

GUSHIEGU

Feed the Future Ghana District Profile Series - February 2017(Revised Nov. 2017) - Issue 1

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Daily per capita expenditure 3.07 USD

Gushiegu is a district in Ghana's Northern Region. The

District is located on the eastern corridor of the region and shares boundaries to the east with Saboba and

Chereponi Districts, Karaga District to the west, east

Mamprusi District to the north and Yendi Municipality and Mion District to the south. The total land area of the

District is approximately 2,674.1 square kilometers. The

district has a total population of 124,656, out of which 63,945 are females and 60,711 are males. The average

household size in the district is 7.4 persons. The boxes

below reveal the level of important development indica-

tors measured by the Population Based Survey in 2015.

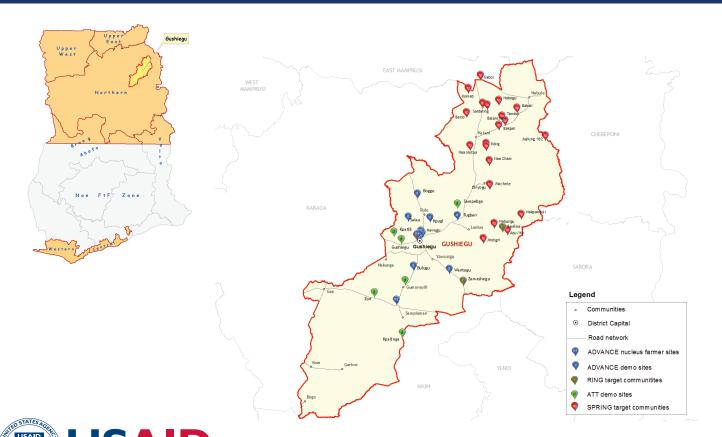
Poverty Prevalence 16.6 %

Households with moderate or severe hunger 10.1%

Poverty Depth 5.3%

Total Population of the Poor 20,692

Household Size 7.4 members





USAID PROJECT DATA

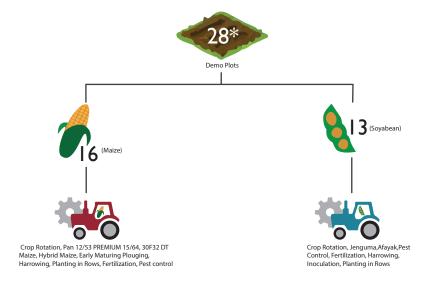
This section contains data and information related to USAID sponsored interventions in Gusheigu

Table 1: USAID Projects Info, Gushiegu, 2014-2016

Beneficiaries Data	2014	2015	2016
Direct Beneficiaries	1807	3,973	8,396
Male	976	1,726	3,138
Female	471	2,247	5,258
Undefined	360	-	0
Nucleus Farmers	15	17	n/a
Male	15	17	n/a
Female	-		
Undefined			
Demoplots	8	20	n/a
Male	7	9	
Female			
Undefined	1	11	
Production			
Maize Gross Margin USD/ha	n/a	712.84	n/a
Maize Yield MT/ha	n/a	3.56	n/a
Rice Gross Margin USD/ha	n/a	n/a	n/a
Rice Yield MT/ha	n/a	n/a	n/a
Soybean Gross Margin USD/ha	n/a	578.3	n/a
Soybean Yield MT/ha	n/a	1.68	n/a
Investment and Impact			
Ag. Rural Ioans*	17,652	-	1,744
USAID Projects Present			6
Beneficiaries Score	2	1	2
Presence Score 2014-2016			1.4
District Flag 2014-2016			Yellow

Source:: USAID Project Reporting, 2014 - 2016

Infographic I: Demo Plots in Gushiegu, 2014-2015



A decent number of beneficiaries** were reported in 2014 in Gushiegu and the number doubled in 2015 and again in 2016. This was accompanied by a decent number of nucleus farmers and demonstration plots, established to support beneficiary training. There were no agricultural loans distributed in 2014 and 2016 and the value in 2015 was also low. Due to the several interventions, the presence score** for USAID development work is 1.4 out of 4, which means that the intervention in Gushiegu is above average when compared to other districts. When the presence score is combined with progress/regress of impact indicators, the district is flagged Yellow*** indicating that the impact indicators values (poverty prevalence and per capita expenditure) in overall have improved in an area where intervention is satisfactory. However, one of the progress indicators has stagnated (+-5% change). Find more details on USAID Presence v. Impact scoring and on page 8.

The presence calculation is provisional and only includes the number of direct beneficiaries and Agricultural Rural loans.

Source: USAID Project Reporting, 2014, 2015

^{*} Number of demo plots by commodity does not fit with the total because of crop rotation ****Direct Beneficiary, an individual who comes in direct contact with a set of interventions" FTF Handbook, 2016, ****and****See page 7 for more detail on presence score ranges and district flag ranges.



share.

AGRICULTURAL DATA

This section contains agricultural data for Gushiegu such as production by commodity, gross margins and yields.

Cassava and Yam are the most commonly produced commodities in Gushiegu, accounting for 67% of agricultural production during 2010-2015. Other commodities produced during this period include soybean (6%), maize (6%), and other commodities as shown in Figure 1. In terms of agricultural production, Gushiegu is one of the districts that accounts for a low share of overall agricultural

The average gross margin calculations from USAID project reporting (2015) for maize, rice and soybean are higher than gross margins from the Agriculture Production Survey (K-State, APS 2013).

tural production in the Northern Region with only 3%

Figure 3 contains yield values from three (3) sources: USAID projects, MOFA and APS for the period 2013-2015 for three commodities: maize, rice and soybean. Beneficiaries yields for maize rice and soybean were higher than the district averages reported by MOFA in 2015.

Figure 4 below focuses on sources of income in the district. It shows that the majority of households in Gushiegu rely on the agricultural sector: 87.7 of households cited the sale of crop produce as the main source of income followed by the sale of livestock at 29.5 percent.

Figure 4: Income Source in Gushiegu, 2015, in %

gift

11.35
rice parboiling

1.74
shea picking

7.4
remittance

4.66
petty trading

11.39
sale of livestock
sale of poultry

14.74

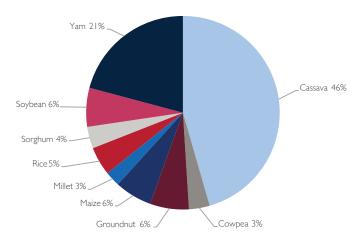
50

70 80 90 100

Source: RING & SPRING Survey, 2015 USAID METSS Project

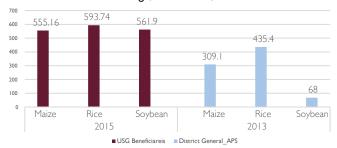
sale of crop produce

Figure 1: Share of Agricultural Production by Commodity in Gushiegu, 2010 - 2015



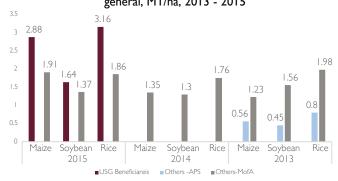
Source: Agriculture Production Reports 2010 - 2015, MOFA

Figure 2: Gross Margin by Commodity, USAID beneficareis and district average, 2013 - 2015, USD/ha



Source: Agriculture Report 2013-2015, Agriculture Production Survey, K-State, 2013

Figure 3: Yields of Maize, Rice and Soybean, beneficiaries and district general, MT/ha, 2013 - 2015



Source: Agriculture Report 2013-2015, MOFA Production Data 2013-2015, Agriculture Production Survey, K-State, 2013



AGRICULTURAL DATA

This section contains agricultural data for Gushiegu including production by commodity (MT/ha), yields (MT/ha) and average land size.

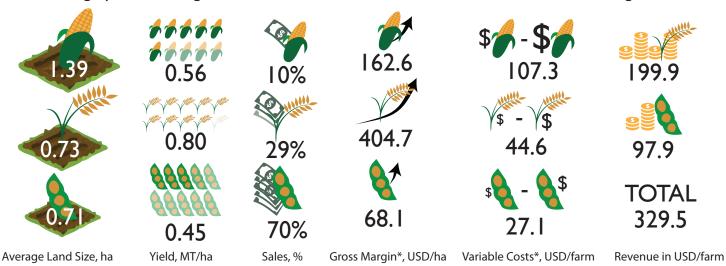
Table 2: Agricultural Production and Yields by Commodity in MT and MT/ha in Gushiegu, 2010-2015

•	,	,		•			
Commodity	2015	2014	2013	2012	2011	2010	Total
Cassava	55,865	52,824	49,916	68,627	62,100	53,995	343,327
Cowpea	3,818	3,706	4,124	5,075	5,075	4,320	26,118
Groundnut	7,438	7,457	6,996	9,545	8,342	9,240	49,018
Maize	7,253	6,777	6,577	9,356	7,978	9,114	47,055
Millet	2,486	2,414	2,095	3,461	3,645	4,896	1,899
Rice	5,099	4,727	5,283	6,894	7,062	6,900	35,965
Sorghum	3,661	4,150	3,733	5,148	5,354	5,273	24,024
Soybean	7,586	7,236	7,577	9,322	9,963	7,273	48,957
Yam	25,581	24,824	20,365	33,334	28,683	24,363	157,150
Yields in MT/Ha	2015	2014	2013	2012	2011	2010	
Cassava	15.20	14.20	14.46	13.80	13.80	12.53	
Cowpea	1.30	1.26	1.54	1.79	1.83	1.63	
Groundnut	1.49	1.50	1.32	1.69	1.72	2.00	
Maize	1.91	1.35	1.23	1.54	1.32	1.78	
Millet	1.03	1.00	0.89	1.20	1.35	1.80	
Rice	1.86	1.76	1.98	2.57	2.67	3.00	
Sorghum	1.23	1.40	1.36	1.79	1.84	1.85	
Soybean	1.37	1.30	1.56	1.87	1.96	1.86	
Yam	11.92	11.60	10.27	8.60	9.10	8.67	

Source: Agricultre Report 2010, 2011, 2012, 2013, 2014, 2014 MOFA

Table 2 above provides detailed information on specific commodities in regard to overall production in Gushiegu as well as average yields for the years 2010-2015. The infographic below shows a summary of agricultural statistics for Gushiegu.

Infographic 2: Average Land size, Yields, Sales and other Farm indicators in Gushiegu, 2013



Source: Agriculture Production Survey, Kansas State University, 2013 *Gross margin, variable cost and farm revenue captured from the APS in infographic 2 have been converted to USD using 2012 exchange rates (1.88 GHC to \$1\$ USD) to align with the 'farmer recall' survey methodology deployed.



AGRICULTURAL DATA

This section contains information on domains of empowerment of the Women Empowerment in Agriculture Index (WEAI) for Gushiegu

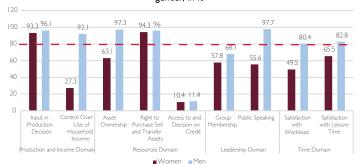
What is the Women Empowerment in Agriculture Index?

Women play a prominent role in agriculture. Yet they face persistent economic and social constraints. Women's empowerment is a main focus of Feed the Future in order to achieve its objectives of inclusive agriculture sector growth and improved nutritional status. The WEAI is comprised of two weighted sub-indexes: Domains Empowerment Index (5DE) and Gender Parity Index (GPI). The 5DE index is a summation of the level of achievement in ten indicators grouped into five domains: production, resources, income, leadership and time. The GPI compares the empowerment of women to the empowerment of their male counterpart in the household. This section presents the results from these empowerment indicators of the 5DE for Gushiegu, part of a bigger survey conducted by Kansas State University.

The Domains: what do they represent?

The Production domain assesses the ability of individuals to provide input and autonomously make decisions about agricultural production. The Resources domain reflects individuals' control over and access to productive resources. The Income domain monitors individuals' ability to direct the financial resources derived from agricultural production or other sources. The Leadership domain reflects individuals' social capital and comfort speaking in public within their community. The Time domain reflects individuals' workload and satisfaction with leisure time.

Figure 5: Gushiegu Results on Domains of Empowerment of WEAI 2015, by gender, in %



Source: PBS 2015, Kansas State University

Gushiegu WEAI Results

The results of both male and female respondents on the four(4) domains are displayed in Figure 5.

Production Domain: The majority of women feel comfortable with providing input related to production decisions, as indicated by 93.3% of the women of the survey sample. However, women have much less control over the use of household income than men- 27.3% of women versus 92.1% of male respondents.

Resource Domain: a thin majority of the women have a right to asset ownership but a large majority can purchase and move assets, 63.1% versus 94.3%. Both figures are lower than the figures of the male respondents. Only 10.4% of women have the right to decide or have access to credit, followed by 11.4% of the male respondents.

Leadership Domain: a thin majority representing only 57.8% of women of the sample have the right to group membership as opposed to 68.2% of men while only 55.6% of the women get involved in public speaking as opposed to 97.7% of the male respondents.

Time Domain: 49.5% of the women and 80.4% of men in Gushiegu are satisfied with the workload in their everyday life. The percentage score is slightly higher with respect to satisfaction with leisure time; 65.5% of the women and 82.8% of the men interviewed are happy with this aspect.

Adequacy & Differences

Together men and women obtained an adequacy score (80% and above) in all indicators except for resources domain: access and decision on credit, leadership domain: group membership. In addition to that adequacy was not achieved only by women in control over use of household income, asset ownership, public speaking, satisfaction with workload and with leisure

The highest difference between male and female respondents was observed with the production domain: the control over use of household income and in the resource domain: asset ownership.

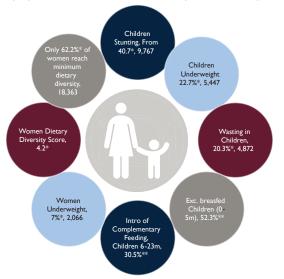


HEALTH, NUTRITION AND SANITATION

This section contains facts and figures related to Health,

Nutrition and Sanitation in Gushiegu

Infograph 3: Health and Nutrition Figures, Gushiegu, 2015



Sources: * from PBS 2015, Kansas State University, ** from RING & SPRING Survey, 2015,

Figure 6: Household Dwelling Characteristics, Gushiegu, 2015

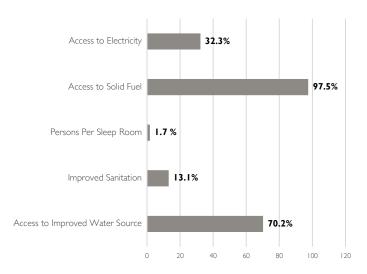
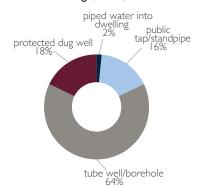


Figure 7: Types of Improved Water Source, Gushiegu, 2015, in %

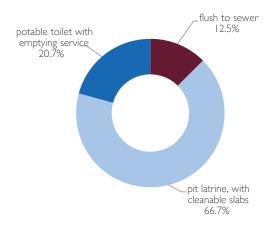


Infograph 3 focuses on health and nutrition of women and children in the district. Percentages and absolute numbers are revealed in the respective circles for stunting, wasting in children, women and children underweight, Women Dietary Diversity and some other indicators. The Dietary diversity score of women in Gushiegu is 4.2, which represents one of the highest values in the Northern Region. This means that women consume on average 4 to 5 types of foods out of 10. More than half of the women (62.2%) reach the minimum dietary diversity of 5 food groups. This value is again one of the highest in the Northern Region. However, the value for stunting in children is quite high in relation to other districts in the Northern Region.

Figure 6 displays specifics of household dwelling, evaluated based on sources of water, energy, waste disposal, cooking fuel source, and number of people per sleep room as measured from the PBS Survey 2015. As the figure shows, access to sanitation facilities is the lowest in the Northern Region. Access to improved water source is also low. For more details refer to Figure 6.

Figure 7 and 8 provide details on the types of improved water source and sanitation used as measured by the RING & SPRING Survey in 2015.

Figure 8: Types of improved sanitation, Gushiegu, 2015, in %



Sources: Figure 6:from PBS 2015, Kansas State University, Figure 7,8 from RING & SPRING Survey, 2015,

All data and information including full citations can be accessed at www.ghanalinks.org



PRESENCE VS. IMPACT MATRIX

This section provides an analysis of USAID presence vis-a-vis impact indicators in Gushiegu

Presence vs. Impact reveals in more detail the presence of the Feed the Future Implementing Partners in the field, in combination with impact indicators measured by the Population Based Survey in 2012 and 2015: per capita expenditure & prevalence of poverty. This combination aims to show relevance of the presence of key indicators measuring progress/regress in the area. The following graphs are a print screen of the Presence vs. Impact Dashboard focusing on Gushiegu. One of the key impact indicators, 'prevalence of poverty' has improved while the other 'per capita expenditure', has stagnated, as observed in Figures 9 and 11.

In 2015 poverty decreased by 34.4 percentage points to 16.6% compared to the 2012 value corresponding with 20,693 poor people in the district. In addition, the 2015 per capita expenditure stagnated, decreasing by 5 percent to 3.07 USD. The decrease is so low (+- 5% change) which is more considered a stagnation. Because the decrease in poverty is much higher than the stagnation of per capita expenditure, the first indicator gives the tone to the overall, meaning that situation in this district has improved since 2012. This development is accompanied by a satisfactory USAID presence, scored with 3.2 points out of 4. This combination signifies characteristics of a light GREEN district, one that accounts for progress of impact indicators and good project presence on the ground. We say light green because the progress is not fully supported by both impact indicators as one has stagnated and the arrow sign will be confirmed by the next survey. Based on this, the situation should be observed carefully to confirm that the area is progressing and also to identify ways of accelerating the impact from the intervention.

USAID District Presence Score



0.1 - 1 LOW USAID DISTRICT PRESENCE

1.1 - 1.9 BELOW AVERAGE USAID DISTRICT PRESENCE

2 AVERAGE USAID DISTRICT PRESENCE

2.1 - 3 ABOVE AVERAGE USAID DISTRICT PRESENCE

3.1 - 4 HIGH USAID DISTRICT PRESENCE

USAID District Presence Vs. Impact Flag













Figure 9: Poverty in % and Poverty Change in percentage points, 2012,2015, Gushiegu



Figure 10: Population of Poor, Non - Poor Gushiegu, 2015

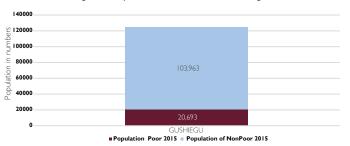
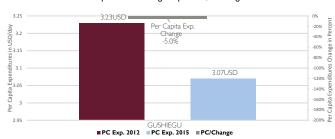


Figure 11: Per Capita Expenditure in 2012 and 2015, in USD/day; Per Capita Expenditure Change in percent, Gushiegu

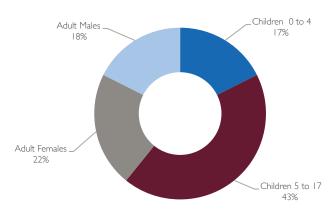


Source: Figure 9,10,11, Population based Survey, 2012,2015, Kansas State University, METSS, USAID Project Reporting 2014,2015

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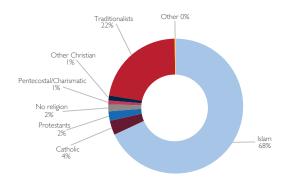


Figure 12: Household Composition by groupage, Gushiegu, 2015



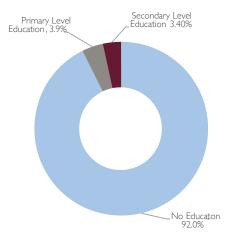
Source: PBS 2015, Kansas State University

Figure 13: Religious Affiliation, Gushiegu 2010



Source: Gushiegu District Analytical Report, GSS, 2014

Figure 14: Adult Education Attainment in Gushiegu, 2015



Source: PBS 2015, Kansas State University

DEMOGRAPHICS & WEATHER

This section contains facts and figures related to Gushiegu demographics, religious affiliation, literacy and weather indicators

Gushiegu has a total population of 124,656, out of which 63,945 are females and 60,711 are males. The average household size in the district is 7.4 persons. Gushiegu is one of the districts in the Northern region that accounts for the highest number of persons per household.

The district lies in the tropical continental climatic zone and experiences average annual precipitation relative to other districts in the Northern Region, see Figure 15. Note that in 2010, the entire Northern Ghana experienced significant rainfall and flooding.

In terms of religion, the majority of the population in Gushiegu are Muslims representing 68.1%, followed by Traditionalists at 22.2% as shown in Figure 13.

The district accounts for a young population as 60% of the household members are aged between 0 to 17 years, as Figure 12 shows.

Gushiegu just as the rest of the districts in the Northern Region accounts for a low level of adult educational attainment as shown in Figure 14.A vast majority of the adults, 92%, have received no education, while only 3.9% went through primary schools and only 3.4% of the sample through secondary school.

Figure 15: Average Cumulated Precipitation in mm and Temperature in Celcius Degree, Gushiegu, 2008 - 2015 Accumulated Precipitation in mm 4.476.9 4500 35 4000 30 3500 25 3000 2500 20 2000 15 1500 10 714.3 1000 555 3 2008 2009 2010 2011 2012 2013 2014 2015

Min. Temperature

Source: awhere Weather Platform, AWhere, 2016

initation in

All data and information including full citations can be accessed at www.ghanalinks.org



DISCUSSION QUESTIONS

This section contains discussion questions and potential research topics as a result of the data and analysis presented on Gushiegu

QUESTION I QUESTION 2

Why has per capita expenditure stagnated in Gushiegu while poverty has decreased? Is there a story behind this fact and how has intervention affected this outcome?

What other agricultural or nutrition focused development partners or GoG interventions have previously been implemented, are ongoing, and/or are in the pipeline that may impact Gushiegu's development?

QUESTION 3

Given Gushiegu's agricultural production, health and sanitation figures, as well as results from the presence vs impact matrix, what should USAID development work focus on in the next two years? What future development assistance would be helpful to change this district flag from light Green to Green?

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