) the lowest. In contrast, in rural areas Ashanti Region (13.9%) recorded the highest proportion and Greater Accra Region (2.2%) the lowest.

FIGURE 4.8: SHARE OF REGION IN HOUSEHOLD DEATHS OCCURRING 12 MONTHS PRECEDING THE CENSUS NIGHT BY SEX, TYPE OF LOCALITY AND REGION

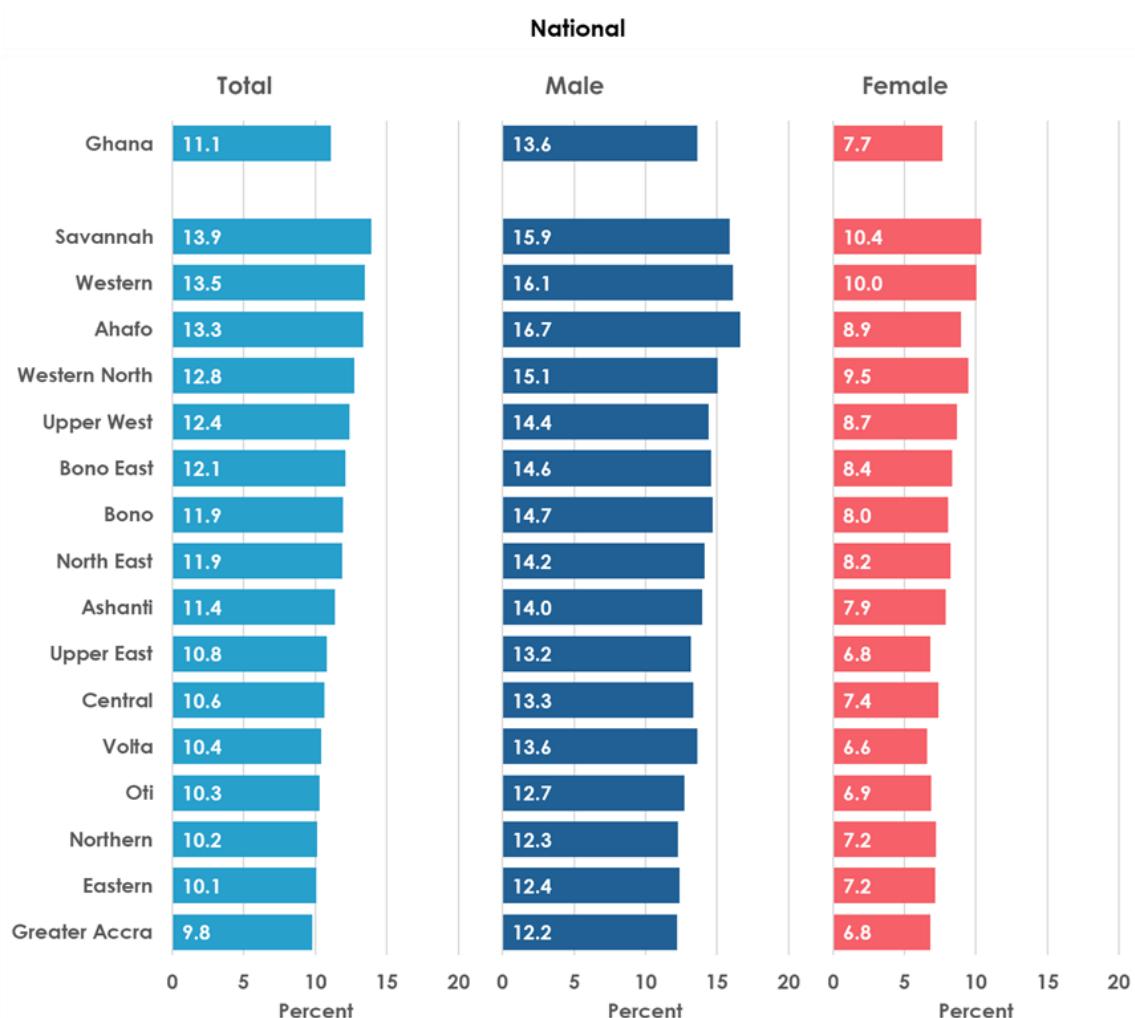




Out of 132,199 household deaths occurring 12 months preceding the Census Night, 14,656 (11.1%) comprised deaths due to accident, violence, homicide and suicide, the proportion for males (13.6%) is almost twice as high as that of females (7.7%).

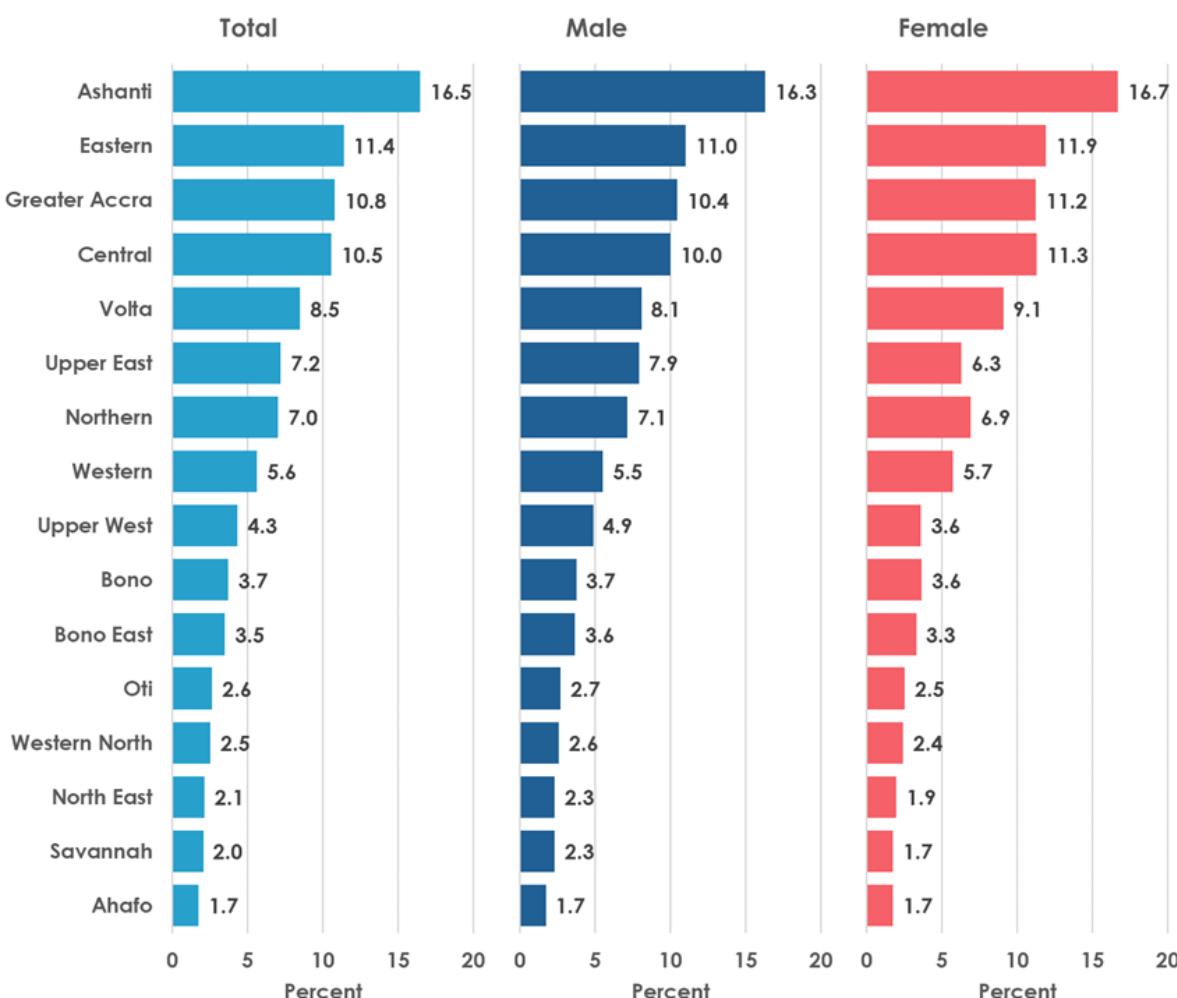
In all regions, proportion of household deaths in the reference period due to accident, violence, homicide and suicide, is more than 10 percent except in Greater Accra Region (9.8%). For males, the proportion exceeds 12 percent in all regions while the highest for females is 10.4 percent (Savannah Region) and the lowest 6.6 percent (Volta Region).

FIGURE 4.9: PROPORTION OF HOUSEHOLD DEATHS DUE TO ACCIDENT, VIOLENCE, HOMICIDE AND SUICIDE, AND OCCURRING 12 MONTHS PRECEDING THE CENSUS NIGHT BY SEX AND REGION



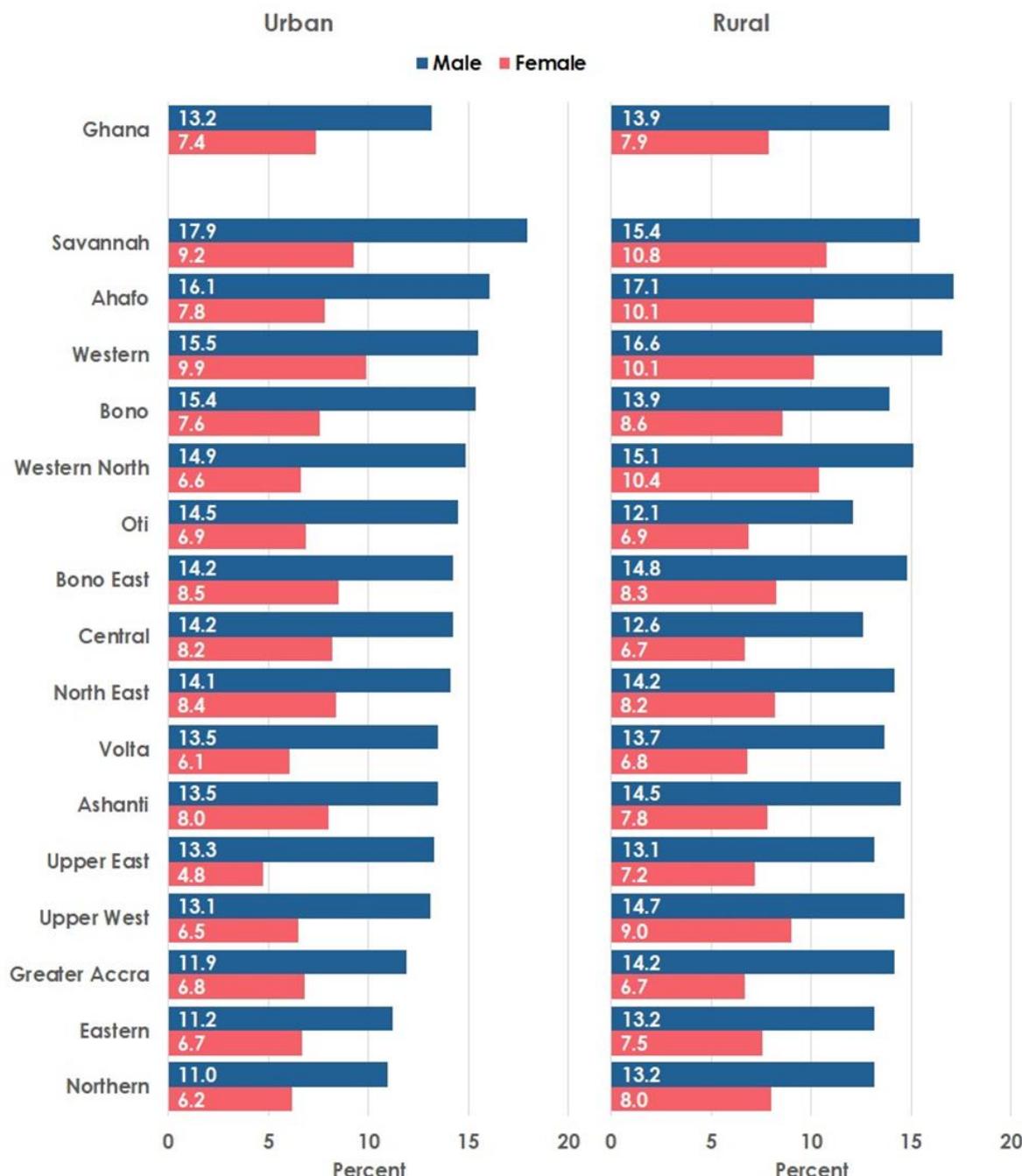
About half of all household deaths occurring 12 months preceding the Census Night are recorded in four regions (Ashanti, 16.5%; Eastern, 11.4%; Greater Accra, 10.8%; and Central, 10.5%).

FIGURE 4.10: SHARE OF REGION IN HOUSEHOLD DEATHS DUE TO ACCIDENT, VIOLENCE, HOMICIDE AND SUICIDE, AND OCCURRING 12 MONTHS PRECEDING THE CENSUS NIGHT BY SEX AND REGION



In all regions and in both urban and rural areas, proportion of deaths due to accident, violence, homicide and suicide occurring 12 months preceding the Census Night for males is more than that of females.

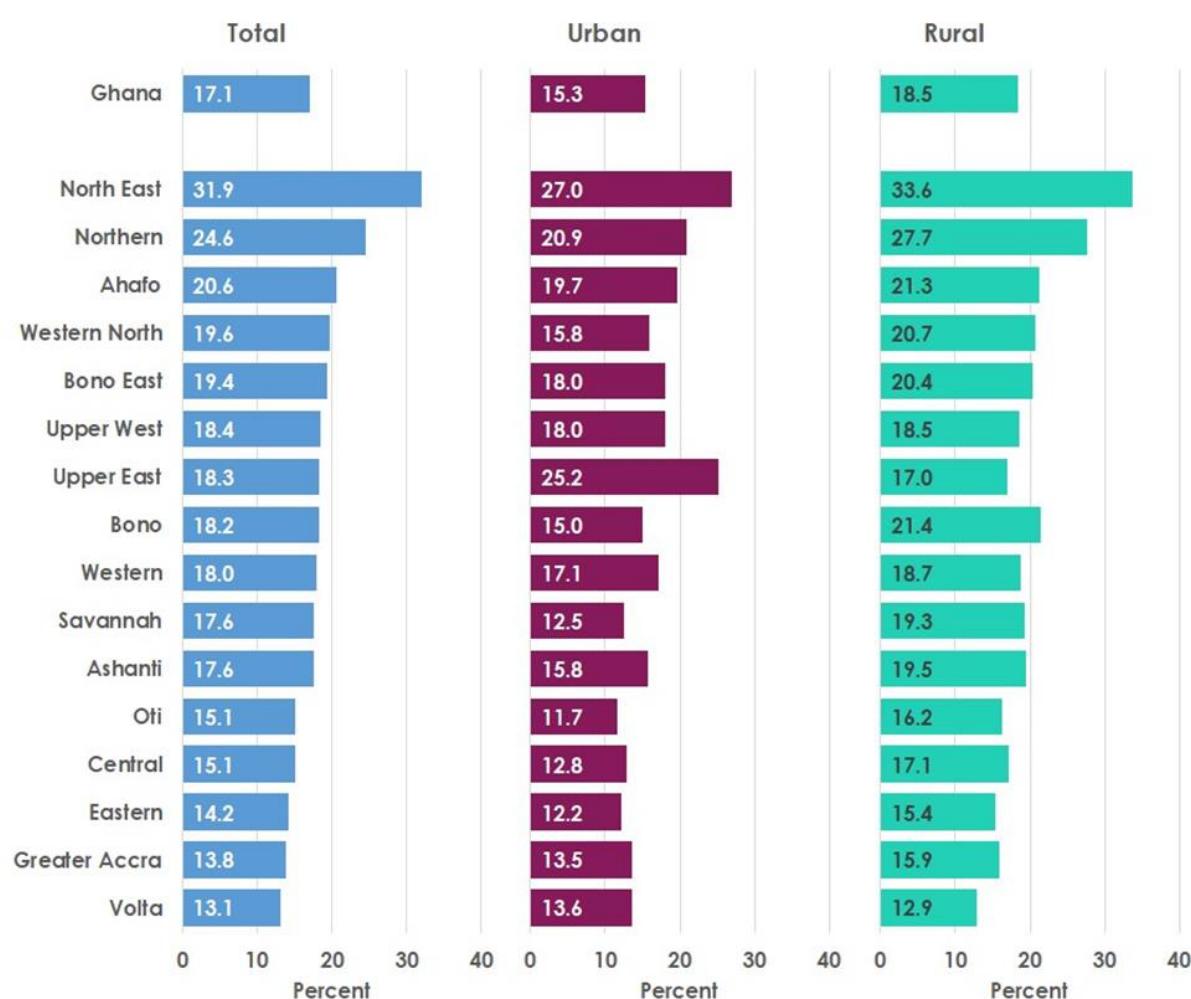
FIGURE 4.11: PROPORTION OF HOUSEHOLD DEATHS DUE TO ACCIDENT, VIOLENCE, HOMICIDE AND SUICIDE, AND OCCURRING 12 MONTHS PRECEDING THE CENSUS NIGHT BY SEX, TYPE OF LOCALITY AND REGION



Number of household deaths of females during the 12 months preceding the Census Night is 16,135, out of which 2,754 (17.1%) is pregnancy-related; the proportion is higher in rural (18.5%) than in urban (15.3%) areas.

North East Region (31.9%) recorded the highest proportion of household deaths occurring 12 months preceding the Census Night that are pregnancy-related, and the lowest was recorded in Volta Region (13.1%). Among the regions, the proportions are higher for urban than rural areas except in Upper East and Volta regions.

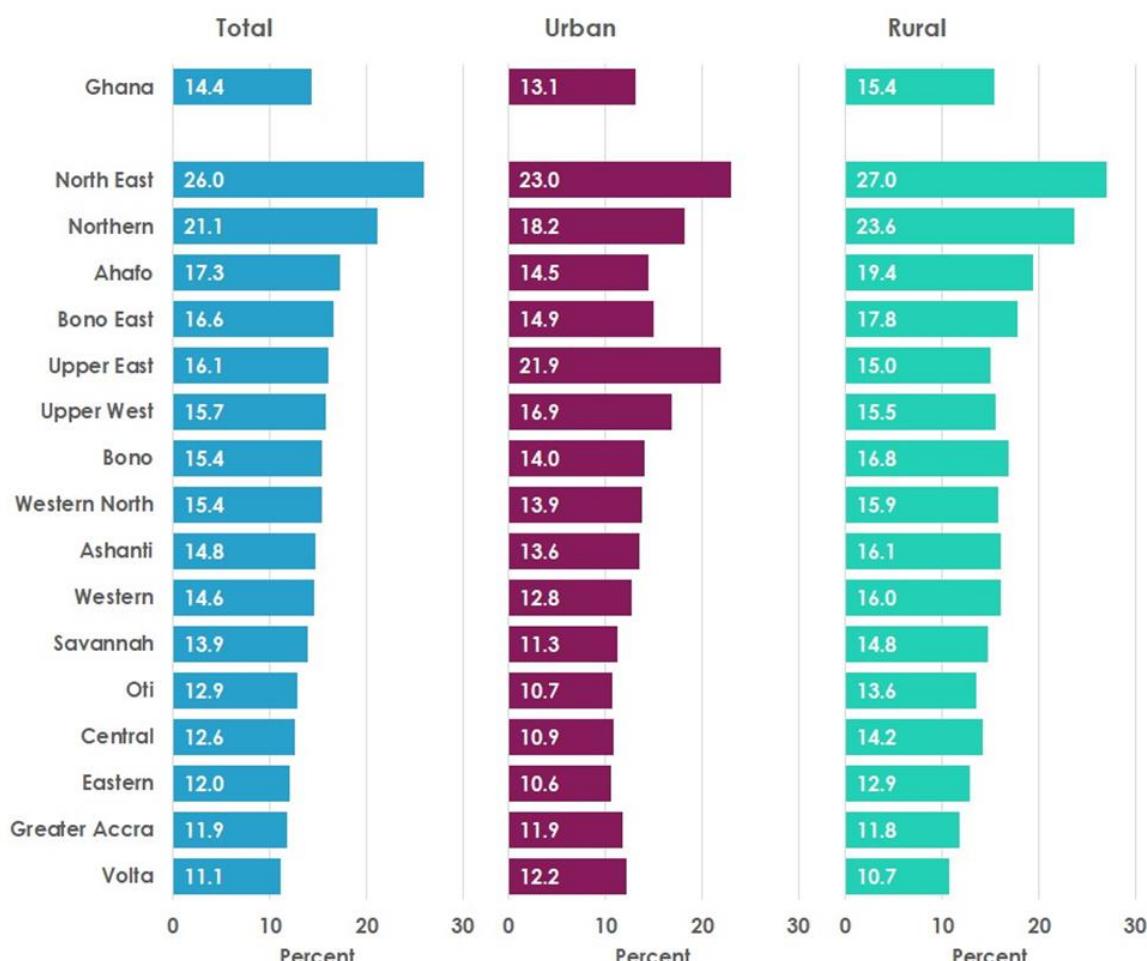
FIGURE 4.12: PROPORTION OF PREGNANCY-RELATED DEATHS OF WOMEN 15-49 YEARS OCCURRING 12 MONTHS PRECEDING THE CENSUS NIGHT BY TYPE OF LOCALITY AND REGION



Of the 16,135 household deaths of females aged 15-49 years occurring 12 months preceding the Census Night, 2,323 (14.4%) are maternal-related; the proportion of household deaths that are maternal-related is higher in rural (15.4%) than in urban (13.1%) areas.

North East Region (26.0%) recorded the highest proportion of household deaths occurring 12 months preceding the Census Night that are maternal-related, and the lowest was recorded in Volta Region (11.1%). Among the regions, the proportions are higher for urban than rural areas except in four (Upper West, Upper East, Greater Accra and Volta regions).

FIGURE 4.13: PROPORTION OF MATERNAL-RELATED DEATHS OF WOMEN 15-49 YEARS OCCURRING 12 MONTHS PRECEDING THE CENSUS NIGHT BY TYPE OF LOCALITY AND REGION



5. MAIN TABLES

TABLE 5.1: NUMBER OF WOMEN AGED 15-49 YEARS BY AGE GROUP, REGION, NUMBER OF CHILDREN EVER BORN, CHILDREN SURVIVING AND TYPE OF LOCALITY

Region/Age Group	Number of Women			Number of Children Ever Born			Number of Children Surviving		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural
Total	8,198,131	4,990,746	3,207,385	14,431,566	7,267,202	7,164,364	13,793,415	7,035,289	6,758,126
15-19	1,655,565	979,670	675,895	125,242	45,138	80,104	122,694	44,425	78,269
20-24	1,497,829	916,859	580,970	805,919	338,562	467,357	787,318	332,519	454,799
25-29	1,357,123	850,930	506,193	1,759,395	861,938	897,457	1,713,101	845,178	867,923
30-34	1,219,405	762,634	456,771	2,798,540	1,452,268	1,346,272	2,708,555	1,419,330	1,289,225
35-39	1,040,002	640,484	399,518	3,316,811	1,746,051	1,570,760	3,183,721	1,696,523	1,487,198
40-44	800,565	472,912	327,653	3,063,612	1,542,623	1,520,989	2,894,199	1,481,854	1,412,345
45-49	627,642	367,257	260,385	2,562,047	1,280,622	1,281,425	2,383,827	1,215,460	1,168,367
Western									
Total	544,760	297,176	247,584	961,001	443,720	517,281	922,557	430,097	492,460
15-19	108,954	60,035	48,919	8,788	2,872	5,916	8,587	2,823	5,764
20-24	98,022	53,214	44,808	54,962	20,411	34,551	53,691	20,046	33,645
25-29	94,196	51,196	43,000	124,878	53,845	71,033	121,874	52,865	69,009
30-34	82,790	45,254	37,536	188,527	87,626	100,901	183,088	85,709	97,379
35-39	69,525	37,751	31,774	222,668	105,798	116,870	214,298	102,852	111,446
40-44	50,470	27,304	23,166	194,330	92,534	101,796	184,560	89,066	95,494
45-49	40,803	22,422	18,381	166,848	80,634	86,214	156,459	76,736	79,723
Central									
Total	760,295	465,181	295,114	1,352,126	724,825	627,301	1,290,328	698,272	592,056
15-19	163,312	94,770	68,542	12,143	5,110	7,033	11,913	5,038	6,875
20-24	135,619	86,255	49,364	72,821	35,325	37,496	71,218	34,630	36,588
25-29	122,035	77,553	44,482	159,827	85,796	74,031	155,619	83,896	71,723
30-34	107,318	68,367	38,951	244,817	139,630	105,187	237,415	136,222	101,193
35-39	96,637	59,571	37,066	312,984	173,940	139,044	300,375	168,204	132,171
40-44	72,926	43,314	29,612	284,263	151,658	132,605	267,949	144,702	123,247
45-49	62,448	35,351	27,097	265,271	133,366	131,905	245,839	125,580	120,259

Region/Age Group	Number of Women			Number of Children Ever Born			Number of Children Surviving		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural
Greater Accra									
Total	1,609,670	1,490,436	119,234	2,109,575	1,895,070	214,505	2,067,164	1,859,768	207,396
15-19	250,470	228,923	21,547	8,579	6,780	1,799	8,477	6,702	1,775
20-24	275,342	255,130	20,212	78,389	66,968	11,421	77,347	66,160	11,187
25-29	284,891	265,133	19,758	228,926	202,447	26,479	225,926	199,970	25,956
30-34	273,216	253,704	19,512	430,310	386,589	43,721	424,249	381,501	42,748
35-39	233,027	215,950	17,077	539,840	487,813	52,027	530,215	479,756	50,459
40-44	167,720	155,587	12,133	460,290	416,497	43,793	449,310	407,380	41,930
45-49	125,004	116,009	8,995	363,241	327,976	35,265	351,640	318,299	33,341
Volta									
Total	427,228	195,791	231,437	742,253	279,323	462,930	704,396	268,909	435,487
15-19	94,361	43,661	50,700	7,923	2,325	5,598	7,773	2,282	5,491
20-24	72,407	34,499	37,908	43,812	14,846	28,966	42,846	14,559	28,287
25-29	64,071	30,146	33,925	88,355	33,750	54,605	85,775	32,958	52,817
30-34	60,879	28,829	32,050	135,009	54,992	80,017	130,312	53,603	76,709
35-39	53,930	24,430	29,500	164,103	64,343	99,760	156,401	62,231	94,170
40-44	43,604	18,750	24,854	156,083	57,911	98,172	146,317	55,285	91,032
45-49	37,976	15,476	22,500	146,968	51,156	95,812	134,972	47,991	86,981
Eastern									
Total	758,767	423,280	335,487	1,341,679	614,538	727,141	1,292,350	596,698	695,652
15-19	171,837	102,315	69,522	13,238	4,789	8,449	13,011	4,725	8,286
20-24	125,150	71,362	53,788	71,967	29,326	42,641	70,602	28,873	41,729
25-29	116,283	65,811	50,472	155,637	70,973	84,664	152,229	69,771	82,458
30-34	106,284	59,313	46,971	239,631	115,682	123,949	233,715	113,471	120,244
35-39	97,602	52,141	45,461	308,848	145,170	163,678	298,618	141,546	157,072
40-44	75,945	39,136	36,809	285,461	129,512	155,949	272,900	124,906	147,994
45-49	65,666	33,202	32,464	266,897	119,086	147,811	251,275	113,406	137,869
Ashanti									
Total	1,472,944	965,693	507,251	2,525,898	1,415,521	1,110,377	2,430,045	1,372,664	1,057,381
15-19	315,623	210,113	105,510	20,204	8,239	11,965	19,792	8,105	11,687

Region/Age Group	Number of Women				Number of Children Ever Born				Number of Children Surviving		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural		
20-24	269,971	181,708	88,263	128,530	61,723	66,807	125,753	60,678	65,075		
25-29	239,834	157,424	82,410	302,162	162,877	139,285	294,757	159,732	135,025		
30-34	210,747	137,890	72,857	481,858	275,523	206,335	468,202	269,458	198,744		
35-39	184,459	118,998	65,461	594,334	343,155	251,179	574,021	333,829	240,192		
40-44	139,359	88,548	50,811	533,327	302,998	230,329	509,096	291,978	217,118		
45-49	112,951	71,012	41,939	465,483	261,006	204,477	438,424	248,884	189,540		
Western North											
Total	228,685	75,335	153,350	442,691	112,494	330,197	422,766	108,561	314,205		
15-19	47,534	15,640	31,894	4,130	903	3,227	4,035	883	3,152		
20-24	42,626	15,433	27,193	25,593	5,971	19,622	24,941	5,830	19,111		
25-29	38,826	13,722	25,104	56,071	14,525	41,546	54,449	14,212	40,237		
30-34	33,123	10,777	22,346	85,459	22,102	63,357	82,443	21,464	60,979		
35-39	28,455	8,693	19,762	101,730	26,452	75,278	97,584	25,635	71,949		
40-44	21,377	6,227	15,150	91,739	22,891	68,848	86,724	21,888	64,836		
45-49	16,744	4,843	11,901	77,969	19,650	58,319	72,590	18,649	53,941		
Ahafo											
Total	144,806	76,999	67,807	280,127	121,366	158,761	269,026	117,374	151,652		
15-19	32,060	17,906	14,154	2,782	1,187	1,595	2,733	1,172	1,561		
20-24	27,036	14,941	12,095	16,513	6,920	9,593	16,141	6,799	9,342		
25-29	22,872	12,662	10,210	33,470	14,927	18,543	32,716	14,649	18,067		
30-34	19,948	10,542	9,406	51,606	22,959	28,647	50,139	22,425	27,714		
35-39	17,648	8,856	8,792	63,869	27,913	35,956	61,466	27,076	34,390		
40-44	13,819	6,573	7,246	59,661	24,925	34,736	56,729	23,905	32,824		
45-49	11,423	5,519	5,904	52,226	22,535	29,691	49,102	21,348	27,754		
Bono											
Total	324,095	202,126	121,969	532,559	285,326	247,233	512,511	276,949	235,562		
15-19	65,675	40,787	24,888	4,967	2,414	2,553	4,892	2,383	2,509		
20-24	61,717	40,280	21,437	28,569	13,961	14,608	28,018	13,760	14,258		
25-29	52,868	34,106	18,762	61,114	32,616	28,498	59,769	32,066	27,703		
30-34	46,956	29,575	17,381	99,748	55,313	44,435	97,049	54,167	42,882		
35-39	40,520	24,524	15,996	122,803	66,676	56,127	118,599	64,955	53,644		

Region/Age Group	Number of Women				Number of Children Ever Born				Number of Children Surviving		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural		
40-44	31,172	18,237	12,935	114,684	61,022	53,662	109,397	58,820	50,577		
45-49	25,187	14,617	10,570	100,674	53,324	47,350	94,787	50,798	43,989		
Bono East											
Total	308,520	175,207	133,313	607,639	290,035	317,604	575,388	277,770	297,618		
15-19	63,484	35,807	27,677	6,347	2,607	3,740	6,203	2,559	3,644		
20-24	61,604	36,019	25,585	39,796	17,930	21,866	38,759	17,559	21,200		
25-29	52,210	31,322	20,888	77,958	39,019	38,939	75,674	38,120	37,554		
30-34	43,789	25,223	18,566	116,644	58,169	58,475	112,150	56,417	55,733		
35-39	36,516	20,353	16,163	134,548	65,630	68,918	127,876	63,096	64,780		
40-44	28,899	14,956	13,943	127,806	58,305	69,501	119,178	55,208	63,970		
45-49	22,018	11,527	10,491	104,540	48,375	56,165	95,548	44,811	50,737		
Oti											
Total	177,217	63,267	113,950	403,654	116,819	286,835	375,523	109,206	266,317		
15-19	39,193	15,169	24,024	4,699	1,376	3,323	4,595	1,352	3,243		
20-24	33,338	12,474	20,864	26,939	7,762	19,177	26,033	7,531	18,502		
25-29	27,494	10,320	17,174	50,055	15,388	34,667	47,937	14,843	33,094		
30-34	24,978	8,561	16,417	79,058	23,224	55,834	74,843	22,041	52,802		
35-39	21,396	7,171	14,225	88,954	25,992	62,962	82,961	24,305	58,656		
40-44	17,479	5,474	12,005	86,181	24,097	62,084	78,640	22,099	56,541		
45-49	13,339	4,098	9,241	67,768	18,980	48,788	60,514	17,035	43,479		
Northern											
Total	571,722	289,770	281,952	1,311,202	535,580	775,622	1,221,650	504,536	717,114		
15-19	109,289	54,590	54,699	11,439	3,233	8,206	11,107	3,160	7,947		
20-24	117,724	59,549	58,175	92,611	31,821	60,790	89,606	30,953	58,653		
25-29	100,390	53,510	46,880	187,905	76,537	111,368	180,442	74,103	106,339		
30-34	90,506	45,724	44,782	294,722	118,821	175,901	278,705	113,722	164,983		
35-39	65,769	33,057	32,712	281,451	118,028	163,423	262,391	111,605	150,786		
40-44	54,642	26,342	28,300	270,490	111,465	159,025	245,973	102,701	143,272		
45-49	33,402	16,998	16,404	172,584	75,675	96,909	153,426	68,292	85,134		

Region/Age Group	Number of Women				Number of Children Ever Born				Number of Children Surviving		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural		
Savannah											
Total	160,561	52,440	108,121	350,010	86,946	263,064	329,525	83,051	246,474		
15-19	33,652	11,428	22,224	4,266	818	3,448	4,162	800	3,362		
20-24	34,681	11,646	23,035	26,354	5,864	20,490	25,711	5,753	19,958		
25-29	27,390	9,856	17,534	47,138	12,634	34,504	45,656	12,326	33,330		
30-34	23,555	7,426	16,129	73,001	18,286	54,715	69,886	17,723	52,163		
35-39	17,053	5,281	11,772	72,146	18,662	53,484	68,062	17,814	50,248		
40-44	14,750	4,067	10,683	74,601	17,488	57,113	68,810	16,511	52,299		
45-49	9,480	2,736	6,744	52,504	13,194	39,310	47,238	12,124	35,114		
North East											
Total	158,929	56,672	102,257	382,562	108,715	273,847	356,321	103,163	253,158		
15-19	35,789	12,978	22,811	5,100	1,180	3,920	4,969	1,152	3,817		
20-24	34,303	12,311	21,992	29,913	7,626	22,287	29,039	7,453	21,586		
25-29	26,181	9,843	16,338	51,775	14,678	37,097	49,685	14,239	35,446		
30-34	22,361	7,946	14,415	80,033	23,298	56,735	75,814	22,461	53,353		
35-39	16,772	5,755	11,017	80,440	22,960	57,480	74,945	21,815	53,130		
40-44	14,205	4,668	9,537	79,993	22,559	57,434	72,789	21,062	51,727		
45-49	9,318	3,171	6,147	55,308	16,414	38,894	49,080	14,981	34,099		
Upper East											
Total	323,605	91,638	231,967	632,310	142,854	489,456	599,599	137,851	461,748		
15-19	73,950	20,107	53,843	6,332	845	5,487	6,227	834	5,393		
20-24	62,045	16,810	45,235	40,315	7,136	33,179	39,550	7,033	32,517		
25-29	51,387	15,711	35,676	79,171	18,836	60,335	77,395	18,549	58,846		
30-34	43,145	13,816	29,329	114,889	30,076	84,813	111,166	29,420	81,746		
35-39	35,677	10,611	25,066	130,967	32,148	98,819	125,015	31,188	93,827		
40-44	32,075	8,269	23,806	140,750	29,576	111,174	131,258	28,156	103,102		
45-49	25,326	6,314	19,012	119,886	24,237	95,649	108,988	22,671	86,317		
Upper West											
Total	226,327	69,735	156,592	456,280	94,070	362,210	424,266	90,420	333,846		
15-19	50,382	15,441	34,941	4,305	460	3,845	4,218	455	3,763		

Region/Age Group	Number of Women				Number of Children Ever Born				Number of Children Surviving		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural		
20-24	46,244	15,228	31,016	28,835	4,972	23,863	28,063	4,902	23,161		
25-29	36,195	12,615	23,580	54,953	13,090	41,863	53,198	12,879	40,319		
30-34	29,810	9,687	20,123	83,228	19,978	63,250	79,379	19,526	59,853		
35-39	25,016	7,342	17,674	97,126	21,371	75,755	90,894	20,616	70,278		
40-44	22,123	5,460	16,663	103,953	19,185	84,768	94,569	18,187	76,382		
45-49	16,557	3,962	12,595	83,880	15,014	68,866	73,945	13,855	60,090		

Note: The figures relates to females in households and stable institutions.

TABLE 5.2: NUMBER OF WOMEN AGED 45-49 YEARS BY REGION, NUMBER OF CHILDREN EVER BORN, CHILDREN SURVIVING AND TYPE OF LOCALITY

Region	Number of Women			Number of Children Ever Born			Number of Children Surviving			Mean children Ever Born			Mean children surviving		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural
Total	627,642	367,257	260,385	2,562,047	1,280,622	1,281,425	2,383,827	1,215,460	1,168,367	4.1	3.5	4.9	3.8	3.3	4.5
Western	40,803	22,422	18,381	166,848	80,634	86,214	156,459	76,736	79,723	4.1	3.6	4.7	3.8	3.4	4.3
Central	62,448	35,351	27,097	265,271	133,366	131,905	245,839	125,580	120,259	4.2	3.8	4.9	3.9	3.6	4.4
Greater Accra	125,004	116,009	8,995	363,241	327,976	35,265	351,640	318,299	33,341	2.9	2.8	3.9	2.8	2.7	3.7
Volta	37,976	15,476	22,500	146,968	51,156	95,812	134,972	47,991	86,981	3.9	3.3	4.3	3.6	3.1	3.9
Eastern	65,666	33,202	32,464	266,897	119,086	147,811	251,275	113,406	137,869	4.1	3.6	4.6	3.8	3.4	4.2
Ashanti	112,951	71,012	41,939	465,483	261,006	204,477	438,424	248,884	189,540	4.1	3.7	4.9	3.9	3.5	4.5
Western North	16,744	4,843	11,901	77,969	19,650	58,319	72,590	18,649	53,941	4.7	4.1	4.9	4.3	3.9	4.5
Ahafo	11,423	5,519	5,904	52,226	22,535	29,691	49,102	21,348	27,754	4.6	4.1	5	4.3	3.9	4.7
Bono	25,187	14,617	10,570	100,674	53,324	47,350	94,787	50,798	43,989	4	3.6	4.5	3.8	3.5	4.2
Bono East	22,018	11,527	10,491	104,540	48,375	56,165	95,548	44,811	50,737	4.7	4.2	5.4	4.3	3.9	4.8
Oti	13,339	4,098	9,241	67,768	18,980	48,788	60,514	17,035	43,479	5.1	4.6	5.3	4.5	4.2	4.7
Northern	33,402	16,998	16,404	172,584	75,675	96,909	153,426	68,292	85,134	5.2	4.5	5.9	4.6	4	5.2
Savannah	9,480	2,736	6,744	52,504	13,194	39,310	47,238	12,124	35,114	5.5	4.8	5.8	5	4.4	5.2
North East	9,318	3,171	6,147	55,308	16,414	38,894	49,080	14,981	34,099	5.9	5.2	6.3	5.3	4.7	5.5
Upper East	25,326	6,314	19,012	119,886	24,237	95,649	108,988	22,671	86,317	4.7	3.8	5	4.3	3.6	4.5
Upper West	16,557	3,962	12,595	83,880	15,014	68,866	73,945	13,855	60,090	5.1	3.8	5.5	4.5	3.5	4.8

Note: The figures relate to females in households and stable institutions.

TABLE 5.3: NUMBER OF WOMEN AGED 12-19 YEARS BY REGION, NUMBER OF CHILDREN EVER BORN, CHILDREN SURVIVING AND TYPE OF LOCALITY

Region	Number of Women			Number of Children Ever Born			Number of Children Surviving		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural
Total	2,636,590	1,521,898	1,114,692	126,556	45,635	80,921	123,985	44,917	79,068
Western	174,371	93,613	80,758	8,874	2,898	5,976	8,673	2,849	5,824
Central	260,997	150,102	110,895	12,276	5,173	7,103	12,044	5,101	6,943
Greater Accra	412,859	376,283	36,576	8,672	6,846	1,826	8,568	6,768	1,800
Volta	149,106	66,725	82,381	8,014	2,357	5,657	7,864	2,314	5,550
Eastern	266,857	150,772	116,085	13,364	4,840	8,524	13,136	4,776	8,360
Ashanti	489,004	314,473	174,531	20,383	8,313	12,070	19,967	8,177	11,790
Western North	76,282	24,015	52,267	4,169	916	3,253	4,072	894	3,178
Ahafo	50,496	26,344	24,152	2,815	1,206	1,609	2,766	1,191	1,575
Bono	103,386	62,549	40,837	5,013	2,436	2,577	4,938	2,405	2,533
Bono East	101,601	55,876	45,725	6,417	2,640	3,777	6,272	2,592	3,680
Oti	64,325	23,650	40,675	4,754	1,394	3,360	4,647	1,369	3,278
Northern	179,317	87,434	91,883	11,585	3,279	8,306	11,252	3,206	8,046
Savannah	52,825	17,296	35,529	4,322	831	3,491	4,215	813	3,402
North East	57,980	20,036	37,944	5,171	1,194	3,977	5,039	1,166	3,873
Upper East	117,375	30,335	87,040	6,384	848	5,536	6,278	837	5,441
Upper West	79,809	22,395	57,414	4,343	464	3,879	4,254	459	3,795

Note: The figures relate to females in households and stable institutions.

TABLE 5.4: NUMBER OF WOMEN AGED 15-49 YEARS BY AGE GROUP, BIRTHS IN THE LAST 12 MONTHS, NUMBER SURVIVING, REGION AND TYPE OF LOCALITY

Age Group	All Locality Types			Urban			Rural		
	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving
All Regions									
Total	8,198,131	772,617	743,313	4,990,746	403,367	388,348	3,207,385	369,250	354,965
15-19	1,655,565	52,250	50,143	979,670	18,167	17,464	675,895	34,083	32,679
20-24	1,497,829	157,393	151,572	916,859	67,863	65,415	580,970	89,530	86,157
25-29	1,357,123	204,799	197,189	850,930	110,789	106,756	506,193	94,010	90,433
30-34	1,219,405	189,233	182,155	762,634	111,379	107,312	456,771	77,854	74,843
35-39	1,040,002	122,067	117,332	640,484	71,073	68,316	399,518	50,994	49,016
40-44	800,565	39,187	37,611	472,912	20,639	19,801	327,653	18,548	17,810
45-49	627,642	7,688	7,311	367,257	3,457	3,284	260,385	4,231	4,027
Western									
Total	544,760	49,837	47,656	297,176	23,348	22,395	247,584	26,489	25,261
15-19	108,954	3,657	3,487	60,035	1,150	1,100	48,919	2,507	2,387
20-24	98,022	10,039	9,630	53,214	3,783	3,636	44,808	6,256	5,994
25-29	94,196	13,638	13,036	51,196	6,553	6,292	43,000	7,085	6,744
30-34	82,790	12,140	11,606	45,254	6,418	6,165	37,536	5,722	5,441
35-39	69,525	7,784	7,449	37,751	4,145	3,971	31,774	3,639	3,478
40-44	50,470	2,183	2,073	27,304	1,119	1,064	23,166	1,064	1,009
45-49	40,803	396	375	22,422	180	167	18,381	216	208
Central									
Total	760,295	69,921	67,254	465,181	38,508	37,064	295,114	31,413	30,190
15-19	163,312	5,248	5,036	94,770	2,096	2,017	68,542	3,152	3,019
20-24	135,619	14,198	13,682	86,255	6,925	6,665	49,364	7,273	7,017
25-29	122,035	18,516	17,829	77,553	10,457	10,084	44,482	8,059	7,745
30-34	107,318	16,690	16,052	68,367	10,053	9,674	38,951	6,637	6,378
35-39	96,637	11,124	10,699	59,571	6,641	6,393	37,066	4,483	4,306
40-44	72,926	3,515	3,356	43,314	1,998	1,908	29,612	1,517	1,448
45-49	62,448	630	600	35,351	338	323	27,097	292	277

Age Group	All Locality Types			Urban			Rural		
	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving
Greater Accra									
Total	1,609,670	114,848	110,771	1,490,436	102,791	99,150	119,234	12,057	11,621
15-19	250,470	3,391	3,275	228,923	2,608	2,520	21,547	783	755
20-24	275,342	15,446	14,936	255,130	13,150	12,716	20,212	2,296	2,220
25-29	284,891	30,139	29,084	265,133	26,968	26,010	19,758	3,171	3,074
30-34	273,216	35,370	34,115	253,704	32,227	31,104	19,512	3,143	3,011
35-39	233,027	23,142	22,281	215,950	21,138	20,353	17,077	2,004	1,928
40-44	167,720	6,462	6,223	155,587	5,903	5,684	12,133	559	539
45-49	125,004	898	857	116,009	797	763	8,995	101	94
Volta									
Total	427,228	39,448	37,954	195,791	15,563	14,999	231,437	23,885	22,955
15-19	94,361	3,547	3,411	43,661	1,006	972	50,700	2,541	2,439
20-24	72,407	8,752	8,457	34,499	2,927	2,833	37,908	5,825	5,624
25-29	64,071	9,741	9,368	30,146	3,992	3,849	33,925	5,749	5,519
30-34	60,879	9,076	8,719	28,829	4,069	3,931	32,050	5,007	4,788
35-39	53,930	5,983	5,740	24,430	2,597	2,475	29,500	3,386	3,265
40-44	43,604	1,972	1,901	18,750	826	798	24,854	1,146	1,103
45-49	37,976	377	358	15,476	146	141	22,500	231	217
Eastern									
Total	758,767	68,955	66,618	423,280	32,737	31,645	335,487	36,218	34,973
15-19	171,837	5,742	5,552	102,315	1,988	1,919	69,522	3,754	3,633
20-24	125,150	13,900	13,462	71,362	5,630	5,455	53,788	8,270	8,007
25-29	116,283	17,692	17,091	65,811	8,712	8,418	50,472	8,980	8,673
30-34	106,284	16,359	15,782	59,313	8,804	8,491	46,971	7,555	7,291
35-39	97,602	11,034	10,677	52,141	5,630	5,469	45,461	5,404	5,208
40-44	75,945	3,572	3,427	39,136	1,681	1,618	36,809	1,891	1,809
45-49	65,666	656	627	33,202	292	275	32,464	364	352
Ashanti									
Total	1,472,944	133,725	128,544	965,693	76,183	73,247	507,251	57,542	55,297
15-19	315,623	8,535	8,166	210,113	3,304	3,167	105,510	5,231	4,999

Age Group	All Locality Types			Urban			Rural		
	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving
20-24	269,971	25,124	24,161	181,708	12,286	11,839	88,263	12,838	12,322
25-29	239,834	36,029	34,684	157,424	21,039	20,247	82,410	14,990	14,437
30-34	210,747	34,013	32,765	137,890	21,302	20,530	72,857	12,711	12,235
35-39	184,459	22,361	21,456	118,998	13,893	13,315	65,461	8,468	8,141
40-44	139,359	6,529	6,242	88,548	3,783	3,610	50,811	2,746	2,632
45-49	112,951	1,134	1,070	71,012	576	539	41,939	558	531
Western North									
Total	228,685	21,196	20,367	75,335	5,836	5,574	153,350	15,380	14,793
15-19	47,534	1,717	1,643	15,640	341	324	31,894	1,376	1,319
20-24	42,626	4,639	4,462	15,433	1,111	1,066	27,193	3,528	3,396
25-29	38,826	5,766	5,543	13,722	1,745	1,669	25,104	4,021	3,874
30-34	33,123	4,854	4,654	10,777	1,473	1,402	22,346	3,381	3,252
35-39	28,455	3,070	2,950	8,693	876	837	19,762	2,194	2,113
40-44	21,377	974	947	6,227	244	233	15,150	730	714
45-49	16,744	176	168	4,843	46	43	11,901	130	125
Ahafo									
Total	144,806	14,577	13,906	76,999	6,770	6,410	67,807	7,807	7,496
15-19	32,060	1,174	1,116	17,906	454	431	14,154	720	685
20-24	27,036	3,167	3,030	14,941	1,331	1,255	12,095	1,836	1,775
25-29	22,872	3,829	3,665	12,662	1,845	1,751	10,210	1,984	1,914
30-34	19,948	3,147	2,995	10,542	1,615	1,521	9,406	1,532	1,474
35-39	17,648	2,304	2,197	8,856	1,104	1,056	8,792	1,200	1,141
40-44	13,819	776	735	6,573	337	317	7,246	439	418
45-49	11,423	180	168	5,519	84	79	5,904	96	89
Bono									
Total	324,095	28,814	27,692	202,126	15,981	15,338	121,969	12,833	12,354
15-19	65,675	1,989	1,911	40,787	894	853	24,888	1,095	1,058
20-24	61,717	5,471	5,282	40,280	2,709	2,609	21,437	2,762	2,673
25-29	52,868	7,333	7,046	34,106	4,132	3,987	18,762	3,201	3,059
30-34	46,956	7,161	6,865	29,575	4,357	4,170	17,381	2,804	2,695

Age Group	All Locality Types			Urban			Rural		
	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving
35-39	40,520	4,975	4,775	24,524	2,895	2,766	15,996	2,080	2,009
40-44	31,172	1,567	1,514	18,237	837	807	12,935	730	707
45-49	25,187	318	299	14,617	157	146	10,570	161	153
Bono East									
Total	308,520	33,643	32,449	175,207	16,799	16,207	133,313	16,844	16,242
15-19	63,484	2,638	2,530	35,807	1,075	1,035	27,677	1,563	1,495
20-24	61,604	7,666	7,383	36,019	3,492	3,372	25,585	4,174	4,011
25-29	52,210	8,890	8,598	31,322	4,738	4,576	20,888	4,152	4,022
30-34	43,789	7,473	7,211	25,223	4,064	3,923	18,566	3,409	3,288
35-39	36,516	4,872	4,694	20,353	2,510	2,414	16,163	2,362	2,280
40-44	28,899	1,725	1,665	14,956	771	742	13,943	954	923
45-49	22,018	379	368	11,527	149	145	10,491	230	223
Oti									
Total	177,217	21,788	21,090	63,267	6,845	6,644	113,950	14,943	14,446
15-19	39,193	2,041	1,967	15,169	593	572	24,024	1,448	1,395
20-24	33,338	5,353	5,189	12,474	1,568	1,520	20,864	3,785	3,669
25-29	27,494	5,368	5,206	10,320	1,832	1,781	17,174	3,536	3,425
30-34	24,978	4,555	4,411	8,561	1,558	1,516	16,417	2,997	2,895
35-39	21,396	3,019	2,925	7,171	916	888	14,225	2,103	2,037
40-44	17,479	1,190	1,142	5,474	302	293	12,005	888	849
45-49	13,339	262	250	4,098	76	74	9,241	186	176
Northern									
Total	571,722	77,820	74,905	289,770	35,072	33,751	281,952	42,748	41,154
15-19	109,289	4,292	4,100	54,590	1,266	1,215	54,699	3,026	2,885
20-24	117,724	18,153	17,452	59,549	7,260	6,985	58,175	10,893	10,467
25-29	100,390	21,541	20,753	53,510	10,607	10,230	46,880	10,934	10,523
30-34	90,506	18,282	17,642	45,724	8,858	8,526	44,782	9,424	9,116
35-39	65,769	10,449	10,042	33,057	5,002	4,795	32,712	5,447	5,247
40-44	54,642	4,091	3,950	26,342	1,692	1,629	28,300	2,399	2,321
45-49	33,402	1,012	966	16,998	387	371	16,404	625	595

Age Group	All Locality Types			Urban			Rural		
	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving
Savannah									
Total	160,561	18,118	17,399	52,440	5,269	5,062	108,121	12,849	12,337
15-19	33,652	1,508	1,453	11,428	327	310	22,224	1,181	1,143
20-24	34,681	4,509	4,326	11,646	1,164	1,111	23,035	3,345	3,215
25-29	27,390	4,642	4,476	9,856	1,543	1,493	17,534	3,099	2,983
30-34	23,555	3,856	3,714	7,426	1,242	1,196	16,129	2,614	2,518
35-39	17,053	2,332	2,212	5,281	705	675	11,772	1,627	1,537
40-44	14,750	997	958	4,067	239	232	10,683	758	726
45-49	9,480	274	260	2,736	49	45	6,744	225	215
North East									
Total	158,929	21,692	20,782	56,672	6,662	6,401	102,257	15,030	14,381
15-19	35,789	1,983	1,892	12,978	482	462	22,811	1,501	1,430
20-24	34,303	5,815	5,579	12,311	1,600	1,540	21,992	4,215	4,039
25-29	26,181	5,560	5,317	9,843	1,843	1,770	16,338	3,717	3,547
30-34	22,361	4,444	4,261	7,946	1,539	1,481	14,415	2,905	2,780
35-39	16,772	2,534	2,442	5,755	821	792	11,017	1,713	1,650
40-44	14,205	1,092	1,042	4,668	310	292	9,537	782	750
45-49	9,318	264	249	3,171	67	64	6,147	197	185
Upper East									
Total	323,605	33,756	32,321	91,638	8,812	8,464	231,967	24,944	23,857
15-19	73,950	2,954	2,834	20,107	387	375	53,843	2,567	2,459
20-24	62,045	8,957	8,571	16,810	1,739	1,660	45,235	7,218	6,911
25-29	51,387	9,375	8,979	15,711	2,753	2,633	35,676	6,622	6,346
30-34	43,145	6,641	6,358	13,816	2,184	2,109	29,329	4,457	4,249
35-39	35,677	3,993	3,826	10,611	1,311	1,266	25,066	2,682	2,560
40-44	32,075	1,395	1,338	8,269	367	352	23,806	1,028	986
45-49	25,326	441	415	6,314	71	69	19,012	370	346
Upper West									
Total	226,327	24,479	23,605	69,735	6,191	5,997	156,592	18,288	17,608
15-19	50,382	1,834	1,770	15,441	196	192	34,941	1,638	1,578

Age Group	All Locality Types			Urban			Rural		
	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving	Number of Women	Births in the last 12 months	Number of children surviving
20-24	46,244	6,204	5,970	15,228	1,188	1,153	31,016	5,016	4,817
25-29	36,195	6,740	6,514	12,615	2,030	1,966	23,580	4,710	4,548
30-34	29,810	5,172	5,005	9,687	1,616	1,573	20,123	3,556	3,432
35-39	25,016	3,091	2,967	7,342	889	851	17,674	2,202	2,116
40-44	22,123	1,147	1,098	5,460	230	222	16,663	917	876
45-49	16,557	291	281	3,962	42	40	12,595	249	241

Note: The figures relate to females in households and stable institutions.

TABLE 5.5: MEAN CHILDREN EVER BORN, MEAN CHILDREN SURVIVING BY WOMEN AGED 15-49 YEARS AND MEAN AGE AT FIRST BIRTH BY REGION AND TYPE OF LOCALITY

Region	Mean Children Ever born			Mean children Surviving			Mean Age at First Birth		
	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural	All Locality Types	Urban	Rural
All Regions	1.8	1.5	2.2	1.7	1.4	2.1	22.0	22.8	20.9
Western	1.8	1.5	2.1	1.7	1.4	2.0	21.6	22.5	20.7
Central	1.8	1.6	2.1	1.7	1.5	2.0	21.7	22.3	20.9
Greater Accra	1.3	1.3	1.8	1.3	1.2	1.7	23.6	23.8	22.3
Volta	1.7	1.4	2.0	1.6	1.4	1.9	21.7	22.4	21.1
Eastern	1.8	1.5	2.2	1.7	1.4	2.1	21.7	22.4	21.0
Ashanti	1.7	1.5	2.2	1.6	1.4	2.1	21.9	22.6	20.9
Western North	1.9	1.5	2.2	1.8	1.4	2.0	21.1	21.8	20.8
Ahafo	1.9	1.6	2.3	1.9	1.5	2.2	21.3	21.7	20.8
Bono	1.6	1.4	2.0	1.6	1.4	1.9	22.0	22.5	21.3
Bono East	2.0	1.7	2.4	1.9	1.6	2.2	21.4	21.9	20.8
Oti	2.3	1.8	2.5	2.1	1.7	2.3	20.9	21.3	20.8
Northern	2.3	1.8	2.8	2.1	1.7	2.5	21.5	22.4	20.7
Savannah	2.2	1.7	2.4	2.1	1.6	2.3	21.1	21.8	20.9
North East	2.4	1.9	2.7	2.2	1.8	2.5	20.7	21.4	20.4
Upper East	2.0	1.6	2.1	1.9	1.5	2.0	21.2	22.5	20.8
Upper West	2.0	1.3	2.3	1.9	1.3	2.1	21.5	22.9	21.0

Note: The figures relate to females in households and stable institutions.

TABLE 5.6: HOUSEHOLD DEATHS BY REGION, TYPE OF LOCALITY, CAUSE OF DEATH AND SEX

Region	Household Population			Household Deaths			Deaths due to Accident, Violence, Homicide and Suicide			Percent		
	Total	Male	Female	Total	Male	Female	Number	Male	Female	Total	Male	Female
All Locality Types												
Total	30,079,802	14,832,636	15,247,166	132,199	76,067	56,132	14,656	10,360	4,296	11.1	13.6	7.7
Western	2,022,816	1,026,341	996,475	7,415	4,195	3,220	998	675	323	13.5	16.1	10.0
Central	2,771,486	1,347,550	1,423,936	13,933	7,600	6,333	1,482	1,014	468	10.6	13.3	7.4
Greater Accra	5,384,268	2,641,413	2,742,855	14,238	7,938	6,300	1,398	968	430	9.8	12.2	6.8
Volta	1,600,939	762,314	838,625	11,220	6,125	5,095	1,171	834	337	10.4	13.6	6.6
Eastern	2,820,760	1,387,937	1,432,823	15,044	8,359	6,685	1,517	1,037	480	10.1	12.4	7.2
Ashanti	5,247,870	2,586,871	2,660,999	21,787	12,411	9,376	2,478	1,736	742	11.4	14.0	7.9
Western North	869,756	446,832	422,924	3,316	1,951	1,365	423	294	129	12.8	15.1	9.5
Ahafo	549,089	278,717	270,372	2,270	1,297	973	303	216	87	13.3	16.7	8.9
Bono	1,174,830	580,075	594,755	4,876	2,838	2,038	581	417	164	11.9	14.7	8.0
Bono East	1,184,634	594,154	590,480	4,599	2,758	1,841	556	402	154	12.1	14.6	8.4
Oti	732,747	369,741	363,006	3,454	2,027	1,427	356	258	98	10.3	12.7	6.9
Northern	2,275,197	1,123,217	1,151,980	9,297	5,416	3,881	944	665	279	10.2	12.3	7.2
Savannah	646,781	324,318	322,463	2,696	1,734	962	376	276	100	13.9	15.9	10.4
North East	651,083	318,713	332,370	2,822	1,731	1,091	335	245	90	11.9	14.2	8.2
Upper East	1,272,072	617,140	654,932	9,521	5,996	3,525	1,030	790	240	10.8	13.2	6.8
Upper West	875,474	427,303	448,171	5,711	3,691	2,020	708	533	175	12.4	14.4	8.7
Urban												
Total	16,849,556	8,204,683	8,644,873	57,641	32,460	25,181	6,144	4,284	1,860	10.7	13.2	7.4
Western	1,030,916	511,062	519,854	3,264	1,853	1,411	427	287	140	13.1	15.5	9.9
Central	1,589,075	767,887	821,188	6,401	3,492	2,909	735	497	238	11.5	14.2	8.2
Greater Accra	4,933,620	2,416,572	2,517,048	12,561	6,992	5,569	1,215	834	381	9.7	11.9	6.8
Volta	660,996	311,625	349,371	2,939	1,621	1,318	299	219	80	10.2	13.5	6.1
Eastern	1,416,406	679,882	736,524	6,114	3,325	2,789	560	374	186	9.2	11.2	6.7
Ashanti	3,181,537	1,543,165	1,638,372	11,447	6,418	5,029	1,270	867	403	11.1	13.5	8.0
Western North	254,206	125,680	128,526	851	504	347	98	75	23	11.5	14.9	6.6

Region	Household Population			Household Deaths			Deaths due to Accident, Violence, Homicide and Suicide			Percent		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Ahafo	261,735	129,164	132,571	1,084	585	499	133	94	39	12.3	16.1	7.8
Bono	678,376	327,994	350,382	2,568	1,500	1,068	312	231	81	12.1	15.4	7.6
Bono East	616,477	301,395	315,082	1,868	1,103	765	222	157	65	11.9	14.2	8.5
Oti	233,329	115,371	117,958	872	524	348	100	76	24	11.5	14.5	6.9
Northern	1,063,664	523,744	539,920	3,923	2,192	1,731	348	241	107	8.9	11.0	6.2
Savannah	188,512	93,223	95,289	595	357	238	86	64	22	14.5	17.9	9.2
North East	207,881	101,105	106,776	741	454	287	88	64	24	11.9	14.1	8.4
Upper East	313,325	150,873	162,452	1,551	984	567	158	131	27	10.2	13.3	4.8
Upper West	219,501	105,941	113,560	862	556	306	93	73	20	10.8	13.1	6.5
Rural												
Total	13,230,246	6,627,953	6,602,293	74,558	43,607	30,951	8,512	6,076	2,436	11.4	13.9	7.9
Western	991,900	515,279	476,621	4,151	2,342	1,809	571	388	183	13.8	16.6	10.1
Central	1,182,411	579,663	602,748	7,532	4,108	3,424	747	517	230	9.9	12.6	6.7
Greater Accra	450,648	224,841	225,807	1,677	946	731	183	134	49	10.9	14.2	6.7
Volta	939,943	450,689	489,254	8,281	4,504	3,777	872	615	257	10.5	13.7	6.8
Eastern	1,404,354	708,055	696,299	8,930	5,034	3,896	957	663	294	10.7	13.2	7.5
Ashanti	2,066,333	1,043,706	1,022,627	10,340	5,993	4,347	1,208	869	339	11.7	14.5	7.8
Western North	615,550	321,152	294,398	2,465	1,447	1,018	325	219	106	13.2	15.1	10.4
Ahafo	287,354	149,553	137,801	1,186	712	474	170	122	48	14.3	17.1	10.1
Bono	496,454	252,081	244,373	2,308	1,338	970	269	186	83	11.7	13.9	8.6
Bono East	568,157	292,759	275,398	2,731	1,655	1,076	334	245	89	12.2	14.8	8.3
Oti	499,418	254,370	245,048	2,582	1,503	1,079	256	182	74	9.9	12.1	6.9
Northern	1,211,533	599,473	612,060	5,374	3,224	2,150	596	424	172	11.1	13.2	8.0
Savannah	458,269	231,095	227,174	2,101	1,377	724	290	212	78	13.8	15.4	10.8
North East	443,202	217,608	225,594	2,081	1,277	804	247	181	66	11.9	14.2	8.2
Upper East	958,747	466,267	492,480	7,970	5,012	2,958	872	659	213	10.9	13.1	7.2
Upper West	655,973	321,362	334,611	4,849	3,135	1,714	615	460	155	12.7	14.7	9.0

Note: The figures relate to females in households and stable institutions.

TABLE 5.7: HOUSEHOLD POPULATION, HOUSEHOLD DEATHS BY AGE REGION GROUP, TYPE OF LOCALITY AND SEX

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Regions																		
Total	30,079,802	14,832,636	15,247,166	132,199	76,067	56,132	16,849,556	8,204,683	8,644,873	57,641	32,460	25,181	13,230,246	6,627,953	6,602,293	74,558	43,607	30,951
<1	727,321	368,021	359,300	5,757	3,217	2,540	376,140	190,770	185,370	2,500	1,384	1,116	351,181	177,251	173,930	3,257	1,833	1,424
1-4	3,037,949	1,540,364	1,497,585	4,960	2,658	2,302	1,559,488	791,007	768,481	1,775	959	816	1,478,461	749,357	729,104	3,185	1,699	1,486
5-9	3,737,716	1,900,154	1,837,562	2,363	1,339	1,024	1,938,845	976,967	961,878	823	475	348	1,798,871	923,187	875,684	1,540	864	676
10-14	3,353,078	1,702,931	1,650,147	1,879	1,097	782	1,765,463	869,167	896,296	689	394	295	1,587,615	833,764	753,851	1,190	703	487
15-19	2,900,729	1,471,052	1,429,677	2,820	1,819	1,001	1,567,522	769,292	798,230	1,004	611	393	1,333,207	701,760	631,447	1,816	1,208	608
20-24	2,744,245	1,338,627	1,405,618	3,776	2,323	1,453	1,617,760	781,303	836,457	1,419	829	590	1,126,485	557,324	569,161	2,357	1,494	863
25-29	2,580,953	1,236,796	1,344,157	4,734	2,835	1,899	1,591,415	752,216	839,199	1,861	1,043	818	989,538	484,580	504,958	2,873	1,792	1,081
30-34	2,367,414	1,150,438	1,216,976	6,337	3,657	2,680	1,469,092	708,665	760,427	2,534	1,361	1,173	898,322	441,773	456,549	3,803	2,296	1,507
35-39	2,030,694	991,705	1,038,989	7,219	4,297	2,922	1,245,120	605,554	639,566	3,047	1,733	1,314	785,574	386,151	399,423	4,172	2,564	1,608
40-44	1,596,899	796,853	800,046	8,340	5,252	3,088	950,343	477,888	472,455	3,688	2,254	1,434	646,556	318,965	327,591	4,652	2,998	1,654
45-49	1,260,973	633,760	627,213	8,575	5,483	3,092	738,542	371,645	366,897	3,972	2,529	1,443	522,431	262,115	260,316	4,603	2,954	1,649
50-54	1,006,833	486,805	520,028	9,398	5,829	3,569	566,996	272,677	294,319	4,335	2,647	1,688	439,837	214,128	225,709	5,063	3,182	1,881
55-59	749,540	356,334	393,206	8,072	5,076	2,996	421,704	196,725	224,979	3,895	2,383	1,512	327,836	159,609	168,227	4,177	2,693	1,484
60-64	666,712	309,350	357,362	9,635	5,839	3,796	366,734	165,990	200,744	4,443	2,638	1,805	299,978	143,360	156,618	5,192	3,201	1,991
65-69	436,361	204,766	231,595	7,974	4,929	3,045	239,819	109,550	130,269	3,801	2,308	1,493	196,542	95,216	101,326	4,173	2,621	1,552
70-74	332,975	148,752	184,223	9,295	5,649	3,646	171,596	74,713	96,883	4,259	2,610	1,649	161,379	74,039	87,340	5,036	3,039	1,997
75-79	212,593	86,096	126,497	6,875	3,914	2,961	105,568	42,002	63,566	3,195	1,799	1,396	107,025	44,094	62,931	3,680	2,115	1,565
80-84	166,496	56,880	109,616	7,384	3,751	3,633	77,482	25,921	51,561	3,284	1,648	1,636	89,014	30,959	58,055	4,100	2,103	1,997
85-89	93,353	29,678	63,675	5,539	2,645	2,894	44,031	13,204	30,827	2,413	1,153	1,260	49,322	16,474	32,848	3,126	1,492	1,634
90-94	42,368	13,288	29,080	3,938	1,747	2,191	19,573	5,388	14,185	1,721	717	1,004	22,795	7,900	14,895	2,217	1,030	1,187
95+	34,600	9,986	24,614	7,329	2,711	4,618	16,323	4,039	12,284	2,983	985	1,998	18,277	5,947	12,330	4,346	1,726	2,620

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Western																		
Total	2,022,816	1,026,341	996,475	7,415	4,195	3,220	1,030,916	511,062	519,854	3,264	1,853	1,411	991,900	515,279	476,621	4,151	2,342	1,809
<1	46,227	23,122	23,105	356	193	163	21,608	10,862	10,746	156	82	74	24,619	12,260	12,359	200	111	89
1-4	192,596	97,054	95,542	260	137	123	91,271	46,125	45,146	106	56	50	101,325	50,929	50,396	154	81	73
5-9	245,846	124,582	121,264	132	79	53	118,523	59,524	58,999	51	32	19	127,323	65,058	62,265	81	47	34
10-14	222,904	113,204	109,700	101	58	43	109,627	54,118	55,509	42	23	19	113,277	59,086	54,191	59	35	24
15-19	199,571	102,075	97,496	212	113	99	99,844	49,449	50,395	74	31	43	99,727	52,626	47,101	138	82	56
20-24	192,125	97,533	94,592	205	132	73	100,129	50,093	50,036	82	45	37	91,996	47,440	44,556	123	87	36
25-29	187,682	94,034	93,648	297	173	124	98,601	47,938	50,663	113	68	45	89,081	46,096	42,985	184	105	79
30-34	170,770	88,057	82,713	371	219	152	90,960	45,774	45,186	165	100	65	79,810	42,283	37,527	206	119	87
35-39	143,684	74,194	69,490	461	257	204	76,028	38,307	37,721	206	112	94	67,656	35,887	31,769	255	145	110
40-44	106,781	56,324	50,457	470	273	197	56,335	29,041	27,294	204	118	86	50,446	27,283	23,163	266	155	111
45-49	86,474	45,685	40,789	585	367	218	45,900	23,491	22,409	260	168	92	40,574	22,194	18,380	325	199	126
50-54	67,401	33,985	33,416	514	322	192	35,670	17,408	18,262	210	145	65	31,731	16,577	15,154	304	177	127
55-59	49,440	24,941	24,499	451	286	165	26,523	12,769	13,754	208	133	75	22,917	12,172	10,745	243	153	90
60-64	41,441	20,366	21,075	519	315	204	22,243	10,429	11,814	242	153	89	19,198	9,937	9,261	277	162	115
65-69	26,100	13,027	13,073	491	288	203	14,209	6,650	7,559	239	134	105	11,891	6,377	5,514	252	154	98
70-74	18,469	8,672	9,797	472	283	189	9,896	4,334	5,562	217	127	90	8,573	4,338	4,235	255	156	99
75-79	10,885	4,735	6,150	370	211	159	5,987	2,486	3,501	174	100	74	4,898	2,249	2,649	196	111	85
80-84	7,260	2,578	4,682	360	164	196	3,802	1,242	2,560	167	76	91	3,458	1,336	2,122	193	88	105
85-89	3,608	1,161	2,447	252	124	128	1,967	578	1,389	119	66	53	1,641	583	1,058	133	58	75
90-94	1,829	515	1,314	167	75	92	934	233	701	67	32	35	895	282	613	100	43	57
95+	1,723	497	1,226	369	126	243	859	211	648	162	52	110	864	286	578	207	74	133
Central																		
Total	2,771,486	1,347,550	1,423,936	13,933	7,600	6,333	1,589,075	767,887	821,188	6,401	3,492	2,909	1,182,411	579,663	602,748	7,532	4,108	3,424
<1	65,564	33,493	32,071	623	353	270	35,755	18,217	17,538	281	163	118	29,809	15,276	14,533	342	190	152

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1-4	265,677	134,649	131,028	365	187	178	146,702	74,311	72,391	170	84	86	118,975	60,338	58,637	195	103	92
5-9	342,989	174,107	168,882	170	94	76	191,093	96,229	94,864	80	44	36	151,896	77,878	74,018	90	50	40
10-14	326,965	165,662	161,303	175	119	56	179,465	88,862	90,603	74	52	22	147,500	76,800	70,700	101	67	34
15-19	277,325	139,878	137,447	285	190	95	154,485	76,182	78,303	116	71	45	122,840	63,696	59,144	169	119	50
20-24	241,181	115,944	125,237	376	213	163	148,398	71,322	77,076	156	83	73	92,783	44,622	48,161	220	130	90
25-29	225,309	105,700	119,609	438	252	186	141,270	66,076	75,194	193	111	82	84,039	39,624	44,415	245	141	104
30-34	204,269	97,746	106,523	644	344	300	128,549	60,967	67,582	275	130	145	75,720	36,779	38,941	369	214	155
35-39	184,095	87,772	96,323	722	407	315	112,932	53,671	59,261	326	181	145	71,163	34,101	37,062	396	226	170
40-44	142,734	69,950	72,784	868	512	356	85,543	42,370	43,173	410	240	170	57,191	27,580	29,611	458	272	186
45-49	121,447	59,088	62,359	874	526	348	69,541	34,275	35,266	453	286	167	51,906	24,813	27,093	421	240	181
50-54	97,804	45,763	52,041	1,015	594	421	53,780	25,421	28,359	490	298	192	44,024	20,342	23,682	525	296	229
55-59	75,958	34,970	40,988	880	521	359	40,573	18,580	21,993	443	251	192	35,385	16,390	18,995	437	270	167
60-64	67,893	30,277	37,616	1,073	616	457	35,458	15,652	19,806	494	289	205	32,435	14,625	17,810	579	327	252
65-69	46,208	20,965	25,243	927	551	376	23,685	10,590	13,095	430	253	177	22,523	10,375	12,148	497	298	199
70-74	34,118	14,600	19,518	1,065	614	451	16,891	7,143	9,748	487	299	188	17,227	7,457	9,770	578	315	263
75-79	20,908	7,934	12,974	729	392	337	10,335	3,897	6,438	344	181	163	10,573	4,037	6,536	385	211	174
80-84	15,072	4,795	10,277	766	372	394	7,094	2,235	4,859	353	168	185	7,978	2,560	5,418	413	204	209
85-89	7,724	2,255	5,469	613	267	346	3,798	1,062	2,736	261	125	136	3,926	1,193	2,733	352	142	210
90-94	4,156	1,073	3,083	433	171	262	1,925	457	1,468	208	78	130	2,231	616	1,615	225	93	132
95+	4,090	929	3,161	892	305	587	1,803	368	1,435	357	105	252	2,287	561	1,726	535	200	335
Greater Accra																		
Total	5,384,268	2,641,413	2,742,855	14,238	7,938	6,300	4,933,620	2,416,572	2,517,048	12,561	6,992	5,569	450,648	224,841	225,807	1,677	946	731
<1	104,966	53,228	51,738	519	272	247	93,927	47,583	46,344	449	230	219	11,039	5,645	5,394	70	42	28
1-4	447,996	227,135	220,861	345	183	162	402,415	204,025	198,390	304	163	141	45,581	23,110	22,471	41	20	21
5-9	560,558	281,466	279,092	172	95	77	503,476	252,495	250,981	144	81	63	57,082	28,971	28,111	28	14	14
10-14	518,636	252,183	266,453	155	85	70	466,520	225,511	241,009	131	70	61	52,116	26,672	25,444	24	15	9

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
15-19	456,623	219,540	237,083	205	134	71	414,438	198,203	216,235	172	110	62	42,185	21,337	20,848	33	24	9
20-24	516,479	249,851	266,628	333	192	141	477,126	230,192	246,934	285	161	124	39,353	19,659	19,694	48	31	17
25-29	546,175	262,855	283,320	384	200	184	508,572	244,939	263,633	323	164	159	37,603	17,916	19,687	61	36	25
30-34	531,563	258,751	272,812	554	260	294	493,839	240,526	253,313	479	214	265	37,724	18,225	19,499	75	46	29
35-39	456,556	223,727	232,829	732	385	347	422,718	206,960	215,758	647	342	305	33,838	16,767	17,071	85	43	42
40-44	346,488	178,871	167,617	941	535	406	320,814	165,320	155,494	824	462	362	25,674	13,551	12,123	117	73	44
45-49	260,495	135,583	124,912	1,029	624	405	241,396	125,471	115,925	900	549	351	19,099	10,112	8,987	129	75	54
50-54	191,555	95,312	96,243	1,136	666	470	177,503	88,171	89,332	1,018	602	416	14,052	7,141	6,911	118	64	54
55-59	139,519	67,186	72,333	1,136	701	435	129,449	62,223	67,226	1,038	639	399	10,070	4,963	5,107	98	62	36
60-64	116,240	53,879	62,361	1,227	708	519	107,411	49,855	57,556	1,098	636	462	8,829	4,024	4,805	129	72	57
65-69	75,121	34,908	40,213	1,094	679	415	69,449	32,272	37,177	988	608	380	5,672	2,636	3,036	106	71	35
70-74	50,741	22,598	28,143	1,079	654	425	46,517	20,716	25,801	963	581	382	4,224	1,882	2,342	116	73	43
75-79	29,058	12,341	16,717	935	542	393	26,535	11,312	15,223	837	485	352	2,523	1,029	1,494	98	57	41
80-84	18,580	6,764	11,816	800	420	380	16,680	6,172	10,508	717	373	344	1,900	592	1,308	83	47	36
85-89	9,497	3,182	6,315	598	290	308	8,465	2,871	5,594	523	259	264	1,032	311	721	75	31	44
90-94	4,186	1,244	2,942	362	141	221	3,653	1,079	2,574	312	122	190	533	165	368	50	19	31
95+	3,236	809	2,427	502	172	330	2,717	676	2,041	409	141	268	519	133	386	93	31	62
Volta																		
Total	1,600,939	762,314	838,625	11,220	6,125	5,095	660,996	311,625	349,371	2,939	1,621	1,318	939,943	450,689	489,254	8,281	4,504	3,777
<1	37,104	18,756	18,348	291	170	121	14,414	7,286	7,128	92	54	38	22,690	11,470	11,220	199	116	83
1-4	144,622	73,915	70,707	195	97	98	57,694	29,478	28,216	49	26	23	86,928	44,437	42,491	146	71	75
5-9	194,584	98,582	96,002	127	66	61	76,707	38,330	38,377	34	18	16	117,877	60,252	57,625	93	48	45
10-14	183,005	92,615	90,390	117	56	61	73,267	35,768	37,499	31	14	17	109,738	56,847	52,891	86	42	44
15-19	152,087	77,158	74,929	169	112	57	62,345	30,472	31,873	52	32	20	89,742	46,686	43,056	117	80	37
20-24	128,389	61,855	66,534	234	131	103	57,894	27,682	30,212	64	35	29	70,495	34,173	36,322	170	96	74

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
25-29	117,565	54,240	63,325	310	167	143	54,255	24,714	29,541	82	37	45	63,310	29,526	33,784	228	130	98
30-34	113,559	52,777	60,782	476	255	221	52,890	24,139	28,751	118	73	45	60,669	28,638	32,031	358	182	176
35-39	102,047	48,156	53,891	564	302	262	46,170	21,771	24,399	135	74	61	55,877	26,385	29,492	429	228	201
40-44	82,487	38,912	43,575	651	344	307	35,923	17,198	18,725	181	99	82	46,564	21,714	24,850	470	245	225
45-49	71,758	33,811	37,947	739	468	271	29,590	14,135	15,455	193	123	70	42,168	19,676	22,492	546	345	201
50-54	62,181	27,236	34,945	796	476	320	23,910	10,538	13,372	238	145	93	38,271	16,698	21,573	558	331	227
55-59	52,102	22,391	29,711	747	476	271	20,166	8,590	11,576	237	162	75	31,936	13,801	18,135	510	314	196
60-64	47,234	20,172	27,062	863	524	339	17,645	7,401	10,244	199	122	77	29,589	12,771	16,818	664	402	262
65-69	34,435	14,673	19,762	741	455	286	12,730	5,420	7,310	219	126	93	21,705	9,253	12,452	522	329	193
70-74	26,692	10,850	15,842	921	565	356	9,338	3,721	5,617	238	146	92	17,354	7,129	10,225	683	419	264
75-79	18,403	6,856	11,547	668	358	310	6,113	2,272	3,841	147	84	63	12,290	4,584	7,706	521	274	247
80-84	15,863	4,740	11,123	787	415	372	4,776	1,422	3,354	194	98	96	11,087	3,318	7,769	593	317	276
85-89	9,410	2,650	6,760	613	255	358	2,873	766	2,107	151	68	83	6,537	1,884	4,653	462	187	275
90-94	4,170	1,138	3,032	460	187	273	1,337	322	1,015	121	37	84	2,833	816	2,017	339	150	189
95+	3,242	831	2,411	751	246	505	959	200	759	164	48	116	2,283	631	1,652	587	198	389
Eastern																		
Total	2,820,760	1,387,937	1,432,823	15,044	8,359	6,685	1,416,406	679,882	736,524	6,114	3,325	2,789	1,404,354	708,055	696,299	8,930	5,034	3,896
<1	64,845	32,914	31,931	449	236	213	30,792	15,724	15,068	189	96	93	34,053	17,190	16,863	260	140	120
1-4	258,915	132,088	126,827	256	140	116	123,535	63,013	60,522	95	51	44	135,380	69,075	66,305	161	89	72
5-9	335,349	171,470	163,879	169	102	67	160,595	81,017	79,578	57	32	25	174,754	90,453	84,301	112	70	42
10-14	322,177	165,758	156,419	160	92	68	155,854	77,309	78,545	59	30	29	166,323	88,449	77,874	101	62	39
15-19	269,144	138,083	131,061	258	166	92	133,634	66,371	67,263	78	49	29	135,510	71,712	63,798	180	117	63
20-24	227,688	111,193	116,495	330	191	139	123,504	59,390	64,114	119	72	47	104,184	51,803	52,381	211	119	92
25-29	217,983	102,717	115,266	472	266	206	120,342	55,331	65,011	169	87	82	97,641	47,386	50,255	303	179	124
30-34	204,449	98,320	106,129	656	374	282	111,895	52,683	59,212	236	135	101	92,554	45,637	46,917	420	239	181

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
35-39	190,453	92,927	97,526	802	447	355	100,073	47,977	52,096	280	143	137	90,380	44,950	45,430	522	304	218
40-44	151,144	75,249	75,895	987	626	361	76,956	37,843	39,113	349	231	118	74,188	37,406	36,782	638	395	243
45-49	129,561	63,955	65,606	970	586	384	63,761	30,581	33,180	418	245	173	65,800	33,374	32,426	552	341	211
50-54	110,032	52,578	57,454	1,160	691	469	52,781	24,352	28,429	469	276	193	57,251	28,226	29,025	691	415	276
55-59	91,088	42,797	48,291	1,057	602	455	43,730	19,510	24,220	447	246	201	47,358	23,287	24,071	610	356	254
60-64	81,649	37,591	44,058	1,175	684	491	39,229	16,999	22,230	483	272	211	42,420	20,592	21,828	692	412	280
65-69	56,552	26,399	30,153	941	577	364	27,373	12,129	15,244	421	266	155	29,179	14,270	14,909	520	311	209
70-74	41,808	19,125	22,683	1,220	740	480	19,896	8,491	11,405	526	321	205	21,912	10,634	11,278	694	419	275
75-79	25,871	10,864	15,007	841	492	349	12,306	4,849	7,457	356	200	156	13,565	6,015	7,550	485	292	193
80-84	19,943	7,245	12,698	935	481	454	9,434	3,362	6,072	433	227	206	10,509	3,883	6,626	502	254	248
85-89	12,000	3,917	8,083	726	332	394	5,917	1,790	4,127	327	134	193	6,083	2,127	3,956	399	198	201
90-94	5,397	1,563	3,834	504	210	294	2,580	663	1,917	222	92	130	2,817	900	1,917	282	118	164
95+	4,712	1,184	3,528	976	324	652	2,219	498	1,721	381	120	261	2,493	686	1,807	595	204	391
Ashanti																		
Total	5,247,870	2,586,871	2,660,999	21,787	12,411	9,376	3,181,537	1,543,165	1,638,372	11,447	6,418	5,029	2,066,333	1,043,706	1,022,627	10,340	5,993	4,347
<1	126,337	64,174	62,163	962	540	422	71,596	36,330	35,266	496	282	214	54,741	27,844	26,897	466	258	208
1-4	512,871	260,950	251,921	715	403	312	295,582	150,146	145,436	314	176	138	217,289	110,804	106,485	401	227	174
5-9	646,209	328,360	317,849	322	190	132	371,939	187,934	184,005	134	83	51	274,270	140,426	133,844	188	107	81
10-14	587,132	296,042	291,090	254	161	93	341,321	168,079	173,242	111	72	39	245,811	127,963	117,848	143	89	54
15-19	512,295	259,120	253,175	419	270	149	307,575	151,917	155,658	195	119	76	204,720	107,203	97,517	224	151	73
20-24	481,440	236,519	244,921	595	366	229	309,999	151,503	158,496	271	156	115	171,441	85,016	86,425	324	210	114
25-29	455,647	218,674	236,973	764	463	301	294,625	139,814	154,811	366	209	157	161,022	78,860	82,162	398	254	144
30-34	408,518	198,310	210,208	1,038	578	460	263,698	126,300	137,398	503	278	225	144,820	72,010	72,810	535	300	235
35-39	358,487	174,248	184,239	1,148	685	463	227,209	108,414	118,795	589	337	252	131,278	65,834	65,444	559	348	211
40-44	278,058	138,820	139,238	1,469	924	545	173,747	85,312	88,435	771	473	298	104,311	53,508	50,803	698	451	247

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
45-49	225,697	112,852	112,845	1,478	937	541	138,560	67,649	70,911	787	487	300	87,137	45,203	41,934	691	450	241
50-54	180,653	87,581	93,072	1,584	989	595	108,322	51,128	57,194	890	550	340	72,331	36,453	35,878	694	439	255
55-59	135,983	64,376	71,607	1,390	850	540	80,904	36,915	43,989	746	452	294	55,079	27,461	27,618	644	398	246
60-64	118,574	54,821	63,753	1,669	1,035	634	69,947	31,015	38,932	915	570	345	48,627	23,806	24,821	754	465	289
65-69	77,221	36,199	41,022	1,326	817	509	45,486	20,385	25,101	726	434	292	31,735	15,814	15,921	600	383	217
70-74	56,102	25,506	30,596	1,522	940	582	31,961	13,863	18,098	863	545	318	24,141	11,643	12,498	659	395	264
75-79	33,023	13,469	19,554	1,083	589	494	18,888	7,396	11,492	617	341	276	14,135	6,073	8,062	466	248	218
80-84	25,316	8,662	16,654	1,126	563	563	14,262	4,746	9,516	628	305	323	11,054	3,916	7,138	498	258	240
85-89	14,042	4,378	9,664	877	389	488	8,119	2,431	5,688	459	205	254	5,923	1,947	3,976	418	184	234
90-94	7,098	1,980	5,118	635	273	362	3,916	1,004	2,912	351	142	209	3,182	976	2,206	284	131	153
95+	7,167	1,830	5,337	1,411	449	962	3,881	884	2,997	715	202	513	3,286	946	2,340	696	247	449
Western North																		
Total	869,756	446,832	422,924	3,316	1,951	1,365	254,206	125,680	128,526	851	504	347	615,550	321,152	294,398	2,465	1,447	1,018
<1	20,300	10,232	10,068	161	81	80	5,510	2,785	2,725	26	11	15	14,790	7,447	7,343	135	70	65
1-4	86,829	44,011	42,818	148	79	69	23,395	11,762	11,633	32	19	13	63,434	32,249	31,185	116	60	56
5-9	110,428	56,539	53,889	56	35	21	29,255	14,710	14,545	13	9	4	81,173	41,829	39,344	43	26	17
10-14	100,106	51,700	48,406	47	22	25	27,496	13,685	13,811	12	5	7	72,610	38,015	34,595	35	17	18
15-19	93,007	48,207	44,800	92	70	22	27,257	13,319	13,938	21	16	5	65,750	34,888	30,862	71	54	17
20-24	81,146	40,180	40,966	151	95	56	26,797	12,737	14,060	25	18	7	54,349	27,443	26,906	126	77	49
25-29	74,923	36,452	38,471	145	98	47	25,113	11,698	13,415	38	25	13	49,810	24,754	25,056	107	73	34
30-34	67,370	34,266	33,104	208	134	74	21,666	10,902	10,764	54	34	20	45,704	23,364	22,340	154	100	54
35-39	59,217	30,762	28,455	210	125	85	17,578	8,885	8,693	41	23	18	41,639	21,877	19,762	169	102	67
40-44	45,658	24,281	21,377	232	150	82	12,972	6,745	6,227	63	44	19	32,686	17,536	15,150	169	106	63
45-49	36,606	19,862	16,744	211	129	82	10,265	5,422	4,843	66	47	19	26,341	14,440	11,901	145	82	63
50-54	29,307	15,834	13,473	253	142	111	8,099	4,022	4,077	62	32	30	21,208	11,812	9,396	191	110	81

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
55-59	20,724	11,416	9,308	195	122	73	5,947	2,999	2,948	59	38	21	14,777	8,417	6,360	136	84	52
60-64	17,000	9,474	7,526	264	164	100	4,941	2,518	2,423	72	39	33	12,059	6,956	5,103	192	125	67
65-69	9,876	5,643	4,233	153	90	63	2,922	1,479	1,443	36	25	11	6,954	4,164	2,790	117	65	52
70-74	7,009	3,680	3,329	185	117	68	1,908	896	1,012	60	36	24	5,101	2,784	2,317	125	81	44
75-79	3,891	1,869	2,022	122	61	61	1,145	483	662	39	16	23	2,746	1,386	1,360	83	45	38
80-84	3,012	1,237	1,775	140	66	74	912	338	574	31	14	17	2,100	899	1,201	109	52	57
85-89	1,601	579	1,022	104	55	49	516	162	354	32	19	13	1,085	417	668	72	36	36
90-94	854	313	541	68	40	28	250	68	182	20	13	7	604	245	359	48	27	21
95+	892	295	597	171	76	95	262	65	197	49	21	28	630	230	400	122	55	67
Ahafo																		
Total	549,089	278,717	270,372	2,270	1,297	973	261,735	129,164	132,571	1,084	585	499	287,354	149,553	137,801	1,186	712	474
<1	13,747	6,996	6,751	83	37	46	6,302	3,233	3,069	32	15	17	7,445	3,763	3,682	51	22	29
1-4	54,953	27,898	27,055	66	33	33	24,855	12,556	12,299	27	13	14	30,098	15,342	14,756	39	20	19
5-9	70,369	36,131	34,238	42	18	24	31,604	16,100	15,504	21	6	15	38,765	20,031	18,734	21	12	9
10-14	64,071	33,158	30,913	29	14	15	28,369	14,289	14,080	10	5	5	35,702	18,869	16,833	19	9	10
15-19	55,733	29,010	26,723	45	31	14	25,883	12,856	13,027	20	14	6	29,850	16,154	13,696	25	17	8
20-24	47,916	23,397	24,519	70	45	25	24,672	11,789	12,883	22	14	8	23,244	11,608	11,636	48	31	17
25-29	44,140	21,599	22,541	98	63	35	23,594	11,231	12,363	44	28	16	20,546	10,368	10,178	54	35	19
30-34	40,065	20,163	19,902	113	60	53	21,106	10,595	10,511	46	27	19	18,959	9,568	9,391	67	33	34
35-39	36,010	18,381	17,629	144	94	50	17,826	8,984	8,842	68	46	22	18,184	9,397	8,787	76	48	28
40-44	28,412	14,595	13,817	153	112	41	13,436	6,863	6,573	72	57	15	14,976	7,732	7,244	81	55	26
45-49	23,955	12,537	11,418	159	100	59	11,098	5,581	5,517	84	53	31	12,857	6,956	5,901	75	47	28
50-54	19,635	10,152	9,483	165	104	61	8,939	4,431	4,508	77	42	35	10,696	5,721	4,975	88	62	26
55-59	14,903	7,723	7,180	128	85	43	6,849	3,253	3,596	75	43	32	8,054	4,470	3,584	53	42	11
60-64	12,199	6,358	5,841	139	82	57	5,813	2,784	3,029	62	36	26	6,386	3,574	2,812	77	46	31

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
65-69	7,951	4,069	3,882	135	78	57	3,833	1,760	2,073	66	32	34	4,118	2,309	1,809	69	46	23
70-74	5,742	2,867	2,875	175	107	68	2,761	1,262	1,499	86	45	41	2,981	1,605	1,376	89	62	27
75-79	3,410	1,532	1,878	93	53	40	1,664	660	1,004	47	25	22	1,746	872	874	46	28	18
80-84	2,595	1,003	1,592	129	56	73	1,297	402	895	71	31	40	1,298	601	697	58	25	33
85-89	1,757	619	1,138	93	41	52	991	299	692	52	21	31	766	320	446	41	20	21
90-94	777	267	510	70	34	36	413	107	306	35	14	21	364	160	204	35	20	15
95+	749	262	487	141	50	91	430	129	301	67	18	49	319	133	186	74	32	42
Bono																		
Total	1,174,830	580,075	594,755	4,876	2,838	2,038	678,376	327,994	350,382	2,568	1,500	1,068	496,454	252,081	244,373	2,308	1,338	970
<1	27,949	14,324	13,625	165	97	68	15,310	7,894	7,416	86	51	35	12,639	6,430	6,209	79	46	33
1-4	112,889	57,711	55,178	150	76	74	62,208	31,681	30,527	48	24	24	50,681	26,030	24,651	102	52	50
5-9	142,410	72,601	69,809	70	40	30	78,438	39,672	38,766	23	19	4	63,972	32,929	31,043	47	21	26
10-14	129,176	65,523	63,653	58	36	22	71,793	35,521	36,272	23	12	11	57,383	30,002	27,381	35	24	11
15-19	116,333	59,845	56,488	100	57	43	66,367	33,332	33,035	34	23	11	49,966	26,513	23,453	66	34	32
20-24	114,015	57,506	56,509	170	104	66	70,359	35,031	35,328	79	50	29	43,656	22,475	21,181	91	54	37
25-29	100,097	48,059	52,038	203	122	81	62,869	29,577	33,292	103	60	43	37,228	18,482	18,746	100	62	38
30-34	90,255	43,413	46,842	275	160	115	55,566	26,104	29,462	134	78	56	34,689	17,309	17,380	141	82	59
35-39	78,657	38,169	40,488	293	188	105	46,660	22,166	24,494	160	102	58	31,997	16,003	15,994	133	86	47
40-44	60,769	29,617	31,152	287	193	94	34,964	16,747	18,217	136	92	44	25,805	12,870	12,935	151	101	50
45-49	49,381	24,211	25,170	321	216	105	27,921	13,321	14,600	185	126	59	21,460	10,890	10,570	136	90	46
50-54	39,881	18,969	20,912	322	202	120	21,981	10,005	11,976	167	96	71	17,900	8,964	8,936	155	106	49
55-59	31,325	14,804	16,521	271	179	92	17,435	7,837	9,598	149	94	55	13,890	6,967	6,923	122	85	37
60-64	27,438	12,768	14,670	359	217	142	15,497	6,837	8,660	194	111	83	11,941	5,931	6,010	165	106	59
65-69	18,118	8,520	9,598	245	149	96	10,451	4,620	5,831	136	91	45	7,667	3,900	3,767	109	58	51
70-74	12,535	5,862	6,673	354	237	117	7,141	3,181	3,960	201	140	61	5,394	2,681	2,713	153	97	56

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
75-79	8,066	3,419	4,647	234	141	93	4,700	1,903	2,797	141	84	57	3,366	1,516	1,850	93	57	36
80-84	6,544	2,248	4,296	266	124	142	3,575	1,188	2,387	143	70	73	2,969	1,060	1,909	123	54	69
85-89	5,145	1,456	3,689	214	105	109	2,917	782	2,135	129	64	65	2,228	674	1,554	85	41	44
90-94	2,177	646	1,531	157	68	89	1,237	362	875	93	41	52	940	284	656	64	27	37
95+	1,670	404	1,266	362	127	235	987	233	754	204	72	132	683	171	512	158	55	103
Bono East																		
Total	1,184,634	594,154	590,480	4,599	2,758	1,841	616,477	301,395	315,082	1,868	1,103	765	568,157	292,759	275,398	2,731	1,655	1,076
<1	32,564	16,433	16,131	296	179	117	16,160	8,201	7,959	107	54	53	16,404	8,232	8,172	189	125	64
1-4	132,036	66,707	65,329	253	131	122	64,823	32,798	32,025	85	45	40	67,213	33,909	33,304	168	86	82
5-9	159,024	81,295	77,729	115	63	52	79,031	40,057	38,974	46	29	17	79,993	41,238	38,755	69	34	35
10-14	135,742	70,065	65,677	96	52	44	67,772	33,728	34,044	31	15	16	67,970	36,337	31,633	65	37	28
15-19	121,636	62,987	58,649	141	87	54	62,830	31,279	31,551	47	28	19	58,806	31,708	27,098	94	59	35
20-24	116,866	57,904	58,962	192	126	66	64,366	30,804	33,562	77	50	27	52,500	27,100	25,400	115	76	39
25-29	100,083	48,176	51,907	241	146	95	57,584	26,565	31,019	92	53	39	42,499	21,611	20,888	149	93	56
30-34	86,553	42,785	43,768	263	173	90	48,760	23,558	25,202	101	61	40	37,793	19,227	18,566	162	112	50
35-39	72,701	36,197	36,504	280	169	111	40,200	19,857	20,343	117	69	48	32,501	16,340	16,161	163	100	63
40-44	57,722	28,828	28,894	312	212	100	29,887	14,936	14,951	141	88	53	27,835	13,892	13,943	171	124	47
45-49	44,743	22,728	22,015	253	165	88	23,092	11,568	11,524	109	74	35	21,651	11,160	10,491	144	91	53
50-54	35,175	17,656	17,519	305	195	110	17,423	8,451	8,972	122	82	40	17,752	9,205	8,547	183	113	70
55-59	24,918	12,354	12,564	214	133	81	12,465	5,779	6,686	87	58	29	12,453	6,575	5,878	127	75	52
60-64	21,832	10,685	11,147	279	162	117	10,920	5,009	5,911	124	75	49	10,912	5,676	5,236	155	87	68
65-69	13,780	7,031	6,749	237	160	77	6,924	3,346	3,578	103	66	37	6,856	3,685	3,171	134	94	40
70-74	9,902	4,928	4,974	257	159	98	4,823	2,241	2,582	103	64	39	5,079	2,687	2,392	154	95	59
75-79	6,683	2,933	3,750	186	119	67	3,194	1,294	1,900	75	47	28	3,489	1,639	1,850	111	72	39
80-84	5,941	2,161	3,780	185	111	74	2,809	896	1,913	83	46	37	3,132	1,265	1,867	102	65	37

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
85-89	3,957	1,325	2,632	133	65	68	2,004	588	1,416	61	28	33	1,953	737	1,216	72	37	35
90-94	1,570	595	975	115	55	60	754	255	499	42	25	17	816	340	476	73	30	43
95+	1,206	381	825	246	96	150	656	185	471	115	46	69	550	196	354	131	50	81
Oti																		
Total	732,747	369,741	363,006	3,454	2,027	1,427	233,329	115,371	117,958	872	524	348	499,418	254,370	245,048	2,582	1,503	1,079
<1	21,267	10,728	10,539	219	125	94	6,579	3,355	3,224	54	30	24	14,688	7,373	7,315	165	95	70
1-4	85,362	43,334	42,028	190	103	87	25,179	12,846	12,333	52	28	24	60,183	30,488	29,695	138	75	63
5-9	101,749	52,009	49,740	77	44	33	30,748	15,429	15,319	19	11	8	71,001	36,580	34,421	58	33	25
10-14	90,263	47,305	42,958	71	45	26	28,315	14,204	14,111	20	15	5	61,948	33,101	28,847	51	30	21
15-19	76,164	40,316	35,848	89	49	40	25,354	12,755	12,599	26	15	11	50,810	27,561	23,249	63	34	29
20-24	63,319	31,271	32,048	142	100	42	22,126	10,654	11,472	36	26	10	41,193	20,617	20,576	106	74	32
25-29	54,262	26,957	27,305	119	67	52	19,655	9,474	10,181	32	18	14	34,607	17,483	17,124	87	49	38
30-34	48,724	23,759	24,965	183	105	78	16,732	8,172	8,560	47	25	22	31,992	15,587	16,405	136	80	56
35-39	41,960	20,567	21,393	192	111	81	14,083	6,914	7,169	47	30	17	27,877	13,653	14,224	145	81	64
40-44	35,007	17,531	17,476	207	130	77	11,184	5,713	5,471	58	36	22	23,823	11,818	12,005	149	94	55
45-49	27,642	14,303	13,339	201	122	79	8,461	4,363	4,098	36	29	7	19,181	9,940	9,241	165	93	72
50-54	22,378	11,203	11,175	249	146	103	6,598	3,238	3,360	63	37	26	15,780	7,965	7,815	186	109	77
55-59	17,419	8,675	8,744	172	123	49	5,104	2,457	2,647	38	30	8	12,315	6,218	6,097	134	93	41
60-64	15,202	7,566	7,636	211	135	76	4,393	2,110	2,283	55	31	24	10,809	5,456	5,353	156	104	52
65-69	10,015	5,034	4,981	175	124	51	2,807	1,354	1,453	44	32	12	7,208	3,680	3,528	131	92	39
70-74	7,968	3,775	4,193	207	125	82	2,187	1,006	1,181	44	31	13	5,781	2,769	3,012	163	94	69
75-79	5,333	2,207	3,126	151	94	57	1,415	537	878	45	27	18	3,918	1,670	2,248	106	67	39
80-84	4,390	1,624	2,766	164	75	89	1,178	382	796	37	18	19	3,212	1,242	1,970	127	57	70
85-89	2,473	876	1,597	135	76	59	699	220	479	35	19	16	1,774	656	1,118	100	57	43
90-94	1,060	368	692	106	43	63	293	95	198	34	13	21	767	273	494	72	30	42

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
95+	790	333	457	194	85	109	239	93	146	50	23	27	551	240	311	144	62	82
Northern																		
Total	2,275,197	1,123,217	1,151,980	9,297	5,416	3,881	1,063,664	523,744	539,920	3,923	2,192	1,731	1,211,533	599,473	612,060	5,374	3,224	2,150
<1	72,266	36,478	35,788	865	496	369	32,348	16,387	15,961	355	207	148	39,918	20,091	19,827	510	289	221
1-4	327,297	165,040	162,257	1,009	555	454	135,037	68,305	66,732	325	179	146	192,260	96,735	95,525	684	376	308
5-9	349,702	178,181	171,521	415	232	183	147,780	74,986	72,794	132	75	57	201,922	103,195	98,727	283	157	126
10-14	260,597	135,411	125,186	245	135	110	114,320	57,544	56,776	86	46	40	146,277	77,867	68,410	159	89	70
15-19	213,452	111,539	101,913	292	189	103	96,746	48,888	47,858	92	53	39	116,706	62,651	54,055	200	136	64
20-24	210,853	99,634	111,219	309	176	133	101,612	48,172	53,440	102	51	51	109,241	51,462	57,779	207	125	82
25-29	184,409	84,773	99,636	379	215	164	97,359	44,569	52,790	160	86	74	87,050	40,204	46,846	219	129	90
30-34	166,774	76,356	90,418	416	219	197	87,239	41,593	45,646	171	81	90	79,535	34,763	44,772	245	138	107
35-39	123,219	57,486	65,733	378	225	153	65,070	32,048	33,022	184	98	86	58,149	25,438	32,711	194	127	67
40-44	105,615	50,994	54,621	475	293	182	53,229	26,905	26,324	206	123	83	52,386	24,089	28,297	269	170	99
45-49	67,976	34,583	33,393	463	301	162	35,879	18,889	16,990	231	148	83	32,097	15,694	16,403	232	153	79
50-54	54,185	27,381	26,804	554	347	207	27,078	13,682	13,396	274	166	108	27,107	13,699	13,408	280	181	99
55-59	30,845	15,791	15,054	367	236	131	15,804	8,038	7,766	173	107	66	15,041	7,753	7,288	194	129	65
60-64	34,235	16,946	17,289	503	311	192	17,041	8,225	8,816	227	120	107	17,194	8,721	8,473	276	191	85
65-69	18,958	9,648	9,310	384	230	154	9,949	4,996	4,953	164	95	69	9,009	4,652	4,357	220	135	85
70-74	20,560	9,482	11,078	546	320	226	9,774	4,347	5,427	245	128	117	10,786	5,135	5,651	301	192	109
75-79	13,854	5,818	8,036	367	216	151	6,895	2,692	4,203	176	101	75	6,959	3,126	3,833	191	115	76
80-84	12,169	4,472	7,697	503	274	229	6,268	2,049	4,219	243	128	115	5,901	2,423	3,478	260	146	114
85-89	4,584	1,709	2,875	275	159	116	2,447	800	1,647	116	65	51	2,137	909	1,228	159	94	65
90-94	2,320	942	1,378	242	135	107	1,123	384	739	122	66	56	1,197	558	639	120	69	51
95+	1,327	553	774	310	152	158	666	245	421	139	69	70	661	308	353	171	83	88

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Savannah																		
Total	646,781	324,318	322,463	2,696	1,734	962	188,512	93,223	95,289	595	357	238	458,269	231,095	227,174	2,101	1,377	724
<1	17,631	8,697	8,934	128	76	52	5,056	2,491	2,565	30	15	15	12,575	6,206	6,369	98	61	37
1-4	92,174	45,884	46,290	210	115	95	23,251	11,706	11,545	38	18	20	68,923	34,178	34,745	172	97	75
5-9	93,746	48,211	45,535	105	58	47	24,766	12,499	12,267	15	10	5	68,980	35,712	33,268	90	48	42
10-14	72,473	38,019	34,454	79	50	29	20,015	10,074	9,941	14	9	5	52,458	27,945	24,513	65	41	24
15-19	66,471	34,353	32,118	116	82	34	20,118	9,997	10,121	19	13	6	46,353	24,356	21,997	97	69	28
20-24	65,495	31,827	33,668	140	90	50	20,466	9,596	10,870	30	16	14	45,029	22,231	22,798	110	74	36
25-29	52,883	25,651	27,232	154	108	46	18,279	8,520	9,759	31	20	11	34,604	17,131	17,473	123	88	35
30-34	47,129	23,584	23,545	153	99	54	15,226	7,800	7,426	37	21	16	31,903	15,784	16,119	116	78	38
35-39	33,530	16,483	17,047	174	116	58	10,940	5,659	5,281	33	21	12	22,590	10,824	11,766	141	95	46
40-44	29,059	14,311	14,748	151	112	39	8,484	4,418	4,066	40	27	13	20,575	9,893	10,682	111	85	26
45-49	19,161	9,681	9,480	142	99	43	5,777	3,041	2,736	33	25	8	13,384	6,640	6,744	109	74	35
50-54	16,005	8,095	7,910	185	128	57	4,323	2,166	2,157	49	30	19	11,682	5,929	5,753	136	98	38
55-59	9,456	4,789	4,667	121	85	36	2,861	1,411	1,450	25	17	8	6,595	3,378	3,217	96	68	28
60-64	10,158	5,042	5,116	146	99	47	2,786	1,332	1,454	38	25	13	7,372	3,710	3,662	108	74	34
65-69	5,905	2,992	2,913	106	71	35	1,737	873	864	30	22	8	4,168	2,119	2,049	76	49	27
70-74	5,690	2,752	2,938	130	83	47	1,486	685	801	26	11	15	4,204	2,067	2,137	104	72	32
75-79	4,051	1,742	2,309	127	74	53	1,231	466	765	28	17	11	2,820	1,276	1,544	99	57	42
80-84	3,388	1,264	2,124	121	71	50	989	269	720	20	11	9	2,399	995	1,404	101	60	41
85-89	1,239	473	766	84	48	36	425	121	304	27	13	14	814	352	462	57	35	22
90-94	627	266	361	61	40	21	175	57	118	15	10	5	452	209	243	46	30	16
95+	510	202	308	63	30	33	121	42	79	17	6	11	389	160	229	46	24	22
North East																		
Total	651,083	318,713	332,370	2,822	1,731	1,091	207,881	101,105	106,776	741	454	287	443,202	217,608	225,594	2,081	1,277	804

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
<1	21,060	10,477	10,583	197	105	92	6,433	3,205	3,228	50	32	18	14,627	7,272	7,355	147	73	74
1-4	92,030	46,544	45,486	266	131	135	26,779	13,541	13,238	47	21	26	65,251	33,003	32,248	219	110	109
5-9	101,904	52,053	49,851	139	71	68	29,916	15,169	14,747	18	7	11	71,988	36,884	35,104	121	64	57
10-14	81,123	42,043	39,080	63	41	22	24,625	12,541	12,084	11	8	3	56,498	29,502	26,996	52	33	19
15-19	68,830	35,338	33,492	84	51	33	21,769	10,962	10,807	16	10	6	47,061	24,376	22,685	68	41	27
20-24	62,280	29,225	33,055	99	67	32	20,616	9,506	11,110	25	20	5	41,664	19,719	21,945	74	47	27
25-29	49,613	23,659	25,954	113	78	35	17,965	8,349	9,616	29	22	7	31,648	15,310	16,338	84	56	28
30-34	41,815	19,460	22,355	162	101	61	14,990	7,050	7,940	42	24	18	26,825	12,410	14,415	120	77	43
35-39	31,435	14,665	16,770	130	84	46	11,348	5,594	5,754	42	28	14	20,087	9,071	11,016	88	56	32
40-44	26,125	11,921	14,204	159	118	41	9,013	4,345	4,668	57	41	16	17,112	7,576	9,536	102	77	25
45-49	17,852	8,534	9,318	145	108	37	6,233	3,062	3,171	35	27	8	11,619	5,472	6,147	110	81	29
50-54	14,619	6,818	7,801	155	111	44	4,878	2,289	2,589	39	28	11	9,741	4,529	5,212	116	83	33
55-59	9,076	4,136	4,940	97	66	31	2,997	1,361	1,636	29	17	12	6,079	2,775	3,304	68	49	19
60-64	9,546	4,361	5,185	154	100	54	3,102	1,372	1,730	47	27	20	6,444	2,989	3,455	107	73	34
65-69	5,656	2,574	3,082	111	75	36	1,830	822	1,008	35	23	12	3,826	1,752	2,074	76	52	24
70-74	6,181	2,534	3,647	161	108	53	1,912	769	1,143	47	36	11	4,269	1,765	2,504	114	72	42
75-79	4,825	1,816	3,009	146	90	56	1,449	507	942	43	27	16	3,376	1,309	2,067	103	63	40
80-84	3,851	1,340	2,511	113	55	58	1,128	361	767	29	13	16	2,723	979	1,744	84	42	42
85-89	1,993	696	1,297	89	56	33	570	181	389	24	16	8	1,423	515	908	65	40	25
90-94	816	306	510	83	51	32	198	64	134	23	10	13	618	242	376	60	41	19
95+	453	213	240	156	64	92	130	55	75	53	17	36	323	158	165	103	47	56
Upper East																		
Total	1,272,072	617,140	654,932	9,521	5,996	3,525	313,325	150,873	162,452	1,551	984	567	958,747	466,267	492,480	7,970	5,012	2,958
<1	31,867	16,093	15,774	237	134	103	8,331	4,175	4,156	55	33	22	23,536	11,918	11,618	182	101	81
1-4	134,747	68,325	66,422	278	156	122	33,288	16,901	16,387	52	39	13	101,459	51,424	50,035	226	117	109
5-9	167,085	85,468	81,617	144	83	61	39,196	19,829	19,367	20	12	8	127,889	65,639	62,250	124	71	53

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
10-14	154,774	80,616	74,158	112	63	49	34,506	17,228	17,278	16	9	7	120,268	63,388	56,880	96	54	42
15-19	133,073	68,220	64,853	203	135	68	29,094	14,255	14,839	30	18	12	103,979	53,965	50,014	173	117	56
20-24	112,444	54,405	58,039	261	180	81	27,110	12,511	14,599	28	18	10	85,334	41,894	43,440	233	162	71
25-29	99,057	47,910	51,147	383	255	128	28,450	12,835	15,615	54	33	21	70,607	35,075	35,532	329	222	107
30-34	85,932	42,801	43,131	505	351	154	26,654	12,842	13,812	74	55	19	59,278	29,959	29,319	431	296	135
35-39	70,037	34,372	35,665	611	437	174	21,137	10,533	10,604	112	84	28	48,900	23,839	25,061	499	353	146
40-44	59,729	27,657	32,072	664	475	189	16,475	8,207	8,268	123	85	38	43,254	19,450	23,804	541	390	151
45-49	46,956	21,632	25,324	638	457	181	12,708	6,395	6,313	119	92	27	34,248	15,237	19,011	519	365	154
50-54	39,969	17,041	22,928	636	459	177	9,675	4,510	5,165	107	78	29	30,294	12,531	17,763	529	381	148
55-59	27,842	11,810	16,032	517	365	152	6,604	3,064	3,540	90	56	34	21,238	8,746	12,492	427	309	118
60-64	27,146	11,219	15,927	647	418	229	6,119	2,657	3,462	120	80	40	21,027	8,562	12,465	527	338	189
65-69	17,801	7,619	10,182	576	369	207	3,715	1,628	2,087	108	62	46	14,086	5,991	8,095	468	307	161
70-74	18,173	6,963	11,210	676	394	282	3,201	1,257	1,944	105	68	37	14,972	5,706	9,266	571	326	245
75-79	15,771	5,433	10,338	534	305	229	2,505	822	1,683	83	37	46	13,266	4,611	8,655	451	268	183
80-84	15,342	4,533	10,809	639	326	313	2,215	577	1,638	85	48	37	13,127	3,956	9,171	554	278	276
85-89	9,110	2,828	6,282	449	236	213	1,554	373	1,181	68	37	31	7,556	2,455	5,101	381	199	182
90-94	3,394	1,377	2,017	316	141	175	550	175	375	39	13	26	2,844	1,202	1,642	277	128	149
95+	1,823	818	1,005	495	257	238	238	99	139	63	27	36	1,585	719	866	432	230	202
Upper West																		
Total	875,474	427,303	448,171	5,711	3,691	2,020	219,501	105,941	113,560	862	556	306	655,973	321,362	334,611	4,849	3,135	1,714
<1	23,627	11,876	11,751	206	123	83	6,019	3,042	2,977	42	29	13	17,608	8,834	8,774	164	94	70
1-4	96,955	49,119	47,836	254	132	122	23,474	11,813	11,661	31	17	14	73,481	37,306	36,175	223	115	108
5-9	115,764	59,099	56,665	108	69	39	25,778	12,987	12,791	16	7	9	89,986	46,112	43,874	92	62	30
10-14	103,934	53,627	50,307	117	68	49	22,198	10,706	11,492	18	9	9	81,736	42,921	38,815	99	59	40
15-19	88,985	45,383	43,602	110	83	27	19,783	9,055	10,728	12	9	3	69,202	36,328	32,874	98	74	24

Age Group/Region	Total						Urban						Rural					
	Household population			Household deaths			Household population			Household deaths			Household population			Household deaths		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
20-24	82,609	40,383	42,226	169	115	54	22,586	10,321	12,265	18	14	4	60,023	30,062	29,961	151	101	50
25-29	71,125	35,340	35,785	234	162	72	22,882	10,586	12,296	32	22	10	48,243	24,754	23,489	202	140	62
30-34	59,669	29,890	29,779	320	225	95	19,322	9,660	9,662	52	25	27	40,347	20,230	20,117	268	200	68
35-39	48,606	23,599	25,007	378	265	113	15,148	7,814	7,334	60	43	17	33,458	15,785	17,673	318	222	96
40-44	41,111	18,992	22,119	314	243	71	11,381	5,925	5,456	53	38	15	29,730	13,067	16,663	261	205	56
45-49	31,269	14,715	16,554	367	278	89	8,360	4,401	3,959	63	50	13	22,909	10,314	12,595	304	228	76
50-54	26,053	11,201	14,852	369	257	112	6,036	2,865	3,171	60	40	20	20,017	8,336	11,681	309	217	92
55-59	18,942	8,175	10,767	329	246	83	4,293	1,939	2,354	51	40	11	14,649	6,236	8,413	278	206	72
60-64	18,925	7,825	11,100	407	269	138	4,189	1,795	2,394	73	52	21	14,736	6,030	8,706	334	217	117
65-69	12,664	5,465	7,199	332	216	116	2,719	1,226	1,493	56	39	17	9,945	4,239	5,706	276	177	99
70-74	11,285	4,558	6,727	325	203	122	1,904	801	1,103	48	32	16	9,381	3,757	5,624	277	171	106
75-79	8,561	3,128	5,433	289	177	112	1,206	426	780	43	27	16	7,355	2,702	4,653	246	150	96
80-84	7,230	2,214	5,016	350	178	172	1,063	280	783	50	22	28	6,167	1,934	4,233	300	156	144
85-89	5,213	1,574	3,639	284	147	137	769	180	589	29	14	15	4,444	1,394	3,050	255	133	122
90-94	1,937	695	1,242	159	83	76	235	63	172	17	9	8	1,702	632	1,070	142	74	68
95+	1,010	445	565	290	152	138	156	56	100	38	18	20	854	389	465	252	134	118

Note: The figures relate to females in households and stable institutions.

TABLE 5.8: PREGNANCY-RELATED DEATHS OF WOMEN AGED 15-49 YEARS BY REGION AND TYPE OF LOCALITY

Region	Household Deaths			Population of women aged 15-49 years	Pregnancy-related deaths		Maternal Deaths	
	Total	Male	Female		Number	Percent	Number	Percent
All Locality Type								
Total	41,801	25,666	16,135	7,862,676	2,754	100.0	2,323	100.0
Western	2,601	1,534	1,067	529,185	192	7.0	156	6.7
Central	4,207	2,444	1,763	720,282	266	9.7	223	9.6
Greater Accra	4,178	2,330	1,848	1,585,201	255	9.3	219	9.4
Volta	3,143	1,779	1,364	400,983	179	6.5	151	6.5
Eastern	4,475	2,656	1,819	707,978	258	9.4	219	9.4
Ashanti	6,911	4,223	2,688	1,381,599	472	17.1	397	17.1
Western North	1,249	801	448	223,917	88	3.2	69	3.0
Ahafo	782	505	277	136,549	57	2.1	48	2.1
Bono	1,649	1,040	609	308,687	111	4.0	94	4.0
Bono East	1,682	1,078	604	300,699	117	4.2	100	4.3
Oti	1,133	684	449	172,374	68	2.5	58	2.5
Northern	2,712	1,618	1,094	556,933	269	9.8	231	9.9
Savannah	1,030	706	324	157,838	57	2.1	45	1.9
North East	892	607	285	155,148	91	3.3	74	3.2
Upper East	3,265	2,290	975	310,231	178	6.5	157	6.8
Upper West	1,892	1,371	521	215,072	96	3.5	82	3.5
Urban								
Total	17,525	10,360	7,165	4,713,231	1,096	100.0	941	100.0
Western	1,104	642	462	283,704	79	7.2	59	6.3
Central	1,929	1,102	827	435,855	106	9.7	90	9.6
Greater Accra	3,630	2,002	1,628	1,467,292	220	20.1	193	20.5
Volta	825	473	352	178,956	48	4.4	43	4.6
Eastern	1,649	962	687	379,989	84	7.7	73	7.8
Ashanti	3,482	2,059	1,423	884,504	225	20.5	193	20.5
Western North	308	207	101	71,940	16	1.5	14	1.5
Ahafo	356	239	117	69,716	23	2.1	17	1.8

Region	Household Deaths			Population of women aged 15-49 years	Pregnancy-related deaths		Maternal Deaths	
	Total	Male	Female		Number	Percent	Number	Percent
Bono	831	531	300	188,428	45	4.1	42	4.5
Bono East	684	423	261	168,152	47	4.3	39	4.1
Oti	282	179	103	59,550	12	1.1	11	1.2
Northern	1,146	640	506	276,070	106	9.7	92	9.8
Savannah	223	143	80	50,259	10	0.9	9	1.0
North East	246	172	74	53,066	20	1.8	17	1.8
Upper East	540	385	155	84,050	39	3.6	34	3.6
Upper West	290	201	89	61,700	16	1.5	15	1.6
Rural								
Total	24,276	15,306	8,970	3,149,445	1,658	100.0	1,382	100.0
Western	1,497	892	605	245,481	113	6.8	97	7.0
Central	2,278	1,342	936	284,427	160	9.7	133	9.6
Greater Accra	548	328	220	117,909	35	2.1	26	1.9
Volta	2,318	1,306	1,012	222,027	131	7.9	108	7.8
Eastern	2,826	1,694	1,132	327,989	174	10.5	146	10.6
Ashanti	3,429	2,164	1,265	497,095	247	14.9	204	14.8
Western North	941	594	347	151,977	72	4.3	55	4.0
Ahafo	426	266	160	66,833	34	2.1	31	2.2
Bono	818	509	309	120,259	66	4.0	52	3.8
Bono East	998	655	343	132,547	70	4.2	61	4.4
Oti	851	505	346	112,824	56	3.4	47	3.4
Northern	1,566	978	588	280,863	163	9.8	139	10.1
Savannah	807	563	244	107,579	47	2.8	36	2.6
North East	646	435	211	102,082	71	4.3	57	4.1
Upper East	2,725	1,905	820	226,181	139	8.4	123	8.9
Upper West	1,602	1,170	432	153,372	80	4.8	67	4.8

Note: The figures relate household population

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