WEST GONJA DISTRICT

HUMAN DEVELOPMENT REPORT 2007

Vulnerability and the Attainment of the MDGs at the Local Level



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Prepared by

Institute of Statistical, Social and Economic Research (ISSER)





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Forward

His Excellency, the President of the Republic of Ghana, in his sessional address to parliament in 2007, spelt out Government's development agenda for accelerated economic growth. The President's vision is to transform Ghana into a middle income country with GDP of at least 1,000 US dollars by 2015. The main pillars for achieving this growth are human resource development, private sector development and good governance. These are critical for attainment of good indicators for Human Development in the country.

Human Development is central to Government's development agenda. The traditional conceptualisation of well-being in Ghana does not focus only on the income of a person, but also on what a person is capable of doing, as well as, on the physical appearance of the person. The concept of human development may be considered as being well-suited to the average Ghanaian's concept of welfare and standard of living. While improving human health is intrinsically desirable, it is broadly recognised that health is a necessary prerequisite for socio-economic development since it improves human capital, productivity and wealth.

Ghana has produced National Human Development Reports in almost every year since 1997 which more often than not are national aggregation of the human development situation of the country. Useful as these indicators and figures may be, they do not present adequate and relevant micro information for district and local planning and decision making processes. Regional and district level indicators of human development are therefore needed to provide critical information for making decisions on how resources are to be judiciously allocated.

District Human Development reports can be useful to assist district administrations in

tracking progress and feedbacks in their development efforts. In 2004, the first set of district human development report were prepared for three district, Atwima, Builsa and Tema Municipality with the support of UNDP.

The theme of this second set of district human development reports, "Vulnerability and the Attainment of Millennium Development Goal (MDGs) at the Local Levels", which is also supported by UNDP is very appropriate in view of the fact that, empowering the vulnerable and the excluded especially women to contribute to and share in the benefits of growth of the economy ensure sustained poverty reduction. Vulnerability of communities, households and the individuals to negative shocks can impact adversely on the attainment of the MDGs and improvement in human development.

I strongly believed that these district human development reports for the districts will critically unveil the interplay of vulnerability that communities, households or individual faces in order to prevent the occurrences of the negative events or to mitigate or to cope with the impact of the shocks.

I wish to acknowledge the contribution and commitment of all stakeholders in the development of these reports and call on all to acquaint themselves of the content and to realign their support for the implementation of the recommendations of the reports. Through such collective support, we shall achieve the objectives of the GPRS II and the MDGs.

Jon

HON. KWADWO ADJEI DARKO (MP) MINISTER, LOCAL GOVERNMENT, RURAL DEVELOPMENT & ENVIRONMENT

Preface

Since 1997 UNDP Ghana has been working with government to prepare and disseminate national human development reports. The prime objective of the reports is to offer guidance on policies and priorities required at different levels by different actors to keep development actions focused, coordinated and efficacious by presenting systematic account and assessment of social and economic developments in the country from the sustainable Human Development perspective.

In recent times, UNDP Ghana has taken the Human Development Report to the district level to capture more development issues from the grassroots to provide a more indepth diagnostic analysis on key human development issues; raise awareness about the critical development challenges; inform planning and resource allocation; and strengthen the link between national and district development planning frameworks. To this end, three district human development reports were prepared in 2004 - on the pilot districts of Tema, Atwima and Builsa.

These current sets of the District HDRs cover another three (3) districts of Ahanta West, Offinso, and West Gonja in Western, Ashanti and Northern Regions respectively on the theme "Vulnerability and the Attainment of the MDGs at the Local Level". This year's theme is appropriate as it lends credence to the various shocks and risks communities and individuals are exposed to, and its subsequent contribution to the derailment of their efforts to live a meaningful and productive life. It is therefore hope that the reports would lend support to the district medium-term development plan, to further inform the on-going national development plan preparation, and to forge a closer link between these two documents and the GPRS II.

It is heart soothing to know that progress has been made in achieving most of the MDG indicators in health and education in the three districts. It is hope that efforts would be made to sustain the improvement made so far. Improvement in health and education infrastructure, fighting malaria and HIV/AIDS and reducing any form of vulnerability at all levels in the districts are worth undertaking. Increasing the income base of the districts by setting up more economic ventures would go a long way to mobilize revenue for the MDG activities in the districts. The MDGs can and should be achieved at the local levels for national attainment of the MDGs to be a reality. To that effect, all hands must be on deck for the betterment of humankind.

It is our fervent hope and effort that the report is extended to cover more districts, at least ten (10) at a time. With this, more development issues at the district levels would be brought to the fore for more appropriate actions to be taken.

I encourage all national development orientated entities (civil society, development partners, and the government at large) to continue to share their suggestions to the approach to this report as we continue in our efforts to fill the gaps in the design of programs and projects towards the improvement of lives at the district and community level.

DAOUDA TOURE

UNDP RESIDENT REPRESENTATIVE

ACKNOWLEDGEMENTS

The first Human Development Report for West Gonja District has been completed successfully due to the efforts and involvement of various government and nongovernment organisations. The UNDP Office in Accra and the West Gonja District Assembly provided useful assistance in coordinating the preparation of the report.

The overall project was guided by Professor Ernest Aryeetey, Director of the Institute for Social, Statistical and Economic Research (ISSER), University of Ghana, and coordinated by Ms. Abena D. Oduro of the Department of Economics, University of Ghana. Dr. Isaac Osei-Akoto of ISSER was responsible for the preparation of this report. He was assisted by Mr. Rufai Kilu Haruna of the Department of Sociology, University of Ghana, and Mr. William Quarmine of ISSER. The other team members of the District Human Development Reports (DHDRs) 2007 research group, Mr. William Baah-Boateng and Ms. Abena Oduro, drafted sections of the West Gonja report when the main author was bereaved.

The fieldwork received enormous contribution from the leadership of the West Gonja District Assembly, which assumed ownership of the report without hesitation. In particular, the District Chief Executive, Mrs. Janet Jambia Alhassan, the District Coordinating Director, Mr. Kofi Kussachin, and the 2006/2007 National Service personnel attached to the District Assembly worked in diverse ways to make the

Preparation of the report, especially the primary data-gathering component, relatively easy. Our gratitude also goes to Messrs W. A. Tarezina and Haruna Mustapha from the Ghana Statistical Service, who co-supervised the household survey.

The ICT and Geography staff of the Ghana Statistical Service provided noteworthy assistance in extracting information from various datasets which enabled the report to be organised in a manner that is particularly meaningful for district-level analysis. Mr. Nii K. Bentsi-Enchill served as technical editor in the production of the report and his contribution is highly appreciated.

The report was finalised with active participation and in consultation with members of the Economic Policy Unit of the UNDP namely Prof. Amoah Baah-Nuakoh, Messrs. Paul Derigubaa, Kordzo Sedegah, Emmanuel Otoo and Nicholas Amponsah, Ms. Simran Singh, and Ms. Mary Ankrah, particularly the Focal Point for Human Development Reports and Coordinator of the District Human Development Reports, Mr. Kordzo Sedegah. The personal attention given to the entire process by the Resident Representative, Mr. Daouda Toure, is very much appreciated.

The report has also benefited from comments and suggestions made during the stakeholder workshop held in the district after the completion of the draft report.

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EXECUTIVE SUMMARY

Ghana has produced national human development reports almost every year since 1997. A quantitative measure of human development based on UNDP's measure of well-being focuses on three dimensions identified as critical to enlarging people's choices. These are longevity, based on life expectancy at birth; knowledge, which is a composite of adult literacy and enrolment rates at various educational levels; and standard of living, measured by income per capita in purchasing power parity dollars. Due to the lack of adequate district-level data, however, it has not been possible to move the unit of analysis beyond that of the region in many instances. However, regional and district-level indicators of human development are needed to provide information critical for making decisions on how resources are to be allocated at the local level.

District Human Development Reports (DHDRs) can be useful tools to assist district administrations in tracking progress or otherwise in their development efforts, even if timely quantitative measures cannot be produced at the district level. The first set of DHDRs have shown that useful inferences can be made and planning at local level could be made a little easier if the components and factors driving the indicators of the components are thoroughly analysed.

The first set of DHDRs was prepared in 2004 for three districts, the then Atwima District, Builsa District and Tema Municipality. The West Gonja District Human Development Report is one of three similar reports prepared for the second set of DHDRs in three different ecological zones of Ghana. The other districts covered in this set are Ahanta West District in the coastal ecological zone and Offinso District in the forest zone. These reports serve as pilot

reports initiated by UNDP to assess human development at district level. The information and analysis contained in them will assist in the design and targeting of interventions aimed at improving the human development of the population. It is hoped that the reports will therefore be useful in examining important development issues at the district level within a comparative framework.

As with the first set of DHDRs, the theme for this set is vulnerability. This year's theme is also linked to the Millennium Development Goals (MDGs). The overall objective of Ghana's development agenda is to attain middle-income status by 2015. In addition, a social protection policy is being developed that is aimed at "empowering the vulnerable and excluded, especially women, to contribute to and share in the benefits of growth of the economy, thus ensuring sustained poverty reduction." The 2003-2005 Ghana Poverty Reduction Strategy (GPRS I) and the 2006-2009 Growth and Poverty Reduction Strategy (GPRS II) emphasise vulnerability as a critical issue. GPRS I included it as one of the five thematic areas and GPRS II puts it into the mainstream of each of the thematic areas. Vulnerability analysis is thus crucial for understanding poverty and, by extension, human development. We hope that such analysis will lead to the development of strategies which will help the country attain the MDGs and GPRS targets.

Data and Methods

The participatory approach in information gathering was widely used for the preparation of the report. Both qualitative and quantitative methods were used to gather data from three different sources. Information was obtained from official documents, secondary data from various censuses conducted in Ghana and the district-based Core Welfare Indicators

Questionnaire (CWIQ) survey that was conducted in 2003. In addition, ISSER also conducted a socio-economic household survey in 2007. In all, 240 households from 19 localities out of the total of 183 localities in the district were sampled for the preparation of this report. Various consultations were also made to ensure that the interests of stakeholders were addressed and technical omissions minimised.

This report does not calculate a human development index for the district. This is because it was not possible in the time frame within which the report was prepared to obtain reasonable data on district-level income. However, a human poverty index for Ghana was constructed. The construct of this index differed slightly from the construct of the UNDP HPI-1 index by substituting the probability of death before age 40 years with the regional under-5 mortality rate. This substitution was done because of the difficulty in obtaining data for probability of dying before age 40 years at district level.

The report is organised in seven chapters. The chapter after the introduction presents a profile of the district. The next three chapters contain an assessment of trends in employment, poverty, education and literacy, health, water and environmental sanitation. Vulnerability is the subject of the sixth chapter. Challenges and policy recommendations are contained in the last chapter.

Economic Activity and Poverty

West Gonja District is predominantly rural and its economy is built on the natural resource base. The district has an agriculture-based economy, with agriculture, including fishing, employing close to 60 percent of the economically active population. The report reveals signs of gradual structural change. Agriculture's importance in terms of employment has declined considerably from employing about

80 percent of the economically active population in 2000 to the current 60 percent. This decline appears to have been absorbed by industry (particularly manufacturing) and the services sector. In particular, the proportion engaged in the services sector, excluding wholesale and retail trading, has almost tripled over the period 2000 to 2007.

The report highlights a number of problems that inhibit growth in the agricultural sector. They include technology-related methods of farming and marketing of produce, which need urgent policy attention to ensure progress in achieving the poverty reduction targets of the MDGs in the district. As in many other areas in Ghana, agriculture continues to be rain-fed, with limited irrigation. The cropping pattern follows the land fertility pattern and farmers use either inorganic and organic manure or fertiliser. Many farmers use simple tools such as hoes, cutlasses and animal traction. Tractor services are limited: the number of tractors is estimated to be 73 and the tractor-farmer ratio is 1:172.

Even though agriculture employs the majority of the workforce in West Gonja District, there is a clear reduction in the proportion of both women and men employed in agriculture. Women continue to dominate the wholesale, retail and manufacturing sectors. The proportion of women employed in these sectors has more than doubled between 2000 and 2007. However, the report shows that while the proportion of men employed in the formal sector increased since 2000, there was a considerable decline in the proportion of women employed in the formal sector. This is clearly far from expected and does not signify progress towards the third MDG goal promotion of gender equality and empowerment of women which has as one of its indicators the share of women in wage employment in the non-agricultural sector.

On employment, it is reported that the proportion of the labour force which is unemployed in West Gonja District is about 14.5 percent. This represents an increase from 8.5 percent in 2000. A major category of adult unemployment was rural adult females, with an increase of more than 10 percentage points above the rate observed in 2000 to a level of about 19 percent in 2007. Unemployment among the youth was worse. The eighth MDG advocates strategies for decent and productive work for the youth. The analysis shows that no progress has been made towards achieving this goal in the district. The proportion of unemployed youth increased from 5.2 percent in 2000 to 27.4 percent in 2007. While rural male unemployment appears to have been eradicated in the district, unemployment among rural and urban women as well as urban men has worsened.

The report also shows that more people in rural areas (48%) are underemployed compared to people in urban areas (42%). The underemployment rate was highest among workers in agriculture and related sectors (52%) and was mainly due to the fact that the sector is highly dependent on the erratic nature of rainfall in the district.

The results indicate that 4.7 percent of children between 7-14 years were in the labour market in the district. This is very low compared to child labour figures recorded in 2000 in the district and it signals the positive effects of recent interventions in the education sector that seek to keep children of school-going age in school. The situation for girls in rural areas shows a slightly higher number at work in 2007 than in 2000.

With regard to the first MDG which seeks to eradicate extreme poverty and hunger, the extent to which poverty in West Gonja is rising or declining cannot unfortunately be determined with existing data. The only district-level disaggregated data provided by the National Development Planning Commission (NDPC) and the Ghana Statistical Service (GSS) show that the urban and rural areas of West Gonja District were ranked as 27th and 12th poorest respectively among Ghana's 110 districts in 2000. Their respective head count poverty rates were 43 percent and 94 percent; the overall head count poverty for the district was estimated to be 89 percent, and ranked as the 11th poorest district among the then 110 districts of Ghana.

The other approach to indirectly determine the level of poverty is through estimation of the human poverty index. Calculation of this index shows that the situation for the district in 2003 was also significantly different from the national average. An assessment of the components of the index reveals that the district performs worse than the national average on almost all the components of the human poverty index except access to health in urban areas and the proportion of underweight girls in the district. The incidence of underweight children was lower among girls, particularly in urban households. About 32 percent of boys in rural households were underweight compared to 16 percent of girls.

Education and Literacy

Gross primary and junior secondary enrolment rates have improved in West Gonja since 2000. Improvements were registered for both boys and girls. Senior secondary enrolment rates declined for boys but increased for girls over the period. Adult literacy rates in the district are low. However, the relatively high literacy rate among people aged 15 to 24 years indicates that if the increase in enrolment rates is maintained and the quality of education is at the required standard, literacy rates in the district will improve.

Progress towards attaining the education-specific MDGs is mixed. The district has made substantial progress towards universal primary education since 2000. If the rate of increase in school enrolments is maintained, the MDG target of universal primary education by 2015 can be realised. A threat to the attainment of universal primary education in the district is late entry into primary school. This is a threat because if children start school late, they are likely not to complete primary education. This is a particular risk for girls who, when they reach puberty, may be under great pressure to be married off.

The third MDG sets 2005 as the target date for the attainment of gender parity in primary and secondary education. This has not been achieved. Gender parity indices at primary and junior secondary levels declined in 2007 compared to 2000 despite the rise in enrolment rates for both boys and girls. The gender parity index of over unity for senior secondary school does not imply an improvement in gender empowerment because of the very low enrolment rates.

The incidence of irregular school attendance because of illness introduces the risk of children not completing school. The environment in the district may be described as containing health hazards because of the unsafe methods of waste disposal and low incidence of safe sanitation facilities, particularly among rural households. It is, therefore, not surprising that ill-health is the most frequently given reason why children miss some days of school. Thus, failure to make progress on other MDGs can create conditions that compromise the attainment of the MDGs on education.

The district has made great strides in improving enrolment at the lower levels of education and in youth literacy. The challenge the district faces is how to ensure that children start primary school at the age of 6 and complete at least nine years of quality basic education.

Health, Water and Sanitation

The district has nine health institutions made up of one hospital located at Canteen, Damongo, one clinic, six health centres and one CHIPS zone. However, estimates of access to health facilities in the district show that they are not adequate and are also unevenly distributed. One of the important reasons for low physical access is due to the low population density of the district. Whereas about 60 percent of urban households need less than half an hour to reach a clinic or hospital, over 80 percent of rural households have to spend one hour or more to get to a modern health care facility. Another major constraint is the inadequate number of skilled health personnel in the district.

The incidence of child and infant mortality is a critical determinant of life expectancy at birth. However, the mortality situation in the district does not show any sign of improvement. The total number of deaths rose consistently from 64 in 2004 to 89 in 2005 and 98 in 2006. The number of infant deaths almost doubled between 2004 and 2006, after a significant drop in 2005. The institutional estimate for infant mortality is about 122 per 1,000 live births, much higher than both the regional and national ratios of 71/1,000 and 83/1,000 respectively. The number of under-5 deaths also more than doubled over the same period. More positively, the report shows that the under-5 malaria case fatality rate saw consistent decline from 2004 to 2006 and institutional coverage for immunisation against the childhood killer diseases is very impressive despite obvious infrastructural difficulties in the district.

The analysis using both morbidity and mortality statistics suggests that the district has not made significant progress in the last five years in halting and/or reducing the incidence of malaria. This raises concerns about the level of environmental sanitation in the district and the effectiveness of methods

adopted in preventing malaria infection.

While the district was making progress in reducing the incidence of guinea worm infestation and tuberculosis, the HIV/AIDS situation in the district seems to be worsening. The number of HIV/AIDS cases diagnosed dropped marginally from 41 in 2004 to 39 in 2005 and rose to 46 in 2006. The disease is more prevalent among the youth aged 20-24 in that over half the cases reported were among this age group. These statistics send a worrying signal about whether the district can realise the MDG of halting and reversing the HIV/AIDS infection rate.

The district saw a remarkable improvement in access to safe drinking water between 2000 and 2007, particularly in rural areas where access to safe drinking water improved from about 25 percent to over 90 percent. The only exception was one of the towns visited, Larabanga. The construction of boreholes in a number of communities has contributed remarkably to the improvement in access to safe drinking water and this may have largely accounted for the reduction in the reported cases of guinea worm in the district.

Even though access to safe sanitation in 2007 was better than in 2000, overall access is very low, especially among the rural population. This situation may compel households to resort to unorthodox means of human waste disposal, such as defecating in the bush, without regard to its adverse environmental and health consequences. Over 95 percent of rural households were found to be without access to a safe toilet facility in 2007. The situation was relatively better in semi-urban and urban areas where about 25 percent and 40 percent of households have access to a safe toilet facility.

The unsafe disposal of liquid and solid waste in the district is environmentally unfriendly.

This favours the breeding of mosquitoes and other dangerous insects that cause malaria and other parasitic diseases. In all, access to basic sanitation in many communities needs to improve so as to minimise the risk of outbreak of diseases.

The National Health Insurance Scheme (NHIS) aims to increase access to quality health care services by reducing the cost of access, particularly for the poor and deprived. Registration with the NHIS in the district is well above the national rate mainly because the district hosted one of the pilot schemes in Ghana and has been operating since 1995. Even though over 50 percent of the population is not registered or covered, the scheme has seen significant improvement in uptake by the citizenry. About 25 percent of the population is registered and 23 percent is covered by the implicit exemption built into the NHIS. The selection of high-risk individuals by households into the scheme, even among the wealthiest remains a major problem. There is also the need to look at the sustainability of the scheme because of the low number of times subscribers renew their membership. The proposal to redirect NHIS subsidies to school children appears laudable and should be carefully studied to address the increasing concerns over sustainability.

Vulnerability

The reports brings to fore the understanding that households currently seen as non-poor might face negative shocks in the future that lower their level of well-being. This is a very broad conceptualisation of vulnerability (indeed broader than the District Assembly's concept) because it is a multi-dimensional phenomenon. The definition looks at several aspects of livelihood issues such as illness, unemployment, changes in family structure or negative events such as sexual abuse.

The discussion of vulnerability therefore seeks to understand the capacity or otherwise of households in the district to cope with shocks. The analysis considers the nature of shocks in the district, the frequency of shocks and the groups vulnerable to these shocks. It also describes coping mechanisms of households to counteract these shocks.

The findings are that at least 50 percent of households in the district experienced one or more shocks over the 12 months which preceded the survey. The highest occurring number of shocks was one (about 20 percent of households), while 15 percent of female-headed households and 20 percent of male-headed households experienced two shocks, and 10 percent of female-headed households and 12 percent of male-headed households experienced three shocks in the year.

The report also observes that vulnerability is highest in semi-urban and rural communities. The differences may arise from the fact that urban households have a more diversified occupational base while households in rural areas are concentrated in agriculture, which records the largest number of shocks for households due to the seasonality of the occupation.

Shocks were classified in different ways but the majority of households reported that the shocks they faced were human related (47%) compared to the 23 percent of households that reported shocks resulting from natural events. Asset loss is an important human-related shock in West Gonja District that affects more than a third (35%) of households. This event is largely due to the loss of livestock either through death or through theft. Stakeholders' discussions pointed to difficulties the communities face with regard to the activities of Fulani herdsmen in particular. The communities complained of environmental destruction, destruction of farms and organised stealing of livestock,

which have to be tackled to avoid deadly encounters with the Fulani herdsmen and their collaborators.

Policy-induced shocks resulting from price changes (such as utility price increases) also affected households in several ways. Logically, it would appear that rising food prices would increase the incomes of food farmers. However, affected households indicated during interviews that higher food prices reduced their real incomes. Part of the explanation lies in the tendency of farmers to sell their produce to meet urgent social obligations immediately after harvest when prices are low. They then buy back the produce during the lean season when prices are highest. It is reported that about 50 percent of farmers' produce may be sold off to meet social obligations. Thus, high food prices tend to adversely affect farmers' real incomes, their ability to cope with food shortages during the lean season, and the extent of assets loss as they sell livestock and other assets to purchase food.

There are several mechanisms to cope with shocks in the district but the survey shows that when a disaster strikes, households' main strategy is to rely on self-help strategies or self-insurance and the least common strategy is to receive help from the government or other forms of institutional assistance.

Challenges and Recommendations

There are several challenges that threaten progress towards the achievement of the MDGs in the West Gonja District. The major challenge f is how to significantly reduce mass poverty in excess of 80 percent to levels consistent with the MDG on poverty. The analysis has shown that mass poverty is the result largely of low agricultural productivity and production, and the lack of other income-earning opportunities. Reducing poverty, therefore, must involve policies and programmes to increase

agricultural productivity and production among small-scale farmers while at the same time creating opportunities for nonfarm income-generating activities and employment. Specific actions should include reversing the decline of soil fertility and erosion. Inappropriate farming methods arising out of inadequate and ineffective use of extension services also need to be addressed.

Increasing utilisation rates and access to economic and social facilities is one of the fundamental challenges in the district. Access and utilisation involve the physical availability and distribution of facilities, and education of the population to ensure effective use of available opportunities. Health care delivery in the district is inadequate. There is a need for expansion of health infrastructure and provision of more skilled personnel. The bulk of the population have no access to sanitary toilet facilities and over 60 percent of the population use uncontrolled dumping for the disposal of both solid waste and household sewage. The report notes that net enrolment rates are extremely low, particularly at secondary school level. The gap between these rates and the MDGs for education is also wide, and requires special efforts to bridge it.

The deplorable road network in the district is perhaps the most problematic situation the residents face. This is especially the case during the rainy season when very few roads are motorable, thereby seriously reducing access to and within the district. Reasons for this are the very sparse distribution of the population coupled with the long delays in constructing two important bridges that would link the otherwise cut-off northeastern parts of the district. With the exception of the district capital, the district does not have a single kilometre of tarred road and most of the roads become almost completely unmotorable at the peak of the rainy season.

What appears to be the most difficult challenge confronting the district is creating non-farm employment opportunities and income-generating activities, particularly for the youth. These activities are required in order to reduce the extreme vulnerability of the population to weather-related shocks. However, the labour force is largely unskilled, the investment environment is unattractive, and there are limited avenues to harness the natural resource endowment. The result is the dominance of petty trading and increasing migration of the youth to big towns outside the district. Creating opportunities for the growth of small-scale industries such as smock weaving, processing of farm produce and honey production is commendable, but unless they are combined with marketing arrangements outside the district, they will not be sustainable. Infrastructure development, especially good roads within the district, is crucial in this regard.

The district stands to benefit a lot from its tourism potential if it is properly harnessed. However, the growing reliance of families on charcoal production, organised theft of livestock and the apparent increase in conflict between villages and officials of the Forestry Department over the use of forest products pose a dangerous threat to the rich natural resource endowment of the district. Indeed, these pose a serious challenge to the livelihood of the people on one hand, and on the other hand, on the sustainability of biodiversity. This challenge needs immediate and pragmatic policy attention.

To avoid unplanned destruction of natural resources in the district, there is the need to establish woodlot plantations for firewood and charcoal, implement controls to minimise organised stealing of livestock and encourage community-based eco-tourism for the communities to benefit directly from tourism.

The report echoes the view that there is considerable mileage in the use of the District Assemblies Common Fund (DACF) to meet development requirements if there is efficiency in its use and central government authorities show some flexibility. Also, ingenious ways of mobilising local revenue need to be found if the district is to make faster progress towards its stated goals.

With regard to participation, citizens are not well integrated into the planning process. The dormant Area Councils should be revived so that through them, the citizenry can be involved, particularly in the monitoring of expenditure allocations and the implementation of projects at local level.

In summary, the report reiterates the need to protect incomes and expenditures from

falling to unacceptable levels. Reducing poverty and vulnerability is high on the national policy agenda and is also clearly spelled out in the district's medium-term plan for the period 2006-2009. However, in terms of addressing vulnerability, most of the development programmes may be described as safety ropes rather than safety nets. In addition to programmes, which are mainly designed for the physically challenged and women, it is also necessary to re-assess the strategy mix to address other vulnerable groups by providing safety nets to protect incomes and expenditures from falling. In particular, the rural areas of the district need counter-cyclical social risk management policies, which strengthen current disaster management programmes and expand the role of social assistance.

CHAPTER ONE

INTRODUCTION

Introduction

The traditional conceptualisation of wellbeing in Ghana does not focus only on the income of a person, but on what a person is capable of doing and also on the physical appearance of the person. Indeed an increase in body weight is looked on with favour and seen as an indication of improvement in one's situation in life. The concept of human development, therefore, may be considered as being well-suited to the average Ghanaian's concept of welfare and standard of living. This is because UNDP's concept of human development is intended to extend the measure of the standard of living or well-being beyond income to incorporate other important nonincome dimensions of living or being. Although income is important in determining a person's access to food, clothing and the other basics of life, the correlation between well-being and the income level of a person is not perfect. This is because in assessing their circumstances in life, poor people do not focus only on the purchasing power of their incomes. According to Sen, "income may be the most prominent means for a good life without deprivation, but it is not the only influence on the lives we can lead. If our paramount interest is in the lives that people can lead (the freedom they have to lead minimally decent lives) then it cannot but be a mistake to concentrate exclusively only on one or the other of the means to such freedom".1 Building on Sen's analysis of poverty and

capability, UNDP defines human development as a process of enlarging people's choices. The most critical of these choices are: the option to lead a long and healthy life, to be knowledgeable and to enjoy a decent standard of living.

UNDP has since 1990 provided a quantitative measure of human development. The measure focuses on the three dimensions identified as critical to enlarging people's choices. Longevity is measured by life expectancy at birth. Knowledge is a composite of adult literacy and gross primary, secondary and tertiary enrolment rates. The standard of living is measured by income per capita in purchasing power parity dollars. The human development index (HDI) is a composite of these three variables (Box 1.1). Ghana's human development index is estimated to have risen from 0.515 in 1990 to 0.537 in 1995. It rose to 0.560 and 0.568 in 2000 and 2002 respectively. It is estimated to have declined to 0.532 in 2004, which gives Ghana a rank of 136th out of 177 countries with data (UNDP, 2006)².

The national aggregate figures mask critical information on regional and district-level disparities. It does not provide information on progress made, or the lack of it, by different groups in the country. The gender-related development index (GDI), also introduced by UNDP, is an attempt to incorporate the gender aspects of the three dimensions of human development³.

¹ Sen, A. (2000) Social Exclusion: Concept, Application and Scrutiny, Social Development Papers No. 1, Asian Development Bank, Manila, p.3.

² UNDP Human Development Report, 2006, New York

³ This is a composite index that adjusts the average achievement of each country in life expectancy, educational attainment and income to take into account the disparity in achievement between women and men.

Ghana's GDI was 0.528 in 2004 and was 99.2 percent of its HDI value. Out of the 136 countries with both HDI and GDI values, 70 countries had a better ratio than Ghana's in that year (UNDP, 2006).

Ghana has produced national human development reports almost every year since 1997. Regional and district-level indicators of human development are needed to provide information critical for making decisions on how resources are to be allocated. District human development reports can be a useful tool to assist district administrations in tracking progress or otherwise in their development efforts. It was only in 2004 that the first set of District Human Development Reports (DHDRs) was prepared for three districts, the then Atwima District, Builsa District and Tema Municipality. This report is one of three

similar reports prepared for the second set of pilot DHDRs in three different ecological zones of Ghana. The other districts covered in this set are Ahanta West District in the coastal ecological zone and Offinso District in the forest zone.

The theme for this second set of District Human Development Reports is vulnerability and the attainment of the Millennium Development Goals (MDGs). Vulnerability was one of the five themes of the 2003-2005 Ghana Poverty Reduction Strategy (GPRS I). The overall goal of Ghana's development agenda is to attain middle-income country status by 2015. In addition, a social protection policy is being developed that is aimed at "empowering the vulnerable and excluded, especially women to contribute to and share in the benefits of

Box 1.1. Calculating the Human Development Index

Calculating the Human Development Index

The Human Development Index (HDI) is a summary measure of human development. It measures the average achievements in a country in three basic dimensions of human development:

- A long and health life, as measured by life expectancy at birth.
- Knowledge as measured by the adult literacy rate (two-thirds weight) and the combined primary, secondary and tertiary gross enrolment ratio (one-third weight).
- A decent standard of living, as measured by GDP per capita (PPP US\$).

Before the HDI is calculated, an index needs to be created for each of the dimensions. To calculate these dimension indices, minimum and maximum values (goalposts) are chosen for each underlying indicator.

Performance in each dimension is expressed as a value between 0 and 1 applying the following general formula:

 $Dimension = \frac{actualvalue - \min imumvalule}{\max imumvalue - \min imumvalue}$

The HDI is calculated as a simple average of the dimension indices.

Goal Posts for calculating the HDI

Goal Posts for calculating the fibi		
Indicator	Maximum Value	Minimum Value
Life Expectancy at Birth	85	25
Adult Literacy Rate (%)	100	0
Combined Gross Enrolment Ratio (%)	100	0
Gross Domestic Product per capita (PPP US\$)	40,000	100

Source: UNDP Human Development Report, 2004. New York.

growth of the economy, thus ensuring sustained poverty reduction." In contrast to GPRS I that included vulnerability as one of the five thematic areas, the Growth and Poverty Reduction Strategy (GPRS II) puts vulnerability into the mainstream of each of the thematic areas. 5

The adoption of the Millennium Declaration by Heads of State in September 2000 formally introduced the MDGs onto the development agenda. The MDGs were the result of the thinking that began in the mid-1990s on strategies to improve the effectiveness of aid. The MDGs consist of 8 goals, 18 targets and 48 indicators (Box 1.2 and Appendix Box 1.1). The MDGs have become an integral part of Ghana's development strategy. GPRS II "...seeks to operationalise various international agreements which are relevant to the poverty reduction objectives and of which Ghana is signatory. Principal among these is the Millennium Development Goals (MDGs)..."6 A synergy has been created between the Heavily Indebted Poor Countries initiative and the MDGs by the transformation of the latter "into the mandatory framework of domestic economic policy in return for the grant of debt relief." As a result of this, in both GPRS II and district development plans, there is a matrix indicating the link between identified priorities and the MDGs.

There is some overlap between the measures of human development, human poverty and the gender development indices on the one hand and the MDGs on the other. However, the MDGs do not include dimensions such as human security and participation. The

MDGs place great emphasis on targets debatable though they may be while the human development concept, although concerned with improving well-being, does not have any explicitly stated goals or targets.

The vulnerability of communities, households and individuals to negative shocks can have a negative impact on progress towards the MDGs and improvements in human development. Vulnerability is the interplay of shocks that the community, household or individual faces, the assets of the community, household or individual and the ability to manage assets in order to prevent the occurrence of negative events or to mitigate or cope with the impact of shocks. The desire of poor households to have security of income and to protect consumption levels from declining below the critical minimum influences their production and investment decisions. Being risk averse and lacking the means to manage risk, for example, access to credit, poor households will choose activities that have low but certain returns.

Thus, vulnerability elicits from poor households actions that can keep them at low income levels and put the local and macro-economy on a lower growth trajectory than otherwise would be the case if poor households had more income, political and social security. The death of a breadwinner can result in a child being withdrawn from school, thus increasing the probability that the child will not complete school. Droughts or floods that destroy harvests can force households to reduce consumption to levels that compromise the

⁴ Republic of Ghana (2005) Growth and Poverty Reduction Strategy (GPRS II) (2006-2009. Vol. I: Policy Framework. National Development Planning Commission, Accra, p. 5

The three thematic areas of GPRS II are private sector-led competitiveness, human resource development and good governance
Republic of Ghana (2005) Growth and Poverty Reduction Strategy (GPRS II) (2006-2009. Vol. I: Policy Framework, National Development Planning Commission, Accra, p. 5

Republic of Ghana (2005) Growth and Poverty Reduction Strategy (GPRS II) (2006-2009. Vol. I: Policy Framework, National

growth and development of children, making them vulnerable to illness, and leaving them with poor learning abilities that undermine their interest in attending school. Vulnerability analysis is crucial for understanding poverty and, by extension, human development and for the development of strategies to attain the MDGs and GPRS targets.

Box 1.2: Millennium Development Goals and Targets

Goal 1: Eradicate Extreme Poverty and Hunger

Target 1: Halve Between 1990 and 2015, the proportion of people whose income is less than one dollar a day

Target 2: Halve between 1990 and 2015, the proportion of people who suffer from hunger.

Goal 2: Achieve Universal Primary Education

Target 3: Ensure that by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling.

Goal 3: Promote Gender Equality and Empower Women

Target 4: Eliminate gender disparity in primary and secondary education, preferably by 2005, and in all levels of education no later than 2015.

Goal 4: Reduce Child Mortality

Target 5: Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate

Goal 5: Improve Maternal Health

Target 6: Reduce by three-quarters, between 1990 and 2015, the maternal mortality ratio

Goal 6: Combat HIV/AIDS, malaria and other diseases

Target 7: Have halted by 2015 and begun to reverse the spread of HIV/AIDS

Target 8: Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases.

Goal 7: Ensure Environmental Sustainability

Target 9: Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources

Target 10: Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation

Target 11: By 2020, to have achieved a significant improvement in the lives of at least 100 million slum dwellers

Goal 8: Develop a Global Partnership for Development

Target 12: Develop further an open, rule-based predictable, non-discriminatory trading and financial system

Target 13: Address the special needs of the least developed countries.

Target 14: Address the special needs of landlocked developing countries and small developing States

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term

Target 16: In cooperation with developing countries, develop and implement strategies for decent work and productive work for youth

Target 17: In cooperation with pharmaceutical companies, provide access to affordable essential drugs in developing countries.

Target 18: In cooperation with the private sector, make available the benefits of new technologies, especially information and communications

Data and Methodology

Both quantitative and qualitative methods were used to gather data from three different sources for the preparation of this report. Information was obtained from official documents, secondary data from various censuses conducted in Ghana, and data extracted from the district-based Core Welfare Indicators Questionnaire survey that was conducted in 2003 (CWIQ, 2003)⁸. ISSER also conducted a socioeconomic survey in the chosen districts in March and April 2007 and consulted various stakeholders to ensure that their interests were addressed and technical omissions minimized.

Secondary data sources

Some aspects of the district's profile were obtained from documents prepared by the District Assembly for its programmes, as presented in the Medium-Term District Development Plans prepared for the implementation of the Growth and Poverty Reduction Strategy at district level.

In addition, various departments of the District Assembly provided information on its activities over the last five years. This gave the team insights into the economic and social conditions in the district and the strategies that have been adopted and implemented to address human development issues.

An important source for additional secondary data was the census report for

2000. Data from the 2000 Population and Housing Census were extensively used to obtain district-level information on population dynamics, housing characteristics, employment and education.

Primary data collection

Interviews conducted in the district involved qualitative and quantitative techniques, principally to gather information on various dimensions of the MDGs and also for the assessment of the vulnerability component of the report. Two main questionnaires were used for this purpose: community (a check list of services and infrastructure available in addition to detailed discussion on development issues) and household questionnaires. The community questionnaire was completed during group discussions with traditional leaders of the communities, members of the District Assembly resident in a community and opinion leaders. The objective of the questionnaire was to obtain information about the socio-economic development of the communities visited, land tenure arrangements, trends in crime, and shocks that the communities have experienced, and community-level actions taken to deal with shocks.

The household questionnaire is separated into different modules answered by different members of the household and was also designed in such a way as to address issues concerning different targets of the MDGs measurable at district level. The questionnaire also covered information on

The CWIQ 2003 survey was conducted before West Gonja District was split into two and as such, estimates derived from it may not directly reflect the status of the localities as they were in 2003. Efforts by the team to sort out enumeration areas covered in the old district and extract information pertaining to the current boundary, as was done for the 2000 census, were not successful Because of this lack of direct comparability, the analysis of household data in this West Gonja Report compares the information from the 2007 ISSER Household Survey only to information from localities in the current district boundary as captured from the census. However, where it becomes difficult to find comparable indicators in the census data, the old district data in CWIQ 2003 are used as a proxy for the new district.



A focus group discussion session at Kabampe, West Gonja District

the different types of shocks that households have been subjected to, the risk management strategies adopted by households and others, and the effect of the shocks on households.

Sampling techniques

For comparability with CWIQ 2003 data, a two-stage sampling procedure was employed with the objective of generating results that are representative of each of the three districts. The approach was multistage probability sampling, clustered, and stratified with probability proportional to the size of the district's population. Sampling was independently done for each district.

Well-defined enumeration areas (EAs) from the Ghana Statistical Service (GSS) database were randomly selected. The enumerations areas were properly described by the cartography section of GSS and had welldefined boundaries, identified on maps, and were of relatively small sizes, with cluster of households. These clusters are demarcated along the lines of the proven process used by the GSS in its implementation of Ghana Living Standards Surveys (especially GLSS III, IV and V) and CWIQ I and II. The selected EAs or communities were listed fully to determine the total number of households and this served as a sampling frame from which an appropriate sample size was selected systematically for each stratum in the district. This was done to facilitate a manageable interviewer workload within each sample area and also reduce the effects of intra-class correlation within a sample area on the variance of the survey estimates.

An enumeration team (consisting of the researcher responsible for the district, a supervisor and a number of interviewers chosen and hired from the district) listed all

Preparing for the Implementation of the Study

The choice of the districts was determined by UNDP. Prior to the start of the study, a visit was made to the districts. The meeting essentially provided the officials of the district with background information on the study and a discussion of the needs of the research team. Present at the meeting were representatives of several of the decentralised ministries, departments and agencies (MDAs) in the district.

Letters were sent out to the District Chief Executive and copied to the heads of the MDAs informing them about the actual period for data collection. Attached to the letters were the data requirements that the team hoped the district administration could assist it with.

households in each of the chosen enumeration areas. This was important because some of the enumeration areas had changed in size in the seven years since the 2000 Population and Housing Census was done and the sampling approach at this stage did not consider their sizes before the selection. An equal number of households were selected in each enumeration area. The listing information was therefore needed to compute appropriate weights for proper estimation to be done at the analysis stage.

Stratification

The technique of stratification in the sample design was employed to enhance the precision and reliability of the estimates. The stratification of the frame for the survey was based on the size of the locality the enumeration area was chosen from, that is, whether the locality was urban, semi-urban

or rural. Sampling within each stratum was done independently of others and the approach of picking the number of enumeration areas in each stratum was proportional to the population size in each stratum. This was followed by systematic sample selection within each stratum. In all, a minimum of 200 households were chosen from 10 EAs.

In West Gonja District, 240 households were selected for this study from 10 EAs. In addition to the administration of the household survey, focal group discussions were conducted in five of the communities. The list of enumeration areas sampled for West Gonja District report is presented in Appendix Table 1.1. In all, 240 households from 19 localities out of the total of 183 localities in the district were sampled for the preparation of this report.

CHAPTER TWO

PROFILE OF THE DISTRICT

The profile of any given locality serves as an information bank with regard to the vulnerability of its population to natural as well as human-made risks and shocks, their management arrangements and adaptation challenges. This section gives a brief sketch of the physical conditions and social realities of West Gonja District in the Northern Region of Ghana.

Physical Features

West Gonja District is one of the 18 districts in the Northern Region of Ghana, with a total land area of 8,352 square kilometres. This represents about 12 percent of the total land mass of the region. The district lies between longitudes 1° 5" and 2° 58" West and latitudes 8° 32" and 10° 2" North. It shares boundaries in the south with Central Gonja District, Bole and Sawla- Tuna- Kalba Districts in the west, Wa East District in the north-west, North Mamprusi in the north, and Tolon Kumbungu District in the east.

West Gonja District has an undulating topography, with an altitude of between 150-200 metres above sea level. The only high land is the Damongo Escarpment, located north of the district capital. There are a few outcrops of weathered rocks around Daboya. The Mole River from the northern boundary joins the White Volta east of Damongo and this joins the Black Volta near Tuluwe in the Central Gonja District. The White Volta River also passes through the eastern boundary of the district.

The district is situated in an old geological area. The rocks are mainly of Voltaian formation with isolated Cambrian rocks, which contain valuable minerals such as gold, mudstones and sandstones in the Alluvial Damongo formations. The extreme western part of Damongo is composed of granitic material of low fertility. Rich alluvial sandy deposits occur around Damongo and the Kenikeni Forest Reserves. The soils around Mankarigu, Kotito and Lingbinsi are said to be fertile and suitable for cereals, legumes and root crops, and also for livestock production. Underground water potential is limited due to the Voltaian formation.

Forest and Game Reserves

The largest forest reserve in Ghana, the Mole Park is located in the district. It is about 30 km west of Damongo and has been judged to be one of the best managed game and wildlife parks both in Ghana and in Africa south of the Sahara. The park covers an estimated 5,500 hectares and is a major tourist attraction in the northern part of Ghana. The other forest reserve is the Kenikeni Forest Reserve. They are both rich in flora and fauna. There are other minor forest reserves Damongo Scarp, located north of Damongo; Nyangbong, located south east of Damongo; Bombi, situated after the Damongo Hospital towards Kotito No.1; and the Damongo Town Plantation, situated after the Agriculture Settlement, east of Damongo.

Vegetation and Climate

One of the targets of the seventh MDG is to reverse the loss of environmental resources but it appears that not much progress has been made in West Gonja District towards attaining this target. The vegetation of the district is Guinea Savannah. The vegetative cover is dictated by soil type and human activities, such as shifting cultivation and the slash-and-burn method of land preparation.

The introductory parts of the Medium-Term Development Plan clearly states that the original vegetation in major settlements such as Damongo, Busunu, Mankarigu and Daboya have been destroyed by human activities. As one drives through the length

and breadth of the district, one deliberately set to hunt for animals and also to help households prepare firewood for sale. Cutting trees for charcoal is also common in almost every settlement of the district.

The major tree species are sheanut, dawadawa, baobab, acacia, nim and a few ebony trees. The trees are scattered except in most valleys where isolated woodland or forest are found. Most trees are deciduous, shedding their leaves during the dry season in order to conserve water. Grass grows in tussocks and may reach 2.7 metres in height during the rainy season. This indicates that the area is suitable for crops such as millet, sorghum, maize and groundnuts.



Picture of secondary forest allegedly burnt to hunt animals and prepare trees for firewood

The district has a tropical savannah climate with the maximum temperature occurring in the dry season, between March/April and is lowest between December/January. The mean monthly temperature ranges between 27°C and 34.1°C. Temperatures in the dry season can reach a maximum of about 42°C. The dry season is characterized by the harmattan wind, which is dry, dusty and cold in the morning and very hot at noon. Evaporation is very high, causing soil moisture deficiency. Humidity is very low and many people get dry skin and cracked lips.

The district has a single rainfall regime, with average annual precipitation of 1,144 mm. The rainfall pattern is erratic. In some months of the dry season of November to March, little or no rain is recorded. The onset of the rains sometimes comes as early as

February but most times, reasonable precipitation begins in late April; it builds up in August and ends in late-October. There is more frequent rainfall in June, with a prolonged dry spell in July. The rains are stormy and torrential up to 300 mm per hour especially in August and September, making erosion and floods commonplace around that time.

Demographic Characteristics

The demographic characteristics of West Gonja District such as large household sizes, and high infant and child mortality rates are similar to other rural districts in Ghana. There are also marked differences. The 2000 Population and Housing Census, for instance, revealed that the district has an average household size of about eight, while



Figure 2.1Seven Year Average Monthly Rainfall, 2000-2006 (mm)

Source:Computed from rainfall data obtained from the Meteorological Service, West Gonja District, Damongo

the national average is five people per household. The major demographic indicators and their implications for development are presented below.

Population Size and Density

West Gonja District has a population of 63,737, according to the 2000 Population and Housing Census. This gives a population density of 7.6 persons per sq. km, which is below the regional density of 25.9 persons per sq km. However, the district population growth rate of 3.1 percent is higher than the national (2.7%) rate and the regional (2.8%) rate respectively. The projected population for the year 2007 is 79,183.

The sex ratio of the population was 100.1 males to 100 females in 2000. This is slightly higher than the regional ratio and much higher than the national ratio, and is informed by the fact that females are more mobile and are more likely to migrate outside the district than their male counterparts. Another fact is that there is enough arable land for the men, who are mainly farmers.

Age Structure

In general, the population structure of the district is in the form of a broad-based pyramid that tapers to the top, indicating a concentration of the youth at the base. This is typical of the age structure in developing economies where there is often too much demand on the national and local government structures to provide services consumed by children and youth. The age structure follows that of the regional pattern. The 0-14 year age cohort constitutes 47.3 percent of the total population, while those aged 65+ comprise 4.5 percent (Ghana Population and Housing Census, 2000).

The economically active population (16-60 years cohort) constitutes about 52.1 percent of the population, thus creating a high dependency ratio in West Gonja District. This is slightly higher than the regional ratio and about 5 percent higher than the national dependency ratio. The social security implications for the aged population are a little better than the national situation. The number of economically active people responsible for one elderly person (65 years

Table 2.1: Basic Demographic Indicators in 2000

	West Gonja*	Northern Region	Ghana
Population	63,737	1,820,806	18,912,079
Density (pop./km²)	7.6	25.9	79.3
Growth rate (%)	3.1	2.8	2.7
% Urban	22.7	26.6	43.8
Sex ratio (number of males to 100 females)	100.1	99.3	97.9
% of population age 0-14 years	47.3	46.2	41.3
% of population age 65+	4.5	4.5	5.3
Potential support ratio	7.4	7.3	7.1

Data are derived from localities in the Statistical Service's 108 Enumeration Areas that are within current West Gonja District boundaries
 Source: Authors' calculations from 2000 Population and Housing Census data

and over) is about 7.4, as compared to the national figure of 7.1. However, due to the high unemployment and underemployment rates in the district (see chapter 3 below), the real dependency ratio could be higher and the situation can have a negative impact on development.

Living arrangements continue to be predominantly traditional. Less than 20 percent (17.9%) of households in 2000 were headed by women and the households also contained significant numbers of people (20.1%) that are not close relatives of the head or spouse of the household.

Migration and Urbanisation

Migrating outside the district has very serious consequences for the development of the district for example, loss of productive labour although it can lead to positive effects in the long term. Information from the census indicates that there is a significant deficit of males in the 20-24, 24-29, 30-34 and 35-39 age groups (Figure 2.2). The groups represent the young adult population

and their situation may be attributable to a strong out-migration of males in search of jobs. It is also very disturbing that the district has a deficit of females in the teen age groups. This is particularly the case for the 15-19 age group, which has a female deficit of nearly 7,000. It shows the extent to which girls in the district migrate to bigger towns to do menial jobs (such as kayayoo) instead of staving in and reaching higher levels of school or learning vocational skills.

This out-migration of the youth explains why the bigger towns in the district have not seen much growth since the 1984 census (Table 2.2). Whereas population growth for the district is 3.1 percent per annum, the rate for the district capital is only 0.9 percent per annum. The rates for the second and the fourth largest towns (Daboya and Larabanga) are also lower than the district growth rate. The tenth largest town, Achubunyor, had a marginal fall in population between 1984 and 2000. This translates to an urban population of 22.7 percent, which is much lower than the national proportion because of fewer opportunities for the youth in the district.

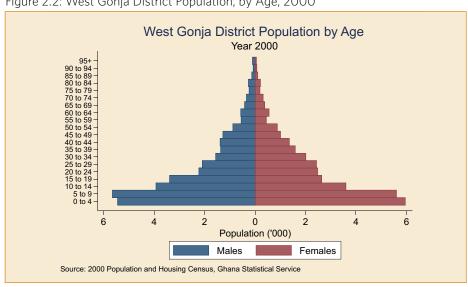


Figure 2.2: West Gonja District Population, by Age, 2000

Table 2.2: Population of 10 Largest Towns in West Gonja District, 1970-2000

	Population			Growth rate		
	Be		Between 1984	Between 1970		
Locality	2000	1984	1970	& 2000	& 1984	
DAMONGO	14,442	12,522	7,760	0.9	3.5	
DABOYA	4,740	3,111	1,872	2.7	3.7	
LINGBINSI	3,263	1,732	869	4.0	5.0	
LARABANGA	2,971	1,847	1,040	3.0	4.2	
MANKARIGU	2,504	1,225	563	4.6	5.7	
LUKULA	1,924	868	851	5.1	0.1	
BUSUNU	1,819	1,117	1,087	3.1	0.2	
YABUM (YAGBUM)	1,686	-	-	-		
SINGA	1,450	803	478	3.8	3.8	
ACHUBUNYOR	1,161	1,180	15	-0.1	36.6	

Source: Ghana Statistical Service, 2000 Population and Housing Census

The 10 largest localities (in terms of population) contain 56.8 percent of the district's population, implying that the other 173 localities are small and dispersed in the vast geographical size of the district. They are also mostly inaccessible, especially during the rainy season.

In-migration is also low even though there is recent evidence of increasing movement into the district as compared to the period over 25 years ago (Figure 2.3). About 79 percent of the population was born in the district. The majority (25.1%) of those who were not born there moved into district within the last 25 years for various reasons.

The socio-economic survey conducted by ISSER for this report shows that a third of in-

migration consists of farmers in search of farmland (33.6%). A little over half moved into the district to join family members (52.0%); other in-migrants include tourists who visit the Mole National Park and religious people who visit Larabanga for religious activities. A significant number of in-migrants in Damongo (18%) were students who went there to attend senior secondary school (SSS), the Agricultural College and other schools at the lower level.

Nearly half the in-migrants were Gonja (49.3%) and about a third were from other ethnic groups in northern Ghana (34.3%). This trend of in-migrants further increases the degree of homogeneity of the district, which can be described as mainly Gonja and Muslim.

Table 2.3: Population Born in the District (%)

		_
Born in this town	Census 2000	ISSER 2007
Urban	79.8	78.9
Rural	82.2	79.8
Total	81.6	79.5

Source: ISSER Household Survey, 2007

Distribution of people who moved into West Gonja District by year (%)

40.0

20.0

Query and Server and Server

Figure 2.3: Distribution of People who moved into the District

Source: ISSER Household Survey, 2007

Table 2.4: Reasons why People Move into the District and Ethnicity of in-Migrants

	Urban	Rural	Total
Reasons for moving	_		
To work/farm	39.3	30.1	33.6
To join family	41.3	58.4	52.0
To attend school	18.0	11.5	13.9
Other	1.4	0.0	0.5
E4:	: W C	i - District	
Ethnicity of those who were not b	oorn in West G	onja District	i .
Gonja	56.8	45.9	49.3
Gonja Other northern Ghana tribes			49.3 34.3
Gonja	56.8	45.9	49.3
Gonja Other northern Ghana tribes	56.8 39.2	45.9 31.6	49.3 34.3
Gonja Other northern Ghana tribes Other Ghanaian tribes	56.8 39.2 1.1	45.9 31.6 20.0	49.3 34.3 13.8

Source: ISSER Household Survey, 2007

In terms of general ethnic composition, the district can be said to be fairly homogeneous. The Gonja ethnic group forms 69.3 percent of the population. Other northern Ghanaian

groups form 25.3 percent while other Ghanaian tribes form about 4.2 percent. The population of non-Ghanaians is only marginal at 1.2 percent in 2007 (Table 2.5).

Table 2.5: Ethnic Composition of the West Gonja Population

ETHNICITY	Census 2000	ISSER 2007
Gonja	44.1	69.3
Other northern Ghana tribes	45.1	25.3
Other Ghanaian tribes	10.1	4.2
Non-Ghanaian	0.7	1.2
Total	100	100.0

Source: ISSER Household Survey, 2007

Table 2.6Religious Affiliation

RELIGION	Census 2000	ISSER 2007
Christian	22.5	11.5
Islam	66.1	85.7
Traditional	8.7	2.7
Other	2.7	0.1
Total	100.0	100.0

Source: ISSER Household Survey, 2007

The religious picture also appears to be fairly homogeneous. Islam is dominant with 85.7 percent of population while Christianity comes next with a population share of 11.5 percent. Traditional religion constitutes 2.7 percent and other religions (unspecified) form only 0.1 percent of the population in the district (Table 2.6).

Housing Conditions and Socio-Economic Infrastructure

The 2000 Population and Housing Census reports a total housing stock of 6,164 in the district, with estimated households of 9,638 in 183 localities. In a district of 63,737 people, therefore, there are about 10.3 people and about 6.6 households in a house. Owing to polygamy and accommodation problems, some families have separate cooking and feeding arrangements. The largely rural and dispersed settlement pattern increases the unit cost of investment for the provision of most basic social facilities and/or infrastructure such as electricity and mechanized pipe-borne water.

In West Gonja District, many houses are constructed with locally available materials. About 84 percent of the housing structures are built with mud bricks while about 46 percent are roofed with corrugated iron sheets. The rest are roofed with thatch (grass). The floors of houses are mostly made of cement/concrete (76.1%) or mud/earth (22.7%).

About 66.7 percent of occupied houses are self-owned and about 8.8 percent are rented out. The majority of households live in compound houses. A major housing problem in the district is the poor quality of houses, which is a direct reflection of the low-income levels of the people (West Gonja District Medium-Term Development Plan, 2006-2009).

Use of Energy

Information from the ISSER survey reveals that less than half of the households in the district (43.3%) use electricity for lighting and almost none of them use it for cooking. This is despite the fact that between 2000 and 2007, the proportion of both rural and

urban households that use electricity for lighting has increased (Table 2.9). Apart from Damongo, Daboya, Larabanga and the Mole National Park that obtain electricity from the national grid, the rest of the district remains unconnected to the national grid. The majority of households use kerosene lamps as the main source of household lighting (55.6%), a proportion substantially due to the nearly 100 percent reliance on kerosene by rural households. The current poor access to electricity can have a negative impact on the processing of agricultural produce as well as on education and literacy programmes. The use of gas for cooking is also virtually non-existent.

Wood is the main energy source for household cooking. Invariably, continued dependence on this source encourages land degradation and deforestation as many trees are felled; and soils are eroded and made infertile, resulting in low crop yields. Over 80 percent of households (88.9% in 2000 and 84.1% in 2007) rely solely on wood for cooking. Traditional Energy Unity of Savannah Resources Management Project (SRMP) conducted a field study on fuel wood in the district in 2001. It found that an average of 5,000 bags (2.5 tonnes) of charcoal was produced monthly for sale in the district. This continued reliance on solid fuels for livelihood represents a major obstacle to the attainment of the MDG target on reversing unsustainable loss of environmental resources.

Sanitation Facilities

Poor sanitation, especially in urban areas, is becoming a health hazard in the district. About 80.7 percent of the population has no toilet facilities at home; only 0.3 percent has flush toilets; another 0.5 percent uses

pan/buckets; while public KVIP is used by 18.1 percent. The bulk of the population, however, has no access to sanitary toilet facilities and resorts to indiscriminate defecation in bushes around compounds. This practice results in widespread pollution of water bodies, especially during the rainy season, and increases the vulnerability of the population to several diseases. Disposal of both solid waste and household silage is not well organised. About 62.1 percent of households practise uncontrolled dumping of refuse, either in public dump sites or elsewhere in the surroundings (ISSER, 2007).

Source of Drinking Water

The proportion of households that drink pipe-borne water within the household or compound has decreased in the district since 2000. The percentage of households that obtain their drinking water from boreholes has increased to 73.7 percent (Table 2.7). However, about 13 percent of households overall (and nearly half 48.2% households in rural areas) still get their drinking water from rivers, lakes and ponds in rural areas. The piped water network is not extensive, so not all households have access to it. In some communities, although provision for piped water has been made, the water does not run continuously. When this happens, the alternative sources of water are boreholes, covered wells and rivers and springs, depending on what is available to the community.

Road Conditions

The district has no single tarred road connecting two towns, apart from the one that connects Damongo to its main suburb,

Table 2.7: Household Characteristics in West Gonja District (%)

	Urban	1	Rural		Total	
Household Characteristics	2000	2007	2000	2007	2000	200
Solid Waste						
Collected	1.3		1.9		1.7	
Burned by household	9.2	18.1	3.4	17.5	4.8	17.
Public Dump	46.8	26.3	33.8	16.0	37.1	19.2
Dumped elsewhere	37.4	54.2	59.0	65.7	53.5	62.
Buried by household	4.7	1.4	1.5	0.8	2.3	1.0
Other	0.6		0.5		0.5	
Toilet Facility						
None	57.4	55.1	95.3	92.2	85.6	80.
Flush toilet	2.9		1.1	0.4	1.6	0.
Pan/bucket	2.6		0.1	0.6	0.7	0.
Covered pit latrine	3.7		1.3	0.6	1.9	0.
KVIP	3.5	43.3	0.2	6.1	1.1	18.
Other	29.9	1.7	2.1	0.1	9.2	0.
Fuel for cooking						
Firewood	68.2	68.9	96.0	90.9	88.9	84.
Charcoal	24.8	26.7	1.2	9.1	7.2	14.
Gas	1.3	1.4	0.2	0.0	0.5	0.
Other	5.7	3.1	2.7	0.0	3.4	1.
Fuel for lighting						
Kerosene	41.6	25.6	94.1	69.1	80.7	55.
Electricity	54.9	74.4	4.6	29.3	17.5	43.
Others	3.5		1.4	1.6	1.9	1.
Source of drinking water						
Pipe in compound	19.1		0.9		5.6	
Public outdoor tap	55.6	4.2	1.7	11.8	15.4	9.
Borehole	5.7	87.5	15.4	67.5	12.9	73.
Protected well	10.2	4.2	18.1	0.0	16.1	1.
Unprotected well	6.3		15.4	2.5	13.1	1.
River, lake, pond	2.6	2.8	48.2	18.3	36.6	13.
Purchase from vendor	0.6	1.4	0.3		0.4	0.
Other			0.1		0.1	
Total	100	100	100	100	100	10
Number of households	2,460	72	7,168	168	9,628	24

Source: Computed from Census 2000 data sets and ISSER Household Survey, 2007

canteen. Most of the roads are not graded. Residents of the district lament the deplorable road network, especially during the rainy season when very few roads are motorable, thereby seriously reducing the level of accessibility in the district. Reasons for this include the rivers that crisscross the district, coupled with the low-lying terrain and soft soils that lead to most road links being flooded and sometimes completely washed away during the peak of the rainy season.

The north-eastern part of Damongo covering Daboya to Mankarigu is virtually cut off in

the rainy season from the rest of the district. A contract to re-build the main bridge connecting Busunu to Daboya has been awarded but has been delayed for several months. This situation makes vehicular movement in that part of the district extremely difficult because the area is also cut off from Tolon Kumbungu District on the east by the Black Volta. The bridge connecting Daboya to the other district fell into disuse in the 1970s and has since not been repaired. Residents use canoes to cross the river and for several months of the year, this section of the district remains inaccessible to vehicles, either from the south or from the east.

Table 2.8 Road Conditions in the District

ROAD	LENGTH	STATUS	CONDITION	SURFACE TYPE
Damongo-Canteen Reset	7km	Engineered	Good	Bituminous
Laribanga-Murugu	14km	Engineered	Good	Gravel
Canteen- Buachipe	26km	Engineered	Good	Gravel
Canteen-Congo	2.5km	Partially-Engineered	Poor	Earth
Canteen JSS- Catholic Guest House	1.5km	Partially-Engineered	Fair	Earth
Damongo-Bomboto	4.9km	Non- Engineered	Poor	Earth
Yazari - Krubeto	12km	Non- Engineered	Poor	Earth
Sori No. 2-Lito	24km	Non- Engineered	Poor	Earth
Sori No. 2-Kojo Kura	10km	Non- Engineered	Poor	Earth
Soalepe- Kebeso- Yipala	22km	Non- Engineered	Poor	Earth
Daboya-Semisi	16km	Non-Engineered	Poor	Earth
Daboya- Dakurope	13km	Non-Engineered	Poor	Earth
Lingbinsi-Wawato-Donkonpe	32km	Non- Engineered	Poor	Earth
Yazari -Daboya	42km	Non- Engineered	Poor	Earth

The district has the Busunu-Daboya barrier to the south (left) and the White Volta barrier to the east (right)





The district has the Busunu-Daboya barrier to the south (left) and the White Volta barrier to the east (right)

Communication Facilities

West Gonja District has poorly developed socio-economic infrastructure. In particular, postal services as well as telecommunication facilities are not only inadequate, but also highly inefficient due to frequent breakdowns. About 51.1 percent of the population need to travel over one hour to access postal services in the district. Only 1.7 percent use less than 15 minutes to reach the nearest postal service (Table 2.9).

Passenger transport services are inadequate

and unreliable. These include the Metro Mass Transit (MMT) and five private buses, which run between Tamale, Damongo and Bole. Taxi services are available only in Damongo Township. Most parts of the district, especially the "overseas" areas Lingbinsi, Mankarigu and Daboya are completely cut off from marketing centres and the district capital during the rainy season. Here, boats and canoes are used to carry passengers and goods to other parts of the district. Improvements in road transport will promote the socio-economic development of the district.

Table 2.9: Access to Public Services in West Gonja District, 2007

	Urban	Rural	Total
Food market			<u></u>
Less than 14 minutes	43.9	51.1	48.9
15-29 minutes	32.8	6.6	14.8
30-44 minutes	22.0	6.8	11.5
45-59 minutes	0.0	5.4	3.7
60 minutes or more	1.4	30.0	21.1
Public transport			
Less than 14 minutes	41.1	47.1	45.2
15-29 minutes	33.9	7.3	15.6
30-44 minutes	20.3	5.1	9.9
45-59 minutes	1.7	6.1	4.7
60 minutes or more	3.1	34.4	24.6
Post Office			
Less than 14 minutes	23.1	6.5	11.7
15-29 minutes	45.0	3.4	16.4
30-44 minutes	25.8	15.0	18.4
45-59 minutes	1.7	2.9	2.5
60 minutes or more	4.4	72.1	51.1
Police station			
Less than 14 minutes	30.3	0.0	9.4
15-29 minutes	40.9	2.1	14.2
30-44 minutes	20.8	15.0	16.8
45-59 minutes	3.9	2.9	3.2
60 minutes or more	4.2	80.0	56.4

Source: ISSER Household Survey, 2007

Many households do not have access to fixed-line telephone services in West Gonja District. Indeed, none of the households sampled reported having fixed-line services even though the district has a telephone exchange at Damongo. Generally, telecommunication is facilitated by the services of the mobile phone companies. In those communities where there is coverage, private entrepreneurs provide access to mobile telephone services at a fee.

Until recently, mobile telephone services were equally inadequate and only available in Damongo Township, Mole and Larabanga. However, two mobile communication networks (One Touch and Areeba) have been

operating at Damongo and its surrounding areas extending to a radius of about 18 km. (West Gonja Medium-Term Development Plan, 2007). Millicom (tiGO) service has also been extended to the district, operating mainly along the Busunu-Sawla trunk road. These developments have improved modern communications in urban areas, in particular. About half the population in urban areas is within 15 minutes distance from telephone service but 63.3% of people in rural areas still need one hour or more to reach a telephone (Figure 2.4). The district policy of making available modern information and communication facilities (in accordance with MDG target 18) can be achieved if access for the rural population is improved.

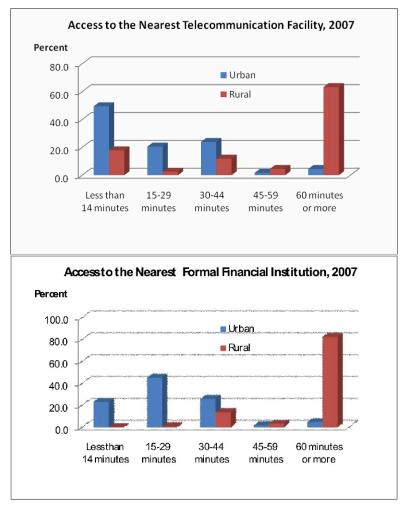


Figure 2.4: Travel Time to the Nearest Telecommunication Facility and Financial Institution, 2007

Source: ISSER Household Survey, 2007

Formal Financial Services

There are only two formal financial institutions in the district: one Commercial Bank at Damongo and one recently established micro-finance institution also at Damongo. With this small number of institutions and the sparse population in the district, access to formal financial services is very poor about two-thirds of urban dwellers are within 30 minutes of the institutions whereas 82.3 percent of the rural

population have to travel one hour or more to access formal financial institutions (Figure 2.4).

Access to Goods Markets

The five major markets in the district are Damongo market (Saturdays), Busunu (Fridays), Mankarigu market (Fridays), Kotito No. 2 market (Fridays) and Lingbinsi market which runs weekly, keeping the

wheels of economic activities in the district moving. Average monthly revenue generated by the five markets is about GH50 cedis (West Gonja District MTDP, 2007). Also, none of these markets can boast of adequate stores, stalls, sheds, warehouses, sanitary facilities, and drainage systems despite their contribution to the growth of the local economy.

Human Security

The district is served by one police station. Only about 16.4 percent of households in the district can reach a police station in less than 30 minutes. Rural communities are disadvantaged because about 80 percent of rural households are more than 60 minutes away from the nearest police station compared to about 4.2 percent of urban households (Table 2.9).

assaults, poaching and stealing. Some instances of petty crime involving theft of crops and of livestock were reported. Although the incidence of crime is relatively low in the district, about 27.5 percent of households were less confident about their personal security while 45.8 percent are more confident now than five years ago (Table 2.11). Depending on how much is stolen and the situation of the household, theft of a harvest can deal a severe blow to a household by, for example, compromising the ability to pay school fees, drugs and other essential items.

None of the communities visited reported incidents of unrest in the last five years arising from chieftaincy, land, religious, ethnic or election-based disputes. There were reported cases of life-threatening clashes between some communities and Mole National Park Reserve guides.

Table 2.9: Crime Statistics in West Gonja District

Reported cases of crime	2000	2001	2002	2003	2004	2005	2006
Murder	1	3	0	1	2	2	3
Stealing	14	34	26	32	16	12	16
Rape	1	3	0	1	1	0	1
Defilement	0	0	0	1	1	0	2
Threatening	2	7	5	4	4	6	5
Causing harm	1	0	1	5	1	2	3
Fraud	2	1	6	3	1	0	2
Robbery	0		0	0	0	3	(
Assault	16	25	25	20	2	20	35
Causing damage	2	4	4	2	1	2	2
Possessing narcotics	4	0		1	0	2	1
Poaching	7	11	6	21	23	22	17
Impersonation	4	0	0	0	0	0	1
Total	54	88	73	91	52	71	88

Source: Ghana Police Service, West Gonja District Command

The number of reported crimes in the district rose from 54 in 2000 to 91 in 2003, dropped sharply, then rose in successive year to reach 88 in 2006 (Table 2.10). The most frequently reported types of crime are

Complaints leading to such incidents concern inadequate land left for farming as a result of the activities of wild animals in the reserves. This has been a grave concern in the affected communities such as Kabampe.

Table 2.11Perceptions of Human Security in West Gonja District

Compared to five			Loca	ality		
years ago, would you survive in	Urb	oan	Ru	ral	Total	
times of need?	CWIQ 2003	ISSER 2007	CWIQ 2003	ISSER 2007	CWIQ 2003	ISSER 2007
More confident	20.8	46.6	17.6	45.4	17.9	45.8
Same	60.6	25.5	44.3	27.4	45.9	26.8
Less confident	18.6	27.8	38.2	27.3	36.2	27.5
Total	100.0	100.0	100.0	100.0	100.0	100.0

Source: ISSER Household Survey, 2007 and CWIQ 2003

Local Governance

Administrative Structure

The institutional framework for decision making rests with the West Gonja District Assembly (WGDA), which is the highest political and administrative body in the district. The WGDA consist of a District Chief Executive, 20 elected and nine appointed representatives of the people, and one Member of Parliament. The district has the highest proportion of women as District Assembly members in Ghana, with eight women among the 20 elected members.

As provided for by the 1992 Constitution, the Town and Area Councils and Unit Committees are vital in local level development in any district. Hence, the West Gonja District has created one Town Council and five Area Councils, and has formed 91 Unit Committees in all the six Town/Area Council zones. None of the Area Councils is functional at present but the Northern Region Poverty Reduction Programme (NORREP) has selected Busunu Area Council for capacity building and equipped it with four motor bikes.

The District Chief Executive heads the Office of the District Assembly and presides over meetings of the executive committee of the Assembly, while the Presiding Member presides over Assembly sessions, meetings and any other committee s/he may chair. The Local Government Act (Act 462) reconstituted the former 22 decentralized departments into 11 under the District Assembly. The operations, activities and initiatives of these departments are coordinated by the District Coordinating Director.

The Local Government Law, Act 462, 1993 established that District Assemblies are responsible for:

- Overall development of the district (plan, budget and implement development programmes and projects)
- Coordination of activities of ministries, departments, public corporations, NGOs, etc. within the district (see list of institutions in Table 2.12).
- 3. Maintenance of security and public safety (execution of law).

There is an executive committee chaired by the District Chief Executive, and subcommittees with deliberative functions. These sub-committees are:

- 1. Development Planning sub-Committee
- 2. Works sub-Committee
- 3. Justice and Security sub-Committee
- 4. Finance and Administration sub-Committee

- 5. Social Services sub-Committee
- 6. Public Relations and Complaints sub-Committee
- 7. Health and Environment sub-Committee
- 8. Economic Development sub-Committee
- 9. Education and Culture Sub-Committee
- 10. Women and Children sub-Committee

Table 2.12: List of Institutions in West Gonja District, 2006

CENTRALIZED DEPARTMENTS

- 1. Ghana Education Service
- 2. Ghana Health Service
- 3. Information Services
- 4. Community Development
- 5. Department of Social Welfare
- 6. Town and Country Planning
- 7. Statistical Services
- 8. Births and Deaths Registry
- 9. Forestry
- 10. Ghana Fire Service
- 11. Agriculture
- 12. Controller and Acc. Gen. Dept
- 13. Central Administration (Assembly Secretariat)
- 14. Works (PWD, DFR)
- 15. Min. of Trade, Dept. of Cooperatives, NBSSI

OTHER INSTITUTIONS

- 1.Ghana Commercial Bank
- 2.Credit Union (2)
- 3. Ghana Library Board
- 4. Ghana Water and Sewerage Corporation
- 5. Ghana Postal Services Ltd.
- 6. Ghana Telecom Company

RELIGIOUS BODIES

- 1. Muslim Council
- 2. Catholic Church
- 3.Presbyterian Church
- 4.Assemblies of God
- 5. Evangelical Church
- 6.Deeper Life Church
- 7. Pentecost Church

NON-DECENTRALIZED DEPARTMENTS

- 1. Savannah Agric. Research Institute
- 2. Damongo Senior Secondary Sch.
- 3. Damongo Senior Sec. Technical Sch.
- 4. Gonja Traditional Council
- 5. Police Service
- 6. Judicial Service
- 8. Labour Department
- 9. Game and Wildlife
- 10.Centre for National Culture
- 11. National Service Secretariat12. Bureau of National Investigation
- 13. West Gonja Hospital
- 14. Agricultural College
- 15. National Commission on Culture
- 16. Commission for Human Rights and Administrative Justice

NON-GOVERNMENTAL ORGANI SATIONS

- 1. Institute of Cultural affairs
- 2. Katchito Development Centre
- 3. Opportunities Industrialisation Centre (OIC)
- 4. Adventist Development Relief Agency (ADRA)
- 5. Catholic Relief Services
- 6. RESEP
- 7. AROCHA
- 8. MAFEC
- 9. Tulso Human Dev. Home
- 10. Centre for Rural Improvement Services (CRIS)
- 11. Justopose Integrated Development Association
- 12. SNV

Source: West Gonja District Medium-Term Development Plan, 2006-2009

Functions of the District Assembly

The District Assembly has two major functions: political and administrative, and planning. According to the provisions of Act 462, the District Assembly is the highest political and administrative authority in any district. As such, the West Gonja District Assembly provides guidance, gives direction to and supervises all administrative authorities in the district. In so doing, it exercises deliberative, legislative and executive functions over its territorial jurisdiction.

Under the same Act, the District Assembly is established as the planning authority of the district. In pursuance of this function, the West Gonja District Assembly ensures the preparation of district development plans and submits them through the Northern Regional Coordinating Council to the National Development Planning Commission for approval. In addition, it prepares budgets related to the approved plans and submits them to the Ministry of Finance and Economic Planning for approval.

Specifically, the Assembly performs the under-listed tasks⁹:

- 1. Formulates and executes programmes and strategies for the effective and efficient mobilisation and disbursement of necessary resources for the overall development of the district.
- 2. Promotes and supports productive activity and social development in the district and removes any obstacle to initiative and development.
- 3. Initiates programmes for the development of basic infrastructure and provides municipal works and services in the district.
- 4. Is responsible for the development, improvement of human settlements and the environment in the district.

- 5. Takes necessary steps to execute approved development plans for the district.
- Guides, encourages and supports subdistrict local government bodies, public agencies and local communities to perform their roles in the execution of approved development plans.
- 7. Initiates and encourages joint participation with other persons or bodies to execute approved development plans.
- 8. Monitors the execution of projects under approved development plans and assesses and evaluates their impact on the people's development, the local, district and national economy.

Development Goals

The high incidence of poverty and low level of social development have made living and working in the West Gonja District difficult. The consequences include a high rate of outmigration, especially of the youth. Hunger, malnutrition, ill-health, high mortality rates, low life expectancy, high school dropout rates, low education outcomes, crime, abuse of women and children, streetism and loss of personal integrity are some of the other consequences of the high level of poverty and low social development in the district.

In this respect, the Assembly has planned specific development activities linked to the pillars of GPRS II. In line with NDPC guidelines, most of these priorities are aligned to the targets and goals of the United Nations Millennium Development Goals (MDGs). The identified goals are classified under three headings: private sector-led competitiveness, human resource development and good governance. The objectives under each sub-sector of the district are presented in Table 2.13.

⁹ Draft West Gonja District Medium-Term Development Plan, 2006-2009

Table 2.13: Priorities and Specific Objectives of West Gonja Medium-Term Development Plan,\$\$ 2006-2009

	Sub-coston priorities	Specific Objectives
Thematic Area Private Sector-	Sub-sector priorities Agriculture: Improve	Specific Objectives Provide credit and agricultural inputs to individuals and
Led Competitiveness	agricultural productivity	farmer groups to increase agricultural productivity Increase farmers' access to extension services Increase land under irrigation Support the private sector to provide tractor services to farmers and improve structures in major markets in the district
	Support Services: Improve access to link farms with marketing centres	 Pay attention to improving the road network in the district Support the private sector to provide efficient transport services (River and Road Transport)
	Energy: Improve the supply of energy for both domestic and industrial use	 Connect major towns in the district to the national grid Promote use of solar energ y in communities far from the national grid
	Environment: Control environmental degradation	 Encourage communities to establish woodlots for fuel wood Support private sector to establish liquefied petroleum gas (LPG) distribution points in the district
	Science and Technology: Equip the youth and vulnerable people with skills to make a decent living Improve communication systems	Lobby for establishment of foundry and training centres to train artisans to manufacture simple farm tools and implements Encourage the private sector and NGOs to establish FM station in the district capital Complete and equip Community Information Centre building Lobby for expansion of telephone services to major towns
	Tourism: Promote the development of tourism	Concentrate on constructing Recepti on and Cultural Centres in Damongo Develop four tourist sites in the district Encourage the private sector to construct standard guesthouses, restaurants and chopbars Advertise tourism potential of the district on the Internet, and in print and electronic media
	Small-Scale Industry: Support the development of small-scale industries	Organize Daboya Smock Weaving into a viable cooperative Provide gari, cashew, soya beans and shea butter processing machines to farmer groups Train and prov ide beekeepers with hives and equipment to increase honey production
Human Resource Development	Education: Reduce illiteracy rates	 Improve access to basic education Improve quality of teaching and learning Support organization of STME clinics in the district Support functional literacy education programmes Build a library complex in the district
	Manpower and Sports: Improve skills; promote and develop sporting disciplines	 Lobby for the construction of vocational and learning centres to train the unemployed Provide incentives and credit to trainees to set up businesses Lobby for construction of sports stadium Encourage formation of football clubs and keep-fit clubs Support development of sports in schools

Health: Improve health

Control population growth

Water and environmental

environmental sanitation

the development of towns

exclusion issues in

that all District Assembly

sub-structures are made

Economic governance:

Increase District Assembly's

development

functional

revenue base

Good

Governance

water supply and

sanitation: Improve potable

status of the people

Improve and provide quality health services Intensify health education on malaria control, guinea Support NIB programmes, provision of offices and staff accomodation for the district mutual Health Insurance Scheme. Support NGOs and CBOs to intensify education on HIV/AIDS prevention. Support awareness creation on family planning methods Provide po table water for all communities in the district Construct boreholes and public standpipes for communities Construct public toilets, and encourage construction of household latrines and slaughter houses Train W ATSANs to manage and maintain water and sanitation facilities Form and train b ushfire volunteers and disaster volunteer groups in all communities Urban development: Control Prepare layouts for three towns Number all houses in the district Improve drainage in all major towns Enforce strict adherence to building regulations Vulnerability and exclusion: Support the development of early childhood Mainstream vulnerability and development centres Train and equip women and physically challenged people with employable skills Create database on the vulnerable and the excluded Involve the vulnerable and excluded in the planning and implementation process Political governance: Ensure Ensure that all Area Co uncils and other sub -structures are made functional Construct and equip two police stations Encourage women's participation in local and national policies Organize awareness creation on outmoded cultural practices that militate against women's advancement (e.g. widowhood rites) Widen the tax net in the district

Source: West Gonja Medium-Term Development Plan, 2006-2009

The development plan is well thought out and set out. It is anticipated that the district will have to mobilise GH¢49,300,000 to implement it over a four-year period. Whether or not this proposed development plan can be executed largely depends on the volume of resources generated locally and supported with external inflows such as the

District Assemblies Common Fund (DACF).

Intensify tax education campaigns

Update revenue database annually

Train and equip revenue collectors and provide incentives to hardworking revenue collectors

There are many sources of funds to run the District Assembly's activities, with varying degrees of impact on the financial health of the assembly. They are broadly defined as internally generated funds (IGF) and grants, which constitute all external sources that are

passed through the Assembly's financial system. Table 2.14 outlines a comparison between IGF and grants received by the district for the period 2002 to 2005.

transferred to the district through the DACF Administrator. Central government also indirectly channels resources to the district through sector-wide programmes.

Table 2.14: Distribution of Revenue by Head Item, 2002-2005

Share of Head Item (%)				
2002	2003	2004	2005	
11.1	3.4	4.0	1.2	
1.5	0.1	0.6	0.1	
0.1	0.1	0.1	0.1	
4.0	0.9	0.9	0.3	
5.2	1.7	0.4	0.3	
-	0.1	-	0.3	
0.4	0.6	0.1	0.1	
-	-	1.8	-	
88.9	96.6	96.0	98.8	
53.6	36.1	37.1	39.3	
-	23.7	37.2	38.9	
35.3	36.8	21.7	20.5	
100.0	100.00	100.0	100.0	
2,510.5	11,295.6	15,930.2	13,632.5	
	11.1 1.5 0.1 4.0 5.2 - 0.4 - 88.9 53.6 - 35.3	2002 2003 11.1 3.4 1.5 0.1 0.1 0.1 4.0 0.9 5.2 1.7 - 0.1 0.4 0.6 - - 88.9 96.6 53.6 36.1 - 23.7 35.3 36.8	2002 2003 2004 11.1 3.4 4.0 1.5 0.1 0.6 0.1 0.1 0.1 4.0 0.9 0.9 5.2 1.7 0.4 - 0.1 - 0.4 0.6 0.1 - - 1.8 88.9 96.6 96.0 53.6 36.1 37.1 - 23.7 37.2 35.3 36.8 21.7 100.0 100.00 100.00	

Source: Authors' calculation from West Gonja District Assembly records, 2007

The role of the central government is crucial to the successful implementation of the plan. There are several points at which resource flows to the district level can be traced directly to the central government. They include the Ministry of Local Government, Environment and Rural Development; the Ministry of Finance and Economic Planning and the District Assemblies Common Fund.

The local government ministry covers the emoluments of District Assembly personnel, and also allocations to some items in the 2-4 expenditure categories. Resources from the finance ministry are generally referred to as central government transfers. They include the HIPC funds and other ceded revenues. The main central government transfer to district assemblies for development activities, which is the DACF, is however

Programmes and projects are undertaken in different sectors, particularly by the decentralised departments, with budgets from ministries, departments and agencies (MDAs). However, these resources from MDAs do not pass through the accounts of the District Assembly; they are not captured by the district, implying that the district has little influence on the use of such funds.

The data in Table 2.15 clearly show that resources from grant sources constitute more than 85 percent of total inflows for the District Assembly. It also shows that the Assembly is heavily dependent on DACF and HIPC funds. This has serious implications for sustainability and timely execution of development programmes as the total amount of internally generated funds is quite meagre compared with the development

challenges of the district. The District Assembly will find it extremely difficult to operate if resources from these sources are delayed for any particular reason; the activities of the district will virtually come to a halt.

The poor revenue generation effort has been attributed to many factors, including improper recruitment of collectors. Laxity on the part of collectors, supervisors and staff of the Assembly is a major concern, alongside unwillingness of the public to pay basic rates, and the failure of revenue collectors to pay in all monies collected to the Assembly (West Gonja District Medium-Term Development Plan, 2006-2009).

The District Assembly has instituted various measures to address this important aspect of economic governance. They include replacement of non-performing collectors, setting targets, providing motorcycles to supervisors, paying commissions and using civic organisations to collect revenue.

Participation of the Citizenry in Planning and Implementation of Development

Financial and other factors can lead to a weakening of the sub-structures of the District Assembly, which has adverse effects on participation and the flow of information between the Assembly and citizens. Participation is an important aspect of the decentralisation agenda of Ghana as plans and projects are expected to benefit from the input of the general public.

The ISSER 2007 Household Survey, however, suggests that a lot of work will have to be done in this area. About 39 percent of the population aged 18 years and above (42 percent of men and 36.8 percent of women) had been consulted prior to the start of community projects. However, less than 1 percent of the members of the households surveyed knew how much had been allocated to the district in 2006 through the District Assemblies Common Fund. In some instances, this lack of knowledge of the workings of the Assembly may be because of a lack of interest on the part of the general public. However, it also reflects inadequate information flow between the Assembly and the general public.





CHAPTER THREE

ECONOMIC ACTIVITY AND POVERTY

Introduction

The first Millennium Development Goal is to eradicate poverty and hunger by reducing by one-half the proportion of people whose income is less than one dollar a day and also to reduce by one-half the proportion of people who suffer from hunger. The time frame is between 1990 and 2015. Lack of information at district level makes direct assessment of the district's progress towards this goal quite difficult. This report gauges progress towards this goal by analysing general changes in the structure of economic activities and changes in other indirect indicators of poverty using information mainly drawn from the 2000 Population and Housing Census and the 2007 ISSER socio-economic survey conducted in the district for this report.

Employment

In line with GPRS I, the district development plan¹⁰ for the first half of the decade put some emphasis on getting the private sector to increase production and generate more employment. Employment is one of the pillars on which poverty reduction strategies are built. However, the realisation of its expected benefits depends on productivity, remuneration and other conditions attached to employment.

At national level, the GPRS II re-emphasized the objective of promoting gainful employment. The plan seeks to "pursue an employment-centred cross-sectoral development strategy..." The district's focus on employment is expressed in the 2006-2009 development plan through a number of objectives: improve agricultural productivity, equip the youth and vulnerable groups with skills to make decent living, promote tourism and support development of small-scale industries¹².

West Gonja is predominantly rural and its economy is built on the natural resource base. The district is an agriculture-based economy. Agriculture, including fishing, employs close to 60 percent of the economically active population. Figure 3.1 shows that industry (including mining, quarrying, manufacturing and construction) is the second biggest employer, followed closely by services.

Compared to 2000, it is clear that there are signs of gradual structural change. Agriculture's importance in terms of employment has declined considerably from employing about 80 percent of the economically active population to the current 60 percent. This decline appears to have been absorbed by industry (particularly manufacturing) and the services sector. The proportion of the workforce employed in the services sector is expanding very fast in the West Gonja District. The proportion engaged in the services sector (excluding wholesale and retail trade) has almost tripled over the period from 2000 to 2007 (Figure 3.1). A similar trend can be observed for manufacturing activities.

¹⁰ West Gonja District Medium-Term Development Plan, 2002-2004

Republic of Ghana (2005) Growth and Poverty Reduction Strategy (GPRS II) (2006-2009), Vol. 1: Policy Framework,

National Development Planning Commission, Accra. p. 39
¹² West Gonja District Assembly Medium-Term District Development Plan, (2006-2009)

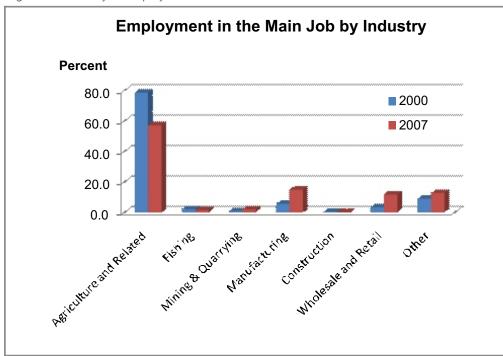


Figure 3.1: Industry of Employment

Source: 2000 Population and Housing Census and ISSER Household Survey, 2007

Figure 3.2 presents agricultural production and yields for West Gonja. Maize production in the district has remained above 10,000 tonnes since 2002. It has been on a rising trend, increasing from 10,000 tonnes in 2002 to 30,000 tonnes in 2006. This rising trend in maize output began from 2004. In contrast, output of sorghum has not increased substantially, but has nevertheless risen between 2002 and 2006. Output of millet declined from a little over 5,000 tonnes to less than 4,000 tonnes.

Among the legumes, groundnut is the dominant crop in West Gonja. Whereas the total output of groundnuts was above 7,000 tonnes in 2006, production of other legumes was less than 3,000 tonnes. Production of groundnuts rose slightly from 2002 but became stable at 6,000 tonnes in 2003 and 2004. By 2005, groundnut production had declined to about 4,000 tonnes. Groundnut production rose again in 2007 above the 2004 level to almost 8,000 tonnes. Production of cowpeas and soya beans hardly changed between 2002 and 2006.

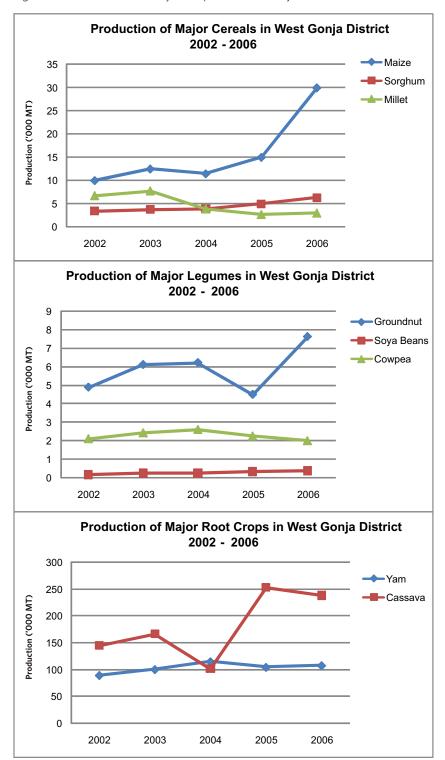


Figure 3.2: Production of Major Crops in West Gonja District

Source: Created with data from Ministry of Food and Agriculture, West Gonja

Regarding root and tubers, output of yam was 100,000 tonnes in 2006, showing little change since 2002. By 2003, yam production in the district had gone beyond 100,000 tonnes. Production has not gone below 100,000 tonnes since. Production of cassava, however, showed quite a different pattern. In 2006, cassava production stood at about 250,000 tonnes. This represents almost a 67 percent increase. Between 2002 and 2006, cassava displayed an undulating trend. From 150,000 tonnes in 2005, cassava production declined to the lowest level over the five-year period (100,000 tonnes). By 2005, however, production rose sharply to 250,000 tonnes and stayed there (Figure 3.2).

The district also rears a number of domestic animals, both on subsistence and commercial basis. Poultry dominates the livestock sector with over 140,000 birds in 2005. There were about 2,883 pigs, 17,900 goats, 16,155 sheep and 16,600 cattle in 2005.

Problems in the Agricultural Sector

Like many other areas in Ghana, agriculture continues to be rain-fed with limited irrigation. The cropping pattern follows the land fertility pattern and farmers use either inorganic and organic manure or fertiliser. Many farmers use simple tools like hoes, cutlass, and animal traction. Tractors services are limited; the number of tractors is estimated to be 73 and the tractor-farmer ratio is 1:172.

The district's draft Medium-Term Development Plan (2006-2009) highlights

the following as major issues confronting the agricultural sector:

- Population pressure on land¹³
- Declining soil fertility and erosion
- Inadequate marketing systems
- Weak/inadequate extension services¹⁴
- High cost of inputs
- Inadequate credit facilities
- Erratic rainfall and over-dependence On nature
- High incidence of pests and diseases
- Inappropriate farming methods; and
- High post-harvest losses

The problem of inadequate marketing systems has serious implications for the pricing of major food items. Prices serve as an incentive for production. Agriculture prices have the propensity to vary from month to month and from year to year and could have serious implications for farmers' incomes. Within the West Gonja District, maize prices were higher in 2005 than other years but also with more significant variations than in any year. In 2006, however, maize prices declined from January to December, probably due to the unexpected increase in production (Figure 3.3).

In contrast, cassava prices were highest in 2006 compared to 2004 and 2005, and remained fairly stable in most parts of the year. This also coincided with sustained and high production figures for cassava in 2006, pointing to the differential relative advantages the district has in terms of marketing agricultural produce. Generally, yam prices and output were very stable between 2004 and 2006.

¹³ Community interviews in Kabampe confirm this to be the case for communities close to the forest reserves.

There are 14 extension officers in the district for 12,565 farmer population (i.e. the extension officer-farmer ratio is 1:898).

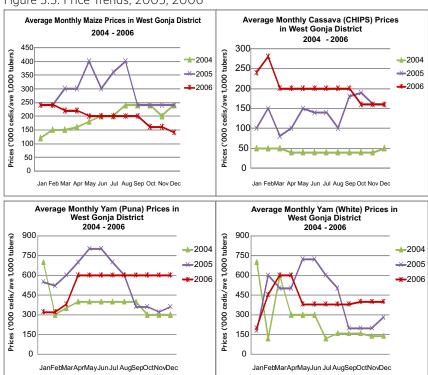


Figure 3.3: Price Trends, 2005, 2006

Source: Created with data from MOFA, West Gonja District

Women's participation in the labour force

Even though agriculture employs the majority of the workforce in the West Gonja District, there is a clear reduction in the proportion of both women and men employed in agriculture. Women continue to dominate the wholesale, retail and manufacturing sectors. The proportion of women employed by these sectors has more than doubled between 2000 and 2007 (Figure 3.4).

There has not been a significant change in the employment status of the working population of the district since 2000. Self-employment in the district continues to be high in the district. The majority of the workforce are self-employed without employees. The proportion of wage employees in the district has also more than doubled over the period 2000 to 2007. In the same vein, the proportion of self-

employed with employees has doubled. Although the proportion of unpaid family workers has reduced, the change is not significant. Many more economically active people in West Gonja are engaged in unpaid family work.

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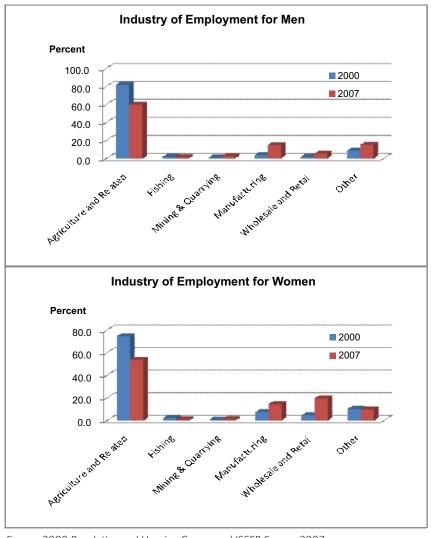


Figure 3.4:Distribution of Employment, by Sex

Source: 2000 Population and Housing Census and ISSER Survey, 2007

Clearly, the biggest employer in the West Gonja District is the private informal sector. In 2007, 80 percent of the working population was in the private informal sector, giving a good indication of the size of the informal sector in the district. The size of the informal sector has not changed significantly between 2000 and 2007. Figure 3.6a further reveals a reduction in the proportion of the working population employed by private formal institutions. This reduction

appears to have been absorbed by public institutions. Analyzed from the point of view of the residence of employees, it appears that more of the population in urban areas have formal employment. However, from the trends, the proportion of the urban population employed in the formal sectors is on the decline while more rural workers are gaining employment with formal sector employers.

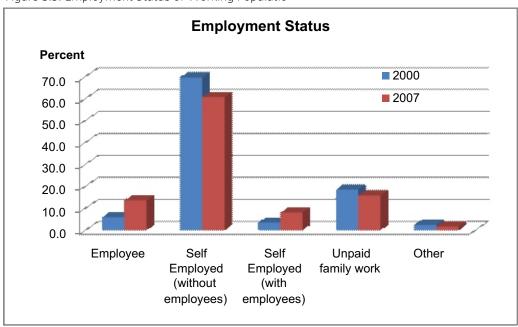


Figure 3.5: Employment Status of Working Populatio

Source: 2000 Population and Housing Census and ISSER Household Survey, 2007

While the proportion of men employed in the formal sector increased since 2000, there has been a considerable decline in the proportion of women employed in the formal sector (Figure 3.6b). This is clearly far from expected and does not signify progress

towards the third MDG goal promotion of gender equality and empowerment of women which has as one of its indicators the share of women in wage employment in the non-agriculture sector.

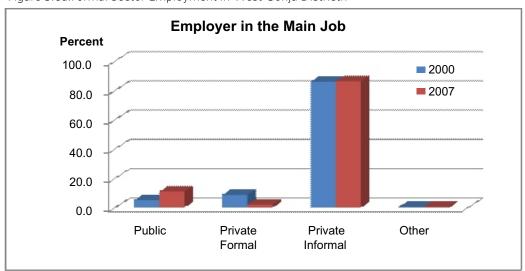


Figure 3.6a:Formal Sector Employment in West Gonja Districtn

Source: 2000 Population and Housing Census and ISSER Household Survey, 2007

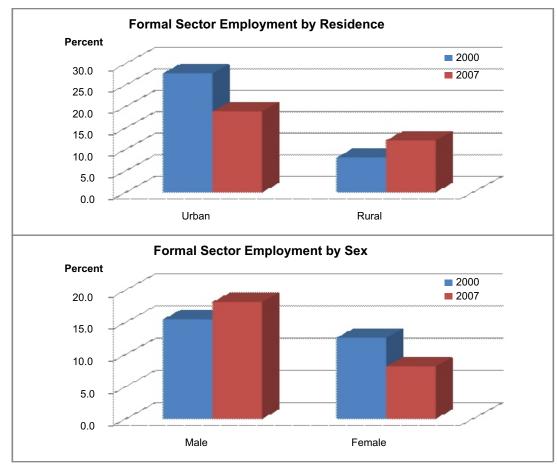


Figure 3.6b: Formal Sector Employment in West Gonja District (Cont'd)

Source: 2000 Population and Housing Census and ISSER Survey, 2007

Unemployment, Underemployment and Child Labour

Unemployment¹⁵

Overall, the unemployed in West Gonja are estimated at 14.5 percent of the economically active population in 2007 (Table 3.1). This represents an increase from the 8.5 percent observed in 2000. Adult unemployment among rural adult females has increased to 19.4 percent in 2007 from 7.9 percent in 2000. Unemployment among

the youth was worse. The eighth MDG hopes to Implement strategies for decent and productive work for the youth. Table 3.1 shows that no progress has been made towards achieving this goal in the district. The proportion of unemployed youth increased from 5.2 percent in 2000 to 27.4 percent in 2007. While rural male unemployment appears to have been eradicated in the district, unemployment among rural and urban women as well as urban men has worsened (Table 3.1).

The unemployment rate is estimated as the ratio of the number of unemployed persons to the economically active population. The economically active population is made up of persons aged 15 years and above of the employed and unemployed but does not include students and old age pensioners or people who cannot work because of a mental or physical impairment. In both 2000 and 2007 datasets, the reference period for this definition is the last seven days.

Table 3.1: Adult and Youth Unemployment in West Gonja District, by Year (%)

	Adult (15+)		Youth (15-	-24)
Unemployed	2000	2007	2000	2007
Rural				
Male	1.9	3.9	5.3	0.0
Female	7.9	19.4	7.0	37.4
Total	4.8	11.7	6.1	20.0
Urban				
Male	11.2	14.7	5.4	46.7
Female	31.9	29.7	4.3	41.8
Total	22.1	22.0	4.9	44.4
All	8.5	14.5	5.2	27.4

Source: 2000 Population and Housing Census and ISSER Survey, 2007

Underemployment¹⁶

The incidence of underemployment is high in the West Gonja District (46.1%). Looked at from the gender stand point, underemployment is higher among men than among women (Table 3.2). More rural people (48%) are underemployed compared to urban people (42%). The underemployment rate was highest among workers in agriculture and related sectors (52%). This is mainly due to the fact that the sector is highly dependent on erratic weather.

Table 3.2: Percent of the Labour Force that is Underemployed in West Gonja District, 2007

Underemployed	Percent
All	46.1
Sex	
Male	50.7
Female	41.6
Sector	
Agriculture and Related	52.2
Fishing	1.4
Mining & Quarrying	3.1
Manufacturing	22.5
Wholesale and Retail trade	11.5
Community services	4.6
Other	4.6
Residence	
Urban	41.9
Rural	47.8
Age (15-24 years)	
All	33.6
Male	42.7
Female	25.1

Source: ISSER Household Survey, 2007

The underemployment ratio is estimated as the economically active population who were employed, were willing to do Extra work but could not get additional work in the last seven days.

Child Labour

There is some child labour used in the district. To capture child labour, the proportion of the population aged 7-14 years old who either worked or had jobs but did not work or considered themselves to be unemployed was analyzed¹⁷. The results indicate that 4.7% of children between those ages were in the labour market. This is very low compared to child labour figures recorded in 2000 (Table 3.3) and it signals the positive effects of recent interventions in the education sector that seek to keep children of school-going age in school. The situation for girls in rural areas is slightly higher in 2007 than what was observed in 2000.

Table 3.3: Child Labour

	2000	2007
Rural		
Male	11.9	2.7
Female	9.7	10.9
Total	10.8	6.1
Urban		
Male	60.4	0.0
Female	58.5	2.4
Total	59.5	1.3
All	48.5	4.7

Source:CWIQ 2003 and ISSER Household Survey, 2007

Poverty

The overall aim of the Millennium Development Goals is more or less captured in the first goal which seeks to eradicate extreme poverty and hunger. The first target aims at halving between 1990 and 2015 the proportion of the population whose income is less than a dollar a day. The second target aims at halving the proportion of the people living in hunger over the same period.

Due to difficulties in getting specific base year poverty rates for the district, the district Medium-Term Development Plan does not contain specific targets for the reduction of poverty or the elimination of hunger. However, the desire to achieve this goal is expressed quite clearly in the plan through other goals such as "to ensure food security and improve farm incomes", "promote development of small-scale industries" and "mainstream vulnerability and exclusion issues in the plan" among others.

There is disagreement on the appropriate definition of child labour for policy purposes. Some notions reflect Western perspectives, which lead to a condemnation of all child work. The UN Convention on the Rights of the Child (1989) and ILO Convention 182 on the worst forms of child labour (1999), promote a clearer distinction between child work, a general term including work which is unlikely to damage educational opportunities, and child labour, which refers to harmful forms of work which deny children opportunities to fulfil their other rights, such as education. The 'worst forms of labour' as defined in ILO Convention 182 include prostitution, all forms of slavery, sale and trafficking of children, debt bondage and forced labour, as well as work likely to harm their 'health, safety and morals'. The estimates in this report do not take into account this difference in definition.

Incidence of poverty

The only district-specific information on objective poverty can be obtained from the poverty data generated by the National Development Planning Commission (NDPC) and the Ghana Statistical Service (GSS), which is used to provide district-wide poverty mapping. These poverty rates are derived from correlates of poverty as captured in the 2000 Population and Housing Census and are based on coefficients derived from the 1991/1992 and 1998/99 Ghana Living Standards Surveys (GLSS 3 & GLSS 4). In the absence of any district-level data on poverty, the poverty rates from this source serve as good composite index to rank the districts.

Using this index, the Northern Region was ranked the third poorest among the 10 regions of Ghana and is among the three which experienced an increase in poverty between 1991/1992 and 1998/1999. The incidence of poverty rose from 63 percent in 1991/1992 to 69 percent in 1998/1999 in the Northern Region. Recent estimates from the initial results of the 2005/2006 GLSS suggest that the previous rise in the incidence of poverty in the region turned into a decline to about 52.3 percent in 2005/2006. The extent to which poverty in West Gonja is rising or declining cannot unfortunately be determined by this approach. The urban and rural areas of the West Gonja District were ranked as 27th and 12th poorest among the 110 districts in 2000 respectively. Their respective head count poverty rates were 43 percent and 94 percent and the overall head

count poverty for the district was estimated to be 89 percent and ranked it as the 11th poorest among the 110 districts of Ghana.

The other approach to determine indirectly the level of poverty is through an estimation of the human poverty index (HPI). The UNDP human poverty index is an attempt to capture the multidimensionality of poverty in a single index. The index focuses on three aspects of deprivation, namely, the proportion of the population that will die before the age of 40 years, the proportion of the adult population that is illiterate, and the ability to have a decent standard of living. This ability to have a decent standard of living is measured using three variables. The first is the proportion of the population without access to safe or improved drinking water, the proportion of underweight children aged 5 years or less and the proportion of the population without access to health services. In estimating the human poverty index, this study substitutes the regional under-5 mortality rate for the proportion of the population that will die before 40 years of age (see Appendix Box 1 for an explanation of the steps used to calculate the HPI for the DHDRs, termed HPI-G).

The human poverty index for West Gonja District in 2003 is significantly different from the national average (Table 3.4). An assessment reveals that the district performs worse than the national average in almost all the components of the human poverty index except access to health in urban areas and the proportion of underweight girls in the district.

Table 3.4Human Poverty Index, 2003

Human Poverty Index, 2003	West Gonja	Ghana
All	72.1	41.8
Rural	75.4	
Urban	56.4	
% Adult Illiterate, 2003		
All	87.2	46.6
Male	83.4	34.2
Female	91.0	57.7
% without access to health care services		
All	59.4	42.4
Rural	65.5	57.7
Urban	6.4	21.5
% without access to safe water		
All	74.1	25.9
Rural	78.3	37.0
Urban	37.1	12.7
% underweight children		
All	25.4	25.8
Boys	32.3	24.4
Girls	16.0	28.4

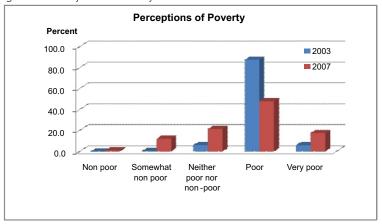
Source: Ghana Statistical Service, CWIQ 2003, Accra

Subjective poverty

Subjective poverty measures the perception of households regarding their levels of poverty. Figure 3.7 outlines the outcome of measurements of subjective poverty in West Gonja District. In general, the majority of the sampled households perceive themselves to be either poor or very poor. However, the

proportion of households that perceived an improvement in their wealth status has increased; the perception of poverty (i.e. either poor or very poor) declined from 93.5 percent in 2003 to 65.4 percent in 2007. Compared to 2003, fewer people perceived themselves to be poor in 2007 while there was an increase in the proportion that perceived that they were very poor.

igure 3.7: Subjective Poverty



Source: CWIQ 2003 and ISSER Survey, 2007

The Incidence of Extreme Poverty

Unfortunately, data are not available to measure directly the proportion of the population in the district that lives in extreme poverty. The indicators to measure progress made under target 2 of the first MDG are the prevalence of underweight children and the proportion of the population below the minimum required level of dietary energy consumption.

Just as the national average, a quarter of the children in West Gonja District in 2003 were underweight. The proportion of underweight girls was rather lower than the proportion of boys, which was estimated to be about a third of all boys in the district. The incidence of underweight children was lower among girls, particularly in urban households where the incidence among female children in urban areas was negligible. About 32 percent of boys in rural households were underweight compared to 16 percent of girls (Table 3.5).

Stunting among children is an indication of long-term nutritional deficits and, therefore, can be an indicator of chronic poverty. The incidence of stunted children in West Gonja was higher than the national average because of the worse situation of rural boys (Table 3.5).

The proportion of wasted children in rural areas of West Gonja was not significantly higher than the national average but the proportion of boys showing signs of wasting in urban communities was more than twice the national average for boys in urban areas. As is the pattern for the other measures of child nutrition, girls have a lower incidence of wasting than do boys (Table 3.5).

Given the high attendance at ante- and postnatal clinics in the district (Table 5.6), the high recorded incidence of underweight and stunted children in the district in 2003 raises questions about whether mothers understand the information that is provided them and about the capacity of the household to make effective use of the information that has been received.

Food insecurity

One of the ways of measuring poverty among households is to look at the ease with which they satisfy food needs. Compared to 2003, there is an increase in 2007 in the proportion of households that found it sometimes or often difficult to satisfy food needs (Figure 3.8 and Table 3.6).

Table 3.5: Proportion of Stunted, Wasted and Underweight Children, 2003

Measure/Locality	Boys	Girls	Total	National
Stunted				
Rural	45.8	29.4	38.7	33.7
Urban	16.2	0.0	11.1	30.0
Total	43.2	27.8	36.7	32.4
Wasted				
Rural	14.9	13.8	14.4	12.9
Urban	50.3	0.0	34.3	20.2
Total	18.0	13.0	15.9	15.5
Underweight				
Rural	32.1	16.9	25.6	24.4
Urban	34.1	0.0	23.3	28.4
Total	32.3	16.0	25.4	25.8

Source: Ghana Statistical Service, CWIQ 2003, Accra

For instance in 2003 less that 2 percent of the sampled households often found it difficult to satisfy food needs. By 2007 however, an estimated 10 percent could not meet food needs. It is refreshing to note that most households never had any such period where food needs were met with difficulty (50%).

The situation of often not being able to meet food needs was worse for rural areas. However, there has been a considerable jump in this proportion from near 0.0 percent in 2003 to almost 10 percent of the households in urban areas in 2007. This finding is surprising since rural communities are predominantly agriculture-based and most farmers grow food at subsistence level. More male-headed households found it difficult to meet their food needs.

Difficulty in Satisfying Food Needs

Percent
60.0
30.0
20.0
10.0
Never Seldom Sometimes Often

Figure 3.8: Difficulty in Satisfying Food Need

Source: ISSER Household Survey, 2007

Table 3.6: Households that had Difficulty Satisfying Food Needs in the Preceding 12 months (%)s

	Year	Never	Seldom	Sometimes	Often	Total
Location						
Urban	2003	31.1	31.1	37.8	0.0	100
	2007	56.1	5.3	28.9	9.7	100
Rural	2003	49.4	20.0	29.1	1.5	100
	2007	52.1	3.0	34.4	10.5	100
Sex of household head						
Male	2003	50.0	19.8	29.1	1.2	100
	2007	54.6	1.9	36.5	6.9	100
Female	2003	15.7	39.0	41.5	3.7	100
	2007	49.6	9.1	20.8	20.6	100
Total	2003	47.5	21.2	30.0	1.4	100
	2007	53.4	3.7	32.7	10.3	100
<u> </u>					•	

Source: CWIQ 2003 and ISSER Household Survey, 2007

A number of reasons were cited for difficulty in meeting food needs. Chief among them was a poor harvest (21.7%). This could explain why more rural households found it difficult to meet their food needs. Food price hikes were also mentioned among the critical reasons why most households could not meet their food needs as often as would have been expected (Table 3.7). Most households in Ghana receive one form of remittance or the other from family members living in other towns in Ghana or abroad to supplement household expenditure. Less than a tenth (8.3%) of the respondents mentioned a reduction in their remittances as being the main reasons why they found it difficult to meet their food needs.

A poor harvest was the reason about 43 percent of the rural households faced food difficulties. Next in importance was increases in food prices, reduction in remittances and changes in the size of the household due to the death or the departure of a household member or an increase in the size of the household (Table 3.7). The death of a household member was cited by about a fifth of households as a reason for the difficulties in meeting food needs. The illness of an income-earning member of the household and the loss of a job were also important reasons for difficulty in satisfying food needs. They were particular problems for urban households. Other reasons included loss of job, illness or sudden death of an income- earning member of the household.

Table 3.7: Reason why Household Experienced Food Difficulties in the Preceding 12 months

Reason	No. of households affected	% of affected households	% of total households
Income earning member of the household died	6	5.6	2.5
Household left/additional member	10	9.3	4.2
Income earning member of the household lost job	5	4.6	2.1
Income earning member became ill	7	6.5	2.9
Reduction in remittances	20	18.5	8.3
Poor harvest	52	48.2	21.7
Storage problems	13	12.0	5.4
Food prices became too high	28	25.9	11.7
Other reasons	19	17.6	7.9
Total	108	100.0	45.0

Source: ISSER Household Survey, 2007



CHAPTER FOUR

EDUCATION AND LITERACY

Introduction

Two out of the eight MDGs are education-specific. The focus of the second MDG is the attainment of universal primary education (Box 4.1). The third goal is the promotion of gender equality and the empowerment of women. The target under this goal is the elimination of gender disparity in primary and secondary education by 2005, and in all levels no later than 2015. Two of the indicators to monitor progress made towards attaining the third MDG are education-specific and thus highlight the importance of education as a means of empowering women.

There is some overlap between the MDG indicators and the knowledge indicators of the human development index (Box 4.1). The knowledge component of the index is made up of adult literacy and the gross primary, secondary and tertiary enrolment rates.

A review of the 2002-2005 development plan for the district highlighted a number of constraints on both the supply and demand sides such as the following: limited geographical access to education, inadequate number of qualified staff,

inadequate teaching and learning materials

At various levels, inefficient administration and management especially at basic education levels. Parents' interest has also been identified as poor due to several reasons mainly arising from high adult illiteracy and lack of employment opportunities in the district for the youth after completing school. The objective for education in the draft 2006-2009 development plan is therefore to reduce illiteracy through measures such as:

- Supporting organization of STME clinics in the district;
- Supporting functional literacy education programmes; and

Both the MDG indicators and the knowledge indicators of the HDI are output and/or outcome indicators. The process of attaining these outputs or outcomes is fundamental to progress in achieving the MDGs or improving upon the HDI. The next section provides information on some of the inputs that are important in influencing progress towards achieving the MDGs and in improving the human development indicators of the population.

Box 4.1: The MDGs and Human Development Indicators for Educatio

Millennium Development Goals	Human Development
Goal 2: Achieve Universal Primary Education	Knowledge
Net enrolment in primary education	Adult Literacy Rate
Proportion of Pupils Starting Grade 1 who reach grade 5	Gross Primary Enrolment Rate
Literacy Rate of 15-24 year olds	Gross Secondary Enrolment Rate
	Gross Tertiary Enrolment
Goal 3: Promote Gender Equality and Empower Women	
Ratios of girls to boys in primary, secondary and tertiary education	
Ratio of literate women to men, 15-24 year olds	

Education Infrastructure

Number of Schools

The district is endowed with schools that provide pre-school, basic and senior secondary education. Both the private and public sector are active in the provision of education services in the district, although the contribution of the private sector is much smaller than that of the public sector (Table 4.1).

An additional 19 public primary schools and

Table 4.1: Number of Schools

one junior secondary school were established between 2004 and 2006. Primary schools far outnumber junior secondary schools. This suggests that an upsurge in the number of children that transit from primary to junior secondary school will result in overcrowding in classrooms. Indeed, this disparity in the numbers of primary and junior secondary schools can discourage children proceeding to post-primary education since most children will have to travel longer distances to reach junior secondary schools.

Type of School	Public]	Private	Total	
Type of School	2004	2006	2004	2006	2004	2006
Pre-School	36	37	4	4	40	41
Primary	53	72	3	3	56	75
Junior Secondary	17	18	0	0	17	18
Senior Secondary	2	2	1	1	3	3

Source: Ghana Education Service, West Gonja District

Table 4.2Travel Time to the Nearest Schools in West Gonja District, 2007

School/Travel Time	Urban	Rural	Total
Primary School			
Less than 14 minutes	44.2	80.7	69.4
15-29 minutes	33.6	11.3	18.2
30-44 minutes	20.5	3.3	8.7
45-59 minutes	0	0.3	0.2
60 minutes or more	1.7	4.4	3.5
Junior Secondary			
Less than 14 minutes	50.3	50.2	50.2
15-29 minutes	25.3	7.4	1:
30-44 minutes	22.8	4.9	10.5
45-59 minutes	0	6.9	4.8
60 minutes or more	1.7	30.5	21.5
Senior Secondary			
Less than 14 minutes	35.6	0	11.1
15-29 minutes	37.7	0.8	12.3
30-44 minutes	17	13.4	14.5
45-59 minutes	8	4.9	5.9
60 minutes or more	1.7	80.9	56.2

Note: Figures represent % of households that live within the travel time stated Source: ISSER Household Survey, 2007

Table 4.2 shows that over 92 percent of households in rural areas are within 30 minutes of travel to primary schools, about 57.6 percent of households are within 30 minutes of travel to junior secondary schools and just about 1 percent of households are within 30 minutes to senior secondary schools.

Quality of Education

Less than 10 percent of teachers in private pre- and primary schools in the district are trained. The situation is only slightly better in public schools, where in 2006 less than a quarter of teachers in pre- and primary schools were trained (Table 4.3). The situation with trained teachers is better in junior secondary schools.

Indeed, at all three education levels, the expansion in the number of teachers in public schools from 2004 to 2006 occurred largely through an increase in the number of untrained teachers. The proportion of trained teachers in primary schools is far below the GPRS target of 81.3 percent. A major related problem in this regard is how to retain sponsored trained teachers. The district (as well as individuals) has been devoting more resources to training the youth in post secondary education but they prefer to work in southern Ghana because of the deplorable conditions in remote areas of West Gonja District. The other issue raised by stakeholders in the sector is the number of years untrained teachers work without any means of upgrading themselves. Some of them have been working for the past 10 to 15 years and the situation can raise a number of quality issues if they do not pursue formal training or participate in in service upgrading programmes.

Table 4.3Teaching Staff in West Gonja District (2004-2006)

				Pre-school	- Public	
Year		Trained	Untrained	Total	%Trained	Pupil/Teache
	2004	0.0	34.0	34.0	0.0	88.
	2005	23.0	11.0	34.0	67.6	81.
	2006	14.0	49.0	63.0	22.2	52.
				Primary-	Public	
Year		Trained	Untrained	Total	%Trained	Pupil/Teache
	2004	93.0	106.0	199.0	46.7	43.
	2005	74.0	202.0	276.0	26.8	34
	2006	92.0	302.0	394.0	23.4	29
				JSS-Pu	ıblic	
Year		Trained	Untrained	Total	%Trained	Pupil/Teach
	2004	58.0	19.0	77.0	75.3	28
	2005	69.0	37.0	106.0	65.1	22
	2006	75.0	77.0	152.0	49.3	17
				Pre-School	- Private	
Year		Trained	Untrained	Total	%Trained	Pupil/Teach
	2004	0.0	11.0	11.0	0.0	39
	2005	1.0	11.0	12.0	8.3	51
	2006	1.0	11.0	12.0	8.3	45
				Primary -	Private	
Year		Trained	Untrained	Total	%Trained	Pupil/Teach
	2004	1.0	11.0	12.0	8.3	25
	2005	1.0	15.0	16.0	6.3	22
	2006	0.0	16.0	16.0	0.0	25

Source: Ghana Education Service, West Gonja District

The near doubling of the number of teachers in public primary schools reduced the pupil-teacher ratio between 2004 and 2006. The ratio in private primary schools was much lower than the ratio in public schools. In 2006, the pupil teacher ratio was lower than the 2004/5 GPRS target for the Northern Region of 35:1 in both public and private schools.

Enrolment in Schools

School attendance in the district has improved considerably since 2000 when less than 40 percent of any age group from 3 to 24 years was in school. Boys were no more likely to be in school than girls (Figure 4.1). In 2007, over 80 percent of children aged 6 to 12 years are in school. The likelihood of being in school diminishes with age for people

aged between 17 and 24 years (Figure 4.1). The increase in school attendance in 2007 compared to 2000 was not the same for boys and girls. Even though there was an increase in the proportion of boys and girls in all age groups that attended school, a gender gap is evident in 2007 compared to 2000. In 2007, among almost all the age groups, the proportion of boys in school is significantly higher than the proportion of girls (Figure 4.1).

Increases in school attendance came about for several reasons. Between 2002 and 2005, the district strengthened oversight bodies in 71 primary schools and 18 junior secondary schools and organised enrolment drives in 89 communities. Other programmes include support for 300 needy students and supplementary feeding programmes in 29 schools. Implementation

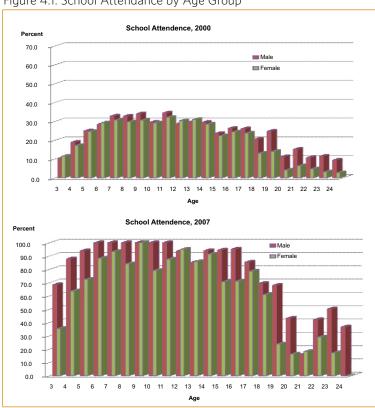


Figure 4.1: School Attendance by Age Group

Source: Computed from 2000 Population and Housing Census and ISSER Household Survey, 2007

of the capitation grant in 2006 and 2007 has also contributed significantly to improved enrolment, particularly in primary schools.

Pre-School

There was an increase in the numbers enrolled in pre-school from 2004 to 2006. Enrolment of girls in pre-school registered a slight dip in 2005 but increased in 2006. Gross enrolment rates in pre-school increased for both girls and boys between 2000 and 2007. However, the gender parity index declined because of the faster increase in the enrolment rate of boys (Table 4.4).

Net enrolment rates are significantly lower than gross enrolment rates (Table 4.5). This suggests that there are a lot of over-aged children in pre-school because children start school late.

Primary School

There was a faster rate of increase in primary school enrolment from 2004 to 2006 than in pre-school enrolment (Figure 4.3). The number of boys enrolled in primary school increased faster than the number of girls. This is reflected in the significantly higher gross enrolment rate for boys compared to girls and the decline in the gender parity index in 2007 compared to 2000 (Table 4.4). The gross enrolment exceeds 100 percent, indicating that there are over-aged children in primary school, particularly in rural communities. The mean age of children in primary school is almost 11 years. The district's gross enrolment rate exceeds the GPRS 2004/2005 target of 70 percent. The gender parity index for the district in 2006 was far below the GPRS 2004/2005 target of unity.

Primary net enrolment rates in 2007 are more than double their level in 2000 (Table 4.5). There was an improvement in the net enrolment rate of both boys and girls. The district has therefore made considerable progress towards the second MDG of universal primary enrolment.

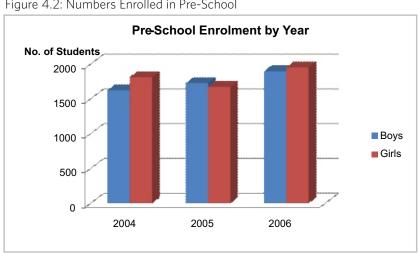


Figure 4.2: Numbers Enrolled in Pre-School

Source: Ghana Education Service, West Gonja District

Junior Secondary

Enrolment in junior secondary schools rose faster for boys than for girls from 2004 to 2006 (Figure 4.4). Gross enrolment rates more than doubled in 2007 compared to 2000 but there was a decline in the gender parity index (Table 4.4). Gross enrolment rates are much lower among rural children. The decline in junior secondary gross enrolment rates compared to primary gross enrolment rates may be explained by children dropping out of school, particularly in rural communities.

Net enrolment rates are considerably lower than gross enrolment rates, again indicating enrolment of over-aged children in junior secondary. The average age of children in junior secondary in 2007 is 17 years, which is much higher than the recommended age of 12-14 years if the child started primary school at 6 years. Most of the children enrolled in rural junior secondary schools are over 14 years old. Interestingly, the net enrolment rate of boys declined in 2007 compared to 2000 and is lower than the net enrolment rate for girls. There was, therefore, no change in the net enrolment ratio between the two years (Table 4.5).

Primary School Enrolment by Year

No. of Students

7000
4000
4000
2000
1000
2004
2004
2005
2006

Figure 4.3: Numbers Enrolled in Primary School

Source: Ghana Education Service, West Gonja District

Table 4.4: Gross Enrolment Ratios, by Sex (%)

Level and Year	Boys	Girls	Gender parity	Urban	Semi-Urban	Rural	Total
Pre-school							
Census 2000	21.0	19.2	91.4	36.2	21.9	13.0	20.1
ISSER 2007	86.4	61.9	71.7	79.5	69.7	67.8	72.6
Primary							
Census 2000	45.1	42.4	94.1	83.1	41.9	27.7	43.8
ISSER 2007	158.3	124.5	78.6	129.7	141.0	154.0	142.7
Junior Secondary							
Census 2000	39.3	36.6	93.1	78.6	34.3	16.9	38.1
ISSER 2007	114.4	88.5	77.4	147.7	111.0	45.2	101.8
Senior Secondary							
Census 2000	28.1	22.4	79.8	54.7	24.0	10.5	25.7
ISSER 2007	22.6	26.0	114.9	40.9	4.8	13.2	24.1
Tertiary							
ISSER 2007	15.8	11.5	72.9	16.9	22.9	2.5	13.8

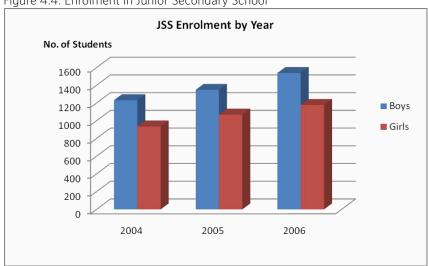
Source: 2000 Population and Housing Census and ISSER Household Survey, 2007

Table 4.5: Net Enrolment Ratios, by Sex of Students (%)

Level and Year	Boys	Girls	Urban	Semi-Urban	Rural	Tota
Pre-school						
Census 2000	5.2	5.5	8.0	6.3	3.7	5.3
ISSER 2007	57.1	37.4	32.8	55.0	40.6	46.0
Primary						
Census 2000	33.8	31.8	61.1	32.0	20.8	32.
ISSER 2007	84.1	70.4	64.8	87.2	78.0	77.
Junior Secondary						
Census 2000	13.7	15.4	30.9	13.1	5.8	14.
ISSER 2007	9.8	19.5	19.8	23.2	0.0	14.
Senior Secondary						
Census 2000	9.3	8.8	19.7	8.0	3.9	9.
ISSER 2007	4.0	7.2	13.3	3.9	0.0	5.
Tertiary						
ISSER 2007	0.0	2.8	3.3	0.0	0.0	1.

Source: 2000 Population and Housing Census and ISSER Household Survey, 2007

Figure 4.4: Enrolment in Junior Secondary School



Source: Ghana Education Service, West Gonja District

Senior Secondary

Enrolment in senior secondary has faltered. The gross enrolment rate did not change much between 2000 and 2007. This is largely because of a decline in gross enrolment rates of boys. The gender parity index increased because the enrolment rate of girls increased over the period while that of boys declined (Table 4.4). The sharp decline in gross enrolment rates at this level compared to junior secondary gross

enrolment rates is because many students do not continue their education after junior secondary school. This is not unexpected because of the average age of children in junior secondary. Most children who complete junior secondary school will be at the age when they are ready to enter the world of work or the world of marriage for girls. Late entry into school increases the probability of not continuing to higher levels of education.

Net enrolment rates in 2007 are very low at 5.4 percent and lower than in 2000 (Table 4.5). Most rural children in senior secondary school are over 17 years, thus resulting in a negligible rural net senior secondary enrolment rate.

Tertiary

The gross tertiary enrolment rate in the district is quite high at almost 14 percent (Table 4.4). The location of an agricultural college in the district may partly explain this. Participation of rural youth in tertiary education is low. This is largely because of the high dropout rate among rural children, particularly after junior secondary school. Net enrolment rates are negligible (Table 4.5).

Educational Attainment and Literacy

With the upsurge in school attendance since 2000, less than 8 percent of men and 14 percent of women aged 15-19 years had never attended school by 2007. The proportion of people that had never attended school increases with age. About 65 percent of men and 87 percent of women aged 30 years and over had never attended school by 2007 (Table 4.6). A higher proportion of rural men and women had not completed

primary education compared to urban residents. There was very little variation in educational attainment across wealth quintiles among either women or men.

Literacy

The district's adult literacy rate is low. This is not unexpected, given the high proportion of the adult population that has either never attended school or only completed primary education. The proportion of the population that is literate declines as age increases for both women and men (Figures 4.5 and 4.6).

The substantially higher literacy rate among the youth is evidence of the surge in school enrolment that has occurred in recent years. Literacy rates are higher among the urban population. Rural women are particularly disadvantaged compared to men and urban women. This makes progress towards the MDG target of reducing the gender gap in youth literacy quite difficult unless efforts to enrol more girls in secondary schools succeed.

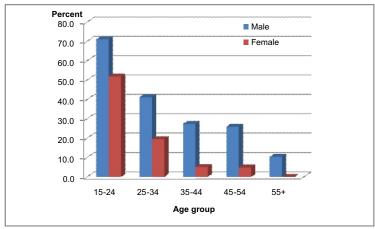
The district is making efforts to make adults functionally literate. Between 2004 and 2006, 6,644 adult learners were trained to acquire skills in income-generating activities, formation of cooperative societies, tree planting, family planning as well as HIV/AIDS control. About 46 percent of them were women.

Table 4.6: Educational Attainment, by Socio-Economic Characteristics of Adults (15 years and above)

	None	Some Primary	Primary	JSS/MLSC	Higher	Total
Men						
Age						
15-19	7.7	44.8	37.5	8.8	1.2	100
20-24	27.9	12.5	26.9	12.8	19.9	100
25-29	23.5	23.9	15.9	0.0	36.7	100
30+	65.5	5.6	7.3	9.3	12.2	100
Residence						
Urban	32.3	23.7	17.2	9.5	17.3	100
Semi-Urban	33.5	43.2	11.1	2.7	9.5	100
Rural	44.0	38.1	9.5	4.5	3.9	100
Wealth Quintile						
Lowest	49.5	23.3	1.4	9.5	16.2	100
2nd	36.3	40.3	12.6	5.2	5.7	100
3rd	32.5	36.7	19.2	4.3	7.4	100
4th	36.8	37.4	10.1	5.7	10.0	100
Highest	35.8	32.3	12.6	4.0	15.5	100
Total	36.9	35.4	12.4	5.4	9.9	100
Women						
Age						
15-19	13.6	31.7	40.9	10.6	3.1	100
20-24	40.1	21.1	13.4	12.0	13.5	100
25-29	57.2	17.1	2.3	11.0	12.3	100
30+	87.3	6.4	1.8	3.1	1.4	100
Residence						
Urban	53.1	21.7	11.0	8.4	5.8	100
Semi-Urban	50.5	31.6	9.7	3.6	4.5	100
Rural	58.8	31.8	5.7	1.4	2.3	100
Wealth Quintile						
Lowest	57.9	22.2	10.3	2.9	6.6	100
2nd	49.8	32.9	7.7	3.5	6.1	100
3rd	58.5	27.1	6.7	4.8	3.0	100
4th	53.0	27.8	10.4	6.1	2.6	100
Highest	53.6	28.8	10.1	4.5	3.0	100
Total	54.2	28.4	8.8	4.5	4.2	100

Source: ISSER Household Survey, 2007

Figure 4.5: Percent of Adults Literate in Either English or a Local Language, by Age Group



Source: ISSER Household Survey, 2007

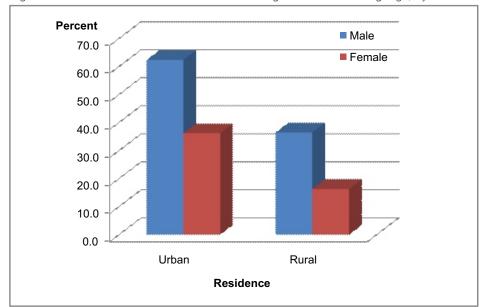


Figure 4.6: Percent of Adults Literate in Either English or a Local Language, by Location

Source: ISSER Household Survey, 2007

Vulnerability and Education Interruptions in school attendance can disrupt the child's ability to understand his or her lessons and can increase the likelihood of a child dropping out of school. In West Gonja

District about 28 percent of pupils aged

between 3 and 24 years missed school at least once during the 2006/2007 academic year. Rural children were more likely to have missed a day of school than did urban children and boys were more likely to miss school compared to girls (Table 4.7).

Table 4.7: Percent of Children that Missed School Days and Number of Days Missed

	Percent that missed	1- 3 times	More than 3 times
Age group			
3 to 5 years	30.9	10.3	89.7
6 to 11 years	30.5	33.8	66.2
12 to 14 years	17.6	50.0	50.0
15 to 7 years	28.9	54.1	45.9
18 to 24 years	30.0	21.0	79.0
Residence			
Urban	17.1	40.9	59.1
Rural	32.8	30.9	69.1
Sex			
male	31.3	32.1	67.9
female	22.9	34.8	65.2
Total	28.3	32.7	67.3

Source: ISSER Household Survey, 2007

Most children who missed school tended to do so frequently. About two-thirds who had missed at least a day at school had done so more than three times. Thus, a not insignificant proportion of children in the district may be described as having a high risk of not completing school because of the disincentive effect that irregular school attendance can create.

attended school irregularly did so for this reason compared to 17 percent of girls (Table 4.8). A phenomenon that was reported only by rural children as a reason for missing some days at school was strikes by teachers. Very few parents reported that the child missed school because of difficulty paying school fees. This is a positive effect of the capitation grant introduced in the

Table 4.8: Reasons for Missing Schools Days (First Term of 2006/2007 Academic Year)

	S	ex	Resid	lence	_
Reasons for missing school	Male	Female	Urban	Rural	Total
Illness	40.9	50.5	53.4	41.7	44.5
Needed on farm/shop/home	11.0	6.0	7.0	9.8	9.2
No money	4.3	7.2	3.5	5.9	5.4
Child not interested	31.3	17.1	30.4	24.7	26.1
Strikes by teachers	12.5	13.9	0.0	17.0	13.0
Other	0.0	5.2	5.7	0.8	1.9

Source: ISSER Household Survey, 2007

Most children missed school because of illness. The second most frequent reason given for irregular attendance at school was lack of interest. This was a particular problem for boys. Over 30 percent of boys who

2005/2006 academic year. The demand for children to provide services on the farm, in the family business or at home was the reason why about 9 percent of children lost some days of school.



CHAPTER FIVE

HEALTH, WATER AND SANITATION

Introduction

Ghana's focus for the health sector has been on attaining the goals of the five-year health sector programme of work which, overall, are to improve the quality of life of the people. Policy emphasis for the current programme of work is on expanding coverage of the National Health Insurance Scheme (NHIS); producing, retaining and distributing health personnel equitably; improving on the delivery of high-impact health interventions; and broadening access to emergency and ambulance services. These objectives, if achieved, would go a long way to improve the country's chances of meeting a number of the targets under the health MDGs.

Specific priorities in West Gonja District to help realise these objectives include

Programmes to improve access to quality health care and intensify health education on the control of preventable diseases such as malaria, guinea worm, TB and HIV/AIDS. The district has also earmarked activities to control population growth, improve infrastructure for health care facilities, sustain improvements in provision of safe water and beef up activities to improve environmental sanitation.

Health Care Infrastructure

The district has nine health institutions made up of one hospital located at Canteen, Damongo, one clinic, six health centres and one CHIPS zone (Table 5.1). There are a number of private pharmacies/drug stores that are patronised by many patients in the district.

Box 5.1: The Health Component of the MDGs and Human Development

Mi	llennium Development Goals	Human Development
*	Reduce child mortality by two-thirds between 1990-2015	Longevity – improving upon the life expectancy at birth
*	Improve maternal mortality	
*	Combat HIV/AIDS, malaria and other major diseases	

Table 5.1: Number of Health Care Facilities in West Gonja District

Type of Facility	Number
Hospitals	1
Clinics	1
Health Centres	6
CHIPS Zone	1
Total Number of Beds	
2004	142
2005	100
2006	100

The number of beds in these health institutions was 100 in 2006, a drop from 142 beds in 2004. In addition to these facilities that are located in five out of six Area Councils, the district has about 30 outreach points to cater for primary health care and other activities under the national immunisation day programmes.

Estimates for access to health facilities measured by distance or travel time taken to reach the nearest health facility show that health care facilities in the district are not adequate and they are unevenly distributed. One of the important reasons for low physical access is the highly dispersed population of the district. Whereas about 60 percent of urban households use less than half an hour to reach a clinic or hospital, over 80 percent (83.4%) of rural households have to use one hour or more to reach a modern health care facility (Table 5.2).

There is also considerable pressure on available personnel and facilities. The attainment of Ghana's health care goals will be accelerated if there is a critical mass of well-trained personnel. However, in West Gonja District the health facilities are manned by three (3) doctors, three (3) medical assistants, two (2) pharmacists and one hundred and two (102) nurses, 19 of whom are community resident nurses (Table 5.3).

Judging by the number of health workers in the district, 26,394 individuals are looked after by one doctor with one medical assistant also taking care of the same number of people. The 19 community resident nurses are responsible for 4,168 people while 83 other nurses each take care of 954 people in the district. There were five specialist visits to health institutions in the district in 2005, four in 2006, and the number of patients seen increased from 894 in 2004 to 1,024 in 2006.

Table 5.2:Travel Time and Means of Travel to Hospital or Clinic (%)

	Urban	Semi-Urban	Rural	Total
Travel Time				
Less than 14 minutes	40.0	45.2	2.5	27.6
15-29 minutes	20.6	13.3	0.0	10.6
30-59 minutes	33.6	26.5	14.1	24.1
60 minutes or more	5.8	14.9	83.4	37.7
Means of Travel				
Vehicle	2.5	34.4	57.6	33.0
On-foot	92.5	51.2	41.0	60.4
Other	5.0	14.4	1.5	6.6

Source: ISSER Household Survey, 2007

Table 5.3Number of Health Workers in West Gonja District

Type of Facility	Number	Population-Worker Ratio
Doctors	3	26,394
Medical Assistants	3	26,394
Pharmacists	2	39,592
Nurses	83	954
Community Resident Nurses	19	4,168
Number of Specialist Visits	Number	Patients Seen
2004	4	900
2005	5	894
2006	4	1,024

19 community resident nurses are responsible for 4,168 people while 83 other nurses each take care of 954 people in the district. There were five specialist visits to health institutions in the district in 2005, four in 2006, and the number of patients seen increased from 894 in 2004 to 1,024 in 2006.

Health Status of Mothers and Children

Infant and Child Mortality

The incidence of child and infant mortality is a critical determinant of life expectancy at birth. The fourth MDG also seeks to reduce child mortality by two-thirds between 1990 and 2015. The reported mortality situation has deteriorated considerably since 2004, as reported in Table 5.4. The total number of reported deaths rose consistently from 64 in 2004 to 89 and 98 in 2005 and 2006 respectively. The number of reported infant deaths almost doubled between 2004 and 2006, after a significant drop in 2005. The institutional estimate for infant mortality is about 122 per 1,000 live births, much higher than both the regional and national ratios of 71/1,000 and 83/1,000 respectively.

The number of reported under-5 deaths also more than doubled over the same period. Maternal deaths also increased from two to four within the two years ending 2006. It is encouraging, however, to note the consistent decline in the under-5 malaria fatality rates from 2004 to 2006. The 2007 ISSER Household Survey results reported two child deaths which occurred before or during childbirth among 38 live births which occurred during the 12 months preceding the survey.

Besides mortality rates, one other indicator used to track progress towards reducing child mortality is the proportion of 1 year-old children immunised against measles. Immunisation coverage for all the six killer diseases improved continuously between 2004 and 2006. In 2006, the immunisation coverage for five of the killer diseases exceeded 100 percent while the coverage of TT2 which failed to hit the 100 percent mark nonetheless increased from 61 percent in 2004 to 83 percent in 2006 (Table 5.5). The increased number of child deaths in the district appears to suggest that the improvement in immunisation coverage has not had a significant impact on the health of children in the district.

The participation of children in nutrition programmes is low, particularly in urban areas. As the results of the ISSER Household Survey suggest, only 27 percent of children below 5 years of age participated in nutrition programmes (Figure 5.1). The rate of participation is higher among rural children compared with urban and semi-urban children.

Table 5.4: Health Status in West Gonja District, 2004-2006

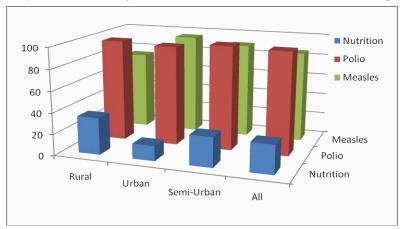
Indicators - Institutional	2004	2005	2006
Total number of deaths	64	89	98
Number of infants deaths	9	3	17
Number of under-5 deaths	12	11	25
Number of maternal deaths	2	2	4
Under-5 deaths due to malaria	8	10	12
Under-5 malaria case fatality rate (%)	2.6	1.7	0.5

Table 5.5: Immunization of Children against Killer Diseases

	2	004	2	2005	2	006
Disease	Number	Coverage (%)	Number	Coverage (%)	Number	Coverage (%)
BCG	3,401	109	3,457	108	4,110	130
Measles	2,791	89	3,132	98	3,687	116
Penta 3	2,887	93	3,296	103	3,618	114
OPV3	2,848	91	3,335	104	3,627	114
Yellow Fever	2,514	89	3,094	97	3,673	116
TT2	1,885	61	2,712	84	2,943	83

Source: Ghana Health Service, West Gonja District

Figure 5.1: Participation of Under-5 year Children in Immunization and Nutrition Programmes



Source: ISSER Household Survey. 2007

In terms of immunisation of children against polio and measles, the ISSER 2007 Household Survey reveals that coverage was high. This is based on the evidence that about 97 percent and 86 percent of children were vaccinated against polio and measles respectively (Figure 5.1). A greater proportion of semi-urban children than rural and urban children received the polio vaccination whereas a greater proportion of urban children benefited from vaccination against measles compared with rural and semi-urban children.

Attendance at Ante- and Post-Natal Clinics

The health of the mother and access to medical care during pregnancy and child birth are important determinants of the incidence of infant and maternal mortality. In West Gonja District, attendance of mothers at ante-natal clinics has declined between 2004 and 2007 and as a result, ANC coverage dropped from 86 percent to 70 percent (Table 5.6). Attendance of mothers at post-natal clinics however improved from 2,684 to 3,144 over the same period, yielding an increase in PNC coverage from 85 percent to 91 percent over the period. Evidence from the 2007 ISSER Household Survey shows high attendance of mothers at pre-natal clinics (Table 5.7). About 92 percent of women receive pre-natal care during pregnancy. A greater proportion of rural women receive prenatal care than women in semi-urban areas. Attendance of women at post-natal clinics is, however, low at 76 percent. Relatively low attendance at post-natal clinics could be explained by the local cultural practice of nursing mothers leaving their usual residence and staying with their parents in different locations outside the district after delivery.

Maternal Mortality

The maternal mortality ratio is an indicator of progress towards achieving the fifth MDG of improving maternal health. Reported maternal deaths increased from 2 in 2004 to 4 in 2006. During the ISSER 2007 Household Survey, only one death each was recorded in rural and urban areas during the 12 months preceding the survey,

representing 0.6 percent and 1.1 percent of deliveries respectively. A second indicator for the assessment of maternal health is the proportion of births supervised by skilled health personnel. The district witnessed a marginal decline in the proportion of mothers attended to by skilled health professionals (doctors, nurses, or midwives) during childbirth from 61 percent to 59 percent between 2004 and 2006 (Table 5.6). The 2007 ISSER Household Survey reveals that only 20 percent of deliveries occur at the hospital or clinic and 32 percent of mothers are attended to by doctors and nurses (Table 5.7).

Table 5.6: Some Reproductive Indicators in West Gonja District, 2004-2006

Safe Motherhood Indicators	2004	2005	2006
Total number of deliveries	1,328	1,103	1,371
Number of supervised deliveries	811	690	810
Number of ANC* registrants	2,717	2,468	2,195
% ANC coverage	85.6	77.2	70.0
Number of PNC** registrants	2,684	3,091	3,144
% PNC coverage	84.7	96.7	90.5

*ANC = ante-natal clinic**PNC = post-natal clinic Source: Ghana Health Service, West Gonja District

Table 5.7 Maternal and Child Health Indicators 2007 (% of Women, 13-49 years Who Were Pregnant during the Last Months Preceding the Survey)

	Rural	Urban	Semi-urban	All
Pre-natal care	94.8		86.1	92.4
Post-natal care	80.3		61.9	76.0
Live birth	75.9	55.2	65.1	67.7
Baby born dead			11.9	4.6
Who supervised delivery?				
Doctor	3.1	21.6	7.9	8.6
Nurse	21.5	35.8	19.3	23.4
TBA	69.2	42.6	52.0	57.1
Mother			20.8	8.4
Self	6.3			2.5
% of death during childbirth	0.6	1.1		0.6
Place of delivery				
Hospital	16.7	31.0	15.8	20.0
Home	83.3	69.0	84.2	80.0

Source: ISSER Survey, 2007

Traditional birth attendants, some of whom are trained, take care of about 57.1 percent of deliveries. The observed difference between estimates from the survey and those obtained from institutional records could be due to wider coverage of the St Dominic Hospital and other factors the report could not investigate.

Incidence of Diseases

One of the cardinal goals of the MDGs is to combat HIV/AIDS, malaria and other major diseases. The target in this regard is to halt and reverse the spread of HIV/AIDS and incidence of malaria and other major diseases. The leading cause of morbidity in West Gonja District is malaria, which accounted for over half of all out-patient cases in 2006, followed by diarrhoea, acute respiratory infections (ARI) and skin and ulcer (Table 5.8). Although, the proportion of

malaria cases reported at hospitals and clinics dropped from 63 percent in 2005 to 58 percent in 2006, it still remains high and a major challenge to health delivery in the district.

Apabidity, malaria constitutes the major cause of death in the district followed by pneumonia. In 2005, HIV/AIDS was the fourth leading cause of death in the district whereas anaemia was third on the list of leading causes of death in 2006 (Table 5.9). Malaria-related deaths of under-5 children rose from 8 in 2004 to 10 and 12 in 2005 and 2006 respectively (Table 5.4). Both the morbidity and mortality statistics suggest that the district has not made significant progress in the last five years to halt and/or reduce the incidence of malaria. This raises concerns about environmental sanitation and the effectiveness of methods adopted in preventing malaria infection.

Table 5.8: Top Causes of Morbidity in West Gonja District

	2004		2005	5	2006	3
Cause	Number	%	Number	%	Number	%
Malaria	15,376	62.8	15,261	56.9	15,941	57.8
Diarrhoea	2,154	8.8	2,093	7.8	1,869	6.8
UTI	1,434	5.9	389	1.4	-	-
Intestinal Worms	978	4.0	944	3.5	859	3.1
Skin and Ulcers	932	3.8	1,316	4.9	1,748	6.3
ARI		0.0	1,090	4.1	1,781	6.5
Pneumonia	603	2.5	571	2.1	708	2.6
Hypertension	578	2.4	508	1.9	529	1.9
Acute Eye Infection	456	1.9	511	1.9	-	-
Rheumatism and Joint Pains	411	1.7	-	-	461	1.7
Gynaecological Conditions	324	1.3	-	-	-	-
RTI	-	-	681	2.5	-	-
Anaemia	-	-	-	-	872	3.2
Other Diseases	1,226	5.0	3,478	13.0	2,791	10.1
All OPD Cases	24,472	100.0	26,842	100.0	27,559	100.0

Table 5.9: Leading Causes of Death in West Gonja (Number of Deaths: 2005-2006)

Cause	2005	2006
Malaria	16	27
Pneumonia	9	12
CVA	8	
AIDS	7	4
Abcess/Cellulites	4	
Anaemia	4	6
Septicaemia	4	2
Hepatitis	3	
Kidney/Renal Conditions	3	
Tetanus	2	
Others	29	27
Total	89	78

Source: Ghana Health Service, West Gonja District

Strategies for Combating Malaria

Various mechanisms are often adopted by households to prevent malaria. The ISSER Household Survey reveals that about 90 percent of households take measures to protect themselves against mosquitoes. The most popular strategies employed to prevent malaria are adults and children sleeping in treated bed nets, regular clearing of weeds on compounds and the regular use of mosquito coil (Table 5.10). These strategies are common in rural, urban and semi-urban areas but a significant number of households in semi-urban and urban areas used the methods more often than rural households. A considerable number of households, particularly in rural and urban areas as against semi-urban areas do nothing to prevent malaria.

The popular use of treated bed nets by households reflects the increase in the number of insecticide-treated nets purchased. Between 2005 and 2006, the number of purchased insecticides treated bed nets more than doubled (Figure 5.2) but this did not help reduce the incidence of malaria significantly in the district as the number of malaria cases reported at the hospitals increased by nearly 800 cases over the period. There is still need to encourage their use, particularly for children, because nearly half the households in the district continue to apply less effective methods to combat this disease among children.

	Urban	Semi-Urban	Rural	Tota
Children sleep in treated bed nets	40.3	53.7	56.0	50
Adults sleep in treated bed nets	49.9	63.0	65.2	59.
The house is sprayed regularly	11.4	9.9	5.8	8.
The compound is weeded regularly	56.4	67.1	46.5	56.
Use mosquito coil regularly	51.3	48.3	44.7	47.
The windows in house have mosquito nets	4.2	10.4	0.0	4.
The gutters are cleaned regularly	3.9	2.8	1.3	2.
Take anti-malaria tablets regularly	2.8	6.2	0.7	3.
Nothing	13.9	7.7	11.4	11.
Special leaves (repellent)	0.0	4.7	1.5	2.

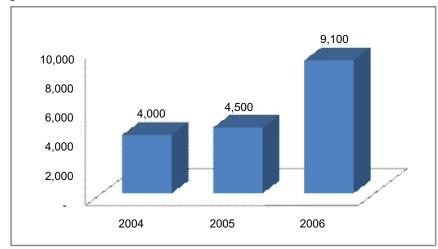


Figure 5.2: Number of Purchased Insecticide-Treated Bed Nets (ITNs) in West Gonja

Source: Ghana Health Service, West Gonja District

HIV/AIDS

While the district is making some progress in reducing the incidence of guinea worm infestation and tuberculosis, the HIV/AIDS situation seems to be worsening (Table 5.11). The district witnessed a consistent reduction in the reported number of guinea worm cases from 32 new cases in 2004 to 8 new cases by the end of 2006. With respect to HIV/AIDS, the number of cases diagnosed, which dropped marginally from 41 in 2004 to 39 in 2005, rose to 46 in 2006. The disease is more prevalent among the youth aged 20-24 to the extent that over half of the cases reported were among this age group. HIV sero-prevalence among the youth aged 20-24 increased from 22 in 2004 to 23 and 26 in 2005 and 2006 respectively. These statistics send a worrying signal with regard to attaining the MDG goal of halting and reversing HIV/AIDS infection rates.

Access to Safe Water and Sanitation

Access to safe drinking water and basic sanitation is one of the targets of the seventh MDG of ensuring environmental sustainability. Under this goal, countries are required to ensure an increase in the proportion of the population with sustainable access to an improved water source and sanitation. Improving household access to safe drinking water and basic sanitation reduces the level of

Table 5.11Reported Cases of Guinea Worm, TB and HIV/AIDS

	2004	2005	2006
No. of Guinea worm cases seen	32	25	8
No. of TB patients detected	35	24	19
No. of HIV positive cases diagnosed	41	39	46
HIV Sero-prevalence among			
15-19 years	0	1	2
20-24 years	22	23	26

vulnerability to health hazards. Indeed, the best way of preventing the outbreak of diseases such as malaria, diarrhoea and other related diseases is to enhance access to safe drinking water and safe sanitation.

Improved access to safe drinking water refers to the increased proportion of households that draw water from pipes in dwellings or in compounds, and from boreholes and protected wells. By this definition, about 90 percent of rural and urban households have access to safe water in 2007 (Figure 5.3). Access to safe water for semi-urban households was, however, low at about 57 percent, mainly because of the scarcity of safe water in Larabanga. The district saw a remarkable improvement in access to safe drinking water between 2000 and 2007 particularly in rural areas where access to safe drinking water improved from about 25 percent to over 90 percent. In urban and semi-urban areas, access to safe drinking water improved from under 80 percent and 25 percent respectively to over 90 percent and 55 percent between 2000 and 2007. The construction of boreholes in a number of communities contributed to the remarkable improvement in access to safe

accounted for the reduction in the reported cases of guinea worm in the district.

Clearly, the availability of safe toilet facilities and safe disposal of refuse has a direct bearing on the health of citizens. Access to safe sanitation in the district is very low especially among the rural population. This may compel households to resort to unorthodox means of human waste disposal such as defecating in the bush without regard to its adverse environmental and health consequences. As shown in Figure 5.4, over 95 percent of rural households are without access to safe toilet facilities in 2007. The situation was relatively better in semi-urban and urban households where about 25 percent and 40 percent respectively have access to safe toilet facilities.

The low access to a safe toilet facility in 2007 was nonetheless an improvement on the situation in 2000. For instance, access to a safe toilet facility improved remarkably from less than 5 percent to about 40 percent in urban areas and from about 1 percent to approximately 15 percent among semi-urban households.

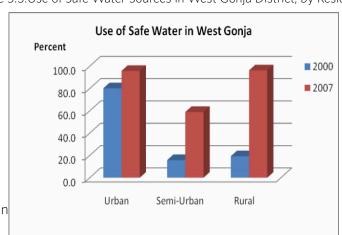


Figure 5.3:Use of Safe Water Sources in West Gonja District, by Residence

drinking water an

Source: ISSER Survey, 2007

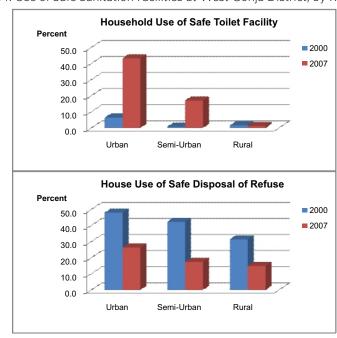


Figure 5.4: Use of Safe Sanitation Facilities at West Gonja District, by Residence

Source: 2000 Population and Housing Census and ISSER Household Survey, 2007

The adoption of safe means of refuse disposal is also low and has declined since 2000. Less than 25 percent of urban households and 15 percent of semi-urban and rural households have employed safe means of refuse disposal in 2007 (Figure 5.4). In 2000, about 45 percent of urban households and 40 percent and 30 percent of semi-urban and rural households respectively adopted safe means of refuse disposal. The limited use of safe disposal of refuse suggests that the means of solid waste disposal by most households in the district could be deemed as environmentally unfriendly. This could lead to the breeding of mosquitoes and other dangerous insects that cause malaria and other parasitic diseases. In all, access to basic sanitation in many communities needs to improve so as to minimise the risk of outbreak of diseases.

Use of the National Health Insurance Scheme

The National Health Insurance Scheme

(NHIS) is a mechanism to increase access to quality health care services. The scheme is designed to reduce the cost of access to quality health services, particularly for the poor and deprived. Registration with health insurance schemes in the district is well above the national coverage rate mainly because the scheme in the district was one of the pilot schemes and has been operating since 1995. Even though over 50 percent of the population is not registered or covered, the scheme has seen significant improvement in uptake by the citizens. About 25 percent of the population is registered and 23 percent is covered by the implicit built-in exemption (Table 5.12). About 48.4 percent of men and boys are registered compared with 47.9 percent of women and girls. A larger proportion of the urban population is registered or covered compared to the semi-urban and rural population (Table 5.12). About 58 percent of farmers are not registered or covered as against 48 percent of the non-agriculture workforce.

This increase could largely be attributable to the support the scheme now derives from its decision to join the NHIS. It used to be solely managed by the Catholic Hospital at Canteen and was receiving irregular assistance from NGOs after it was initially set up with funding from a German NGO in 1995. In February 2002, the scheme was covering less than 15 percent of the population in the district; with poor and rural households being severely disadvantaged (Osei-Akoto, 2004).

The exception to this observation on recent increases in subscription is the subpopulation of people aged over 70 years and those below 18 years. The elderly, people under 18 years of age, fully registered parents and the indigent are exempt from paying the premium to register for health insurance under the district scheme. It is surprising,

therefore, that only 40 percent of the elderly and 48 percent of people below 18 years are registered or covered. A discussion with the scheme manager revealed that the phenomenon could be due to incomplete registration by some households. This nature of adverse selection could lead to serious sustainability problems if it is not addressed.

It is quite clear from Figure 5.5 that the propoor objective underlying the NHIS is been achieved in the district. A larger proportion of households in the lowest wealth quintile register compared with those in other quintiles. The proportion of households registered or covered by the scheme declines with increased wealth up to the third quintile, after which it rises again. This suggests that middle-income households are less likely to enrol in the scheme compared with the lower and higher income households.

Table 5.12: Health Insurance Status of Individuals in West Gonja, 2007

Characteristics of Individuals	Registered	Covered	Non-member	Total
All	25.2	22.9	51.8	100
Sex				
Male	24.9	23.5	51.6	100
Female	25.5	22.4	52.1	100
Age				
Under 18 yrs	7.4	41.1	51.5	100
18-69 yrs	44.9	1.4	53.8	100
70 and above yrs	24.6	15.4	60.0	100
Residence				
Urban	37.5	32.8	29.8	100
Semi-Urban	17.7	14.1	68.2	100
Rural	20.5	21.4	58.1	100
Main Occupation (HH)				
Agriculture	22.7	19.6	57.7	100
Non-Agric	26.6	25.3	48.1	100
Wealth Quintile (HH)				
Lowest	34.7	37.5	27.8	100
2nd	22.4	17.9	59.8	100
3rd	13.6	12.3	74.1	100
4th	30.6	27.0	42.3	100
Highest	28.9	26.6	44.5	100

Individual Health Insurance Status Percent 40.0 Registered 35.0 30.0 25.0 20.0 15.0 10.0 5.0 0.0 Lowest 2nd 3rd 4th Highest **Household Wealth Quintile**

Figure 5.5Individual Health Insurance Status in West Gonja District, 2007

Source: ISSER Household Survey, 2007

Table 5.13 reports on the proportion of households that have all or some members registered with or covered by the scheme. Only 13 percent of households have all members registered or covered by the scheme compared with 46 percent which have some members enrolled in the scheme.

A larger proportion of female-headed than male-headed households have all or some members enrolled in the scheme. Similarly, a larger proportion of urban than semi-urban and rural households have all or some members registered or covered by the scheme.

Table 5.13: Health Insurance Status of Households in West Gonja, 2007

Characteristics of Households	All are Members	Some are Members	All are Non- Members	Tota
All	12.9	45.6	41.5	100
Sex				
Male	12.8	45.3	41.9	100
Female	13.5	46.3	40.1	10
Educational Status				
Ever been to School	22.9	36.1	41.0	10
Never been to School	7.2	51.1	41.8	10
Residence				
Urban	16.7	59.7	23.7	10
Semi-Urban	12.1	32.5	55.4	10
Rural	10.6	44.9	44.6	10
Main Occupation				
Agriculture	11.2	42.0	46.9	10
Non-Agric	14.3	48.4	37.3	10
Wealth Quintile				
Lowest	25.0	50.0	25.0	10
2nd	9.8	38.9	51.3	10
3rd	4.6	29.5	65.9	10
4th	11.6	58.3	30.1	10
Highest	19.0	56.6	24.4	10

With regard to education of the household head, while a larger proportion of households headed by educated people have all members registered or covered, the reverse is true in terms of households with some members enrolled in the scheme. The differences in these socio-economic grouping are partly due to design effects built into the NHIS. Households in urban areas or the educated are more likely to be engaged in the formal sector which has "compulsory" membership status in the scheme.

It is rather surprising to note that there is a higher degree of selection of household members for registration among the higher wealth quintiles. A larger proportion of households in the lowest wealth quintile have all members registered compared with households in other wealth quintiles. In terms of households that have some members enrolled, 58 percent and 57 percent of households in the 4th and highest quintile have done so compared with 50

percent in the lowest quintile (Figure 5.6).

Sustainability of the scheme depends on several factors, but the most important is the ability of the scheme managers to sustain the interest of subscribers and keep them registering year after year. The status on this aspect of the scheme in the district is not encouraging. Since first registration, about 23 percent have registered once while 16 percent and 10 percent have registered twice and three times respectively (Table 5.14). Less than 5 percent have registered five or more times since the scheme started operating in the district. With over 10 years of operation, one would have expected many households to have renewed their membership a number of times. To address this issue and proper targeting of subsidies for children, the management team of the district NHIS has tabled a suggestion to redirect subsidies to children in schools so that the inability or refusal of parents to join may not affect their wards. This suggestion should be given serious thought.

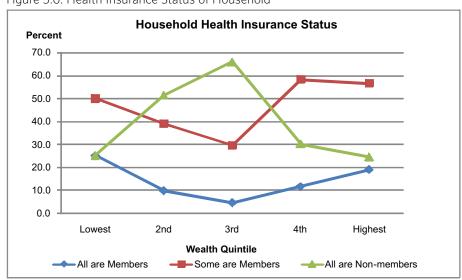


Figure 5.6: Health Insurance Status of Household

Table 5.14: Number of Times Registered with the Insurance Scheme

		Number of Times					
Characteristics of Individuals	None	One	Two	3 to 5	More than 5		
All	47.1	22.7	16.1	10.3	3.		
Sex							
Male	47.7	20.4	18.3	10.3	3.		
Female	46.5	25.0	13.9	10.3	4.		
Age							
Under 18 yrs	46.4	23.6	16.1	11.1	2		
18-69 yrs	49.3	21.3	15.5	9.2	4		
70 and above yrs	58.8	16.9	12.8	6.9	4		
Residence							
Urban	23.4	36.2	23.4	10.0	7		
Semi-Urban	62.2	8.7	12.8	13.4	3		
Rural	56.3	23.1	12.0	7.1	1		
Main Occupation (HH)							
Agriculture	51.5	18.3	13.7	13.8	2		
Non-Agric	45.2	26.1	17.7	6.2	4		
Wealth Quintile (HH)							
Lowest	17.0	47.1	14.0	11.8	10.		
2nd	59.2	11.6	20.6	6.0	2		
3rd	66.2	10.3	9.5	12.8	1.		
4th	42.1	23.2	20.5	9.0	5		
Highest	37.2	36.1	12.2	12.2	2		

Source: ISSER Household Survey, 2007

Use of lodated Salt

The use of iodated salt for cooking helps reduce the incidence of iodine deficiency, which can in turn result in the enlargement of the thyroid. It can affect the development of the foetal brain and subsequent cognitive development. Where the incidence of iodine deficiency is high in a population, it has been found to reduce the average IQ by 10-15 percent, which can have an adverse effect on national development.

The practice of using iodated salt by households in the district is low. Only 29

percent of households claim to use iodated salt in their cooking. It is used by a greater proportion of urban than rural households. About 48 percent of urban households use iodated salt in their cooking compared with 24 percent and 18 percent of semi-urban and rural households respectively. The use of iodated salt is higher among female-headed than among male headed households (Table 5.15). Similarly, households headed by someone who has had some education are more likely to use iodated salt in cooking than households headed by an uneducated person.

Table 5.15Household Use of lodated Salt in West Gonja District, 2007

-				
	Urban	Semi-Urban	Rural	Total
All	47.5	23.5	17.5	28.8
Sex	_			
Male	47.9	23.1	17.9	27.8
Female	46.6	24.6	14.6	31.6
Educational Status	_			
Ever been to School	59.1	30.2	15.2	35.6
Never been to School	39.4	19.0	18.5	24.7



Source: www.ghanaweb.com (18.09.07)

CHAPTER SIX

VULNERABILITY AND THE MDGs

Introduction

The West Gonja District Assembly, in its medium-term plan for the period 2006-2009, identified five main groups as vulnerable and excluded. These are women, children, people with disability, and people living with HIV/AIDS. From the groups identified by the District Assembly, it would appear that virtually everybody except ablebodied men in the district is vulnerable. The vulnerability of these groups arises because of socio-cultural practices and the perception of the rest of the community. In the case of women, the other reasons attributed to their vulnerability are lack of education and assignment of roles.

In general, vulnerability may be defined as the likelihood that an individual or a group of people will have some stress in their livelihood which will have negative consequences on their well-being in future. The understanding is that households currently considered as non-poor might face negative shocks that lower their level of wellbeing. This is a very broad conceptualisation of vulnerability because it is a multidimensional phenomenon that affects several aspects of livelihood in terms of illness, unemployment, changes in family structure or negative social events such as sexual abuse. Although there is a close link between vulnerability and poverty, vulnerability is independent of the current poverty status of an individual or community.

This conceptualisation is in line with Alwang and Sigel (2000) who define vulnerability as the propensity to suffer a significant welfare shock, bringing the household below a socially defined minimum level. It is also consistent with the understanding of vulnerability in the GPRS II, which defines vulnerability as "a state of deprivation based on poverty or lack of enjoyment of other rights and entitlements ..."18 According to GPRS II, vulnerability leads to the exclusion of disadvantaged groups of men, women and children and people with disability from active participation in different aspects of society's activities and results in them being unable to protect themselves against exploitation and risks.

The analysis of vulnerability in West Gonja District therefore considers the nature of shocks in the district, the frequency of shocks and the groups vulnerable to these shocks. The assessment also describes coping mechanisms used by households to counteract these shocks. This discussion of vulnerability seeks to understand the capacity or otherwise of households in the district to cope with shocks and their resilience against these shocks.

Frequency of Shocks

The number of reported shocks was assessed at three levels by sex of household heads, by location and by occupation. More

¹⁸ Republic of Ghana (2005), p.1

female-headed households (50%) reported no shocks than male-headed households (40%). This means at least 50 percent of households in the district experienced one or more shocks over the 12 months which preceded the survey. The highest occurring number of shocks was one (about 20% of households), 15 percent of female-headed households and 20 percent of male-headed households experienced two shocks in the year, while 10 percent of female-headed households and 12 percent of male-headed households experienced three shocks in the year.

households. Semi-urban households in communities such as Daboya and Larabanga also experienced more multiple shocks than households in other locations. Almost 30 percent of semi-urban households faced three shocks within the year compared to less than 10 percent of households in both urban and rural communities. This is to be expected, given the changing livelihood contexts in semi-urban communities as a result of the use of electricity, to which they had access only recently.

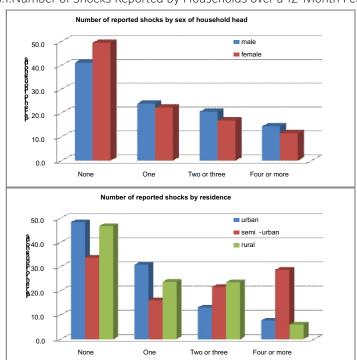


Figure 6.1: Number of Shocks Reported by Households over a 12-Month Period

Source: ISSER Household Survey, 2007

From the point of view of residence, it can be observed that vulnerability is highest in semi-urban and rural communities. The differences may arise from the fact that urban households have a more diversified occupational base while households in rural areas are concentrated on agriculture, which records the largest number of shocks for

Households which depend on agriculture are theoretically expected to face more livelihood shocks in a year because of the seasonality of their occupation and their exposure to the vagaries of the weather. More agricultural households experienced four or more shocks compared with non-agricultural households (Figure 6.2).

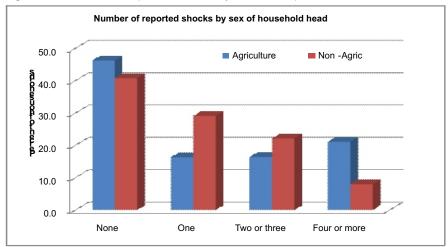


Figure 6.2: Number of Reported Shocks by Main Occupation of Head of Household

Source: ISSER Household Survey, 2007

Nature of Shocks

Shocks were classified in different ways. First, shocks were identified on the basis of the causes or how they affect households. Shocks may be caused either by human activities or by nature (for example, conflict, policy changes, terms of trade shocks, illness and death) and their effects on people could afflict several households in a community or only a few of them at a time (see Box 6.1 for details). The results outlined in Table 6.1 show clearly that the majority of households reported that the shocks they faced were human-related (47%) compared to the 23 percent of

households that reported natural shocks.

Natural causes include poor rains. Discussions with opinion leaders confirmed this problem and revealed that the issue in recent years is their difficulty in predicting rainfall for effective farming. The rains either come too early or too late and in such cases, food crops such as maize could be completely destroyed. The impact is reported to be severe because of the near complete dependence on nature for farming in the district. Human-related shocks include theft of crops, cash, and harvest and others (see Figure 6.3).

Box 6.1 Classification of Shocks

Natural Shocks Poor rains that caused harvest failure Pest invasion that caused harvest failure	Human-Related Shocks Death of working member of the household Death of someone who sent remittances
Pest that caused storage losses Plant disease that caused harvest failure	Illness of income-earning member of the household Departure of income-earning member from the
Loss of property due to flooding	household Theft of assets, fire, price shocks and riots
Covariate Shocks Poor rains that caused harvest failure Pest invasion that caused harvest failure Pest that caused storage losses Plant disease that caused harvest failure Loss of property due to flooding Loss of property due to riots Price shocks Riots	Idiosyncratic Shocks Death of working member of the household Death of someone who sent remittances Illness of income-earning member of the household Departure of income-earning member from the household Theft of assets

Alternatively, shocks were classified on the basis of whether they are price changes, changes in household composition or impact on production, assets, or income of households. Asset loss is an important shock in West Gonja District that affects more than a third (35%) of households. This event is largely due to the loss of livestock, which could occur either through death as a result of disease or lack of water or through theft. Stakeholders' discussions pointed out difficulties the communities face with regard to the activities of Fulani herdsmen. They complained of environmental destruction, destruction of farms and organised stealing of livestock. These problems have to be tackled to avoid deadly encounters with the Fulani herdsmen and their collaborators. The loss of livestock not only reduces the family's wealth and source of income, it also impinges on the household's ability to cope with or adjust to other shocks.

suffered from increases in utility prices, while 14.5% complained about increases in major food prices and a further 4.1 percent complained about increases in input prices. Logically, it would appear that rising food prices would increase the incomes of food farmers. On the contrary, however, affected households indicated that rising food prices reduced their real incomes. Part of the explanation lies in the tendency of farmers to sell their produce to meet urgent social obligations immediately after harvests when prices are low. They then buy back the produce during the lean season when prices are highest. It is reported that about 50 percent of farmers' produce may be sold off to meet social obligations. Thus, high food prices tend to adversely affect farmers' real incomes, their ability to cope with food shortages during the lean season, and the extent of assets loss as they sell livestock and other assets to purchase food.

Table 6.1: Types of Shocks that Affected Households over a 12-Month Period

Type of Shock	Percent of households
Covariate	38.7
Idiosyncratic	30.1
Human-related	47.0
Natural Event	23.5
Price Shock	23.1
Production-related	23.5
Asset Loss	35.0
Changes in Household Structure	3.2
Income Loss	4.4
Other	2.4
No Shock	43.1

Source: ISSER Household Survey, 2007

Policy-induced shocks resulting from price changes also affected households in several ways. More than 20 percent of the households in the district reported that they were adversely affected by price changes. Utility price increases were the most frequent price shock reported; about 15 percent of households reported that they

A decline in output prices also affects some households (just about 3.8%, but the impact could be very severe especially when not anticipated). Discussion with community leaders, mostly in rural areas, revealed that this could happen from the influence of "middlemen" because of limited access to food markets and/or because of bumper

harvests that could not be stored and/or when there is a slow down in demand.

Risk may also be classified on the basis of whether it is idiosyncratic or covariate. Idiosyncratic risks are those events that are specific to an individual or a household. Covariate risks tend to affect the community. Some shocks or risks are difficult to classify in this way. One such example is the death of livestock. Whether it is a covariate shock or idiosyncratic shock depends on the cause of death. Covariate (38.7%) shocks, including poor rains, were experienced by more households in the district than were idiosyncratic shocks (30.1%) such as illness, death or disability.

Identifying Vulnerable Groups

As explained earlier, more male-headed households reported experiencing shocks than households headed by women. Asset loss is the main shock which adversely affects male-headed households while female-headed households are more likely to be affected by price shocks. Female-headed households are more likely to be in livelihood activities which are trade related while maleheaded households are likely to engage in production-related livelihoods (Table 6.2). This explains why more male-headed households are adversely affected by production-related shocks (25.8%) while more households headed by women are affected by price-related shocks (16.5%).

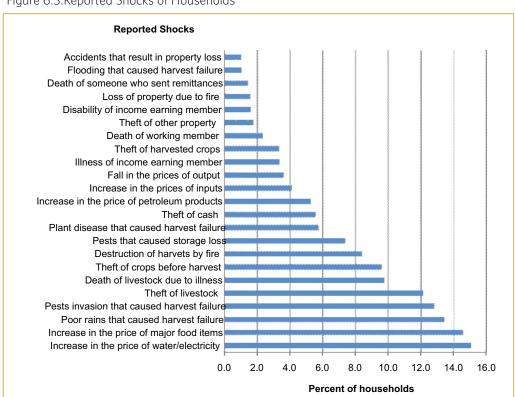


Figure 6.3:Reported Shocks of Households

Asset loss is a dominant shock for rural, urban and semi-urban households. Semi-urban households are more likely to face price shocks than urban and rural households. Naturally, households that are mainly engaged in agriculture are more likely to be adversely affected by losses in assets and production-related problems such as low rainfall, poor harvest, fires, death of livestock and others.

because they happen almost every year.

Although more male-headed households were more likely to have shocks in the district, they were also more likely to recover from shocks than households headed by women; 72.4 percent of male-headed households were able to recover from shocks within the year compared to 53.8 percent of female-headed households.

Table 6.2: Reported Shocks by Household Characteristics (%)

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Characteristic of Head o	f		Production-		Household	Income
household	No shock	Price shock	related	Asset Loss	Structure	Loss
Sex						
Male	58.9	22.1	25.8	40.1	2.3	3.0
Female	50.5	26.2	16.5	19.5	5.8	8.8
Residence						
Urban	51.6	22.5	12.2	30.2	2.8	0.0
Semi-Urban	66.3	40.8	29.4	43.3	1.8	7.7
Rural	53.3	8.7	27.9	32.1	4.6	5.2
Main Occupation						
Agriculture	53.8	18.5	36.0	38.9	3.1	3.6
Non-Agric	59.2	26.6	13.8	32.0	3.2	5.0
Wealth Quintile						
Lowest	44.1	11.1	13.9	28.8	0.0	1.4
2 nd	68.6	29.5	27.2	47.0	2.2	2.4
3 rd	66.8	32.8	31.7	44.0	5.9	9.1
4 th	49.2	13.5	26.1	32.2	4.4	4.4
Highest	48.7	24.9	12.5	14.8	2.2	3.8

Source: ISSER Household Survey, 2007

Recovery from Shocks

Some households are able to overcome shocks within the year. The ability to overcome these shocks depends on the nature of the shock and household characteristics. Up to 68.4 percent of households in West Gonja District reported that they have overcome shocks (Table 6.3). This is a positive development since recovery from shock implies that households have adequate coping mechanisms. The other interpretation to this finding is that these events could be cyclical or anticipated

Rural households had a higher propensity to recover from shocks (76.2% of households) compared to urban households (68.8%) and semi-urban households (60.5%). This outcome puts semi-urban households in the district among the most vulnerable groups which require immediate attention. This is because apart from experiencing severe multiple shocks, they have a relatively low level of recovery.

Tab le 6.3: Percent of Households that Recovered from at least One Shock

Characteristic of Head of	
household	Percent
All	68.4
Sex	
Male	72.4
Female	53.8
Residence	
Urban	68.8
Semi-Urban	60.5
Rural	76.2
Main Occupation	
Agriculture	74
Non-Agric	64.4
Wealth Quintile	
Lowest	66
2 nd	82.3
3 rd	52.4
4 th	74.8
Highest	63.6

Source: ISSER Household Survey, 2007

Non-agricultural households have less likelihood of recovering from shocks than agricultural households. This may be because non-agricultural households have shocks related to prices and asset loss. Whereas asset losses can be prevented to an extent, price changes cannot be controlled. Agricultural households however have asset loss and production-related problems which can be controlled to an extent.

Coping Strategies

Various interventions to cope with shocks exist in the district, mostly at household

level. Discussions on social protection in developing countries indicate that the capacities of individuals, households, and communities to handle risks and their choice of risk-management instruments depend on the characteristics of those risks (their sources, correlation, intensity, and frequency) and the portfolio of assets that the individuals, households, and communities control (Tesliuc and Lindert, 2004). De Ferranti et al. (2000) explain that efficient risk management involves a combination of strategies for: (i) risk prevention; (ii) risk mitigation by pooling uncorrelated risks or sources of income or by making use of formal and informal insurance; and (iii) coping strategies designed to relieve the impact of the risk once it has occurred. Finally, risk-management instruments fall into three main categories: (i) informal arrangements; (ii) market-based arrangements; and (iii) public arrangements within or outside the scope of social protection. We included 21 different strategies in pre-coded form in the household survey and recorded those that were mentioned by households. We allowed the households to report a maximum of four strategies per shock. In the interests of brevity and ease of interpretation, the 18 responses were grouped into six categories: self-help or self-insurance, informal insurance, market-based insurance, reduced consumption, other strategies such as help from government and NGOs (see Table 6.4 for details of specific strategies) and those who did nothing.

Table 6.4: Coping Strategies used by Households in West Gonja District

	Proportion of affected households
Strategy	that applied strategy (%)
Self-Help or Self-Insurance	29.9
Sale of Livestock	8.3
Sale of Land	4.6
Sale of other Property	16.7
Engage in additional income-earning activity	6.1
Members of Household Migrate for work	0.8
Informal Insurance	26.3
Sent children to live with friends/relatives	0.8
Assistance from friends and relative (not expected to pay back)	16.7
Borrowed from friends and relatives	6.1
Delayed payment obligations	6.8
Market Insurance or use of credit	16.3
Loan from a financial institution	0.8
Credited purchases	2.3
Sold harvest in advance	1.8
Relied on savings	9.9
Consumption Reduction	15.0
Reduced food consumption	13.6
Reduced non-food consumption	1.4
Other	0.8
Did Nothing	46.6

Source: ISSER Household Survey, 2007

The last category, "did nothing", was a peculiar option that is difficult to interpret. When a shock affects the material welfare of households, some actions are necessary, either to adjust the standard of living downwards or to use other arrangements (assets, informal, formal or social) to mitigate the fall. The 21 remaining options were comprehensive enough for it to seem unlikely that this answer would be chosen very often. Surprisingly, a large share of households reported that they "did nothing" as their main coping strategy; on average 46.6 percent of affected household said that they did nothing. This means that even though the events occurred, those households did not see them as shocks,

implying that they are more resilient to common problems than other households. Table 6.5 confirms that male-headed households or households in non-urban areas in the district tended to report doing nothing.

Table 6.4 shows that when a disaster strikes, households' main strategy is to rely on self-help or self-insurance and the least common strategy is to receive help from the government or other forms of institutionalised help. Among the self-insurance strategies, selling livestock (poultry, sheep, goats and pigs and cattle) and other assets is dominant (29.6%), followed by engaging in additional

income-earning activity (6.1%). None of the households out of the 240 interviewed withdrew their children from school as a coping strategy. Informal insurance is the second most important group of strategies and it involved borrowing and receiving assistance from friends and relatives and a delay of payment obligations.

Coping mechanisms for shocks differed according to the characteristics of respondents. In general, however, most households preferred to do nothing. Maleheaded households resort to self-help strategies such as the sale of personal effects. Female-headed households resort to informal insurance strategies such as susu, borrowing from friends, and sending children to live with other relatives. They also reduce intake of food in order to cope with shocks experienced in the year.

Major coping strategies did not differ for agricultural and non-agricultural households. However, one can raise a question about the role of the extended family and collective provision, particularly in rural areas where the ties are expected to be stronger. Findings from the ISSER survey show that this type of strategy is used more often in urban and semi-urban areas than in rural areas, where less than 20 percent of affected household use these informal insurance strategies for coping with shocks (Table 6.5). The most important of these are obtaining assistance from friends and relatives, and also borrowing from friends and relatives. Sending children to live with friends and relatives is used by less than 1 percent of households.

Table 6.5: Strategies Adopted by Households to Cope with Shocks

Strategy	Male	Female	
Informal insurance strategies	23.5	36.3	
Market insurance	13.9	24.8	
Self help	30.4	28.2	
Reduced food consumption	9.7	34.2	
Other	0.0	3.8	
Did nothing	50.2	33.9	
S			
Strategy	AgriculNwa-	Agriculture	
Informal insurance strategies	26.2	26.4	
Market insurance	13.9	18.0	
Self help	27.2	31.8	
Reduced food consumption	17.4	13.3	
Other	0.0	1.4	
Did nothing	54.1	41.4	
_			
Strategy	Urban	Semi-urban	Rural
Informal insurance strategies	27.4	32.5	18.9
Market insurance	18.2	15.1	16.1
Self help	27.4	26.9	35.0
Reduced food consumption	16.7	18.3	10.1
Other	0.0	0.0	2.4
Did nothing	36.5	50.6	50.6

CHAPTER SEVEN

SUMMARY AND POLICY RECOMMENDATIONS

Progress in Human Development

In the absence of timely quantitative measures at district level, District Human Development Reports (DHDRs) can be useful tools to assist district administrations in tracking progress. The first of set DHDRs, facilitated by the UNDP Office in Accra, has shown that useful inferences can be made and planning at the local level could be made a little easier if the components and factors driving the indicators of human development are thoroughly analysed.

The first set of DHDRs was prepared in 2004 for three districts, the then Atwima District, Builsa District and Tema Municipality. The West Gonja District Human Development Report is one of three similar reports prepared as the second set of DHDRs in three different ecological zones of Ghana. These serve as pilot development reports initiated by UNDP to assess human development at district level. The information and analysis contained in them will assist in the design and targeting of interventions aimed at improving the human development indicators of the population.

The approach used for the preparation of the report was participatory and incorporated both qualitative and quantitative methods of information gathering and analysis. This report does not calculate a human development index for the district because of time constraints to obtaining reasonable data on district-level income. However, a proxy human poverty index for Ghana, which is based on but is slightly different from the construct of the UNDP HPI-1 index was set up for the district. This is compared to the

overall index for ghana. the report also tracks progress the district is making towards achieving the Millennium Development Goals (MDGs) at local level, highlighting how vulnerability limits individual choices. Box 7.1 presents a summary of the analysis on the status of progress towards the goals.

The overall aim of the MDGs is more or less captured in the first goal which seeks to eradicate extreme poverty and hunger. Precise information on the extent to which poverty in West Gonja is rising or declining cannot unfortunately be determined with existing data. Analysis using the human poverty index for Ghana shows that poverty in the district in 2003 was significantly higher than the national average. The report reveals that the district performs worse than the national average on almost all the components of the human poverty index except access to health care services in urban areas and the proportion of underweight girls. The incidence of underweight children was lower among girls, particularly in urban households, where the incidence among girls was negligible. Even though the perceived level of poverty is high in the district, the ISSER Household Survey suggests that there has been an improvement in the overall poverty situation between 2003 and 2007. The proportion of households which perceive that they are poor fell from 87.6 in 2003 percent to 47.8 percent in 2007 but the proportion which see themselves as very poor rose from 5.9 percent to 17.6 percent in the same period. This clearly reveals major challenges to the attainment of the MDG targets on reduction of extreme poverty and hunger.

The analysis has shown that mass poverty is the result largely of low agricultural productivity and production, and the lack of other income-earning opportunities. Addressing poverty must, therefore, involve policies and programmes to increase the levels of agricultural productivity and production among small-scale, largely subsistence farmers, while at the same time creating opportunities for non-farm incomegenerating activities and employment. Low agricultural productivity, as indicated in earlier parts of this report, arises from low rates of adoption of improved agricultural technologies, whether biological, chemical or mechanical. This is due, to a large extent, to the high costs of adopting these technologies. While the adoption of improved agricultural practices (such as row planting and spacing) is increasing, their levels of adoption are low and the methods are most rudimentary and laborious. The situation is compounded by uncertainty in rainfall, a long dry period in which farmers are idle and the lack of irrigation facilities, dams and wells for dry-season gardening or farming. High post-harvest losses compound the problem of low production by denying farmers a substantial part of their output. There is also a high incidence of pests and diseases and inadequate extension services to address the problems.

The district's record on improving enrolment at the lower levels of education and youth literacy is quite impressive. However, the district faces a daunting challenge as to how to ensure that children start primary school at 6 years of age and complete at least nine years of quality basic education.

Box 7.1:Status at a Glance: Progress towards the MGDs, West Gonja District in 2007

Goal/Target		Will Goal	be Reach	ed?	State of	Suppo	ortive Envir	onment
Eradicate Extreme Poverty and Hunger								
Halve between 1990 and 2015, the proportion of people whose income is less than the national extreme poverty line	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Halve the proportion of people who suffer from hunger	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Achieve Universal Primary Education Ensure that by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Promote Gender Equality and Empower Women Eliminate gender disparity in primary eduaction, preferably by 2005 and no later than 2015	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but	Weak
no later than 2015. Eliminate gender disparity in secondary education, preferably by 2005, and in all levels of education no later than 2015	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Improving Weak but Improving	Weak
Reduce Child Mortality Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Improve Maternal Health Reduce by three-quarters, between 1990 and 2015, the maternal mortality ratio	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Combat HIV/AIDS, Malaria and Other Diseases								
Have halted by 2015 and begun to reverse the spread of HIV/AIDS	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Have halted by 2015 and begun to reverse the spread of Malaria and other major diseases	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Ensure Environmental Sustainability								
Integrate the principles of sustainable development into country ploicies and programmes and reverse the loss of environmental resources	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Halve by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
By 2020, to have achieved a significant improvement in the lives of at least 100 million slum dwellers	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
Develop a Global Partnership for Development								
Develop further an open, rule-based predictable, non-discriminatory trading and financial system	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
In cooperation with developing countries, develop and implement strategies for decent work and productive work for the youth	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
In cooperation with pharmaceutical companies, provide access to affordable essential drugs in developing countries	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak
In cooperation with the private sector, make available the benefits of new technologies, especially information and communication	Probably	Potentially	Unlikely	Lack of Data	Strong	Fair	Weak but Improving	Weak

Progress towards attaining the educationspecific MDGs is mixed. The district has made substantial progress towards universal primary education since 2000. In 2000, less than 40 percent of any of the age groups between 3 and 24 years were attending school. The situation in 2007 has improved considerably; for example, over 80 percent of children aged between 6 and 12 years were attending school in 2007. If the rate of increase in school enrolment is maintained, the MDG target of universal primary education by 2015 can be realised. A threat to the attainment of universal primary education in the district is late entry into primary school, which, for a variety of reasons, tends to increase the inability of children to complete school when they start late.

On the basis of the standards recommended for the education sector, there is a considerable shortfall in the required number of classrooms, especially at junior secondary school level, in the district. Net enrolment rates are extremely low, particularly at secondary school level. And the gap between these rates and the MDGs for education is wide. Special effort must be made to bridge the gap. The report has indicated the greater numbers of pupil teachers relative to trained teachers at all levels of the educational system.

Irregular school attendance due to illness also introduces the risk of children dropping out of school. The environment in the district may be described as creating health hazards emanating from the unsafe methods of waste disposal, particularly among rural households. It is not surprising, therefore, that ill-health is the most frequently reason children miss some days of school. Thus, failure to make progress on other MDGs can create conditions to compromise the attainment of the MDGs on education.

The MDG target for the attainment of gender parity in primary and secondary education in

2005 has not been achieved. Gender parity indices at primary and junior secondary levels declined in 2007 compared to 2000 despite the rise in enrolment rates for both boys and girls. Gender parity for senior secondary school has been achieved but being over unity in this case does not imply an improvement in gender empowerment because of the very low enrolment rates at this level of education in the district. Also, progress towards the target of reducing the gender gap in youth literacy is slow. This makes the associated target seemingly unattainable unless efforts to enrol more girls in secondary schools succeed.

The findings on the share of women engaged in wage employment in the district are also not encouraging. While the proportion of men employed in the formal sector increased since 2000, there was a considerable decline in the proportion of women employed in the formal sector. This is clearly far from expected and does not signify progress towards the MDG goal of promoting gender equality and empowerment of women. It is, however, interesting to see significant involvement of women in political governance at local level. The district has the highest proportion in Ghana of female District Assembly members: 8 of the 20 elected members (or 40 per cent) of the West Gonja District Assembly are women.

Improving the poor quality of health delivery is another challenge confronting the district. Health care delivery is inadequate. This arises to a large extent from the lack of human resources and poor supervision. There is a need for the provision of more health infrastructure to help improve health status in the district, which does not seem to show any significant progress.

The mortality situation in the district does not show any sign of improvement; the total number of deaths rose consistently from 64 in 2004 to 89 and 98 in 2005 and 2006

respectively. The number of infant deaths almost doubled between 2004 and 2006, after a significant drop in 2005 leading to an institutional estimate for infant mortality of about 122 per 1,000 live births. This is much higher than both the regional and national ratios of 71/1,000 and 83/1,000 respectively. The number of under-5 deaths also more than doubled over the same period.

The encouraging finding was that the under-5 malaria case fatality rate saw consistent decline from 2004 to 2006 and institutional coverage for immunisation against the childhood killer diseases is very impressive despite obvious infrastructural difficulties in the district.

On the spread of diseases, the analysis using both morbidity and mortality statistics suggests that the district has not made significant progress in the last five years in halting and/or reducing the incidence of malaria. This raises concerns about the level of environmental sanitation and the effectiveness of methods adopted in preventing malaria infection. Again, while the district is making progress in reducing the incidence of guinea worm infestation and tuberculosis, the HIV/AIDS situation seems to be worsening. The disease is more prevalent among the youth aged 20-24 and available statistics send a worrying signal about the district's chances of realising the MDG goal of halting and reversing the HIV/AIDS infection rate. More education is needed to address this situation.

On environmental sanitation, the report shows that the bulk of the population has no access to safe toilet facilities and over 60 percent of the population uses uncontrolled dumping for solid waste and household sewage. This exposes many individuals to high risk of getting parasitic diseases that are otherwise avoidable.

The district could reap substantial benefits from its tourism potential if it is properly harnessed. However, the growing reliance of families on charcoal production, organised theft of livestock and the apparent rise in tension between villages and officials of the Forestry Department over the use of forest products pose a threat to the rich endowment of natural resources in the district. This situation represents a serious challenge to the livelihood of the people as well as to the sustainability of biodiversity, and needs immediate and pragmatic policy attention.

The district is very likely to achieve the MDG target on water mainly because of the role of development partners in the provision of boreholes. The district saw a remarkable improvement in access to safe drinking water between 2000 and 2007, particularly in rural areas where access improved from about 25 percent to over 90 percent. The construction of boreholes in a number of communities may have largely accounted for the reduction in the reported cases of guinea worm in the district. However, there are still pockets of 'water-poor' households in the semi-urban and urban communities that need service.

Other areas where the influence of global interventions is felt in the district are the growth in the use of insurance for health care and increased use of cellular telephones. With regard to insurance, the major problems to be solved are the selection of high-risk individuals into the scheme by households and the threat to the sustainability of the health insurance scheme because of low number of times subscribers renew their membership. In terms of telecommunications, farmers located off the trunk road need to have some access to modern communication devices, given that they have major problems of transportation to major towns.

While there are some positive effects from global development partnership, there is still an urgent need to tackle fundamental problems of human development in the district. Residents of West Gonja District lament the deplorable state of the road network, especially during the rainy season when very few roads are motorable, thereby seriously reducing vehicular movement in the district. Reasons for this include the sparse population distribution and the long delays in constructing two important bridges to the north-eastern parts of the district. With the exception of roads within the town that serves as the district capital, the area does not have a single kilometre of tarred road and most of the roads become almost completely impassable during the peak of the rainy season.

Creating non-farm employment opportunities and income-generating activities is perhaps the most difficult challenge confronting the district. These opportunities and activities are required in order to reduce the extreme vulnerability of the population to weather-related shocks. The challenge lies in the combination of the facts that the labour force is largely unskilled, the investment environment is unattractive, and there are limited avenues for harnessing the natural resource endowment. The result is the dominance of petty trading and increasing migration of the youth to big towns outside the district. Youth unemployment rose from 5.2 percent in 2000 to 27.4 percent in 2007. Increasing opportunities for growth of small-scale industries such as smock weaving, processing of farm produce and honey production is commendable but unless they are combined with viable marketing arrangements outside the district, they will not be sustainable.

Recommendations

Among the issues to be addressed in connection with low productivity is the need to reverse the decline of soil fertility and erosion. Inappropriate farming methods that persist in part because of inadequate and ineffective extension services also need to be addressed. The costs of chemical supplements preclude widespread use by farmers.

Experiences from other districts within the same region suggest that dry-season gardening or farming involving nontraditional crops such as tomatoes, onions, and potatoes can generate financial returns about 10 times higher than can be obtained from rain-fed traditional crop farming. Moreover, these activities tend to reduce out-migration from the district. The provision of irrigation facilities, dams and wells for dry-season gardening and farming will be one way to increase agricultural productivity and production and also reduce the long, idle period that farmers go through every year. The district has prioritised cultivation of cashew nuts as one of the main non-traditional crops for export but there are lingering marketing problems that beset the sub-sector and they need to be addressed in order to make this initiative successful.

Encouraging tree crops such as mangoes and cashew could provide a certain minimum income irrespective of the weather, thereby reducing households' vulnerability to weather-related shocks. The experience of southern Burkina Faso suggests that this can be an extremely rewarding public investment. This will, however, require support in terms of seed or seedlings in view of the costs involved. It may also require wells or dams for water to avoid

stunting in the first three years, depending on whether a plantation system is set up or there are individual farms. It also requires arrangements for private marketing and export of the produce.

In terms of non-farm income-generating activities, there is potential for at least one medium- to large-scale factory producing shea butter or buying from women's groups and reprocessing for export. Also, West Gonja District stands to benefit a lot from its tourism potential. To avoid unplanned destruction of natural resources in the district, woodlot plantations should be established for firewood and charcoal, controls to counter organised stealing of livestock should be implemented and community-based eco-tourism should be encouraged for the communities to benefit directly from tourism. The activities identified through the Medium-Term Development Plan need public and donor support to make them attractive to the private sector. Marketing arrangements and the road infrastructure are critical for the sustainability of these activities.

The economic and physical infrastructure of West Gonja District is at the moment not attractive for private investment. Efforts must be made to improve revenue generation to finance infrastructure development in the district. Public sector and donor support are also needed to develop infrastructure facilities to attract investment.

Financing identified priorities in the development plan is crucial to the implementation of the programmes over the four-year period. Financial inflows to the

district form less than 10 percent of what is required to finance the budget for the various activities. Apart from the District Assemblies Common Fund (DACF) and other central government inflows, which are statutory and must be transferred, inflows into the district are externally influenced and could be highly unpredictable. Ingenious ways of mobilising local revenue need to be found if the district is to make faster progress towards the realisation of its stated goals.

Related issues concern problems with transfers from the DACF to the district and must be addressed. There is considerable central government control in terms of the areas and sectors where the DACF must be applied. Centrally identified sectors may not reflect the most important areas according to local development challenges and priorities. The issue of arrears in the disbursement of the DACF and the escalation in project costs as a result is increasingly being addressed and is no longer a major impediment to district development. The emerging issue relates to proper allocation of the fund and efficiency in resource use. Districts need to have greater control of the allocation and utilization of the resources available to them in order to address the identified development needs of their people.

On participation, citizens are not well integrated into the planning process. The dormant Area Councils should be revived so that through them, the citizenry can be involved, particularly in the monitoring of expenditure allocations and the implementation of projects at local level.

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APPENDICES

Appendix Table 1.1Details about Enumeration Areas (EA) Selected in West Gonja

EA	Location of EA	Population 2000	Number of Houses, 2000	Number of Households	% of Households Selected
1	DAMONGO-MGBAREPE	440	40	56	42.9
2	DAMONGO-ZONGO	697	85	166	14.5
3	DAMONGO-ZONGO	906	125	223	10.8
4	FRAFRA NO. 3 SETTLEMENT	567	100	70	34.3
5	KABAMPE	416	73	110	21.8
6	КОРОТО	337	43	75	32.0
7	LANGATRE	385	34	58	41.4
8	DABOYA	1,091	86	230	10.4
9	LARABANGA	753	103	191	12.6
10	BUSUNU	704	85	103	23.3
Total					
Number of EAs = 108	Total Number of Localities in	62 727	6 164	0.629	2.5
EAS = 108	West Gonja = 183	63,737	6,164	9,638	2.5

Source: Computed using data from Ghana Statistical Service, 2000 Population and Housing Census

Appendix Box 1: Calculating the Human Poverty Index-Ghana

The constructed human poverty index for the preparation of the District Human Development Reports (HPI-G) is similar to the UNDP's HPI-1 for developing countries in terms of two components, the aspects of knowledge and decent standard of living. However, the component that measures vulnerability to death at a relatively early age, the probability at birth of not surviving to age 40 is replaced with an index measuring regional under-5 mortality. In addition to this modification, HPI-G includes an indicator of access to health care services in the measure of decent standard of living. A household has access to health care services if it is within 30 minutes of travel time to a modern health care provider (CWIQ, 2003).

1. Measuring the regional under-5 mortality index

The index measures the gap between a region's under-5 mortality rate and the national target for under-5 mortality under the Millennium Development Goals, relative to the largest regional gap in the country. A regional index is used for the district because of lack of reliable data at the district level. The under-5 mortality rate for Ghana in 1993 was 119 deaths per 1,000 live births and the MDG goal of reducing this by two-thirds translates to a target of about 40 deaths per 1,000 live births (GDHS, 2003). The regional under-5 mortality index is thus calculated as follows:

Regional under-5 mortality index

region's current value - MDG target

current maximum value for all regions - MDG target

= region's current value -40

$$208 - 40$$

2. Measuring deprivation in a decent standard of living

An unweighted average of two indicators is used to measure deprivation in a decent standard of living:

Unweighted average = 1/3 (population without sustainable access to an improved water source)

+1/3 (children under weight for age)

+1/3 (population without access to health services)

3. Calculating the HPI-G

The formula for calculating the HPI-G is as follows:

$$HPI - G = [1/3(P_1^{\alpha} + P_2^{\alpha} + P_3^{\alpha})]^{\alpha}$$

Where

 P_1 = Probability at birth of not surviving to age 5, proxied by a normalized regional under-5 mortality index (times 100)

 P_2 =Unweighted average of population without sustainable access to an improved water source, without access to modern health care service and children underweight for age

 P_3 = Adult illiteracy rate; and $\alpha = 3$

Appendix Box 1.1 Millennium Goals, Targets and Indicators

Goals and Targets	pment Goals (MDGs)
(from the Millennium Declaration)	Indicators for monitoring progress
Goal 1: Eradicate extreme poverty and hunger Target 1: Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day	Proportion of population below \$1 (PPP) per day ^a Poverty gap ratio [incidence x depth of poverty] Share of poorest quintile in national consumption
Target 2: Halve, between 1990 and 2015, the proportion of people who suffer from hunger	Prevalence of underweight children under-five years of age Proportion of population below minimum level of dietary energy consumption
Goal 2: Achieve universal primary education Target 3: Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling	Net enrolment ratio in primary education Proportion of pupils starting grade 1 who reach grade 5 ^b Literacy rate of 15-24 year-olds
Goal 3: Promote gender equality and empower women	
Target 4: Eliminate gender disparity in primary and secondary education, preferably by 2005, and in all levels of education no later than 2015	9. Ratios of girls to boys in primary, secondary and tertiary education 10. Ratio of literate women to men, 15-24 years old 11. Share of women in wage employment in the non-agricultural sector 12. Proportion of seats held by women in national parliament
Goal 4: Reduce child mortality	
Target 5: Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate	Under-five mortality rate Infant mortality rate Proportion of 1 year-old children immunised against measles
Goal 5: Improve maternal health	
Target 6: Reduce by three-quarters, between 1990 and 2015, the maternal mortality ratio	Maternal mortality ratio Proportion of births attended by skilled health personnel
Goal 6: Combat HIV/AIDS, malaria and other diseases Target 7: Have halted by 2015 and begun to reverse the spread of HIV/AIDS	18. HIV prevalence among pregnant women aged 5-24 years 19. Condom use rate of the contraceptive prevalence rate ^a 19a. Condom use at last high-risk sex 19b. Percentage of population aged 15-24 years with comprehensive correct knowledge of HIV/AIDS ^a 19c. Contraceptive prevalence rate 20. Ratio of school attendance of orphans to school attendance of nonorphans aged 10-14 years
Target 8: Have halted by 2015 and begun to reverse the incidence of	21. Prevalence and death rates associated with malaria
malaria and other major diseases	22. Proportion of population in malaria-risk areas using effective malaria prevention and treatment measurese 23. Prevalence and death rates associated with tuberculosis 24. Proportion of tuberculosis cases detected and cured under directly observed treatment short course DOTS (Internationally recommended)
Cool 7. France appironmental quatainability	TB control strategy)
Goal 7: Ensure environmental sustainability Target 9: Integrate the principles of sustainable development into country	25. Proportion of land area covered by forest
policies and programmes and reverse the loss of environmental resources	 Ratio of area protected to maintain biological diversity to surface area Energy use (kg oil equivalent) per \$1 GDP (PPP) Carbon dioxide emissions per capita and consumption of ozone-depleting CFCs (ODP tons) Proportion of population using solid fuels
Target 10: Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation	Proportion of population with sustainable access to an improved wate source, urban and rural Proportion of population with access to improved sanitation, urban a rural
Target 11: By 2020, to have achieved a significant improvement in the lives of at least 100 million slum dwellers	32. Proportion of households with access to secure tenure

Goal 8: Develop a global partnership for development

Target 12: Develop further an open, rule-based, predictable, nondiscriminatory trading and financial system

Includes a commitment to good governance, development and poverty reduction - both nationally and internationally

Target 13: Address the special needs of the least developed countries

Includes: tariff and quota free access for the least developed countries' exports; enhanced programme of debt relief for heavily indebted poor countries (HIPC) and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction

Target 14: Address the special needs of landlocked developing countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly)

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term

Some of the indicators listed below are monitored separately for the least

countries (LDCs), Africa, landlocked developing countries and small island developing States.

Official development assistance (ODA)

- 33. Net ODA, total and to the least developed countries, as percentage of OECD/DAC donors' gross national income
- Proportion of total bilateral, sector-allocable ODA of OECD/DAC donors to basic social services (basic education, primary health care, nutrition, safe water and sanitation)
- Proportion of bilateral official development assistance of OECD/DAC donors that is untied
- ODA received in landlocked developing countries as a proportion of their gross national incomes
- 37. ODA received in small island developing States as a proportion of their gross national incomes

Market access

- 38. Proportion of total developed country imports (by value and excluding arms) from developing countries and least developed countries, admitted free of duty
- Average tariffs imposed by developed countries on agricultural products and textiles and clothing from developing countries
- Agricultural support estimate for OECD countries as a percentage of their gross domestic product
- 41. Proportion of ODA provided to help build trade capacity

Debt sustainability

- 42. Total number of countries that have reached their HIPC decision points and number that have reached their HIPC completion points (cumulative)
- Debt relief committed under HIPC Initiative 43
- Debt service as a percentage of exports of goods and services
- Target 16: In cooperation with developing countries, develop and implement 45. Unemployment rate of young people aged 15-24 years, each sex and strategies for decent and productive work for youth
- Target 17: In cooperation with pharmaceutical companies, provide access to 46. Proportion of population with access to affordable essential drugs on a affordable essential drugs in developing countries sustainable basis
- Target 18: In cooperation with the private sector, make available the penefits of new technologies, especially information and communications
- Telephone lines and cellular subscribers per 100 population
 - Personal computers in use per 100 population Internet users per 100 population

The Millennium Development Goals and targets come from the Millennium Declaration, signed by 189 countries, including 147 heads of State and Government, in September 2000 (https://www.un.org/millennium/declaration/ares552e.htm). The goals and targets are interrelated and should be seen as a whole. They represent a partnership between the developed countries and the developing countries "to create an environment – at the national and global levels alike - which is conducive to development and the elimination of poverty"

Note: Goals, targets and indicators effective 8 September 2003.

- For monitoring country poverty trends, indicators based on national poverty lines should be used, where available.
- An alternative indicator under development is "primary completion rate"

Amongst contraceptive methods, only condoms are effective in preventing HIV transmission. Since the condom use rate is only measured among women in union, it is supplemented by an indicator on condom use in high-risk situations (indicator 19a) and an indicator on HIV/AIDS knowledge (indicator 19b). Indicator 19c (contraceptive

- supplemented by an indicator on condom use in night-iss situations (indicator 199) and an indicator on HIV/AIDS knowledge (indicator 190), indicator 190 (contracep prevalence rate) is also useful in tracking progress in other health, gender and poverty goals.

 This indicator is defined as the percentage of population aged 15-24 who correctly identify the two major ways of preventing the sexual transmission of HIV (using condoms and limiting sex to one faithful, uninfected partner), who reject the two most common local misconceptions about HIV transmission, and who know that a healthy-looking person can transmit HIV. However, since there are currently not a sufficient number of surveys to be able to calculate the indicator as defined above, UNICEF, in collaboration with UNAIDS and WHO, produced two proxy indicators that represent two components of the actual indicator. They are the following: a) percentage of women and men 15-24 who know that a person can protect herself/herself from HIV infection by "consistent use of condom"; b) percentage of women and men 15-24 who know a healthy-looking person can transmit HIV.
- Prevention to be measured by the percentage of children under 5 sleeping under insecticide-treated bednets; treatment to be measured by percentage of children under 5 who are appropriately treated.
- An improved measure of the target for future years is under development by the International Labour Organization. percentage of women and men 15-24 who know that a person can protect herself/herself from HIV infection by "consistent use of condom", b) percentage of women and men 15-24 who know a healthy-looking person can transmit HIV.
- Prevention to be measured by the percentage of children under 5 sleeping under insecticide-treated bednets; treatment to be measured by percentage of children under 5 who are appropriately treated
- An improved measure of the target for future years is under development by the International Labour Organization.