

# Newsletter Quarterly Gross Domestic Product (QGDP) Third Quarter 2023



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#### Main highlights

- Ghana provisional real Gross Domestic Product (GDP) in volume terms was estimated to have increased by 2.0% in quarter three (July to September) of 2023 compared to the same period in 2022.
- When seasonally adjusted, Ghana real GDP increased by 0.5 % in quarter three (July to September) of 2023; a 0.2 percentage point lower than what was recorded in quarter two (April to June) of 2023.
- Crops, Information & Communication, Transport & Storage, Manufacturing, Trade; Repair of Vehicle & Household Goods, Accommodation and food service activities, were the main drivers of GDP growth for the third quarter of 2023.
- Main sub-sectors with more than 10 percent growth rate in quarter three of 2023 are:
  - 1. Information & Communication (17.3%).
  - 2. Accommodation and food service activities (11.2%).
- Four sub-sectors which contracted in quarter three of 2023 are:
  - 1. Construction (-8.3%).
  - 2. Mining and Quarrying (-8.1%).
  - 3. Forestry & Logging (-6.9%).
  - 4. Electricity (-1.8%).

#### Things you need to note about this release.

Gross Domestic Product (GDP) growth is the main indicator of economic performance. There are three approaches used to measure GDP: the output approach, the expenditure approach, and the income approach.

This Statistical Release contains independently compiled quarterly estimates of the Gross Domestic Product (GDP) for the 3<sup>rd</sup> quarter of 2023 using the production approach. The estimates are based on the 2008 System of National Accounts (SNA), the International Standard Industrial Classification (Rev.4) published by the United Nations, and the Quarterly National Accounts Manual: Concepts, Data Sources and Compilation prepared by the International Monetary Fund (IMF). This means that the methodology, concepts, and classifications are in accordance with the guidelines and recommendations of an internationally agreed system of national accounts. The estimates of real GDP are expressed in terms of the base year, 2013. The Annual GDP estimates are derived independent of the quarterly estimates. Short-term indicators are used to estimate the quarterly GDP (see IMF's Quarterly National Accounts Manual: Concepts, Data Sources and Compilation) and benchmarked to the annual GDP.

**Current or Nominal GDP** is the value of final goods and services evaluated at current quarter prices.

**Constant or Real GDP** is the value of final goods and services evaluated at base year prices. In Ghana, the base year is 2013. By using the prices from the base-year (or holding prices constant over time), we eliminate the impact of rising prices on GDP to get a measure of "Real" economic activity.

#### Seasonal Adjustment

The quarterly value added, and GDP estimates have been seasonally adjusted. Seasonal adjustment is the process of estimating and removing seasonal effects from time series to reveal non-seasonal features. This process provides a clearer view of short-term movements and trends and allows early identification of turning points.

#### **Revision Policy**

While most revisions are made to the four most recent quarters of the series, there is no restriction on when an estimate of the quarterly series for a given period can be revised. The main causes of revisions are:

- a) Incorporation of additional and improved data: Most revisions reflect the incorporation of a wider range of data. Some data that was not available at the release date are incorporated through revisions into subsequent releases.
- b) Reconciliation of quarterly and annual measures: The process of reconciling the quarterly measures with the annual measures can lead to further revisions. The quarterly measures of these series are based on a smaller range of data than the annual measures.
- c) The rebased provisional quarterly GDP estimates may be revised further and finalized based on the availability of additional data. The next revision of the quarterly and annual GDP estimates will be in April 2024.

## **Related Publications**

Users may refer to other publications on GDP on the **GSS website:** <u>www.statsghana.gov.gh</u>

#### Quarterly real GDP growth: July to September 2023

Provisional real quarterly gross domestic product (QGDP) growth rate including Oil and Gas, is 2.0% (year on year) in the third quarter of 2023. In the same period of 2022, the growth was 2.7%.

GDP growth rate without oil and gas (Non-Oil GDP) for third quarter of 2023 is 2.1% which compares to the same period in 2022 with a growth rate of 3.3%.

The agriculture sector recorded the highest growth of 5.9%, followed by the services sector at 5.5% while the industry sector recorded a contraction of 4.3 percent.

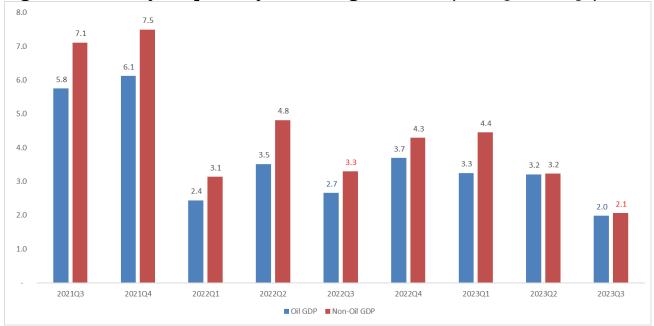


Figure1: Year-on-year quarterly real GDP growth rate (2021Q3-2023Q3)

#### Real quarterly gross domestic product: July to September 2023

The **GDP** (Including Oil & Gas) estimate at constant 2013 prices for the 3<sup>rd</sup> quarter of 2023 was **GH¢44,743.0 million** compared to **GH¢43,870.9 million** in the 3<sup>rd</sup> quarter of 2022.

The **Non-oil GDP** at constant 2013 prices for the 3<sup>rd</sup> quarter of 2023 was **GH¢41,911.9 million** compared to **GH¢41,065.5 million** in the 3<sup>rd</sup> quarter of 2022.

Sector	Expanding sub-sectors		Contracting sub-sec	tors
	Crops and cocoa	7.2%	Forestry &	-6.9%
Agriculture (5.9%)	Livestock	7.0%	Logging	
(3.970)	Fishing	0.7%		
	Water Supply, Sewerage, Wa Management &	aste	Construction	-8.3%
	Remediation Activities	9.4%	Mining &	
			Quarrying	- 8.1%
Industry (-4.3%)	Manufacturing	2.1%	Electricity	-1.8%
( 1.070)			Directificity	1.070
	Information & Communication	17.3%		
	Accommodation and food service activities	11.2%		
Services (5.5%)	Other Personal Service Activities	7.3%		
	Professional, Administrative & Support	7.1%		
	Transport & Storage	6.2%		
	Real Estate	5.1%		
	Health & Social Work	3.5%		
	Trade; Repair of Vehicle, Household Goods	2.4%		
	Education	1.4%		
	Public Administration Defense, Social Security	1.3%		
	Finance & Insurance	0.9%		

#### Table1: Year-on-year quarterly growth rates in 3<sup>rd</sup> quarter of 2023

#### Nominal quarterly gross domestic product: July to September 2023

The GDP estimate at current prices in purchaser's value for the 3<sup>rd</sup> quarter of 2023 was **GH¢212,360.1million** compared to **GH¢152,394.8 million** in the 3<sup>rd</sup> quarter of 2022.

The **Non-oil GDP** (GDP without Oil and Gas) estimate at current prices for the 3<sup>rd</sup> quarter of 2023 was **GH¢199,546.6 million** compared to **GH¢142,537.9 million** in the 3<sup>rd</sup> quarter of 2022.

#### GDP sectoral shares

The Services sector continues to be the largest sector of the Ghanaian economy in the third quarter of 2023 with a share of 42.1 percent of GDP at basic prices. The GDP share of Industry and Agriculture were 33.0 percent and 24.9 percent respectively.

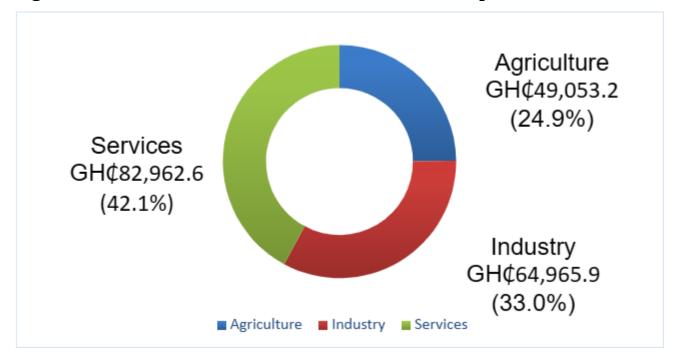


Figure 2: Sectoral distribution of nominal GDP at basic prices

## Seasonally Adjusted GDP

## The provisional quarter-on-quarter<sup>1</sup> seasonally adjusted Real Gross Domestic Product (including Oil) growth rate for the 3<sup>rd</sup> quarter of 2023 was 0.5 percent.

For the 3<sup>rd</sup> quarter of 2023, the quarter-on-quarter seasonally adjusted growth rates (see Table 2) were as result of the following major activities:

The Agriculture sector expanded by 1.3 percent in the 3<sup>rd</sup> quarter of 2023, maintaining the same rate as in the 2<sup>nd</sup> quarter of 2023. In the third quarter of 2023, the growth of Crops & Cocoa sub-sector expanded by 0.2 percentage points, growing at 1.5 percent compared to 1.3 percent in the 2<sup>nd</sup> quarter of 2023. The Forestry and Logging sub-sector contracted further to -1.8 percent in the 3<sup>rd</sup> quarter of 2023 compared to -1.1 percent in the 2<sup>nd</sup> quarter of 2023.

<sup>&</sup>lt;sup>1</sup> Quarter-on-quarter GDP estimates provide a short term (within three months) picture of current economic developments. Estimates are influenced by seasonal patterns that are caused by economic behavior or recurrent exogenous factors such as weather patterns, holidays, religious events, festive seasons, etc.

Within the Industry sector which grew at -1.1 percent (quarter on quarter), the Water Supply, Sewerage, Waste Management & Remediation Activities grew at 3.0 percent in the 3<sup>rd</sup> quarter of 2023 compared to -0.6 percent in 2<sup>nd</sup> quarter of 2023. Mining & Quarrying sub-sector declined from 0.8 percent in the 2<sup>nd</sup> quarter of 2023, to -2.1 percent in the 3<sup>rd</sup> quarter of 2023. Construction activities continued to contract since 2022 quarter 3.

All subsectors within the Services sector expanded resulting in the sector's growth of 1.3 percent in the 3<sup>rd</sup> quarter. The highest expansion was seen in the Information & Communication sub-sector with a growth of 4.1 percent in the 3<sup>rd</sup> quarter of 2023. The growth in Finance & Insurance activities (0.2%) was the least.

Sector	Expanding sub-sectors	Contracting	sub-	
		sectors		
Agriculture (1.3%)	Crops Livestock Fishing	1.5% 1.4% 0.2%	Forestry & Logging	-1.8%
Industry (-1.1%)	Water Supply, Sewerage, Waste Management & Remediation Activities	3.0 %	Construction Mining & Quarrying	-2.1% -2.1%
	Manufacturing	0.5%	Electricity	-0.5%
	Information & Communication	4.1%		
	Professional, Administrative & Support	2.2%		
	Accommodation and food service activities	2.0%		
Services (1.3%)	Other Personal Service Activities	1.6%		
(1.070)	Transport and Storage	1.6%		
	Real Estate	1.5%		
	Health & Social Work	0.9%		
	Trade; Repair of Vehicles, Household Goods	0.5%		
	Education	0.4%		
	Public Administration & Defense, Social Security	0.3%		
	Finance & Insurance	0.2%		

 Table 2: Quarter-on-quarter seasonally adjusted growth rates in 2023Q3

	Appendix 1- Quarterly Gross Domestic Product at current prices by economic activity and respective sectoral distribution Value Added (GHc Million) % of GDP (@ basic prices)													
201.9.2         5.521.8         10,733.2         12,632.2         28,907.2         1,507.6         30,448.4         8,289.1         29,71.57         19.1         37.2         43.8         100.0           2013_0.4         7,022.2         10,0385         1,266.1         28,935.2         1,51.2         33,059         32,149.4         20.52         32.0         43.8         100.0           2014_0.1         6,049.9         10,279.3         1,690.9         34,381.3         3,384.4         37,756.5         9,774.4         3,057.4         10.6         30.0         43.4         100.0           2014_0.2         6,769.9         12,779.7         16,900.9         3,378.2         3,776.6         10,756.5         9,973.4         3,075.4         10,807.4         1,86.0         4,86.0         1,81.5         4,00.0         1,81.5         4,00.0         1,81.5         4,076.0         3,771.1         1,81.58         4,00.55         1,88.8         4,25.4         1,00.0         1,81.5         4,076.0         3,771.1         4,54.67         1,74.88         4,00.0         1,81.5         4,076.0         3,771.1         4,54.50         1,54.58         4,00.0         3,03.50         4,24.4         4,00.0         1,00.0         1,00.0         1,00.0         1,	Year Quarter	Agriculture	Industry					ow InformalGDP in purchaser's value	Total Non-Oil (GDP in purchaser's value)					ow Informal GDP in purchaser's value
203.03         5.933.7         10.3355         12.666.1         28.935.2         1.5142         30.494.4         8.646.8         28.94.8         20.3         2.3         4.3         10.0           2014_01         8.008.4         10.888         1.492.4         3.898.5         3.742.2         10.558.9         32.01.4         6.22         3.66         3.10         10           2014_02         6.749.5         1.577.5         3.958.4         3.755         3.973.5         3.574.5         3.68         3.575.5         3.973.4         3.574.5         3.68         3.68         3.575.5         3.973.4         3.574.5         3.68         3.58         3.575.5         3.973.4         3.575.5         3.973.4         3.575.6         3.673.4         3.435.6         3.575.7         4.3397.7         1.315.6         4.046.8         1.58         3.89         4.66         3.027.7         3.305.1         4.575.7         4.330         4.574.7         1.575.8         3.276.6         4.310.7         4.360.7         1.158.4         4.000.5         1.88         4.44         100.0           2015.01         10.578         1.472.4         1.575.7         4.530.4         4.524.1         1.244.6         4.03.5         3.377.6         4.552.1         1.460	2013_Q1	6,698.2	11,056.7	10,733.0	28,487.9	1,319.6	29,807.5	9,155.8	28,038.9	23.5	38.8	37.7	100.0	30.7
2013         0.4         7.202         10.288         14.492         19.824         19.824         19.824         19.558.9         22.443         20.2         45.3         10.00           2014         0.749.9         12.777.3         14.939.9         33.938.1         3.554.4         37.755.5         9.973.4         35.754.4         10.568.9         32.01.4         0.62.6         32.0         42.0         32.0         42.0         32.0         42.0         32.0         42.0         32.0         42.0         32.0         42.0         32.0         43.2         30.0         32.0         43.2         30.0         32.0         43.2         43.0         43.755         9.973.4         35.07.5         40.245.8         43.2         42.0         41.000         32.0         43.2         43.0         11.356         42.0         43.2         40.0         32.0         43.5         32.0         43.5         32.0         43.5         32.0         43.5         32.0         43.5         33.0         43.5         30.0         43.5         33.0         43.5         33.0         43.5         30.0         43.5         30.0         43.5         30.0         43.5         30.0         43.5         30.0         43.5         <	2013_Q2	5,521.8	10,753.2	12,632.2	28,907.2	1,507.6	30,414.8	8,289.1	28,715.7	19.1	37.2	43.7	100.0	27.3
2014.01         8,0084         1,1089         1,1589         33,742         10,589         32,014         26.2         35.6         38.1         1000           2014.02         6,7499         12,17.3         14,309         34,384.         3,3584         37,756.         9,9734.         35,475.4         13,68         43,68         10.0         1         0           2014.03         7,356.8         15,493.3         15,972.6         3,971.4         43,997.         11,136.6         40,456.8         18,58         82.9         42.6         1000           2015.01         9,738.6         15,130.2         15,672.6         40,902.2         43,662.1         13,115.1         40,035.1         84.66         44.5         1000           2015.04         10,547.8         14,723.2         19,915         42,227.4         43,50         45,55         52,445.1         14,464.4         40.01         40,015         44,44         1000         100,91         14,899.2         2,555         52,445.1         14,364.4         52,444         40,11         45,44         40,44         40,40         40,31         40,01         40,01         40,01         40,01         40,01         40,01         41,010         100,01         10,01         10,01	2013_Q3	5,933.7	10,335.5	12,666.1	28,935.2	1,514.2	30,449.4	8,646.8	28,924.8	20.5	35.7	43.8	100.0	28.4
2014_0266,749.912,717.314,930.994,384.13,358.437,765.59,973.435,475.419,186.31,0833,0843,2902014_043,961.114,725.015,872.639,528.84,272.843,786.612,527.740,924.622.737.240.110.002015_019,538.013,115.116,972.740,392.23,622.445,446.711,785.840,035.741.836.64.102015_027,851.111,330.218,629.046,766.03,77.144,421.114,447.73,630.649,133.423.336.240.002015_0410,547.814,492.219,945.743,535.112,441.743,66049,133.423.336.240.002015_0410,547.814,492.72,556.049,305.83,602.445,545.114,366.649,133.423.444.240.002015_0410,547.814,887.22,557.84,357.54,527.814,366.649,133.423.445.210.002017_0210,037.719,210.52,679.03,537.54,311.063,555.665,10020.720.835.665,1002017_0416,199.719,895.02,797.85,249.77,743.021,252.77,632.821.035.66,1072017_0415,058.02,797.93,738.65,269.77,743.021,259.77,632.821.035.66,1072017_0415,058.02,797.83,739.85,269.7 </td <td>2013_Q4</td> <td>7,202.2</td> <td>10,288.8</td> <td>14,492.4</td> <td>31,983.5</td> <td>1,822.4</td> <td>33,805.9</td> <td>10,196.4</td> <td>32,149.4</td> <td>22.5</td> <td>32.2</td> <td>45.3</td> <td>100.0</td> <td>30.2</td>	2013_Q4	7,202.2	10,288.8	14,492.4	31,983.5	1,822.4	33,805.9	10,196.4	32,149.4	22.5	32.2	45.3	100.0	30.2
2014.037.356815.49316.912.439.72637.71043.39911.18840.426810.5538.942.610.002015.019.528013.11517.69740.3923.65.843.76617.55.740.0242.3632.543.06.121.65.243.0052.35.840.03540.0352.35.842.062.363.2543.0012.35.840.03542.062.363.2543.00140.03542.063.3640.03542.063.3640.03542.063.3642.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0642.0643.0	2014_Q1	8,008.4	10,889.4	11,653.6	30,551.4	3,189.8	33,741.2	10,558.9	32,301.4	26.2	35.6	38.1	100.0	31.3
2014.04         8,86.11         14,7250         15,726         39,58.8         4,27.8         83,766.6         12,25.7         40,924         2.07         37.2         40.1         1000           2015.01         9,578.0         13,111.5         17,697         40,309.2         3,65.8         43,962.1         13,165.1         40,005         18.8         36.6         45.5         1000           2015.03         8,712.4         13,383.0         15,15.5         40,760         3,76.1         44,521.1         24,41.2         43,680.7         21.4         3.2.6         44.4         1000           2015.04         10,947.8         14,722.2         19,91.5         45,221.7         4,35.0         45,552.5         15,784.4         14,404         20.1         3.9         48.9         1000           2016.01         10,99.7         19,21.8         25,640         83,924.5         43,310         63,255.5         15,784.4         14,787.4         12.7         43.6         1000           2017.04         15,197.7         19,89.5         27,67.1         63,73.8         5,54.1         69,051.1         15,72.4         61,79.7         10.8         3.0         6,57.7         1000           2019.01         15,550.5	2014_Q2	6,749.9	12,717.3	14,930.9	34,398.1	3,358.4	37,756.5	9,973.4	35,475.4	19.6	37.0	43.4	100.0	26.4
205.01         9.52.00         13,111         17,66?         40,392         3,62.8         43,962.1         13,105.1         42,0162         23.6         32.5         43.8         10.00           2015.02         7,855.1         15,302         16,520         41,843         3,602         4,5447         11,758.         44,003.5         18.8         36.6         44.5         10.00           2015.03         8,7124         13,308.0         11,15.6         40,760.0         3,776.1         44,542.1         12,441.7         3,680.7         21.4         34.2         44.1         10.00           2016.01         12,099.8         14,969.4         22,946         43,812         53,555         52,445.1         13,455.1         51,440.4         20.1         30.9         48.9         10.00           2017.02         10,039.7         19,210.8         26,470.8         53,555         52,445.1         13,455.1         51,572.4         61,792.7         10.20         33.5         6.00         10.01         20.404         20.1         33.6         6.05         10.01         20.404         20.1         33.6         6.05         10.01         20.404         20.8         32.2         6.033.0         20.20         13.8         6.04	2014_Q3	7,356.8	15,459.3	16,912.4	39,728.6	3,671.1	43,399.7	11,138.6	40,426.8	18.5	38.9	42.6	100.0	25.7
2015_02         7,885.1         15,330.2         18,639.0         41,844.3         3,602.4         45,467.7         11,785.8         44,003.5         11.8         366.6         44.4         1000           2015_04         10,547.8         14,732.3         19,941.5         45,212.7         4,353.0         49,574.7         14,686.6         49,133.4         23.3         32.6         44.1         1000           2016_01         12,098.8         14,969.4         22,246.6         49,383.8         3,801.2         53,465.0         16,582.3         53,006.6         42.5         30.3         45.2         1000           2017_02         10,093.7         19,210.8         25,674.0         58,382.5         14,811.6         62,325.5         15,792.4         61,179.2         10.0         33.5         45.4         1000           2017_02         10,093.7         19,985.0         27,674.1         63,375.2         4,813.1         62,385.1         14,647.5         11,785.8         65,330.0         25.44         100.7           2018_02         12,228.9         23,411.1         3,101.3         65,413.4         4,917.0         71,785.3         18,412.1         67,877.1         18,33         35.0         46.7         1000           2018	2014_Q4	8,961.1	14,725.0	15,872.6	39,558.8	4,227.8	43,786.6	12,525.7	40,924.6	22.7	37.2	40.1	100.0	28.6
2015_038,712413,938018,115640,76603,776144,52112,41743,68072,1494,294,410,002015_0410,547.814,732.319,941.545,227.74,353049,574.714,66649,133.42,33<	2015_Q1	9,528.0	13,111.5	17,669.7	40,309.2	3,652.8	43,962.1	13,105.1	42,016.2	23.6	32.5	43.8	100.0	29.8
2015_04         10.547.8         10.473.2         19.941.5         45.22.7         4.333.0         49.574.7         14.686.6         49.133.4         23.3         32.6         44.1         100.0           2016_01         12.099.8         14.969.4         22.294.6         49.363.8         3.012         53.165.0         16.582.3         53.070.6         24.5         30.3         45.2         100.0           2017_02         10.037         19.208         20,574.0         58.924.5         4.310         63.255.5         15.792.4         61.179.2         17.0         32.6         50.4         100.0           2017_03         12.689.8         21.206.5         29.499.0         63.395.2         4.841.1         60.935.1         21.661.0         25.4         31.2         43.4         100.0           2017_04         15.053.6         24.271.9         3.874.8         72.003         5.242.7         7.43.0         12.862.7         7.93.6         20.30.7         7.33.93         5.342.7         7.44.30         17.85.3         18.142.1         6.85.10         10.01         2.01.2         3.3.5         45.6         100.0         2.01.2         2.01.2         2.01.2         7.44.78         10.00         2.01.2         2.01.2         10.01	2015_Q2	7,885.1	15,330.2	18,629.0	41,844.3	3,602.4	45,446.7	11,785.8	44,003.5	18.8	36.6	44.5	100.0	25.9
2016         12,099.8         14,969.4         22,294.6         49,363.8         3,012         53,165.0         15,523.3         53,070.6         24.5         9.03         44.52         1000           2016_02         9,6903         14,882.7         23,556.0         48,129.0         4,355.5         52,484.5         14,364.4         52,440.4         20.1         30.9         48.9         1000           2017_02         10,037.7         19,210.8         29,674.0         58,924.5         4,310         63,255.5         15,792.4         61,179.2         17.0         32.6         50.0         1000 <td< td=""><td>2015_Q3</td><td>8,712.4</td><td>13,938.0</td><td>18,115.6</td><td>40,766.0</td><td>3,776.1</td><td>44,542.1</td><td>12,441.7</td><td>43,680.7</td><td>21.4</td><td>34.2</td><td>44.4</td><td>100.0</td><td>27.9</td></td<>	2015_Q3	8,712.4	13,938.0	18,115.6	40,766.0	3,776.1	44,542.1	12,441.7	43,680.7	21.4	34.2	44.4	100.0	27.9
2016_029,690314,882723,55048,12904,35552,484514,364452,40420.10.00.00.00.02017_0210,037719,210829,64058,92454,31063,255515,792.461,179217.0032.546.510002017_0311,69719,895027,67163,77385,261469,035121,647066,361025.431.243.410002018_0115,03624,271932,74872,0035,242777,44021,28272,938620.833.645.510002018_0212,28323,41131,00366,4134,917071,78318,142167,97161,81347.710002018_0312,98325,40235,07073,9365,268078,76119,791274,147817.734.647.710002018_0415,70123,125535,70247,52896,05580,62425,02776,632821.131.047.910002019_0115,75025,37838,4565,28655,98020,51723,58561,6734.648.710002019_0213,55526,976338,4565,6845,691690,95421,57383,69561,734.648.710002019_0314,27528,991441,54545,69591,57323,76559,69512.634.648.710002019_0415,95824,99131,3565,752 <td>2015_Q4</td> <td>10,547.8</td> <td>14,732.3</td> <td>19,941.5</td> <td>45,221.7</td> <td>4,353.0</td> <td>49,574.7</td> <td>14,686.6</td> <td>49,133.4</td> <td>23.3</td> <td>32.6</td> <td>44.1</td> <td>100.0</td> <td>29.6</td>	2015_Q4	10,547.8	14,732.3	19,941.5	45,221.7	4,353.0	49,574.7	14,686.6	49,133.4	23.3	32.6	44.1	100.0	29.6
2017_02         10,0397         19,2108         29,6740         58,9245         4,310         62,255.         15,792.4         61,179.2         17,0         32,6         50,41         100.0           2017_03         12,6898         21,206.5         29,499.0         63,395.2         4,843.1         66,238.3         18,555.6         65,300.0         20.0         33.5         46.5         100.0           2017_04         16,197.7         19,895.0         27,679.1         63,738.5         5,261.4         69,035.1         21,647.0         66,361.0         25.4         31.2         43.4         100.0         10.0           2018_02         12,228.9         23,411.1         31,013.3         66,841.3         4,917.0         71,758.3         18,142.1         67,877.1         18.3         35.0         46.7         100.0           2018_02         12,933.5         25,042.2         35,07.9         73,336.5         58,044.4         22,502.7         76,632.8         10.1         31.0         47.7         100.0           2019_01         17,536.5         26,07.3         8,363.4         5,516.8         65,90.0         20,517.7         80,556.8         16.07         32.8         48.0         100.0           2019_02         <						-	-	-						31.2
2017_0312,689.821,20529,499.063,395.24,843.168,238.318,555.665,300.200.033.546.5100.012017_0416,197.719,895.027,679.163,778.85,261.469,035.121,647.066,610.025.431.243.4100.012018_0115,053.624,271.932,874.872,0035,247.777,43.021,262.272,938.620.833.64.67.7100.012018_0212,283.525,402.235,07.973,336.65,360.078,761.719,712.774,174.817.734.64.7.7100.012018_0312,935.526,317.338,346.582,349.45,522.880,624.422,502.776,632.812.131.04.7.9100.012019_0117,536.526,317.338,346.582,349.45,522.685,909.020,517.780,556.816.63.8.54.6.0100.012019_0213,595.026,911.438,674.085,616.690,956.421,683.585,495.616.734.64.7.0100.02019_0314,27.022,933.841,514.185,614.55,917.332,705.587,070.519.23.8.64.8.7100.02019_0414,045.528,091.341,136.685,614.55,917.332,705.587,070.519.23.8.64.7.0100.02019_0213,959.628,091.341,718.885,614.65,918.3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td>27.4</td></td<>								-	-					27.4
2017_04         16,1997         19,8950         7,679.1         63,77.8         5,261.4         69,035.1         21,647.0         66,61.0         25.4         31.2         43.4         10.0           2018_01         15,053.6         24,271.9         32,874.8         72,200.3         5,242.7         77,430.0         21,286.2         72,938.6         20.8         33.6         35.07         10.00           2018_02         12,288.3         25,402.2         35,007.9         73,336.6         5,680.0         78,617.7         19,791.2         74,147.8         10.7         34.6         47.7         10.00           2018_04         15,701.0         23,125.3         35,702.4         75,52.2         86,101.5         24,127.3         82,066.7         12.1         31.0         47.7         10.00           2019_02         13,595.0         26,911.4         39,874.0         80,304         5,528.6         85,900.0         20,511.7         82,566.7         16.9         33.5         49.6         100.0           2019_02         13,595.0         26,911.4         39,874.0         85,980.6         20,517.7         82,566.7         10.5         34.7         100.0           2019_02         13,595.0         29,326.4         45,717.8 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>25.0</td>								-						25.0
D18_01         D15_033.6         D4_271.9         D3_874.8         D7_2000         D,242.7         D7,443.0         D2,286.2         D2,983.6         D2.08         D3.8         D4.5         D10.0           D18_02         12,288.9         23,411.1         J,201.3         66,841.3         4,917.0         TJ,758.3         18,142.1         67,897.1         18.8         35.0         46.7         100.0           D018_04         15,701.0         23,125.5         5,702.4         74,528.9         6,095.5         80,624.4         25,027.7         76,632.8         21.1         31.0         47.9         100.0           D019_01         17,536.5         26,376.3         38,46.5         82,349.4         5,752.2         88,101.5         24,127.3         82,066.7         21.3         32.0         4.67         100.0           2019_02         13,595.0         26,911.4         39,74.0         80,326.4         5,526.6         52,90.7         76,632.8         16.0         3.3         49.6         100.0           2019_02         13,595.0         26,911.4         39,74.0         80,804.4         5,526.6         105,907.7         51.92         20.8         48.7         100.0           2010_01         19,957.3         29,254.4								-						27.2
2018         12,228         23,411         31,2013         66,841.3         4,9170         71,758.3         18,142.1         67,897.1         18.8         35.0         46.7         1000           2018_Q3         12,983.5         25,402.2         35,007.9         73,393.6         5,368.0         78,761.7         19,712.         74,147.8         17.7         34.6         47.7         1000           2018_Q4         15,701.0         23,125.5         37,702.4         74,528.9         6,095.5         80,624.4         22,502.7         76,632.8         21.1         31.0         47.9         1000           2019_Q1         17,536.5         26,911.4         39,874.0         80,380.4         5,528.6         85,990.0         20,51.7         80,556.8         16.67         34.6         48.7         100.0           2019_Q1         16,406.5         28,091.3         41,33.6         85,614         5,945.9         91,577.3         23,708.5         87,070.5         19.2         32.8         48.0         100.0           202_Q1         19,957.3         29,326.4         47,77.8         96,015.5         4,589.2         100,590.7         29,125.4         96,590.2         20.8         30.5         48.7         100.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td>31.4</td></td<>						-		-	-					31.4
2018         12,983.5         25,402.2         35,007.9         73,393.6         5,368.0         78,761.7         19,791.2         74,147.8         17.7         34.6         47.7         100.0           2018_Q4         15,701.0         23,125.5         35,702.4         74,528.9         6,095.5         80,624.4         22,502.7         76,632.8         21.1         31.00         47.9         100.0           2019_Q1         17,536.5         26,376.3         38,436.5         82,349.4         5,752.2         88,101.5         24,127.3         82,086.7         21.3         32.0         46.7         100.0           2019_Q2         13,595.0         26,911.4         39,874.0         80,380.4         5,528.6         85,909.0         20,531.7         80,558.8         16.6         33.5         49.6         100.0           2019_Q4         16,406.5         28,091.3         41,133.6         85,631.4         5,945.9         91,577.3         23,708.5         87,075.5         19.2         32.8         48.0         100.0           202_Q1         19,957.3         29,326.4         46,717.8         96,001.5         4,589.2         100,590.7         29,125.4         96,590.2         20.8         30.5         48.7         100.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>27.5</td></t<>								-						27.5
D         D	-					-		-	-					25.3
D         D								-						25.1
2019_02         13,595.0         26,911.4         39,874.0         80,380.4         5,528.6         85,909.0         20,531.7         80,556.8         16.9         33.5         49.6         100.0           2019_03         14,227.0         29,533.8         41,504.1         85,264.8         5,691.6         90,956.4         21,683.5         85,495.6         16.7         34.6         48.7         100.0           2019_04         16,406.5         28,091.3         41,133.6         85,631.4         5,945.9         91,577.3         23,708.5         87,070.5         19.2         32.8         48.0         100.0           2020_01         19,957.3         29,326.4         46,71.8         96,001.5         4,589.2         100,590.7         29,125.4         96,590.2         20.8         30.5         48.7         100.0           2020_02         17,508.8         27,587.8         38,159.4         83,256.0         5,218.7         88,474.7         24,027.4         85,869.6         10.0         33.1         45.8         100.0           2020_02         17,129.9         29,668.3         42,528.7         89,326.9         7,012.3         96,339.1         122,928.4         92,699.6         19.2         33.2         47.6         100.0								-						27.9
2019_0314,227029,533841,504188,26485,691690,956421,683.588,4956116.734.648.7100.02019_0416,406.528,091.341,133.685,611.45,945.991,577.323,708.587,070.519.232.848.0100.0202_0119,957.329,326.446,71.7.896,001.54,589.2100,590.729,125.496,590.220.0.830.548.7100.0202_0217,508.827,587.838,159.483,256.05,218.788,474.724,027.485,669.621.033.145.8100.0202_0317,129.929,668.342,528.789,326.97,012.396,339.122,928.492,699.619.233.247.6100.0202_0419,997.730,516.649,705.099,521.47,014.9106,562.225,332.7102,988.519.430.440.0201_0121,500.933,326.653,472.2108,299.75,723.1114,022.828,747.8109,446.519.930.849.4100.0201_0220,499.430,144.045,451.096,94.36,852.7102,947.026,553.397,865.021.131.447.3100.0201_0122,274.432,842.451,661.1106,84.07,742.1141,561.034,281.1124,184.222.130.844.6100.0202_014*26,479.934,791.558,640.2119,911.510,274.1131,60.9132,245.6				,										27.4
2019_0416,406.528,091.341,133.685,631.45,945.991,577.323,708.587,070.519.232.844.0100.02020_0119,957.329,326.446,71.896,001.54,589.2100,590.729,125.496,590.220.830.548.7100.02020_0217,508.827,587.838,159.483,256.05,218.788,474.724,027.485,869.621.033.145.8100.02020_0317,129.929,668.342,52.789,326.97,012.396,393.122,928.492,699.619.233.247.6100.02020_0419,297.730,516.649,705.99,521.47,014.9106,536.225,332.7102,988.519.430.749.9100.02021_0220,499.430,144.045,451.096,094.36,852.7102,947.026,553.397,865.021.331.447.3100.02021_0220,499.430,144.045,451.096,094.36,852.7102,947.026,553.397,865.021.331.447.3100.02021_0220,499.430,144.045,451.096,094.36,852.7102,947.026,553.397,865.021.331.447.3100.02021_0426,479.934,715.558,640.2119,911.510,27.4130,139.0143,288.1124,184.222.129.048.8100.02021_0426,591.444,110.66,97.42133,640.97,65.5140,65.														23.9
2020_0119,957.329,326.446,717.896,001.54,589.2100,590.729,125.496,590.220.0830.548.7100.02020_0217,508.827,587.838,159.483,256.05,218.788,474.724,027.485,869.60.10.033.145.8100.02020_0317,129.929,668.342,528.789,326.97,012.396,339.122,928.492,699.619.233.247.6100.02020_0419,299.733,516.649,705.099,521.47,014.9106,536.225,332.7102,988.519.930.849.9100.02021_0121,50.033,326.653,472.2108,299.75,723.1114,022.828,747.8109,446.519.930.849.4100.02021_0220,499.430,144.045,451.096,094.36,852.7102,947.026,553.397,865.010.131.447.3100.02021_0322,277.432,828.451,686.1106,846.07,740.2114,586.129,250.0109,117.820.030.848.4100.02021_0426,479.934,791.558,640.2133,640.97,655.1141,16035,981.1133,234.520.031.846.8100.02022_04*26,679.440,486.654,243.1121,529.091,28.5130,657.534,585.5121,411.422.133.344.6100.02022_04*26,79.440,486.654,243.1121,529.091,28.5 <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>23.8</td>	_						•	-						23.8
2020_Q217,508.8227,587.838,159.483,256.05,218.788,474.724,027.485,869.621.033.145.8100.02020_Q317,129.929,668.342,528.789,326.97,01.2.396,331.122,928.492,699.610.2.33.247.6100.02020_Q419,297.730,516.649,705.099,521.47,01.9106,536.225,332.7102,988.519.4.930.049.9100.02021_Q121,500.933,326.653,472.2108,299.75,723.1114,022.828,747.8109,446.510.9.930.849.4100.02021_Q320,494.430,144.045,451.096,043.46,852.7102,947.026,553.379,865.010.9.11.830.848.4100.02021_Q322,277.433,288.451,686.1106,846.07,740.2114,586.129,250.0109,117.820.030.848.4100.02021_Q426,479.934,791.558,640.2119,911.510,277.4130,130.0134,328.1124,184.222.130.848.4100.02022_Q4*26,994.344,110.462,409.2133,460.97,655.1141,116.035,998.1133,234.520.0.233.344.6100.02022_Q4*26,799.444,0486.654,243.1121,529.0134,655.7134,580.5121,411.422.133.334.6100.02022_Q4*26,999.444,0486.654,243.1121,529.0136,6								-						25.9
2220_0317,1299229,668.342,528.789,326.97,012.396,339.122,928.492,699.619.233.247.6100.02020_0419,299.730,516.649,705.099,521.47,014.9106,536.225,332.7102,988.519.430.749.9100.02021_0121,500.933,326.653,472.2108,299.75,723.1114,022.828,747.8109,446.519.930.849.4100.02021_0220,499.430,144.045,451.096,994.36,852.7102,947.026,553.397,865.021.331.447.3100.02021_0322,277.432,882.451,686.1106,846.07,740.2114,586.129,250.0109,117.820.030.848.4100.02021_0426,647.934,719.558,64.2119,911.510,277.4130,130.034,328.4124,184.220.130.848.8100.02021_04*26,647.934,710.462,409.2133,460.97,760.2130,137.0134,324.520.23.344.6100.02021_04*26,647.934,710.462,409.2133,460.97,655.1141,116.035,998.1133,234.520.23.344.6100.02021_04*26,679.444,048.654,231.9121,529.09,128.5130,657.534,580.5121,411.422.13.3.344.6100.02021_04*33,073.748,031.960,978.5142,081.7136,653.9142														25.0
2202_0419,299733,051649,705.099,521.47,014.9106,536.225,332.7102,988.511.930.749.9100.0201_0121,500933,326653,472.2108,299.75,733.1114,022.828,747.8109,446.519.930.849.4100.0201_0220,499.430,144045,451.096,094.36,852.7102,947.026,553.397,865.021.331.447.3100.0201_0322,277.432,828.451,686.1106,846.07,740.2114,586.129,250.0109,117.820.930.848.4100.0201_04226,479.934,791.558,640.2119,911.510,277.4130,139.0134,328.1124,184.222.129.048.9100.0202_04*26,979.444,110.462,409.2133,460.97,655.1141,116.035,998.1133,234.520.233.144.6100.0202_04*26,799.440,486.654,231121,529.09,128.5130,657.534,580.5121,411.422.133.344.6100.0202_04*33,073.748,031.960,978.5142,031.7130,657.534,580.5121,411.422.133.344.6100.0202_04*33,073.748,031.960,978.5142,081.7130,657.534,580.5142,537.923.333.842.9100.0202_04*33,073.748,031.960,978.5142,081.710,31.5142,537.9180,099.2<								-						23.8
2021_0121,500.933,326.653,472.2108,299.75,723.1114,022.828,747.8109,446.519.930.849.4100.02021_0220,499.430,144.045,451.096,094.36,852.7102,947.026,553.397,865.021.331.447.3100.02021_0322,277.432,882.451,686.1106,846.07,740.2114,586.129,250.0109,117.820.930.848.4100.02021_0426,479.934,791.558,640.2119,911.510,227.4130,139.034,328.1124,184.222.129.048.9100.02022_01*26,941.344,110.462,409.2133,460.97,655.1141,116.035,998.1133,234.520.233.146.8100.02022_02*26,799.440,486.654,243.1121,529.09,128.5130,657.534,580.5121,411.422.133.344.6100.02022_02*33,073.748,031.960,978.5142,084.110,310.7152,394.842,125.6142,537.923.333.842.9100.02022_04*38,559.456,615.978,818.4173,993.712,060.2186,053.949,554.7180,099.222.232.545.3100.02023_01*40,653.764,128.193,640.5198,422.212,513.5210,935.754,498.1200,169.620.532.347.2100.02023_01*40,653.764,128.193,640.5198,422.2 </td <td>_</td> <td></td> <td>23.8</td>	_													23.8
2021_0220,499.430,144045,451096,094.36,852.7102,947.026,553.397,865.021.131.447.3100.02021_0322,277.432,882.451,686.1106,846.07,740.2114,586.129,250.0109,117.820.030.048.4100.0100.02021_0426,479.933,4791.558,640.2119,911.510,227.4130,139.034,282.1124,184.222.120.030.048.9100.0100.0202_014'26,691.344,110.462,409.2133,460.97,655.1141,116.035,998.1133,234.520.033.146.8100.0100.0202_024''26,799.4440,486.654,243.1121,529.09,128.5130,657.534,580.5121,411.422.133.344.6100.0100.0202_024''33,073.748,031.960,978.5142,081.110,310.7152,394.8142,557.9123.13.3.844.5100.0100.0202_024''33,073.748,031.960,978.5142,062.1130.057.5148,053.7128,053.23.3.84.4.9100.0100.0202_024''33,073.748,031.960,978.5142,053.7126,053.7128,053.7128,053.7128,053.7128.13.1.8100.0100.0202_024''33,559.456,615.978,818.4173,993.712,062.7186,053.7128,053.7120.53.2.33.4.5100.0202_024''34,053.7				,					-					25.2
2021_Q322,277.433,2882.451,686.1106,846.07,740.2114,586.129,250.0109,117.820.030.848.4100.02021_Q426,479.934,791.558,640.2119,911.510,227.4130,139.034,328.1124,184.222.129.048.9100.02022_Q4*26,799.444,410.462,409.2133,460.97,655.1141,160.35,998.1133,234.520.033.146.6100.02022_Q4*26,799.440,486.654,243.121,529.09,128.5130,657.534,580.5121,411.422.133.344.6100.02022_Q4*33,073.748,031.960,978.5142,084.110,310.7152,394.842,253.7123,23333.842.9100.02022_Q4*38,559.456,615.978,818.4173,993.712,060.2186,053.9149,554.7180,099.222.232.545.3100.02023_Q1*40,653.766,128.193,640.512,513.5210,935.7154,981.8200,169.620.232.545.3100.0														25.8
2022_Q1*         26941.3         44,110.4         62,409.2         133,460.9         7,655.1         141,116.0         35,998.1         133,234.5         20.0         33.1         46.8         100.0           2022_Q2*         26,799.4         40,486.6         54,243.1         21,529.0         9,128.5         130,657.5         34,580.5         121,411.4         22.1         33.3         44.6         100.0         100.0           2022_Q3*         33,073.7         48,031.9         60,978.5         142,084.1         103.10.7         152,394.8         42,125.6         142,537.9         23.3         33.8         42.0         100.0           2022_Q4*         38,559.4         56,615.9         78,818.4         173,993.7         12,060.2         186,053.9         49,554.7         180,099.2         22.2         32.5         45.3         100.0           2023_Q1*         40,653.7         64,128.1         93,640.5         198,422.2         12,513.5         210,935.7         130,956.4         200,169.6         20.2         32.3         47.2         100.0			32,882.4	51,686.1	106,846.0	7,740.2	114,586.1	29,250.0		20.9	30.8	48.4	100.0	25.5
2022_Q1*         26941.3         44,110.4         62,409.2         133,460.9         7,655.1         141,116.0         35,998.1         133,234.5         20.0         33.1         46.8         100.0           2022_Q2*         26,799.4         40,486.6         54,243.1         21,529.0         9,128.5         130,657.5         34,580.5         121,411.4         22.1         33.3         44.6         100.0         100.0           2022_Q3*         33,073.7         48,031.9         60,978.5         142,084.1         103.10.7         152,394.8         42,125.6         142,537.9         23.3         33.8         42.0         100.0           2022_Q4*         38,559.4         56,615.9         78,818.4         173,993.7         12,060.2         186,053.9         49,554.7         180,099.2         22.2         32.5         45.3         100.0           2023_Q1*         40,653.7         64,128.1         93,640.5         198,422.2         12,513.5         210,935.7         130,956.4         200,169.6         20.2         32.3         47.2         100.0	_				119,911.5							48.9	100.0	26.4
∠22_Q2*       26,799.4       440,486.6       54,243.1       121,529.0       9,128.5       130,657.5       34,580.5       121,411.4       22.1       33.3       44.6       100.0         ∠22_Q3*       33,073.7       48,031.9       60,978.5       142,084.1       10,310.7       152,394.8       42,125.6       142,537.9       23.3       33.8       42.9       100.0         2022_Q4*       38,559.4       56,615.9       78,818.4       173,993.7       12,060.2       186,053.9       49,554.7       180,099.2       22.2       32.5       45.3       100.0         2023_Q1*       40,653.7       64,128.1       93,640.5       198,422.2       12,513.5       210,935.7       54,498.1       200,169.6       20.5       32.3       47.2       100.0						7,655.1	141,116.0		133,234.5	20.2	33.1	46.8	100.0	25.5
2022_Q4*       38,559.4       56,615.9       78,818.4       173,993.7       12,060.2       186,053.9       49,554.7       180,099.2       22.2       32.5       45.3       100.0         2023_Q1*       40,653.7       64,128.1       93,640.5       198,422.2       12,513.5       210,935.7       54,498.1       200,169.6       20.5       32.3       47.2       100.0		26,799.4	40,486.6	54,243.1	121,529.0	9,128.5	130,657.5	34,580.5		22.1	33.3	44.6	100.0	26.5
2023_Q1* 40,653.7 64,128.1 93,640.5 <b>198,422.2</b> 12,513.5 <b>210,935.7 54,498.1 200,169.6</b> 20.5 32.3 47.2 100.0	2022_Q3*	33,073.7	48,031.9	60,978.5	142,084.1	10,310.7	152,394.8	42,125.6	142,537.9	23.3	33.8	42.9	100.0	27.6
	2022_Q4*	38,559.4	56,615.9	78,818.4	173,993.7	12,060.2	186,053.9	49,554.7	180,099.2	22.2	32.5	45.3	100.0	26.6
2023_Q2* 38,745.8 56,382.4 76,503.6 171,631.9 13,986.9 185,618.8 50,052.2 175,124.4 22.6 32.9 44.6 100.0	2023_Q1*	40,653.7	64,128.1	93,640.5	198,422.2	12,513.5	210,935.7	54,498.1	200,169.6	20.5	32.3	47.2	100.0	25.8
	2023_Q2*	38,745.8	56,382.4	76,503.6	171,631.9	13,986.9	185,618.8	50,052.2	175,124.4	22.6	32.9	44.6	100.0	27.0
2023_Q3** 49,053.2 64,965.9 82,962.6 196,981.7 15,378.4 212,360.1 61,598.2 199,546.6 24.9 33.0 42.1 100.0 * <i>revised</i> ** provisional				82,962.6	196,981.7	15,378.4	212,360.1	61,598.2	199,546.6	24.9	33.0	42.1	100.0	29.0

Appendix 2 - Quarterly value added and GDP at constant 2013 prices by economic activity														
	Quarte	erly Value Ad	lded (GHc M	,						Yea	r-on-Ye	ar chang	. /	
Year	Agriculture	Industry	Services	Total Value Added (GDP_@_basic prices)	Net indirect Taxes	Total (Oil GDP in purchaser's value)	ow Informal GDP in purchaser's value	Total (Non Oil GDP)***	Agriculture	Industry	Services	Total (Oil GDP)***	ow Informal GDP in purchaser's value	Total (Non-oil GDP)
2013_Q1	6,698.2	11,056.7	10,733.0	28,487.9	1,319.6	29,807.5	9,155.8	28,038.9						
2013_Q2	5,521.8	10,753.2	12,632.2	28,907.2	1,507.6	30,414.8	8,289.1	28,715.7						
2013_Q3	5,933.7	10,335.5	12,666.1	28,935.2	1,514.2	30,449.4	8,646.8	28,924.8						
2013_Q4	7,202.2	10,288.8	14,492.4	31,983.5	1,822.4	33,805.9	10,196.4	32,149.4						
2014_Q1	6,594.6	9,859.3	11,780.5	28,234.3	1,243.8	29,478.1	9,206.1	27,670.0	-1.5	-10.8	9.8	-1.1	0.5	-1.3
2014_Q1 2014_Q2	5,534.3	10,803.0	13,432.7	29,770.0	1,549.1	31,319.1	8,432.7	29,627.1	0.2	0.5	6.3	3.0	1.7	3.2
								-						
2014_Q3	6,065.7	11,178.2	13,825.6	31,069.5	1,761.0	32,830.5	9,034.1	31,013.8	2.2	8.2	9.2	7.8	4.5	7.2
2014_Q4	7,389.6	11,073.6	14,115.4	32,578.6	1,826.6	34,405.3	10,412.7	32,455.8	2.6	7.6	-2.6	1.8	2.1	1.0
2015_Q1	6,818.0	10,852.6	13,698.7	31,369.4	1,298.9	32,668.3	9,814.2	30,825.5	3.4	10.1	16.3	10.8	6.6	11.4
2015_Q2	5,575.5	11,129.0	13,985.7	30,690.2	1,653.0	32,343.2	8,651.2	30,582.9	0.7	3.0	4.1	3.3	2.6	3.2
2015_Q3	6,161.5	10,456.1	12,965.0	29,582.6	1,713.6	31,296.2	9,011.6	29,563.9	1.6	-6.5	-6.2	-4.7	-0.2	-4.7 -0.3
2015_Q4 2016_Q1	7,555.5 6,891.9	10,970.4 10,870.9	14,033.4 13,415.6	32,559.3 31,178.4	1,881.2 1,350.0	34,440.5 32,528.3	10,642.2 9,858.6	32,363.5 31,058.9	2.2 1.1	-0.9 0.2	-0.6 -2.1	0.1 -0.4	2.2 0.5	-0.3 0.8
2016_Q1 2016_Q2	5,746.5	10,870.9	13,413.6	29,977.7	1,550.0	32,528.5 31,541.8	9,838.0 8,708.0	30,807.0	3.1	-5.2	-2.1	-0.4	0.5	0.8
2010_Q2 2016_Q3	6,355.9	12,036.7	14,407.1	32,799.7	1,979.6	34,779.3	9,546.6	32,969.0	3.2	15.1	11.1	11.1	5.9	11.5
2010_Q3 2016_Q4	7,829.8	11,825.4	14,407.1	34,344.0	1,965.5	36,309.5	11,042.9	34,069.5	3.6	7.8	4.7	5.4	3.8	5.3
2010_Q4 2017_Q1	7,302.5	12,643.8	13,654.3	33,600.6	1,410.9	35,011.6	10,400.1	32,731.3	6.0	16.3	1.8	7.6	5.5	5.4
2017_Q1 2017_Q2	5,980.8	12,483.0	15,311.9	33,775.8	1,699.7	35,475.5	9,338.5	33,248.0	4.1	18.3	11.9	12.5	7.2	7.9
2017_Q3	6,907.8	13,664.5	14,719.2	35,291.6	1,930.3	37,221.9	10,246.2	34,049.8	8.7	13.5	2.2	7.0	7.3	3.3
2017_Q4	8,299.8	13,564.1	14,442.5	36,306.4	2,130.6	38,437.0	11,577.7	34,838.4	6.0	14.7	-1.7	5.9	4.8	2.3
2018_Q1	7,825.8	14,475.4	14,989.2	37,290.4	1,532.0	38,822.4	11,000.5	35,992.5	7.2	14.5	9.8	10.9	5.8	10.0
 2018_Q2	6,440.1	13,606.8	14,783.9	34,830.7	1,823.3	36,654.0	9,524.6	34,119.6	7.7	9.0	-3.4	3.3	2.0	2.6
2018_Q3	6,996.0	15,403.5	15,110.5	37,510.1	2,160.7	39,670.8	10,307.7	36,365.3	1.3	12.7	2.7	6.6	0.6	6.8
2018_Q4	8,618.1	14,368.6	14,877.8	37,864.6	2,195.2	40,059.8	11,814.9	36,554.8	3.8	5.9	3.0	4.2	2.0	4.9
2019_Q1	8,307.1	15,641.9	15,629.0	39,578.0	1,525.5	41,103.5	11,698.7	37,938.7	6.2	8.1	4.3	5.9	6.3	5.4
2019_Q2	6,773.7	15,503.7	15,703.7	37,981.1	2,001.1	39,982.2	10,181.7	36,692.3	5.2	13.9	6.2	9.1	6.9	7.5
2019_Q3	7,313.6	16,060.1	16,246.2	39,619.9	2,146.6	41,766.5	10,871.8	37,948.4	4.5	4.3	7.5	5.3	5.5	4.4
2019_Q4	8,876.7	14,331.6	16,737.8	39,946.1	2,509.2	42,455.3	12,403.7	38,795.8	3.0	-0.3	12.5	6.0	5.0	6.1
2020_Q1	9,158.2	15,855.7	17,286.0	42,299.8	1,443.0	43,742.8	12,230.0	40,340.5	10.2	1.4	10.6	6.4	4.5	6.3
2020_Q2	7,152.7	14,519.4	14,263.1	35,935.2	1,791.1	37,726.3	9,614.0	34,424.1	5.6	-6.3	-9.2	-5.6	-5.6	-6.2
2020_Q3	7,545.6	14,938.5	15,749.1	38,233.3	2,172.8	40,406.0	10,250.6	37,114.2	3.2	-7.0	-3.1	-3.3	-5.7	-2.2
2020_Q4	9,692.2	14,687.6	17,456.3	41,836.1	2,446.0	44,282.1	12,710.7	40,990.4	9.2	2.5	4.3	4.3	2.5	5.7
2021_Q1	9,527.6	15,807.7	18,649.5	43,984.7	1,465.3	45,450.0	12,317.4	42,465.4	4.0	-0.3	7.9	3.9	0.7	5.3
2021_Q2	7,990.9	13,791.9	15,886.2	37,669.0	1,745.8	39,414.8	10,313.6	36,690.5	11.7	-5.0	11.4	4.5	7.3	6.6
2021_Q3	8,132.3	14,890.2	17,593.6	40,616.1	2,115.9	42,732.0	10,744.0	39,755.0	7.8	-0.3	11.7	5.8	4.8	7.1
2021_Q4	10,735.1	15,224.4	18,690.4	44,649.8	2,345.4	46,995.2	13,490.1	44,064.1	10.8	3.7	7.1	6.1	6.1	7.5
2022_Q1*	9,964.5	15,769.2	19,557.0	45,290.7	1,269.4	46,560.1	12,852.2	43,796.9	4.6	-0.2	4.9	2.4	4.3	3.1
2022_Q2*	8,308.9	14,387.8	16,715.7	39,412.3	1,388.3	40,800.6	10,769.6	38,457.6	4.0	4.3	5.2	3.5	4.4	4.8
2022_Q3*	8,508.0	15,035.5	18,345.9	41,889.3	1,981.6	43,870.9	11,190.2	41,065.5	4.6	1.0	4.3	2.7	4.2	3.3
2022_Q4*	11,116.3	15,074.5	20,106.1	46,296.9	2,436.5	48,733.4	13,999.6	45,957.1	3.6	-1.0	7.6	3.7	3.8	4.3
2023_Q1*	10,607.0	15,360.1	20,797.2	46,764.3	1,310.3	48,074.6	13,589.4	45,745.2	6.4	-2.6	6.3	3.3	5.7	4.4
2023_Q2*	8,811.5	14,122.4	17,762.1	40,696.0	1,415.1	42,111.1	11,385.4	39,700.1	6.0	-1.8	6.3	3.2	5.7	3.2
2023_Q3** *revised	9,009.1 ** provision	14,383.7 al	19,348.5	42,741.3	2,001.7	44,743.0	11,782.7	41,911.9	5.9	-4.3	5.5	2.0	5.3	2.1

Appendix 3- Seasonally adjusted quarterly value added and Gross Domestic Product at constant 2013 prices by economic activity												
	Quarterly Value Added (GHc Million) Quarter-on-Quarter Change (										%)	
Year Quarter	Agriculture	Industry	Service	Total Value Added (GDP_@_basic prices)	Net indirect Taxes	Total (GDP in purchaser's value)	ow Informal GDP in purchaser's value	Agriculture	Industry	Service	Total GDP***	ow InformalGDP in purchaser's value
2013_Q1	6,698.2	11,056.7	10,733.0	28,487.9	1,319.6	29,807.5	9,342.4	-	-	-	-	-
2013_Q2	6,073.9	10,904.9	11,682.6	28,661.5	1,413.6	30,075.1	8,688.6	-9.3	-1.4	8.8	0.9	-1.6
2013_Q3	6,051.2	10,715.1	12,010.4	28,776.8	1,447.1	30,223.9	8,604.4	-0.4	-1.7	2.8	0.5	0.6
2013_Q4	6,339.0	10,608.5	12,630.9	29,578.4	1,541.0	31,119.4	8,834.7	4.8	-1.0	5.2	3.0	5.3
2014_Q1	6,313.1	10,309.2	12,892.8	29,515.0	1,522.0	31,037.0	8,814.4	-0.4	-2.8	2.1	-0.3	1.5
2014_Q2	6,316.2	10,321.6	13,092.9	29,730.8	1,532.4	31,263.1	8,865.7	0.0	0.1	1.6	0.7	0.2
2014_Q3	6,349.2	10,532.3	13,382.8	30,264.3	1,594.1	31,858.4	8,937.4	0.5	2.0	2.2	1.9	0.6
2014_Q4	6,396.1	10,728.5	13,288.5	30,413.1	1,595.1	32,008.2	9,025.4	0.7	1.9	-0.7	0.5	-0.1
2015_Q1	6,451.9	10,976.9	13,768.1	31,196.9	1,608.9	32,805.8	9,108.2	0.9	2.3	3.6	2.5	1.6
2015_Q2	6,462.2	11,058.4	13,906.4	31,426.9	1,634.9	33,061.8	9,115.9	0.2	0.7	1.0	0.8	0.3
2015_Q3	6,486.2	10,877.8	13,691.2	31,055.2	1,623.0	32,678.2	9,149.4	0.4	-1.6	-1.5	-1.2	0.2
2015_Q4	6,527.6	10,852.0	13,670.7	31,050.4	1,636.7	32,687.1	9,254.4	0.6	-0.2	-0.1	0.0	0.5
2016_Q1	6,546.1	10,856.6	13,599.9	31,002.6	1,649.5	32,652.1	9,296.6	0.3	0.0	-0.5	-0.1	0.4
2016_Q2	6,588.9	10,712.2	13,523.4	30,824.5	1,627.2	32,451.7	9,345.2	0.7	-1.3	-0.6	-0.6	0.5
2016_Q3	6,637.5	11,107.4	13,883.9	31,628.8	1,693.7	33,322.5	9,431.4	0.7	3.7	2.7	2.7	0.9
2016_Q4	6,706.0	11,321.1	14,047.8	32,074.9	1,714.8	33,789.7	9,521.8	1.0	1.9	1.2	1.4	1.2
2017_Q1	6,808.7	11,764.4	14,107.5	32,680.5	1,730.0	34,613.1	9,661.4	1.5	3.9	0.4	2.4	1.6
2017_Q2	6,867.3	12,247.2	14,515.5	33,630.0	1,763.9	35,394.0	9,793.8	0.9	4.1	2.9	2.3	1.4
2017_Q3	7,005.2	12,654.2	14,593.5	34,253.0	1,751.6	36,004.6	9,987.7	2.0	3.3	0.5	1.7	1.9
2017_Q4	7,122.7	13,088.9	14,532.0	34,743.6	1,792.9	36,536.5	10,140.5	1.7	3.4	-0.4	1.5	1.3
2018_Q1	7,253.6	13,546.8	14,865.7	35,666.0	1,823.2	37,489.2	10,301.1	1.8	3.5	2.3	2.6	1.1
2018_Q2	7,368.4	13,827.7	14,733.7	35,929.8	1,854.0	37,783.8	10,435.9	1.6	2.1	-0.9	0.8	1.0
2018_Q3	7,390.4	14,262.5	14,831.5	36,484.4	1,911.6	38,396.1	10,516.3	0.3	3.1	0.7	1.6	1.4
2018_Q4	7,470.0	14,463.6	14,940.3	36,874.0	1,927.8	38,801.8	10,652.4	1.1	1.4	0.7	1.1	1.4
2019_Q1	7,590.3	14,755.2	15,100.3	37,445.9	1,926.2	39,372.1	10,938.5	1.6	2.0	1.1	1.5	2.6
2019_Q2	7,673.7	15,229.4	15,330.3	38,233.4	1,970.7	40,204.1	11,104.2	1.1	3.2	1.5	2.1	1.5
2019_Q3	7,753.1	15,393.6	15,614.2	38,760.9	1,967.1	40,728.0	11,246.7	1.0	1.1	1.9	1.3	1.3
2019_Q4	7,817.8	15,384.3	16,079.2	39,281.3	2,045.6	41,326.9	11,395.3	0.8	-0.1	3.0	1.5	1.3
2020_Q1	8,030.5	15,437.8	16,493.4	39,961.7	2,025.0	41,986.7	11,707.3	2.7	0.3	2.6	1.6	2.7
2020_Q2	8,125.3	15,191.7	16,133.3	39,450.3	1,972.5	41,422.7	11,744.5	1.2	-1.6	-2.2	-1.3	0.3
2020_Q3	8,183.3	14,911.3	16,009.0	39,103.6	1,979.0	41,082.6	11,768.4	0.7	-1.8	-0.8	-0.8	0.5
2020_Q4	8,387.2	15,000.3	16,188.6	39,576.1	1,963.2	41,539.3	12,024.3	2.5	0.6	1.1	1.1	1.9
2021_Q1	8,479.5	14,988.3	16,529.5	39,997.3	1,968.8	41,966.1	12,124.7	1.1	-0.1	2.1	1.0	0.8
2021_Q2	8,689.1	14,806.4	16,935.3	40,430.8	1,957.5	42,388.2	12,310.7	2.5	-1.2	2.5	1.0	1.5
2021_Q3	8,835.8	14,794.3	17,396.4	41,026.5	1,943.2	42,969.7	12,452.9	1.7	-0.1	2.7	1.4	1.2
2021_Q4	9,096.5	14,928.5	17,704.9	41,729.9	1,918.1	43,648.0	12,717.7	3.0	0.9	1.8	1.6	2.1
2022_Q1*	9,205.7	14,918.9	17,931.8	42,056.4	1,869.1	43,925.5	12,827.8	1.2	-0.1	1.3	0.6	0.9
2022_Q2*	9,285.2	15,067.9	18,139.2	42,492.2	1,779.7	44,272.0	12,920.3	0.9	1.0	1.2	0.8	0.7
2022_Q3*	9,379.1	15,104.2	18,327.2	42,810.5	1,746.2	44,556.7	13,012.5	1.0	0.2	1.0	0.6	0.7
2022_Q4*	9,474.4	15,066.8	18,681.2	43,222.3	1,768.9	44,991.3	13,102.5	1.0	-0.2	1.9	1.0	0.7
2023_Q1*	9,635.0	14,964.5	18,991.2	43,590.7	1,779.2	45,369.9	13,254.2	1.7	-0.7	1.7	0.8	1.2
2023_Q2*	9,760.7	14,898.1	19,252.8	43,911.6	1,785.9	45,697.5	13,380.8	1.3	-0.4	1.4	0.7	1.0
2023_Q3**		14,735.2	19,503.5	44,124.6	1,790.9	45,915.5	13,502.7	1.3	-1.1	1.3	0.5	0.9
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