



GHANA STATISTICAL SERVICE

Statistics for Development and Progress

Quarterly GDP Bulletin

**Rebased Quarterly Gross Domestic Product
2013Q1-2021Q3**

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Forthcoming issues

Issue	Expected Date of Publication
Fourth Quarter of 2021	March 16, 2022
First Quarter of 2022	June 22, 2022
Second Quarter of 2022	September 21, 2022
Third Quarter of 2022	December 21, 2022
Fourth Quarter of 2022	March 22, 2023

Explanatory notes

Introduction

This publication contains final rebased quarterly GDP estimates for 2013 Q1 to 2019 Q4, revised estimates for 2020Q1 to 2020Q2, and provisional GDP estimates for 2021Q3

Gross Domestic Product (GDP) is Ghana's official measure of economic growth. There are three different approaches for calculating GDP. These are the production approach, the expenditure approach and the income approach. The production approach is used to calculate Ghana's GDP on a quarterly basis.

The bulletin contains 24 Tables: Appendix 1 to 4: Quarterly GDP at Current Prices by Economic Activity and respective Sectoral Distribution; Appendix 5 to 14: Quarterly GDP at Constant 2013 prices by Economic Activity and Sectoral Growth rates; and Appendix 15 to 24: Seasonally Adjusted Quarterly GDP at Constant 2013 Prices by Economic Activity and Sectoral growth rates.

For more information about GDP and the national accounts, go to Ghana Statistical Service website (www.statsghana.gov.gh).

Sources and Methods

This Statistical Release contains independently compiled quarterly estimates of the Gross Domestic Product (GDP) from the first quarter of 2013 onwards. The estimates are based on the 2008 System of National Accounts (SNA), International Standard Industrial Classification Revision 4 published by the United Nations and Quarterly National Accounts Manual: Concepts, Data Sources and Compilation by 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 use 2013 as the base year.

Methodology

Short-term indicators are used to estimate the quarterly GDP (See IMF's Quarterly National Accounts Manual: Concepts, Data sources, and Compilation) from which annual GDP estimates are calculated independently from the quarterly estimates. Alternatively, annual GDP estimates are derived as the sum of the GDP for the four quarters of the year.

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 is to provide a clearer view of short term movements and trends and to allow early identification of turning points.

Revision policy

Revisions to the previously published series may be made each quarter. The frequency and cause of these revisions are as follows:

Quarterly: additional data becoming available for the latest quarters, which are used to update existing estimates; revisions to quarterly data (e.g. revisions to the Balance of Payments, Fiscal data, VAT data), which are incorporated as soon as they are available to maintain consistency among different series of published macro-economic statistics.

Annual: introduction of annual data following the release of the latest annual national accounts each year.

Irregular: Irregular revisions occur for example, as a result of methodological changes. Note that, as far as possible, revisions of this nature are incorporated to coincide with the annual cycle of revisions outlined above.

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Appendix 1- Quarterly Gross Domestic Product at current prices by economic activity and respective sectoral distribution													
Year Quarter	Value Added (GHc Million)								% of GDP (@ basic prices)				
	Agriculture	Industry	Services	Total Value Added (GDP @ basic prices)	Net indirect Taxes	Total (GDP in purchaser's value)	ow InformalGDP in purchaser's value	Total Non-Oil (GDP in purchaser's value)	Agriculture	Industry	Services	Total Value Added (GDP @ basic prices)	ow Informal GDP in purchaser's value
2013_Q1	6,698.2	11,056.7	10,733.0	28,487.9	1,319.6	29,807.5	9,155.8	28,038.9	23.5	38.8	37.7	100.0	30.7
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
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
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_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_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
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
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_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_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
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
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
2016_Q1	12,099.8	14,969.4	22,294.6	49,363.8	3,801.2	53,165.0	16,582.3	53,070.6	24.5	30.3	45.2	100.0	31.2
2016_Q2	9,690.3	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	100.0	27.4
2016_Q3	10,870.7	15,127.1	24,036.0	50,033.8	3,814.4	53,848.2	15,622.9	53,636.2	21.7	30.2	48.0	100.0	29.0
2016_Q4	13,112.2	15,833.7	26,550.3	55,496.2	4,600.7	60,096.9	18,356.4	59,420.3	23.6	28.5	47.8	100.0	30.5
2017_Q1	12,478.6	18,401.6	27,420.0	58,300.2	3,968.8	62,269.0	17,799.0	60,905.3	21.4	31.6	47.0	100.0	28.6
2017_Q2	10,039.7	19,210.8	29,674.0	58,924.5	4,331.0	63,255.5	15,792.4	61,179.2	17.0	32.6	50.4	100.0	25.0
2017_Q3	12,689.8	21,206.5	29,499.0	63,395.2	4,843.1	68,238.3	18,555.6	65,330.0	20.0	33.5	46.5	100.0	27.2
2017_Q4	16,199.7	19,895.0	27,679.1	63,773.8	5,261.4	69,035.1	21,647.0	66,361.0	25.4	31.2	43.4	100.0	31.4
2018_Q1	15,053.6	24,271.9	32,874.8	72,200.3	5,242.7	77,443.0	21,286.2	72,938.6	20.8	33.6	45.5	100.0	27.5
2018_Q2	12,228.9	23,411.1	31,201.3	66,841.3	4,917.0	71,758.3	18,142.1	67,897.1	18.3	35.0	46.7	100.0	25.3
2018_Q3	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	25.1
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	31.0	47.9	100.0	27.9
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	27.4
2019_Q2	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	23.9
2019_Q3	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	23.8
2019_Q4	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	25.9
2020_Q1*	19,832.7	25,195.7	55,778.8	100,807.2	4,493.5	105,300.7	28,653.8	100,459.9	19.7	25.0	55.3	100.0	27.2
2020_Q2*	15,458.3	26,424.5	41,531.0	83,413.8	5,056.3	88,470.1	21,923.2	85,661.5	18.5	31.7	49.8	100.0	24.8
2020_Q3*	17,869.3	29,897.6	37,057.3	84,824.2	6,739.1	91,563.4	23,784.9	88,504.8	21.1	35.2	43.7	100.0	26.0
2020_Q4*	20,679.4	32,528.4	38,241.2	91,449.0	6,702.9	98,151.8	27,021.0	95,067.1	22.6	35.6	41.8	100.0	27.5
2021_Q1*	27,335.9	28,091.4	60,470.9	115,898.2	5,914.0	121,812.1	35,014.9	116,037.5	23.6	24.2	52.2	100.0	28.7
2021_Q2*	19,801.3	27,873.1	50,658.8	98,333.2	7,057.1	105,390.3	26,473.2	101,273.0	20.1	28.3	51.5	100.0	25.1
2021_Q3**	24,049.0	31,732.7	44,923.5	100,705.2	9,405.7	110,111.0	30,377.8	105,627.3	23.9	31.5	44.6	100.0	27.6

*revised ** provisional

Appendix 2 - Agriculture: value added by activity at current prices								
Year	Quarter	Value Added (GHc Million)						
		Crops & Cocoa	Cocoa	Livestock	Forestry & Logging	Fishing	Total Value Added	ow informal
2013_Q1		5,006.4	774.7	696.0	475.8	519.9	6,698.2	6,222.4
2013_Q2		3,897.6	258.9	624.0	480.8	519.4	5,521.8	5,040.9
2013_Q3		4,419.5	519.5	625.8	508.0	380.4	5,933.7	5,425.7
2013_Q4		5,197.8	1,044.2	1,112.7	549.1	342.6	7,202.2	6,653.1
2014_Q1		6,062.8	1,281.7	888.6	669.1	388.0	8,008.4	7,339.4
2014_Q2		4,692.6	426.2	822.3	725.5	509.6	6,749.9	6,024.4
2014_Q3		5,289.5	851.7	820.3	737.9	509.1	7,356.8	6,618.9
2014_Q4		6,357.9	1,707.7	1,383.0	711.4	508.9	8,961.1	8,249.7
2015_Q1		7,067.7	1,440.9	1,034.0	852.6	573.7	9,528.0	8,675.4
2015_Q2		5,514.4	480.5	909.4	875.8	585.5	7,885.1	7,009.3
2015_Q3		6,350.7	958.6	877.8	845.3	638.5	8,712.4	7,867.1
2015_Q4		7,640.8	1,901.4	1,429.7	824.5	652.8	10,547.8	9,723.3
2016_Q1		9,572.6	1,526.0	1,095.6	834.1	597.4	12,099.8	11,265.6
2016_Q2		7,146.7	503.4	982.1	860.8	700.7	9,690.3	8,829.5
2016_Q3		8,298.8	999.7	958.9	887.7	725.3	10,870.7	9,983.0
2016_Q4		9,947.3	1,999.1	1,546.1	900.2	718.6	13,112.2	12,212.0
2017_Q1		9,726.7	1,575.0	1,202.9	967.1	581.9	12,478.6	11,511.5
2017_Q2		7,505.0	537.3	1,080.6	1,001.1	453.0	10,039.7	9,038.6
2017_Q3		9,659.6	1,102.6	1,051.1	1,014.7	964.4	12,689.8	11,675.0
2017_Q4		12,838.7	2,275.3	1,652.9	1,004.8	703.3	16,199.7	15,194.9
2018_Q1		12,057.4	1,663.7	1,286.5	1,119.0	590.7	15,053.6	13,934.6
2018_Q2		9,366.1	567.0	1,153.2	1,071.7	637.9	12,228.9	11,157.2
2018_Q3		10,164.7	1,151.9	1,119.0	1,014.0	685.8	12,983.5	11,969.5
2018_Q4		12,212.9	2,311.7	1,729.4	963.6	795.1	15,701.0	14,737.4
2019_Q1		14,379.7	1,788.7	1,367.6	1,116.7	672.5	17,536.5	16,419.8
2019_Q2		10,577.3	585.6	1,236.9	1,069.6	711.2	13,595.0	12,525.4
2019_Q3		11,237.2	1,151.1	1,206.9	1,048.2	734.6	14,227.0	13,178.7
2019_Q4		12,730.4	2,267.2	1,843.2	1,022.4	810.5	16,406.5	15,384.0
2020_Q1*		16,396.0	2,019.9	1,480.0	1,086.8	869.9	19,832.7	18,745.9
2020_Q2*		12,183.3	668.2	1,348.5	998.5	928.0	15,458.3	14,459.8
2020_Q3*		14,512.4	1,327.5	1,319.7	1,024.7	1,012.4	17,869.3	16,844.6
2020_Q4*		16,834.9	2,643.3	1,985.5	1,018.2	840.9	20,679.4	19,661.2
2021_Q1*		23,807.8	3,300.4	1,607.6	1,100.9	819.5	27,335.9	26,235.0
2021_Q2*		16,045.8	1,091.7	1,504.2	1,027.0	1,224.3	19,801.3	18,774.3
2021_Q3**		20,187.2	2,169.1	1,472.1	1,054.0	1,335.6	24,049.0	22,995.0

*revised

** provisional

Appendix 3- Industry: value added by activity at current prices									
Year Quarter	Value Added (GHc Million)							Total Value Added	informal
	Mining and Quarrying	Oil & Gas	Manufacturing	Electricity	Water & Sewerage	Construction			
2013_Q1	4,256.8	1,768.6	3,746.4	353.7	146.9	2,552.9	11,056.7	875.6	
2013_Q2	3,715.8	1,699.1	3,832.2	346.9	153.1	2,705.3	10,753.2	851.5	
2013_Q3	3,392.2	1,524.7	3,758.8	318.7	161.4	2,704.4	10,335.5	818.5	
2013_Q4	4,193.0	1,656.4	3,087.7	321.5	241.3	2,445.3	10,288.8	814.8	
2014_Q1	5,411.7	1,439.8	2,684.3	393.7	175.7	2,224.1	10,889.4	862.3	
2014_Q2	5,776.0	2,281.1	4,055.2	376.1	164.4	2,345.6	12,717.3	1,007.1	
2014_Q3	5,792.7	2,972.9	5,275.6	322.4	179.6	3,889.0	15,459.3	1,224.2	
2014_Q4	5,285.1	2,862.0	5,471.8	300.5	210.2	3,457.4	14,725.0	1,166.1	
2015_Q1	4,289.4	1,945.9	4,649.0	262.2	295.4	3,615.5	13,111.5	1,038.3	
2015_Q2	5,249.9	1,443.3	4,845.5	997.8	350.6	3,886.3	15,330.2	1,214.0	
2015_Q3	4,076.4	861.5	4,899.5	860.4	412.7	3,688.9	13,938.0	1,103.7	
2015_Q4	3,521.4	441.3	5,974.2	889.1	518.4	3,829.3	14,732.3	1,166.7	
2016_Q1	3,488.3	94.4	6,053.3	1,002.9	430.1	3,994.9	14,969.4	1,185.4	
2016_Q2	4,010.4	44.1	6,045.2	860.9	436.6	3,529.6	14,882.7	1,178.6	
2016_Q3	4,803.6	212.0	5,297.8	743.0	470.6	3,812.1	15,127.1	1,197.9	
2016_Q4	4,549.0	676.5	6,364.8	915.2	508.5	3,496.3	15,833.7	1,253.9	
2017_Q1	5,792.0	1,363.8	6,338.2	1,049.6	560.0	4,661.8	18,401.6	1,457.2	
2017_Q2	5,940.5	2,076.3	6,745.6	1,132.9	592.8	4,799.0	19,210.8	1,521.3	
2017_Q3	6,732.6	2,908.4	7,564.2	1,107.0	587.2	5,215.5	21,206.5	1,679.3	
2017_Q4	7,802.7	2,674.1	6,031.9	1,145.5	584.3	4,330.6	19,895.0	1,575.5	
2018_Q1	8,325.1	4,504.4	9,226.5	1,149.8	566.0	5,004.5	24,271.9	1,922.1	
2018_Q2	9,645.7	3,861.2	7,276.0	1,081.9	552.3	4,855.1	23,411.1	1,853.9	
2018_Q3	10,772.2	4,613.9	8,099.0	1,010.1	542.8	4,978.1	25,402.2	2,011.6	
2018_Q4	10,553.2	3,991.6	6,628.0	979.3	550.9	4,414.1	23,125.5	1,831.3	
2019_Q1	10,449.3	6,014.8	9,576.8	1,040.0	531.9	4,778.3	26,376.3	2,088.7	
2019_Q2	11,525.5	5,352.2	8,618.7	966.1	523.9	5,277.3	26,911.4	2,131.1	
2019_Q3	12,736.9	5,460.8	9,335.6	1,161.7	623.3	5,676.3	29,533.8	2,338.8	
2019_Q4	12,748.1	4,506.9	8,698.1	1,209.6	614.9	4,820.6	28,091.3	2,224.5	
2020_Q1*	6,514.2	4,840.8	11,435.4	1,096.0	642.9	5,507.3	25,195.7	1,995.2	
2020_Q2*	10,929.6	2,808.7	7,884.7	1,113.2	619.9	5,877.0	26,424.5	2,092.5	
2020_Q3*	12,333.8	3,058.6	9,934.2	1,263.3	603.5	5,762.7	29,897.6	2,367.6	
2020_Q4*	14,130.6	3,084.7	10,911.3	1,285.6	598.2	5,602.7	32,528.4	2,575.9	
2021_Q1*	7,067.0	5,774.7	12,673.9	1,180.0	598.3	6,572.1	28,091.4	2,224.5	
2021_Q2*	10,212.0	4,117.3	9,562.0	1,433.3	217.2	6,448.6	27,873.1	2,207.3	
2021_Q3**	11,524.1	4,483.6	12,047.4	1,626.5	211.4	6,323.3	31,732.7	2,512.9	

*revised ** provisional

Appendix 4 - Services: value added by activity at current prices

Year Quarter	Value Added (GHc Million)												
	Trade, Repair of Vehicles, Household Goods	Hotels And Restaurants	Transport & Storage	Information & Communication	Financial & Insurance Activities	Real Estate	Professional, Administrative & other Services Activities	Public Administration & Defence; Social Security	Education	Health	Other Personal Service Activities	Total Value Added	ow informal
2013_Q1	2,898.8	1,024.8	1,445.8	417.5	1,419.7	232.6	450.7	956.2	1,059.8	552.6	274.5	10,733.0	2057.8
2013_Q2	4,254.7	1,110.7	1,420.8	511.0	1,464.0	304.5	398.6	1,103.7	1,135.1	595.0	334.0	12,632.2	2396.6
2013_Q3	3,334.4	1,205.6	1,969.4	495.3	1,479.5	306.3	410.1	1,071.1	1,300.2	678.2	416.0	12,666.1	2402.7
2013_Q4	3,389.0	1,334.1	2,218.6	525.5	1,519.4	329.8	411.8	1,454.1	1,829.9	874.4	605.7	14,492.4	2728.5
2014_Q1	2,918.2	966.5	1,136.8	615.6	1,593.2	241.2	502.3	1,116.9	1,389.7	687.7	485.4	11,653.6	2357.2
2014_Q2	4,697.1	1,531.9	1,604.2	667.9	1,808.4	233.4	523.3	1,294.0	1,479.1	702.5	389.1	14,930.9	2941.9
2014_Q3	5,316.5	1,689.8	2,381.5	776.8	1,873.1	388.4	573.0	1,128.8	1,449.9	868.6	466.0	16,912.4	3295.4
2014_Q4	3,910.2	1,196.0	2,678.6	829.8	1,835.1	504.8	593.7	1,351.3	1,569.7	955.1	448.3	15,872.6	3109.9
2015_Q1	4,728.2	1,779.5	2,662.1	839.3	2,362.2	384.7	650.3	1,083.5	1,678.6	909.8	591.6	17,669.7	3391.4
2015_Q2	5,721.4	1,439.7	2,238.0	914.8	2,338.7	516.2	719.5	1,335.1	1,921.7	895.3	588.5	18,629.0	3562.5
2015_Q3	5,223.7	1,367.7	2,588.2	1,001.7	2,361.8	377.1	708.0	1,626.6	1,544.9	792.6	523.2	18,115.6	3470.9
2015_Q4	5,971.2	1,318.3	2,569.0	1,045.2	2,373.9	949.8	683.9	1,584.9	1,979.8	956.7	508.8	19,941.5	3796.7
2016_Q1	6,999.7	1,691.6	2,744.9	1,063.1	3,085.5	487.2	810.0	1,697.7	2,090.9	981.7	642.3	22,294.6	4131.3
2016_Q2	7,720.0	1,843.5	3,108.6	1,047.5	3,308.3	418.7	835.2	1,659.3	1,976.8	995.2	642.9	23,556.0	4356.3
2016_Q3	7,278.8	1,872.3	3,918.5	1,146.9	3,395.8	515.4	717.0	1,684.5	1,850.3	975.7	680.9	24,036.0	4442
2016_Q4	7,506.1	2,009.6	3,487.3	1,215.6	3,569.4	2,134.2	866.8	1,948.7	1,908.4	1,159.6	744.4	26,550.3	4890.5
2017_Q1	9,351.5	2,473.3	3,585.4	1,197.2	3,176.6	1,300.7	796.8	1,763.3	2,012.2	1,029.7	733.4	27,420.0	4830.4
2017_Q2	9,500.0	2,327.2	4,445.5	1,225.3	3,181.1	1,265.2	1,078.6	2,235.5	2,411.0	1,279.7	725.1	29,674.0	5232.5
2017_Q3	8,268.8	2,208.3	4,800.3	1,361.5	2,685.0	2,318.1	1,021.3	2,342.7	2,413.2	1,346.8	733.0	29,499.0	5201.2
2017_Q4	8,195.1	2,444.3	4,462.8	1,453.4	2,832.9	815.8	916.6	2,094.2	2,292.8	1,445.1	726.0	27,679.1	4876.6
2018_Q1	10,515.8	2,762.9	5,462.3	1,687.7	2,668.5	1,787.1	895.9	2,462.6	2,443.7	1,450.3	737.8	32,874.8	5429.5
2018_Q2	10,021.0	2,580.9	5,082.3	1,721.0	2,824.7	778.8	1,130.6	2,404.6	2,497.2	1,446.7	713.4	31,201.3	5131
2018_Q3	11,772.8	2,715.2	5,002.7	1,854.5	2,577.1	2,805.0	1,015.0	2,472.3	2,583.8	1,483.5	726.0	35,007.9	5810.1
2018_Q4	12,403.5	2,748.3	5,535.8	1,792.6	3,543.0	892.3	1,242.6	2,602.6	2,551.6	1,618.7	771.3	35,702.4	5934
2019_Q1	14,845.8	2,439.1	5,503.9	1,935.4	2,818.3	1,802.6	899.4	2,817.8	2,779.7	1,796.7	797.9	38,436.5	5618.7
2019_Q2	14,946.3	2,458.0	5,483.1	2,251.1	3,142.6	1,530.9	1,511.1	2,877.7	2,977.5	1,896.2	799.5	39,874.0	5875.2
2019_Q3	12,323.4	3,320.9	6,006.7	2,316.6	2,820.6	4,424.3	1,359.0	3,031.4	3,242.8	1,828.5	829.8	41,504.1	6166
2019_Q4	11,650.1	4,255.5	6,536.0	3,673.3	3,855.1	1,248.6	1,247.0	2,915.8	3,155.2	1,712.3	884.9	41,133.6	6099.9
2020_Q1*	24,454.4	5,070.4	6,303.0	2,472.0	3,242.5	2,540.4	1,617.4	3,180.1	3,950.3	2,094.8	853.3	55,778.8	7912.7
2020_Q2*	13,925.2	603.6	6,102.0	3,179.9	3,393.8	2,819.9	2,155.4	3,171.0	3,360.1	1,980.3	839.8	41,531.0	5370.8
2020_Q3*	8,543.7	1,471.2	6,831.1	3,595.4	3,170.4	3,076.3	952.2	3,213.6	3,441.5	1,903.2	858.8	37,057.3	4572.7
2020_Q4*	8,842.3	1,828.9	6,880.6	3,583.9	4,215.2	2,555.4	492.2	3,432.9	3,485.1	2,019.6	905.1	38,241.2	4783.9
2021_Q1*	25,590.9	4,680.9	6,766.2	2,953.7	3,511.2	3,114.1	1,640.3	3,597.0	5,131.7	2,587.8	897.0	60,470.9	6555.3
2021_Q2*	16,313.5	657.1	6,789.0	3,789.7	3,675.0	3,152.9	3,281.4	3,918.7	5,574.7	2,624.0	882.8	50,658.8	5491.7
2021_Q3**	10,009.0	1,601.5	7,600.2	4,284.9	3,433.1	3,439.6	1,449.6	3,971.3	5,709.7	2,521.7	902.8	44,923.5	4869.9

*revised ** provisional

Appendix 5 - Quarterly value added and GDP at constant 2013 prices by economic activity

Year	Quarter	Quarterly Value Added (GHc Million)							Year-on-Year change (%)						
		Agriculture	Industry	Services	Total Value Added (GDP @_basic prices)	Net indirect Taxes	Total (Oil GDP in purchaser's value)	Low Informal GDP in purchaser's value	Total (Non Oil GDP)***	Agriculture	Industry	Services	Total (Oil GDP)***	Low 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_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
2015_Q4		7,555.5	10,970.4	14,033.4	32,559.3	1,881.2	34,440.5	10,642.2	32,363.5	2.2	-0.9	-0.6	0.1	2.2	-0.3
2016_Q1		6,891.9	10,870.9	13,415.6	31,178.4	1,350.0	32,528.3	9,858.6	31,058.9	1.1	0.2	-2.1	-0.4	0.5	0.8
2016_Q2		5,746.5	10,551.5	13,679.6	29,977.7	1,564.1	31,541.8	8,708.0	30,807.0	3.1	-5.2	-2.2	-2.5	0.7	0.7
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
2016_Q4		7,829.8	11,825.4	14,688.8	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
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_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*		9,157.3	15,861.9	17,549.0	42,568.2	1,431.3	43,999.5	12,209.1	40,948.1	10.2	1.4	12.3	7.0	4.4	7.9
2020_Q2*		7,151.8	14,291.8	14,493.5	35,937.0	1,773.2	37,710.3	9,598.6	34,580.9	5.6	-7.8	-7.7	-5.7	-5.7	-5.8
2020_Q3*		7,671.3	14,910.7	15,702.4	38,284.4	2,155.9	40,440.3	10,381.9	36,823.7	4.9	-7.2	-3.3	-3.2	-4.5	-3.0
2020_Q4*		9,602.8	14,279.6	17,515.3	41,397.7	2,444.9	43,842.6	12,593.4	40,352.1	8.2	-0.4	4.6	3.3	1.5	4.0
2021_Q1*		10,010.4	16,075.1	18,253.1	44,338.5	1,495.5	45,834.0	12,747.4	43,275.8	9.3	1.3	4.0	4.2	4.4	5.7
2021_Q2*		8,001.3	13,675.9	16,084.0	37,761.1	1,853.7	39,614.8	10,326.6	36,822.5	11.9	-4.3	11.0	5.1	7.6	6.5
2021_Q3**		8,375.3	14,614.2	17,801.8	40,791.4	2,302.2	43,093.5	11,001.5	39,974.4	9.2	-2.0	13.4	6.6	6.0	8.6

*revised ** provisional

Appendix 6-GDP Deflators by economic activity													
Year	Quarter	Quarterly Deflators (%)				Quarter-on-Quarter Change (%) in Deflators				Year-on-Year change (%) in Deflators			
		Agriculture	Industry	Services	Total	Agriculture	Industry	Services	Total	Agriculture	Industry	Services	Total
2013_Q1		100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-
2013_Q2		100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-
2013_Q3		100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-
2013_Q4		100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-
2014_Q1		121.4	110.4	98.9	110.3	21.4	10.4	-1.1	10.3	21.4	10.4	-1.1	10.3
2014_Q2		122.0	117.7	111.2	116.9	0.4	6.6	12.4	6.1	22.0	17.7	11.2	16.9
2014_Q3		121.3	138.3	122.3	127.3	-0.6	17.5	10.1	8.9	21.3	38.3	22.3	27.3
2014_Q4		121.3	133.0	112.4	122.2	0.0	-3.9	-8.1	-4.0	21.3	33.0	12.4	22.2
2015_Q1		139.7	120.8	129.0	129.8	15.2	-9.1	14.7	6.2	15.1	9.4	30.4	18.3
2015_Q2		141.4	137.7	133.2	137.5	1.2	14.0	3.3	5.9	16.0	17.0	19.8	17.6
2015_Q3		141.4	133.3	139.7	138.1	0.0	-3.2	4.9	0.5	16.6	-3.6	14.2	9.1
2015_Q4		139.6	134.3	142.1	138.7	-1.3	0.7	1.7	0.4	15.1	1.0	26.4	14.2
2016_Q1		175.6	137.7	166.2	159.8	25.8	2.5	16.9	15.3	25.6	14.0	28.8	22.8
2016_Q2		168.6	141.0	172.2	160.6	-4.0	2.4	3.6	0.5	19.2	2.4	29.3	17.0
2016_Q3		171.0	125.7	166.8	154.5	1.4	-10.9	-3.1	-3.8	21.0	-5.7	19.4	11.5
2016_Q4		167.5	133.9	180.8	160.7	-2.1	6.5	8.3	4.0	20.0	-0.3	27.2	15.6
2017_Q1		170.9	145.5	200.8	172.4	2.0	8.7	11.1	7.3	-2.7	5.7	20.8	8.0
2017_Q2		167.9	153.9	193.8	171.9	-1.8	5.7	-3.5	-0.3	-0.5	9.1	12.5	7.1
2017_Q3		183.7	155.2	200.4	179.8	9.4	0.8	3.4	4.6	7.4	23.5	20.1	17.0
2017_Q4		195.2	146.7	191.7	177.8	6.2	-5.5	-4.4	-1.1	16.6	9.5	6.0	10.7
2018_Q1		192.4	167.7	219.3	193.1	-1.4	14.3	14.4	8.6	12.6	15.2	9.2	12.3
2018_Q2		189.9	172.1	211.0	191.0	-1.3	2.6	-3.8	-1.1	13.1	11.8	8.9	11.3
2018_Q3		185.6	164.9	231.7	194.1	-2.3	-4.2	9.8	1.6	1.0	6.3	15.6	7.6
2018_Q4		182.2	160.9	240.0	194.4	-1.8	-2.4	3.6	0.2	-6.7	9.7	25.2	9.4
2019_Q1		211.1	168.6	245.9	208.6	15.9	4.8	2.5	7.3	9.7	0.6	12.1	7.5
2019_Q2		200.7	173.6	253.9	209.4	-4.9	2.9	3.2	0.4	5.7	0.9	20.3	9.0
2019_Q3		194.5	183.9	255.5	211.3	-3.1	5.9	0.6	0.9	4.8	11.5	10.3	8.9
2019_Q4		184.8	196.0	245.8	208.9	-5.0	6.6	-3.8	-1.2	1.4	21.8	2.4	8.5
2020_Q1*		216.6	158.8	317.8	231.1	17.2	-19.0	29.3	10.6	2.6	-5.8	29.2	8.7
2020_Q2*		216.1	184.9	286.6	229.2	-0.2	16.4	-9.8	-0.8	7.7	6.5	12.9	9.0
2020_Q3*		232.9	200.5	236.0	223.1	7.8	8.4	-17.6	-2.6	19.7	9.0	-7.6	7.1
2020_Q4*		215.3	227.8	218.3	220.5	-7.6	13.6	-7.5	-1.2	16.5	16.2	-11.2	7.2
2021_Q1*		273.1	174.8	331.3	259.7	26.8	-23.3	51.7	17.8	26.1	10.0	4.2	13.4
2021_Q2*		247.5	203.8	315.0	255.4	-9.4	16.6	-4.9	-1.7	14.5	10.2	9.9	11.5
2021_Q3**		287.1	217.1	252.4	252.2	16.0	6.5	-19.9	-1.3	23.3	8.3	6.9	12.8

*revised

** provisional

Appendix 7 - Agriculture: quarterly value added at constant 2013 prices by economic activity

Year Quarter	Quarterly Value Added (GHc Million)						
	Crops & Cocoa	Cocoa	Livestock	Forestry & Logging	Fishing	Total Value Added	ow informal
2013_Q1	5,006.4	774.7	696.0	475.8	519.9	6,698.2	6,222.4
2013_Q2	3,897.6	258.9	624.0	480.8	519.4	5,521.8	5,040.9
2013_Q3	4,419.5	519.5	625.8	508.0	380.4	5,933.7	5,425.7
2013_Q4	5,197.8	1,044.2	1,112.7	549.1	342.6	7,202.2	6,653.1
2014_Q1	5,145.7	834.4	722.1	421.6	305.1	6,594.6	6,172.9
2014_Q2	4,008.7	275.6	651.1	504.3	370.3	5,534.3	5,030.0
2014_Q3	4,528.8	542.8	645.1	534.0	357.7	6,065.7	5,531.6
2014_Q4	5,352.3	1,055.9	1,195.9	522.8	318.7	7,389.6	6,866.8
2015_Q1	5,181.6	782.4	813.6	487.3	335.5	6,818.0	6,330.7
2015_Q2	4,052.5	252.0	695.0	480.8	347.1	5,575.5	5,094.7
2015_Q3	4,635.4	490.3	665.7	471.1	389.3	6,161.5	5,690.4
2015_Q4	5,485.9	968.4	1,208.7	465.8	395.1	7,555.5	7,089.7
2016_Q1	5,243.0	681.1	842.1	457.8	349.1	6,891.9	6,434.2
2016_Q2	4,144.2	230.2	731.3	484.8	386.2	5,746.5	5,261.8
2016_Q3	4,748.0	466.1	707.6	502.9	397.4	6,355.9	5,853.0
2016_Q4	5,652.7	940.8	1,283.2	514.0	379.9	7,829.8	7,315.8
2017_Q1	5,601.8	733.7	894.0	484.9	321.9	7,302.5	6,817.6
2017_Q2	4,447.7	248.5	775.5	507.8	249.8	5,980.8	5,473.0
2017_Q3	5,113.3	506.9	748.9	514.9	530.7	6,907.8	6,392.9
2017_Q4	6,044.0	1,042.0	1,347.9	518.2	389.7	8,299.8	7,781.6
2018_Q1	5,995.1	761.9	942.6	545.2	342.9	7,825.8	7,280.6
2018_Q2	4,755.9	260.4	819.1	530.0	335.1	6,440.1	5,910.1
2018_Q3	5,356.3	531.1	791.4	503.4	344.9	6,996.0	6,492.6
2018_Q4	6,339.6	1,072.0	1,415.6	494.8	368.1	8,618.1	8,123.3
2019_Q1	6,466.4	838.0	994.1	529.0	317.6	8,307.1	7,778.1
2019_Q2	5,042.8	277.4	865.6	515.0	350.4	6,773.7	6,258.7
2019_Q3	5,614.0	551.9	836.7	505.7	357.2	7,313.6	6,807.9
2019_Q4	6,512.4	1,100.8	1,487.4	487.7	389.2	8,876.7	8,389.0
2020_Q1*	7,204.7	843.8	1,048.8	512.2	391.6	9,157.3	8,645.1
2020_Q2*	5,392.1	281.8	915.0	447.7	397.0	7,151.8	6,704.1
2020_Q3*	5,903.8	564.6	884.8	448.6	434.1	7,671.3	7,222.7
2020_Q4*	7,202.3	1,130.6	1,563.1	442.1	395.3	9,602.8	9,160.7
2021_Q1*	8,011.5	1,076.9	1,106.7	514.7	377.5	10,010.4	9,495.7
2021_Q2*	6,085.2	359.7	967.4	501.2	447.4	8,001.3	7,500.1
2021_Q3**	6,482.1	720.6	936.0	460.9	496.3	8,375.3	7,914.4

*revised ** provisional

Appendix 8 - Agriculture: quarterly value added at constant 2013 prices by economic activity (quarter-on-quarter change)								
Year	Quarter	Quarter-on-Quarter Change (%)						
		Crops & Cocoa	<i>o.w. Cocoa</i>	Livestock	Forestry & Logging	Fishing	Total Value Added	ow informal
2013_Q2		-22.1	-66.6	-10.4	1.1	-0.1	-17.6	-19.0
2013_Q3		13.4	100.7	0.3	5.7	-26.8	7.5	7.6
2013_Q4		17.6	101.0	77.8	8.1	-9.9	21.4	22.6
2014_Q1		-1.0	-20.1	-35.1	-23.2	-11.0	-8.4	-7.2
2014_Q2		-22.1	-67.0	-9.8	19.6	21.4	-16.1	-18.5
2014_Q3		13.0	97.0	-0.9	5.9	-3.4	9.6	10.0
2014_Q4		18.2	94.5	85.4	-2.1	-10.9	21.8	24.1
2015_Q1		-3.2	-25.9	-32.0	-6.8	5.3	-7.7	-7.8
2015_Q2		-21.8	-67.8	-14.6	-1.3	3.5	-18.2	-19.5
2015_Q3		14.4	94.5	-4.2	-2.0	12.1	10.5	11.7
2015_Q4		18.3	97.5	81.6	-1.1	1.5	22.6	24.6
2016_Q1		-4.4	-29.7	-30.3	-1.7	-11.7	-8.8	-9.2
2016_Q2		-21.0	-66.2	-13.2	5.9	10.6	-16.6	-18.2
2016_Q3		14.6	102.5	-3.2	3.7	2.9	10.6	11.2
2016_Q4		19.1	101.8	81.4	2.2	-4.4	23.2	25.0
2017_Q1		-0.9	-22.0	-30.3	-5.7	-15.3	-6.7	-6.8
2017_Q2		-20.6	-66.1	-13.3	4.7	-22.4	-18.1	-19.7
2017_Q3		15.0	104.0	-3.4	1.4	112.4	15.5	16.8
2017_Q4		18.2	105.6	80.0	0.6	-26.6	20.2	21.7
2018_Q1		-0.8	-26.9	-30.1	5.2	-12.0	-5.7	-6.4
2018_Q2		-20.7	-65.8	-13.1	-2.8	-2.2	-17.7	-18.8
2018_Q3		12.6	103.9	-3.4	-5.0	2.9	8.6	9.9
2018_Q4		18.4	101.9	78.9	-1.7	6.7	23.2	25.1
2019_Q1		2.0	-21.8	-29.8	6.9	-13.7	-3.6	-4.2
2019_Q2		-22.0	-66.9	-12.9	-2.6	10.3	-18.5	-19.5
2019_Q3		11.3	98.9	-3.3	-1.8	2.0	8.0	8.8
2019_Q4		16.0	99.5	77.8	-3.6	9.0	21.4	23.2
2020_Q1*		10.6	-23.4	-29.5	5.0	0.6	3.2	3.1
2020_Q2*		-25.2	-66.6	-12.8	-12.6	1.4	-21.9	-22.5
2020_Q3*		9.5	100.3	-3.3	0.2	9.3	7.3	7.7
2020_Q4*		22.0	100.2	76.7	-1.4	-8.9	25.2	26.8
2021_Q1*		11.2	-4.7	-29.2	16.4	-4.5	4.2	3.7
2021_Q2**		-24.0	-66.6	-12.6	-2.6	18.5	-20.1	-21.0
2021_Q2**		6.5	100.3	-3.2	-8.0	10.9	4.7	5.5

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** provisional

Appendix 9 - Agriculture: quarterly value added at constant 2013 prices by economic activity (year-on-year change)

Year	Quarter	Year-on-Year Change (%)						Total Value Added	Low informal
		Crops & Cocoa	Cocoa	Livestock	Forestry & Logging	Fishing			
2014_Q1		2.8	7.7	3.8	-11.4	-41.3	-1.5	-0.8	
2014_Q2		2.9	6.5	4.4	4.9	-28.7	0.2	-0.2	
2014_Q3		2.5	4.5	3.1	5.1	-6.0	2.2	2.0	
2014_Q4		3.0	1.1	7.5	-4.8	-7.0	2.6	3.2	
2015_Q1		0.7	-6.2	12.7	15.6	10.0	3.4	2.6	
2015_Q2		1.1	-8.5	6.7	-4.7	-6.2	0.7	1.3	
2015_Q3		2.4	-9.7	3.2	-11.8	8.8	1.6	2.9	
2015_Q4		2.5	-8.3	1.1	-10.9	24.0	2.2	3.2	
2016_Q1		1.2	-13.0	3.5	-6.1	4.0	1.1	1.6	
2016_Q2		2.3	-8.7	5.2	0.8	11.3	3.1	3.3	
2016_Q3		2.4	-4.9	6.3	6.8	2.1	3.2	2.9	
2016_Q4		3.0	-2.8	6.2	10.4	-3.9	3.6	3.2	
2017_Q1		6.8	7.7	6.2	5.9	-7.8	6.0	6.0	
2017_Q2		7.3	7.9	6.0	4.8	-35.3	4.1	4.0	
2017_Q3		7.7	8.8	5.8	2.4	33.5	8.7	9.2	
2017_Q4		6.9	10.8	5.0	0.8	2.6	6.0	6.4	
2018_Q1		7.0	3.8	5.4	12.4	6.5	7.2	6.8	
2018_Q2		6.9	4.8	5.6	4.4	34.1	7.7	8.0	
2018_Q3		4.8	4.8	5.7	-2.2	-35.0	1.3	1.6	
2018_Q4		4.9	2.9	5.0	-4.5	-5.5	3.8	4.4	
2019_Q1		7.9	10.0	5.5	-3.0	-7.4	6.2	6.8	
2019_Q2		6.0	6.5	5.7	-2.8	4.5	5.2	5.9	
2019_Q3		4.8	3.9	5.7	0.4	3.6	4.5	4.9	
2019_Q4		2.7	2.7	5.1	-1.4	5.7	3.0	3.3	
2020_Q1*		11.4	0.7	5.5	-3.2	23.3	10.2	11.1	
2020_Q2*		6.9	1.6	5.7	-13.1	13.3	5.6	7.1	
2020_Q3*		5.2	2.3	5.8	-11.3	21.5	4.9	6.1	
2020_Q4*		10.6	2.7	5.1	-9.3	1.6	8.2	9.2	
2021_Q1*		11.2	27.6	5.5	0.5	-3.6	9.3	9.8	
2021_Q2*		12.9	27.6	5.7	11.9	12.7	11.9	11.9	
2021_Q3**		9.8	27.6	5.8	2.7	14.3	9.2	9.6	

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Appendix 10 - Industry: quarterly value added at constant 2013 prices by economic activity								
Year Quarter	Quarterly Value Added (GHc Million)							
	Mining and Quarrying	Oil & Gas	Manufacturing	Electricity	Water Supply, Sewerage, Waste Management & Remediation Activities	Construction	Total Value Added	Low Informal
2013_Q1	4,256.8	1,768.6	3,746.4	353.7	146.9	2,552.9	11,056.7	875.6
2013_Q2	3,715.8	1,699.1	3,832.2	346.9	153.1	2,705.3	10,753.2	851.5
2013_Q3	3,392.2	1,524.7	3,758.8	318.7	161.4	2,704.4	10,335.5	818.5
2013_Q4	4,193.0	1,656.4	3,087.7	321.5	241.3	2,445.3	10,288.8	814.8
2014_Q1	3,919.9	1,808.1	2,658.0	399.1	178.6	2,703.7	9,859.3	780.8
2014_Q2	4,037.9	1,692.0	3,811.5	332.8	187.5	2,433.3	10,803.0	855.5
2014_Q3	4,202.0	1,816.7	3,662.2	304.9	189.3	2,819.8	11,178.2	885.2
2014_Q4	4,234.1	1,949.5	3,923.0	321.3	189.0	2,406.3	11,073.6	876.9
2015_Q1	3,871.5	1,842.8	3,683.3	350.1	216.4	2,731.4	10,852.6	859.4
2015_Q2	3,917.2	1,760.3	3,719.8	408.3	215.2	2,868.5	11,129.0	881.3
2015_Q3	3,623.2	1,732.3	3,349.5	400.4	207.2	2,875.8	10,456.1	828.0
2015_Q4	3,628.4	2,077.0	3,816.5	439.4	209.3	2,876.8	10,970.4	868.7
2016_Q1	3,460.9	1,469.4	3,583.4	422.5	202.9	3,201.2	10,870.9	860.9
2016_Q2	3,058.7	734.8	4,058.2	371.9	183.6	2,879.2	10,551.5	835.6
2016_Q3	4,285.0	1,810.4	3,846.7	322.8	181.1	3,401.1	12,036.7	953.2
2016_Q4	4,199.7	2,240.0	4,234.6	388.9	180.3	2,821.8	11,825.4	936.5
2017_Q1	4,272.9	2,280.3	4,390.4	433.0	190.3	3,357.2	12,643.8	1,001.3
2017_Q2	4,302.4	2,227.5	4,378.3	459.1	196.9	3,146.4	12,483.0	988.5
2017_Q3	5,052.6	3,172.1	4,401.9	445.4	201.0	3,563.6	13,664.5	1,082.1
2017_Q4	5,990.7	3,598.6	4,048.5	461.1	205.1	2,858.7	13,564.1	1,074.1
2018_Q1	5,466.1	2,829.9	5,101.1	466.7	187.8	3,253.7	14,475.4	1,146.3
2018_Q2	5,397.0	2,534.4	4,246.1	505.2	187.9	3,270.6	13,606.8	1,077.5
2018_Q3	6,630.9	3,305.5	4,471.8	471.4	193.6	3,635.8	15,403.5	1,219.8
2018_Q4	6,697.8	3,505.0	4,113.8	454.7	195.5	2,906.8	14,368.6	1,137.9
2019_Q1	6,194.6	3,164.9	5,738.1	478.2	179.6	3,051.4	15,641.9	1,238.7
2019_Q2	6,800.6	3,289.9	4,835.2	444.3	175.2	3,248.5	15,503.7	1,227.7
2019_Q3	7,327.8	3,818.1	4,695.4	528.9	189.9	3,318.0	16,060.1	1,271.8
2019_Q4	6,917.3	3,659.5	3,797.5	560.2	186.5	2,870.0	14,331.6	1,134.9
2020_Q1*	5,649.7	3,051.5	6,384.6	529.0	183.7	3,114.9	15,861.9	1,256.1
2020_Q2*	6,012.0	3,129.4	4,260.3	544.2	189.7	3,285.5	14,291.8	1,131.8
2020_Q3*	6,419.8	3,616.6	4,350.0	621.4	183.4	3,336.2	14,910.7	1,180.8
2020_Q4*	6,162.4	3,490.5	4,336.6	476.2	190.1	3,114.4	14,279.6	1,130.8
2021_Q1*	5,018.5	2,558.1	6,772.8	529.3	195.8	3,558.7	16,075.1	1,273.0
2021_Q2*	4,873.7	2,792.3	4,612.3	595.7	228.6	3,365.6	13,675.9	1,083.0
2021_Q3**	5,699.2	3,119.1	4,675.0	653.0	195.6	3,391.5	14,614.2	1,157.3

*revised

** provisional

Appendix 11 - Industry: quarterly value added at constant 2013 prices by economic activity (quarter-on-quarter change)								
Year Quarter	Quarter-on-Quarter Change (%)							
	Mining and Quarrying	Oil & Gas	Manufacturing	Electricity	Water Supply, Sewerage, Waste Management & Remediation Activities	Construction	Total Value Added	ow Informal
2013_Q2	-12.7	-3.9	2.3	-1.9	4.2	6.0	-2.7	-2.7
2013_Q3	-8.7	-10.3	-1.9	-8.1	5.4	0.0	-3.9	-3.9
2013_Q4	23.6	8.6	-17.9	0.9	49.6	-9.6	-0.5	-0.5
2014_Q1	-6.5	9.2	-13.9	24.1	-26.0	10.6	-4.2	-4.2
2014_Q2	3.0	-6.4	43.4	-16.6	5.0	-10.0	9.6	9.6
2014_Q3	4.1	7.4	-3.9	-8.4	1.0	15.9	3.5	3.5
2014_Q4	0.8	7.3	7.1	5.4	-0.2	-14.7	-0.9	-0.9
2015_Q1	-8.6	-5.5	-6.1	8.9	14.5	13.5	-2.0	-2.0
2015_Q2	1.2	-4.5	1.0	16.6	-0.5	5.0	2.5	2.5
2015_Q3	-7.5	-1.6	-10.0	-2.0	-3.7	0.3	-6.0	-6.0
2015_Q4	0.1	19.9	13.9	9.8	1.0	0.0	4.9	4.9
2016_Q1	-4.6	-29.3	-6.1	-3.9	-3.0	11.3	-0.9	-0.9
2016_Q2	-11.6	-50.0	13.2	-12.0	-9.5	-10.1	-2.9	-2.9
2016_Q3	40.1	146.4	-5.2	-13.2	-1.4	18.1	14.1	14.1
2016_Q4	-2.0	23.7	10.1	20.5	-0.4	-17.0	-1.8	-1.8
2017_Q1	1.7	1.8	3.7	11.3	5.5	19.0	6.9	6.9
2017_Q2	0.7	-2.3	-0.3	6.0	3.4	-6.3	-1.3	-1.3
2017_Q3	17.4	42.4	0.5	-3.0	2.1	13.3	9.5	9.5
2017_Q4	18.6	13.4	-8.0	3.5	2.1	-19.8	-0.7	-0.7
2018_Q1	-8.8	-21.4	26.0	1.2	-8.4	13.8	6.7	6.7
2018_Q2	-1.3	-10.4	-16.8	8.2	0.0	0.5	-6.0	-6.0
2018_Q3	22.9	30.4	5.3	-6.7	3.1	11.2	13.2	13.2
2018_Q4	1.0	6.0	-8.0	-3.5	1.0	-20.0	-6.7	-6.7
2019_Q1	-7.5	-9.7	39.5	5.1	-8.1	5.0	8.9	8.9
2019_Q2	9.8	4.0	-15.7	-7.1	-2.5	6.5	-0.9	-0.9
2019_Q3	7.8	16.1	-2.9	19.1	8.4	2.1	3.6	3.6
2019_Q4	-5.6	-4.2	-19.1	5.9	-1.8	-13.5	-10.8	-10.8
2020_Q1*	-18.3	-16.6	68.1	-5.6	-1.5	8.5	10.7	10.7
2020_Q2*	6.4	2.6	-33.3	2.9	3.3	5.5	-9.9	-9.9
2020_Q3*	6.8	15.6	2.1	14.2	-3.3	1.5	4.3	4.3
2020_Q4*	-4.0	-3.5	-0.3	-23.4	3.6	-6.6	-4.2	-4.2
2021_Q1*	-18.6	-26.7	56.2	11.2	3.0	14.3	12.6	12.6
2021_Q2*	-2.9	9.2	-31.9	12.5	16.7	-5.4	-14.9	-14.9
2021_Q3**	16.9	11.7	1.4	9.6	-14.4	0.8	6.9	6.9

*revised

** provisional

Appendix 12 - Industry: quarterly value added at constant 2013 prices by economic activity (year-on-year change)

Year Quarter	Year-on-Year Change (%)							
	Mining and Quarrying	Oil & Gas	Manufacturing	Electricity	Water Supply, Sewerage, Waste Management & Remediation Activities	Construction	Total Value Added	Low Informal
2014_Q1	-7.9	2.2	-29.1	12.8	21.6	5.9	-10.8	-10.8
2014_Q2	8.7	-0.4	-0.5	-4.1	22.5	-10.1	0.5	0.5
2014_Q3	23.9	19.2	-2.6	-4.3	17.3	4.3	8.2	8.2
2014_Q4	1.0	17.7	27.1	0.0	-21.7	-1.6	7.6	7.6
2015_Q1	-1.2	1.9	38.6	-12.3	21.2	1.0	10.1	10.1
2015_Q2	-3.0	4.0	-2.4	22.7	14.8	17.9	3.0	3.0
2015_Q3	-13.8	-4.6	-8.5	31.3	9.5	2.0	-6.5	-6.5
2015_Q4	-14.3	6.5	-2.7	36.7	10.7	19.6	-0.9	-0.9
2016_Q1	-10.6	-20.3	-2.7	20.7	-6.2	17.2	0.2	0.2
2016_Q2	-21.9	-58.3	9.1	-8.9	-14.7	0.4	-5.2	-5.2
2016_Q3	18.3	4.5	14.8	-19.4	-12.6	18.3	15.1	15.1
2016_Q4	15.7	7.8	11.0	-11.5	-13.8	-1.9	7.8	7.8
2017_Q1	23.5	55.2	22.5	2.5	-6.2	4.9	16.3	16.3
2017_Q2	40.7	203.1	7.9	23.4	7.2	9.3	18.3	18.3
2017_Q3	17.9	75.2	14.4	38.0	11.0	4.8	13.5	13.5
2017_Q4	42.6	60.7	-4.4	18.6	13.8	1.3	14.7	14.7
2018_Q1	27.9	24.1	16.2	7.8	-1.3	-3.1	14.5	14.5
2018_Q2	25.4	13.8	-3.0	10.0	-4.6	3.9	9.0	9.0
2018_Q3	31.2	4.2	1.6	5.9	-3.7	2.0	12.7	12.7
2018_Q4	11.8	-2.6	1.6	-1.4	-4.7	1.7	5.9	5.9
2019_Q1	13.3	11.8	12.5	2.4	-4.4	-6.2	8.1	8.1
2019_Q2	26.0	29.8	13.9	-12.1	-6.8	-0.7	13.9	13.9
2019_Q3	10.5	15.5	5.0	12.2	-1.9	-8.7	4.3	4.3
2019_Q4	3.3	4.4	-7.7	23.2	-4.6	-1.3	-0.3	-0.3
2020_Q1*	-8.8	-3.6	11.3	10.6	2.3	2.1	1.4	1.4
2020_Q2*	-11.6	-4.9	-11.9	22.5	8.3	1.1	-7.8	-7.8
2020_Q3*	-12.4	-5.3	-7.4	17.5	-3.4	0.5	-7.2	-7.2
2020_Q4*	-10.9	-4.6	14.2	-15.0	1.9	8.5	-0.4	-0.4
2021_Q1*	-11.2	-16.2	6.1	0.1	6.6	14.2	1.3	1.3
2021_Q2*	-18.9	-10.8	8.3	9.5	20.5	2.4	-4.3	-4.3
2021_Q3**	-11.2	-13.8	7.5	5.1	6.7	1.7	-2.0	-2.0

*revised

** provisional

Appendix 13 - Services: quarterly value added at constant 2013 prices by economic activity

Year Quarter	Quarterly Value Added (GHc Million)												
	Trade; Repair of Vehicles, Household Goods	Hotels And Restaurants	Transport & Storage	Information & Communication	Financial & Insurance Activities	Real Estate	Professional, Administrative & Support Service activities	Public Administration, Defense & Social Security	Education	Health & Social Work	Other Personal Service Activities	Total Value Added	Low Informal
2013_Q1	2,898.8	1,024.8	1,445.8	417.5	1,419.7	232.6	450.7	956.2	1,059.8	552.6	274.5	10,733.0	2,057.8
2013_Q2	4,254.7	1,110.7	1,420.8	511.0	1,464.0	304.5	398.6	1,103.7	1,135.1	595.0	334.0	12,632.2	2,396.6
2013_Q3	3,334.4	1,205.6	1,969.4	495.3	1,479.5	306.3	410.1	1,071.1	1,300.2	678.2	416.0	12,666.1	2,402.7
2013_Q4	3,389.0	1,334.1	2,218.6	525.5	1,519.4	329.8	411.8	1,454.1	1,829.9	874.4	605.7	14,492.4	2,728.5
2014_Q1	3,733.5	1,230.6	1,047.0	580.5	1,609.0	218.0	399.3	912.8	1,090.7	560.6	398.5	11,780.5	2,252.4
2014_Q2	3,895.5	1,399.0	1,731.9	600.7	1,783.5	206.7	414.8	1,120.1	1,308.7	588.9	382.9	13,432.7	2,547.2
2014_Q3	3,538.4	1,074.0	2,325.7	666.9	1,847.9	339.6	489.1	1,032.8	1,343.9	753.1	414.2	13,825.6	2,617.3
2014_Q4	2,993.1	1,042.7	2,358.7	679.4	1,900.2	405.9	481.8	1,358.8	1,565.9	870.9	458.0	14,115.4	2,669.0
2015_Q1	3,342.1	1,362.5	2,353.8	655.9	2,003.0	287.1	445.2	803.6	1,277.4	627.7	540.4	13,698.7	2,624.0
2015_Q2	3,634.1	1,284.6	1,975.0	695.2	1,973.2	315.5	485.5	1,005.8	1,479.9	668.4	468.6	13,985.7	2,675.2
2015_Q3	3,355.9	1,212.9	1,717.3	729.7	2,037.7	203.2	461.9	1,233.2	1,062.5	580.7	369.7	12,965.0	2,493.1
2015_Q4	3,900.2	1,079.0	1,613.0	748.7	2,048.4	400.8	417.4	1,268.3	1,465.4	773.3	318.8	14,033.4	2,683.7
2016_Q1	3,461.7	1,218.7	1,584.9	737.9	2,157.4	210.8	460.1	1,066.5	1,446.0	630.1	441.4	13,415.6	2,563.6
2016_Q2	3,706.7	1,291.3	1,611.8	718.4	2,092.4	168.8	447.5	1,112.3	1,398.8	682.1	449.6	13,679.6	2,610.7
2016_Q3	3,439.8	1,260.3	2,634.6	770.3	2,221.5	182.0	397.4	1,153.9	1,268.6	679.4	399.3	14,407.1	2,740.4
2016_Q4	3,560.2	1,282.0	1,915.2	760.3	2,235.7	683.1	428.7	1,360.2	1,293.0	764.8	405.7	14,688.8	2,790.7
2017_Q1	3,824.2	1,371.2	1,976.9	737.1	1,903.1	318.3	417.6	923.4	1,144.1	555.1	483.3	13,654.3	2,581.3
2017_Q2	4,170.1	1,370.1	2,168.6	770.6	1,956.8	276.1	512.9	1,297.4	1,564.9	789.9	434.6	15,311.9	2,877.0
2017_Q3	3,781.5	1,278.3	2,208.0	801.3	1,616.1	302.8	475.1	1,385.2	1,563.1	867.1	440.7	14,719.2	2,771.3
2017_Q4	3,555.0	1,418.9	2,086.2	802.6	1,689.4	395.1	378.1	1,282.5	1,474.4	932.6	427.5	14,442.5	2,721.9
2018_Q1	4,009.7	1,336.2	2,341.7	836.3	1,573.1	478.9	404.3	1,213.7	1,438.8	862.4	494.0	14,989.2	2,573.6
2018_Q2	3,934.9	1,364.6	2,120.4	866.0	1,627.9	201.8	426.6	1,274.1	1,569.6	948.2	449.9	14,783.9	2,537.0
2018_Q3	3,928.5	1,443.4	2,089.5	903.2	1,461.1	359.5	515.8	1,316.5	1,606.2	1,032.6	454.3	15,110.5	2,595.3
2018_Q4	3,880.9	1,468.1	1,981.4	914.5	1,915.4	168.2	441.7	1,294.4	1,358.3	1,010.9	444.0	14,877.8	2,553.8
2019_Q1	4,296.4	1,270.2	2,301.5	1,104.6	1,564.8	224.4	474.2	1,309.9	1,482.8	1,093.2	507.0	15,629.0	2,681.9
2019_Q2	4,105.2	1,295.7	2,199.9	1,137.8	1,674.4	270.6	481.0	1,340.4	1,574.3	1,170.4	454.1	15,703.7	2,695.3
2019_Q3	3,997.7	1,514.0	2,249.5	1,163.9	1,508.3	632.6	529.6	1,353.5	1,776.7	1,059.2	461.3	16,246.2	2,792.0
2019_Q4	3,930.6	1,869.6	2,152.5	1,751.6	1,933.1	320.6	394.5	1,283.2	1,700.8	933.3	467.9	16,737.8	2,879.8
2020_Q1*	5,108.2	1,601.9	2,371.8	1,226.8	1,745.6	370.2	463.6	1,405.1	1,576.9	1,166.4	512.5	17,549.0	2,307.9
2020_Q2*	3,354.3	349.8	2,218.9	1,402.1	1,813.4	208.2	444.2	1,359.3	1,657.7	1,226.1	459.6	14,493.5	1,762.8
2020_Q3*	3,543.7	714.7	2,369.0	1,543.7	1,529.7	590.9	487.6	1,414.7	1,909.8	1,131.8	466.7	15,702.4	1,978.4
2020_Q4*	4,148.4	1,213.9	2,269.0	2,145.0	1,957.5	460.0	373.9	1,494.0	1,900.6	1,080.7	472.4	17,515.3	2,301.9
2021_Q1*	5,245.0	1,430.9	2,443.5	1,497.7	1,829.5	409.5	450.3	1,486.3	1,679.6	1,242.7	538.1	18,253.1	1,978.7
2021_Q2*	3,712.5	415.3	2,387.0	1,682.3	1,905.9	236.9	457.8	1,448.4	1,853.4	1,502.4	482.0	16,084.0	1,743.6
2021_Q3**	3,888.9	832.1	2,556.6	1,806.7	1,612.0	658.9	568.9	1,645.8	2,372.9	1,363.3	495.6	17,801.8	1,929.8

*revised ** provisional

0.1084

Appendix 14- Services: quarterly value added at constant 2013 prices by economic activity (quarter-on-quarter change)

Year Quarter	Quarter-on-Quarter Growth in Value Added (%)												
	Trade; Repair of Vehicles, Household Goods	Hotels And Restaurants	Transport & Storage	Information & Communication	Financial & Insurance Activities	Real Estate	Professional, Administrative & Support Service activities	Public Administration, Defense & Social Security	Education	Health & Social Work	Other Personal Service Activities	Total Value Added	Low Informal
2013_Q2	46.8	8.4	-1.7	22.4	3.1	30.9	-11.5	15.4	7.1	7.7	21.7	17.7	16.5
2013_Q3	-21.6	8.5	38.6	-3.1	1.1	0.6	2.9	-2.9	14.5	14.0	24.5	0.3	0.3
2013_Q4	1.6	10.7	12.7	6.1	2.7	7.7	0.4	35.8	40.7	28.9	45.6	14.4	13.6
2014_Q1	10.2	-7.8	-52.8	10.5	5.9	-33.9	-3.0	-37.2	-40.4	-35.9	-34.2	-18.7	-17.4
2014_Q2	4.3	13.7	65.4	3.5	10.8	-5.2	3.9	22.7	20.0	5.1	-3.9	14.0	13.1
2014_Q3	-9.2	-23.2	34.3	11.0	3.6	64.3	17.9	-7.8	2.7	27.9	8.2	2.9	2.8
2014_Q4	-15.4	-2.9	1.4	1.9	2.8	19.5	-1.5	31.6	16.5	15.6	10.6	2.1	2.0
2015_Q1	11.7	30.7	-0.2	-3.4	5.4	-29.3	-7.6	-40.9	-18.4	-27.9	18.0	-3.0	-1.7
2015_Q2	8.7	-5.7	-16.1	6.0	-1.5	9.9	9.1	25.2	15.9	6.5	-13.3	2.1	2.0
2015_Q3	-7.7	-5.6	-13.0	5.0	3.3	-35.6	-4.9	22.6	-28.2	-13.1	-21.1	-7.3	-6.8
2015_Q4	16.2	-11.0	-6.1	2.6	0.5	97.2	-9.6	2.8	37.9	33.2	-13.8	8.2	7.6
2016_Q1	-11.2	13.0	-1.7	-1.4	5.3	-47.4	10.2	-15.9	-1.3	-18.5	38.5	-4.4	-4.5
2016_Q2	7.1	6.0	1.7	-2.6	-3.0	-19.9	-2.7	4.3	-3.3	8.2	1.9	2.0	1.8
2016_Q3	-7.2	-2.4	63.5	7.2	6.2	7.8	-11.2	3.7	-9.3	-0.4	-11.2	5.3	5.0
2016_Q4	3.5	1.7	-27.3	-1.3	0.6	275.3	7.9	17.9	1.9	12.6	1.6	2.0	1.8
2017_Q1	7.4	7.0	3.2	-3.0	-14.9	-53.4	-2.6	-32.1	-11.5	-27.4	19.1	-7.0	-7.5
2017_Q2	9.0	-0.1	9.7	4.5	2.8	-13.3	22.8	40.5	36.8	42.3	-10.1	12.1	11.5
2017_Q3	-9.3	-6.7	1.8	4.0	-17.4	9.7	-7.4	6.8	-0.1	9.8	1.4	-3.9	-3.7
2017_Q4	-6.0	11.0	-5.5	0.2	4.5	30.5	-20.4	-7.4	-5.7	7.6	-3.0	-1.9	-1.8
2018_Q1	12.8	-5.8	12.2	4.2	-6.9	21.2	6.9	-5.4	-2.4	-7.5	15.6	3.8	-5.4
2018_Q2	-1.9	2.1	-9.5	3.6	3.5	-57.9	5.5	5.0	9.1	10.0	-8.9	-1.4	-1.4
2018_Q3	-0.2	5.8	-1.5	4.3	-10.2	78.1	20.9	3.3	2.3	8.9	1.0	2.2	2.3
2018_Q4	-1.2	1.7	-5.2	1.3	31.1	-53.2	-14.4	-1.7	-15.4	-2.1	-2.3	-1.5	-1.6
2019_Q1	10.7	-13.5	16.2	20.8	-18.3	33.4	7.3	1.2	9.2	8.1	14.2	5.0	5.0
2019_Q2	-4.5	2.0	-4.4	3.0	7.0	20.6	1.4	2.3	6.2	7.1	-10.4	0.5	0.5
2019_Q3	-2.6	16.8	2.3	2.3	-9.9	133.8	10.1	1.0	12.9	-9.5	1.6	3.5	3.6
2019_Q4	-1.7	23.5	-4.3	50.5	28.2	-49.3	-25.5	-5.2	-4.3	-11.9	1.4	3.0	3.1
2020_Q1*	30.0	-14.3	10.2	-30.0	-9.7	15.5	17.5	9.5	-7.3	25.0	9.5	4.8	-19.9
2020_Q2*	-34.3	-78.2	-6.4	14.3	3.9	-43.8	-4.2	-3.3	5.1	5.1	-10.3	-17.4	-23.6
2020_Q3*	5.6	104.3	6.8	10.1	-15.6	183.9	9.8	4.1	15.2	-7.7	1.5	8.3	12.2
2020_Q4*	17.1	69.9	-4.2	39.0	28.0	-22.2	-23.3	5.6	-0.5	-4.5	1.2	11.5	16.3
2021_Q1*	26.4	17.9	7.7	-30.2	-6.5	-11.0	20.5	-0.5	-11.6	15.0	13.9	4.2	-14.0
2021_Q2*	-29.2	-71.0	-2.3	12.3	4.2	-42.1	1.7	-2.6	10.3	20.9	-10.4	-11.9	-11.9
2021_Q3**	4.8	100.4	7.1	7.4	-15.4	178.1	24.3	13.6	28.0	-9.3	2.8	10.7	10.7

*revised ** provisional

Appendix 15 - Services: quarterly value added at constant 2013 prices by economic activity (year-on-year change)

Year Quarter	Year-on-Year Growth in Value Added (%)												
	Trade; Repair Of Vehicles, Household Goods	Hotels and Restaurants	Transport & Storage	Information & Communication	Financial & Insurance Activities	Real Estate	Professional, Administrative & Support Service activities	Public Administration, Defense & Social Security	Education	Health & Social Work	Other Personal Service Activities	Total Value Added	Low Informal
2014_Q1	28.8	20.1	-27.6	39.0	13.3	-6.3	-11.4	-4.5	2.9	1.4	45.2	9.8	9.5
2014_Q2	-8.4	26.0	21.9	17.6	21.8	-32.1	4.0	1.5	15.3	-1.0	14.6	6.3	6.3
2014_Q3	6.1	-10.9	18.1	34.7	24.9	10.9	19.3	-3.6	3.4	11.0	-0.4	9.2	8.9
2014_Q4	-11.7	-21.8	6.3	29.3	25.1	23.1	17.0	-6.6	-14.4	-0.4	-24.4	-2.6	-2.2
2015_Q1	-10.5	10.7	124.8	13.0	24.5	31.7	11.5	-12.0	17.1	12.0	35.6	16.3	16.5
2015_Q2	-6.7	-8.2	14.0	15.7	10.6	52.6	17.1	-10.2	13.1	13.5	22.4	4.1	5.0
2015_Q3	-5.2	12.9	-26.2	9.4	10.3	-40.2	-5.6	19.4	-20.9	-22.9	-10.7	-6.2	-4.7
2015_Q4	30.3	3.5	-31.6	10.2	7.8	-1.3	-13.4	-6.7	-6.4	-11.2	-30.4	-0.6	0.6
2016_Q1	3.6	-10.6	-32.7	12.5	7.7	-26.6	3.3	32.7	13.2	0.4	-18.3	-2.1	-2.3
2016_Q2	2.0	0.5	-18.4	3.3	6.0	-46.5	-7.8	10.6	-5.5	2.0	-4.0	-2.2	-2.4
2016_Q3	2.5	3.9	53.4	5.6	9.0	-10.4	-14.0	-6.4	19.4	17.0	8.0	11.1	9.9
2016_Q4	-8.7	18.8	18.7	1.5	9.1	70.4	2.7	7.2	-11.8	-1.1	27.3	4.7	4.0
2017_Q1	10.5	12.5	24.7	-0.1	-11.8	51.0	-9.2	-13.4	-20.9	-11.9	9.5	1.8	0.7
2017_Q2	12.5	6.1	34.5	7.3	-6.5	63.5	14.6	16.6	11.9	15.8	-3.3	11.9	10.2
2017_Q3	9.9	1.4	-16.2	4.0	-27.3	66.4	19.5	20.0	23.2	27.6	10.4	2.2	1.1
2017_Q4	-0.1	10.7	8.9	5.6	-24.4	-42.2	-11.8	-5.7	14.0	21.9	5.4	-1.7	-2.5
2018_Q1	4.9	-2.6	18.5	13.5	-17.3	50.5	-3.2	31.4	25.8	55.3	2.2	9.8	-0.3
2018_Q2	-5.6	-0.4	-2.2	12.4	-16.8	-26.9	-16.8	-1.8	0.3	20.0	3.5	-3.4	-11.8
2018_Q3	3.9	12.9	-5.4	12.7	-9.6	18.7	8.6	-5.0	2.8	19.1	3.1	2.7	-6.3
2018_Q4	9.2	3.5	-5.0	13.9	13.4	-57.4	16.8	0.9	-7.9	8.4	3.9	3.0	-6.2
2019_Q1	7.2	-4.9	-1.7	32.1	-0.5	-53.1	17.3	7.9	3.1	26.8	2.6	4.3	4.2
2019_Q2	4.3	-5.0	3.7	31.4	2.9	34.1	12.8	5.2	0.3	23.4	0.9	6.2	6.2
2019_Q3	1.8	4.9	7.7	28.9	3.2	76.0	2.7	2.8	10.6	2.6	1.5	7.5	7.6
2019_Q4	1.3	27.3	8.6	91.5	0.9	90.6	-10.7	-0.9	25.2	-7.7	5.4	12.5	12.8
2020_Q1*	18.9	26.1	3.1	11.1	11.6	65.0	-2.2	7.3	6.3	6.7	1.1	12.3	-13.9
2020_Q2*	-18.3	-73.0	0.9	23.2	8.3	-23.1	-7.7	1.4	5.3	4.8	1.2	-7.7	-34.6
2020_Q3*	-11.4	-52.8	5.3	32.6	1.4	-6.6	-7.9	4.5	7.5	6.9	1.2	-3.3	-29.1
2020_Q4*	5.5	-35.1	5.4	22.5	1.3	43.5	-5.2	16.4	11.7	15.8	1.0	4.6	-20.1
2021_Q1*	2.7	-10.7	3.0	22.1	4.8	10.6	-2.9	5.8	6.5	6.5	5.0	4.0	-14.3
2021_Q2*	10.7	18.7	7.6	20.0	5.1	13.8	3.1	6.6	11.8	22.5	4.9	11.0	-1.1
2021_Q3**	9.7	16.4	7.9	17.0	5.4	11.5	16.7	16.3	24.2	20.5	6.2	13.4	-2.5

*revised

** provisional

Appendix 16- Seasonally adjusted quarterly value added and Gross Domestic Product at constant 2013 prices by economic activity													
Year	Quarter	Quarterly Value Added (GHc Million)						Quarter-on-Quarter Change (%)					
		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		5,878.2	10,921.3	12,580.6	29,380.1	1,443.3	30,823.4	8,470.1	-	-	-	-	-
2013_Q2		5,752.2	10,916.7	12,496.1	29,165.1	1,550.4	30,715.5	8,331.9	-2.1	0.0	-0.7	-0.4	-1.6
2013_Q3		5,843.7	10,797.5	12,291.4	28,932.6	1,594.9	30,527.5	8,378.8	1.6	-1.1	-1.6	-0.6	0.6
2013_Q4		6,322.4	10,776.1	12,102.1	29,200.5	1,712.0	30,912.5	8,822.9	8.2	-0.2	-1.5	1.3	5.3
2014_Q1		6,443.3	10,504.7	12,190.3	29,138.2	1,703.4	30,841.6	8,958.2	1.9	-2.5	0.7	-0.2	1.5
2014_Q2		6,400.8	10,563.2	12,487.7	29,451.7	1,726.7	31,178.4	8,974.6	-0.7	0.6	2.4	1.1	0.2
2014_Q3		6,403.7	10,947.4	12,647.4	29,998.6	1,771.9	31,770.5	9,029.7	0.0	3.6	1.3	1.9	0.6
2014_Q4		6,382.0	10,899.9	12,754.2	30,036.0	1,773.3	31,809.3	9,016.5	-0.3	-0.4	0.8	0.1	-0.1
2015_Q1		6,501.1	11,109.9	12,887.3	30,498.4	1,802.6	32,300.9	9,164.5	1.9	1.9	1.0	1.5	1.6
2015_Q2		6,530.6	11,253.5	12,803.8	30,587.9	1,807.4	32,395.3	9,196.1	0.5	1.3	-0.6	0.3	0.3
2015_Q3		6,540.2	11,079.6	12,849.2	30,469.0	1,796.7	32,265.7	9,213.5	0.1	-1.5	0.4	-0.4	0.2
2015_Q4		6,525.9	11,020.2	13,136.7	30,682.7	1,815.8	32,498.5	9,257.9	-0.2	-0.5	2.2	0.7	0.5
2016_Q1		6,532.2	11,161.8	13,226.4	30,920.4	1,831.4	32,751.8	9,293.1	0.1	1.3	0.7	0.8	0.4
2016_Q2		6,578.3	10,987.7	13,328.4	30,894.4	1,847.8	32,742.1	9,339.5	0.7	-1.6	0.8	0.0	0.5
2016_Q3		6,636.6	11,240.4	13,408.6	31,285.5	1,876.1	33,161.7	9,425.5	0.9	2.3	0.6	1.3	0.9
2016_Q4		6,715.6	11,497.4	13,503.6	31,716.5	1,910.1	33,626.6	9,537.0	1.2	2.3	0.7	1.4	1.2
2017_Q1		6,833.1	11,927.2	13,552.3	32,312.7	1,932.6	34,245.3	9,689.2	1.8	3.7	0.4	1.8	1.6
2017_Q2		6,888.5	12,500.3	13,783.8	33,172.6	1,967.1	35,139.7	9,827.6	0.8	4.8	1.7	2.6	1.4
2017_Q3		7,019.9	12,935.4	13,933.7	33,889.0	1,980.2	35,869.2	10,018.6	1.9	3.5	1.1	2.1	1.9
2017_Q4		7,125.8	13,297.9	13,944.1	34,367.7	1,991.8	36,359.5	10,151.5	1.5	2.8	0.1	1.4	1.3
2018_Q1		7,211.4	13,635.8	13,992.6	34,839.8	2,009.2	36,849.0	10,264.6	1.2	2.5	0.3	1.3	1.1
2018_Q2		7,283.3	14,004.2	14,010.6	35,298.1	2,034.7	37,332.9	10,363.7	1.0	2.7	0.1	1.3	1.0
2018_Q3		7,376.9	14,417.0	14,128.8	35,922.7	2,083.6	38,006.3	10,510.7	1.3	2.9	0.8	1.8	1.4
2018_Q4		7,469.4	14,702.1	14,323.7	36,495.2	2,141.7	38,636.9	10,661.9	1.3	2.0	1.4	1.7	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	0.4	5.4	1.9	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*		8,030.3	15,439.3	16,559.2	40,028.8	2,022.1	42,050.9	11,702.0	2.7	0.4	3.0	1.8	2.7
2020_Q2*		8,124.8	15,136.4	16,256.6	39,517.8	1,965.1	41,482.9	11,735.4	1.2	-2.0	-1.8	-1.4	0.3
2020_Q3*		8,214.3	14,849.0	16,120.7	39,183.9	1,967.4	41,151.4	11,792.1	1.1	-1.9	-0.8	-0.8	0.5
2020_Q4*		8,395.8	14,836.0	16,315.0	39,546.8	1,951.3	41,498.2	12,018.7	2.2	-0.1	1.2	0.8	1.9
2021_Q1*		8,609.1	14,889.3	16,491.1	39,989.4	1,967.4	41,956.8	12,242.6	2.5	0.4	1.1	1.1	1.9
2021_Q2*		8,821.4	14,735.3	16,888.7	40,445.4	1,987.5	42,432.9	12,430.4	2.5	-1.0	2.4	1.1	1.5
2021_Q3**		8,997.4	14,661.2	17,413.5	41,072.2	2,024.0	43,096.2	12,598.4	2.0	-0.5	3.1	1.6	1.4

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Appendix 17 - Agriculture: Seasonally adjusted value added by activity							
Year	Quarter	Quarterly Value Added (Ghc Million)					
		Crops & Cocoa	Livestock	Forestry & Logging	Fishing	Total Value Added	ow informal
2013_Q1		4,622.4	309.2	517.4	429.2	5,878.2	5,360.8
2013_Q2		4,108.8	688.0	514.2	441.2	5,752.2	5,238.0
2013_Q3		4,095.8	789.6	512.8	445.5	5,843.7	5,330.9
2013_Q4		4,265.4	1,088.5	511.9	456.5	6,322.4	5,810.5
2014_Q1		4,295.4	1,209.8	491.7	446.3	6,443.3	5,951.5
2014_Q2		4,320.2	1,165.9	490.6	424.2	6,400.8	5,910.2
2014_Q3		4,345.7	1,163.9	497.3	396.8	6,403.7	5,906.4
2014_Q4		4,383.8	1,144.0	504.0	350.2	6,382.0	5,878.0
2015_Q1		4,389.2	1,251.1	515.6	345.3	6,501.1	5,985.6
2015_Q2		4,397.5	1,278.1	509.9	345.1	6,530.6	6,020.7
2015_Q3		4,422.1	1,264.2	496.4	357.5	6,540.2	6,043.8
2015_Q4		4,457.5	1,204.0	484.3	380.0	6,525.9	6,041.6
2016_Q1		4,482.9	1,193.6	482.6	373.1	6,532.2	6,049.6
2016_Q2		4,511.2	1,203.4	486.7	377.0	6,578.3	6,091.6
2016_Q3		4,537.0	1,224.1	493.3	382.0	6,636.6	6,143.2
2016_Q4		4,557.1	1,268.5	498.1	391.8	6,715.6	6,217.4
2017_Q1		4,650.7	1,292.8	506.2	383.4	6,833.1	6,326.9
2017_Q2		4,717.2	1,309.5	509.9	351.8	6,888.5	6,378.6
2017_Q3		4,794.6	1,322.6	511.5	391.2	7,019.9	6,508.4
2017_Q4		4,883.9	1,340.4	515.0	386.5	7,125.8	6,610.8
2018_Q1		4,951.2	1,357.8	523.0	379.5	7,211.4	6,688.4
2018_Q2		5,000.6	1,373.4	528.1	381.2	7,283.3	6,755.2
2018_Q3		5,079.8	1,388.5	528.5	380.1	7,376.9	6,848.4
2018_Q4		5,169.5	1,412.5	527.1	360.3	7,469.4	6,942.3
2019_Q1		5,729.6	1,005.0	514.3	341.4	7,590.3	7,076.0
2019_Q2		5,801.3	1,016.7	510.6	345.2	7,673.7	7,163.2
2019_Q3		5,865.7	1,028.0	511.1	348.3	7,753.1	7,242.0
2019_Q4		5,908.9	1,045.9	509.3	353.6	7,817.8	7,308.4
2020_Q1*		6,093.5	1,059.6	505.1	372.1	8,030.3	7,525.2
2020_Q2*		6,180.8	1,072.0	488.3	383.8	8,124.8	7,636.5
2020_Q3*		6,253.2	1,084.0	474.0	403.0	8,214.3	7,740.2
2020_Q4*		6,425.7	1,102.9	462.7	404.5	8,395.8	7,933.1
2021_Q1*		6,627.4	1,117.4	463.3	401.0	8,609.1	8,145.8
2021_Q2*		6,800.7	1,130.5	476.6	413.6	8,821.4	8,344.8
2021_Q3**		6,945.3	1,143.3	479.7	429.1	8,997.4	8,517.7

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Appendix 18 - Agriculture: Seasonally adjusted value added by activity							
Year	Quarter	Quarter-on-Quarter Change (%)					
		Crops & Cocoa	Livestock	Forestry & Logging	Fishing	Total Value Added	ow informal
2013_Q2		-11.1	122.5	-0.6	2.8	-2.1	-2.3
2013_Q3		-0.3	14.8	-0.3	1.0	1.6	1.8
2013_Q4		4.1	37.8	-0.2	2.5	8.2	9.0
2014_Q1		0.7	11.1	-3.9	-2.2	1.9	2.4
2014_Q2		0.6	-3.6	-0.2	-5.0	-0.7	-0.7
2014_Q3		0.6	-0.2	1.4	-6.4	0.0	-0.1
2014_Q4		0.9	-1.7	1.4	-11.8	-0.3	-0.5
2015_Q1		0.1	9.4	2.3	-1.4	1.9	1.8
2015_Q2		0.2	2.2	-1.1	0.0	0.5	0.6
2015_Q3		0.6	-1.1	-2.6	3.6	0.1	0.4
2015_Q4		0.8	-4.8	-2.5	6.3	-0.2	0.0
2016_Q1		0.6	-0.9	-0.4	-1.8	0.1	0.1
2016_Q2		0.6	0.8	0.9	1.1	0.7	0.7
2016_Q3		0.6	1.7	1.4	1.3	0.9	0.8
2016_Q4		0.4	3.6	1.0	2.6	1.2	1.2
2017_Q1		2.1	1.9	1.6	-2.2	1.8	1.8
2017_Q2		1.4	1.3	0.7	-8.2	0.8	0.8
2017_Q3		1.6	1.0	0.3	11.2	1.9	2.0
2017_Q4		1.9	1.3	0.7	-1.2	1.5	1.6
2018_Q1		1.4	1.3	1.6	-1.8	1.2	1.2
2018_Q2		1.0	1.1	1.0	0.5	1.0	1.0
2018_Q3		1.6	1.1	0.1	-0.3	1.3	1.4
2018_Q4		1.8	1.7	-0.3	-5.2	1.3	1.4
2019_Q1		10.8	-28.8	-2.4	-5.2	1.6	1.9
2019_Q2		1.3	1.2	-0.7	1.1	1.1	1.2
2019_Q3		1.1	1.1	0.1	0.9	1.0	1.1
2019_Q4		0.7	1.7	-0.4	1.5	0.8	0.9
2020_Q1*		3.1	1.3	-0.8	5.2	2.7	3.0
2020_Q2*		1.4	1.2	-3.3	3.1	1.2	1.5
2020_Q3*		1.2	1.1	-2.9	5.0	1.1	1.4
2020_Q4*		2.8	1.7	-2.4	0.4	2.2	2.5
2021_Q1*		3.1	1.3	0.1	-0.9	2.5	2.7
2021_Q2*		2.6	1.2	2.9	3.1	2.5	2.4
2021_Q3**		2.1	1.1	0.6	3.8	2.0	2.1

*revised

** provisional

Appendix 19 - Agriculture: Seasonally adjusted value added by activity						
Year Quarter	Year-on-Year Change (%)					
	Crops & Cocoa	Livestock	Forestry & Logging	Fishing	Total Value Added	ow informal
2014_Q1	-7.1	291.3	-5.0	4.0	9.6	11.0
2014_Q2	5.1	69.5	-4.6	-3.9	11.3	12.8
2014_Q3	6.1	47.4	-3.0	-10.9	9.6	10.8
2014_Q4	2.8	5.1	-1.5	-23.3	0.9	1.2
2015_Q1	2.2	3.4	4.9	-22.6	0.9	0.6
2015_Q2	1.8	9.6	3.9	-18.6	2.0	1.9
2015_Q3	1.8	8.6	-0.2	-9.9	2.1	2.3
2015_Q4	1.7	5.2	-3.9	8.5	2.3	2.8
2016_Q1	2.1	-4.6	-6.4	8.0	0.5	1.1
2016_Q2	2.6	-5.8	-4.5	9.2	0.7	1.2
2016_Q3	2.6	-3.2	-0.6	6.9	1.5	1.6
2016_Q4	2.2	5.4	2.9	3.1	2.9	2.9
2017_Q1	3.7	8.3	4.9	2.8	4.6	4.6
2017_Q2	4.6	8.8	4.8	-6.7	4.7	4.7
2017_Q3	5.7	8.0	3.7	2.4	5.8	5.9
2017_Q4	7.2	5.7	3.4	-1.4	6.1	6.3
2018_Q1	6.5	5.0	3.3	-1.0	5.5	5.7
2018_Q2	6.0	4.9	3.6	8.3	5.7	5.9
2018_Q3	5.9	5.0	3.3	-2.8	5.1	5.2
2018_Q4	5.8	5.4	2.4	-6.8	4.8	5.0
2019_Q1	15.7	-26.0	-1.7	-10.0	5.3	5.8
2019_Q2	16.0	-26.0	-3.3	-9.4	5.4	6.0
2019_Q3	15.5	-26.0	-3.3	-8.4	5.1	5.7
2019_Q4	14.3	-26.0	-3.4	-1.9	4.7	5.3
2020_Q1*	6.4	5.4	-1.8	9.0	5.8	6.3
2020_Q2*	6.5	5.4	-4.4	11.2	5.9	6.6
2020_Q3*	6.6	5.4	-7.3	15.7	5.9	6.9
2020_Q4*	8.7	5.4	-9.2	14.4	7.4	8.5
2021_Q1*	8.8	5.5	-8.3	7.8	7.2	8.2
2021_Q2*	10.0	5.5	-2.4	7.8	8.6	9.3
2021_Q3**	11.1	5.5	1.2	6.5	9.5	10.0

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Appendix 20 - Industry: Seasonally adjusted value added by activity							
Year Quarter	Quarterly Value Added (GHc Million)						
	Mining and Quarrying	Manufacturing	Electricity	Water Supply, Sewerage, Waste Management & Remediation Activities	Construction	Total Value Added	Low informal
2013_Q1	4,170.5	3,700.2	318.6	148.3	2,583.6	10,921.3	864.9
2013_Q2	4,022.0	3,757.3	321.0	150.4	2,666.1	10,916.7	864.5
2013_Q3	3,851.5	3,772.3	320.5	152.3	2,700.9	10,797.5	855.1
2013_Q4	3,983.3	3,630.7	331.8	170.1	2,660.3	10,776.1	853.4
2014_Q1	4,043.5	3,374.7	318.2	176.2	2,592.1	10,504.7	831.9
2014_Q2	4,220.6	3,380.6	319.3	183.5	2,459.3	10,563.2	836.5
2014_Q3	4,541.6	3,351.7	330.4	190.2	2,533.5	10,947.4	866.9
2014_Q4	4,197.4	3,537.5	336.1	180.2	2,648.8	10,899.9	863.2
2015_Q1	4,153.6	3,719.9	363.4	189.1	2,683.9	11,109.9	879.8
2015_Q2	4,123.9	3,696.1	383.1	195.9	2,854.5	11,253.5	891.2
2015_Q3	3,880.8	3,692.4	388.1	200.4	2,918.0	11,079.6	877.4
2015_Q4	3,850.8	3,666.9	395.5	205.3	2,901.7	11,020.2	872.7
2016_Q1	3,695.1	3,719.9	404.8	202.3	3,139.7	11,161.8	883.9
2016_Q2	3,420.4	3,808.3	395.4	194.5	3,169.2	10,987.7	870.1
2016_Q3	3,666.5	3,857.7	380.0	188.1	3,148.1	11,240.4	890.1
2016_Q4	3,841.6	3,957.3	372.7	181.1	3,144.7	11,497.4	910.5
2017_Q1	4,091.3	4,146.4	376.8	178.2	3,134.5	11,927.2	944.5
2017_Q2	4,525.1	4,216.0	397.7	181.5	3,179.9	12,500.3	989.9
2017_Q3	4,701.5	4,360.6	427.1	186.4	3,259.9	12,935.4	1,024.4
2017_Q4	5,023.0	4,333.9	445.0	192.1	3,303.9	13,297.9	1,053.1
2018_Q1	5,307.1	4,392.9	446.1	192.8	3,296.9	13,635.8	1,079.8
2018_Q2	5,621.6	4,421.9	456.3	191.1	3,313.2	14,004.2	1,109.0
2018_Q3	5,950.9	4,494.0	462.4	188.8	3,320.8	14,417.0	1,141.7
2018_Q4	6,193.9	4,513.5	469.7	185.2	3,339.9	14,702.1	1,164.3
2019_Q1	6,230.1	4,642.4	477.4	189.2	3,216.1	14,755.2	1,168.5
2019_Q2	6,581.0	4,789.7	462.2	186.0	3,210.6	15,229.4	1,206.0
2019_Q3	6,755.2	4,845.6	476.5	185.0	3,131.2	15,393.6	1,219.0
2019_Q4	6,810.1	4,766.6	502.9	182.8	3,122.0	15,384.3	1,218.3
2020_Q1*	6,673.8	4,928.2	515.6	183.8	3,137.8	15,439.3	1,222.6
2020_Q2*	6,476.7	4,784.5	540.6	187.5	3,147.1	15,136.4	1,198.6
2020_Q3*	6,249.7	4,698.1	563.7	185.9	3,151.6	14,849.0	1,175.9
2020_Q4*	6,061.0	4,832.9	542.7	186.7	3,212.7	14,836.0	1,174.9
2021_Q1*	5,903.2	4,929.9	542.8	189.8	3,323.7	14,889.3	1,179.1
2021_Q2*	5,618.6	5,017.9	555.6	199.5	3,343.7	14,735.3	1,166.9
2021_Q3**	5,438.4	5,099.2	563.5	202.5	3,357.5	14,661.2	1,161.0

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Appendix 21 - Industry: Seasonally adjusted value added by activity							
Year Quarter	Quarter-on-Quarter Change (%)						
	Mining and Quarrying	Manufacturing	Electricity	Water Supply, Sewerage, Waste Management & Remediation Activities	Construction	Total Value Added	Low informal
2013_Q2	-3.6	1.5	0.7	1.4	3.2	0.0	0.0
2013_Q3	-4.2	0.4	-0.1	1.3	1.3	-1.1	-1.1
2013_Q4	3.4	-3.8	3.5	11.7	-1.5	-0.2	-0.2
2014_Q1	1.5	-7.1	-4.1	3.6	-2.6	-2.5	-2.5
2014_Q2	4.4	0.2	0.3	4.1	-5.1	0.6	0.6
2014_Q3	7.6	-0.9	3.5	3.7	3.0	3.6	3.6
2014_Q4	-7.6	5.5	1.7	-5.3	4.5	-0.4	-0.4
2015_Q1	-1.0	5.2	8.1	5.0	1.3	1.9	1.9
2015_Q2	-0.7	-0.6	5.4	3.6	6.4	1.3	1.3
2015_Q3	-5.9	-0.1	1.3	2.3	2.2	-1.5	-1.5
2015_Q4	-0.8	-0.7	1.9	2.4	-0.6	-0.5	-0.5
2016_Q1	-4.0	1.4	2.4	-1.5	8.2	1.3	1.3
2016_Q2	-7.4	2.4	-2.3	-3.8	0.9	-1.6	-1.6
2016_Q3	7.2	1.3	-3.9	-3.3	-0.7	2.3	2.3
2016_Q4	4.8	2.6	-1.9	-3.7	-0.1	2.3	2.3
2017_Q1	6.5	4.8	1.1	-1.6	-0.3	3.7	3.7
2017_Q2	10.6	1.7	5.5	1.9	1.4	4.8	4.8
2017_Q3	3.9	3.4	7.4	2.7	2.5	3.5	3.5
2017_Q4	6.8	-0.6	4.2	3.0	1.4	2.8	2.8
2018_Q1	5.7	1.4	0.2	0.4	-0.2	2.5	2.5
2018_Q2	5.9	0.7	2.3	-0.9	0.5	2.7	2.7
2018_Q3	5.9	1.6	1.4	-1.2	0.2	2.9	2.9
2018_Q4	4.1	0.4	1.6	-1.9	0.6	2.0	2.0
2019_Q1	0.6	2.9	1.6	2.2	-3.7	0.4	0.4
2019_Q2	5.6	3.2	-3.2	-1.7	-0.2	3.2	3.2
2019_Q3	2.6	1.2	3.1	-0.5	-2.5	1.1	1.1
2019_Q4	0.8	-1.6	5.5	-1.2	-0.3	-0.1	-0.1
2020_Q1*	-2.0	3.4	2.5	0.6	0.5	0.4	0.4
2020_Q2*	-3.0	-2.9	4.8	2.0	0.3	-2.0	-2.0
2020_Q3*	-3.5	-1.8	4.3	-0.9	0.1	-1.9	-1.9
2020_Q4*	-3.0	2.9	-3.7	0.5	1.9	-0.1	-0.1
2021_Q1*	-2.6	2.0	0.02	1.6	3.5	0.4	0.4
2021_Q2*	-4.8	1.8	2.4	5.1	0.6	-1.0	-1.0
2021_Q3**	-3.2	1.6	1.4	1.5	0.4	-0.5	-0.5

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Appendix 22 - Industry: Seasonally adjusted value added by activity							
Year Quarter	Year-on-Year Change (%)						
	Mining and Quarrying	Manufacturing	Electricity	Water Supply, Sewerage, Waste Management & Remediation Activities	Construction	Total Value Added	Low informal
2014_Q1	-3.0	-8.8	-0.1	18.8	0.3	-3.8	-3.8
2014_Q2	4.9	-10.0	-0.5	22.0	-7.8	-3.2	-3.2
2014_Q3	17.9	-11.1	3.1	24.9	-6.2	1.4	1.4
2014_Q4	5.4	-2.6	1.3	5.9	-0.4	1.1	1.1
2015_Q1	2.7	10.2	14.2	7.3	3.5	5.8	5.8
2015_Q2	-2.3	9.3	20.0	6.8	16.1	6.5	6.5
2015_Q3	-14.5	10.2	17.5	5.4	15.2	1.2	1.2
2015_Q4	-8.3	3.7	17.7	13.9	9.5	1.1	1.1
2016_Q1	-11.0	0.0	11.4	6.9	17.0	0.5	0.5
2016_Q2	-17.1	3.0	3.2	-0.7	11.0	-2.4	-2.4
2016_Q3	-5.5	4.5	-2.1	-6.2	7.9	1.5	1.5
2016_Q4	-0.2	7.9	-5.8	-11.8	8.4	4.3	4.3
2017_Q1	10.7	11.5	-6.9	-11.9	-0.2	6.9	6.9
2017_Q2	32.3	10.7	0.6	-6.7	0.3	13.8	13.8
2017_Q3	28.2	13.0	12.4	-0.9	3.6	15.1	15.1
2017_Q4	30.8	9.5	19.4	6.1	5.1	15.7	15.7
2018_Q1	29.7	5.9	18.4	8.2	5.2	14.3	14.3
2018_Q2	24.2	4.9	14.7	5.3	4.2	12.0	12.0
2018_Q3	26.6	3.1	8.3	1.3	1.9	11.5	11.5
2018_Q4	23.3	4.1	5.5	-3.6	1.1	10.6	10.6
2019_Q1	17.4	5.7	7.0	-1.9	-2.4	8.2	8.2
2019_Q2	17.1	8.3	1.3	-2.7	-3.1	8.7	8.7
2019_Q3	13.5	7.8	3.0	-2.0	-5.7	6.8	6.8
2019_Q4	9.9	5.6	7.1	-1.3	-6.5	4.6	4.6
2020_Q1*	7.1	6.2	8.0	-2.8	-2.4	4.6	4.6
2020_Q2*	-1.6	-0.1	17.0	0.8	-2.0	-0.6	-0.6
2020_Q3*	-7.5	-3.0	18.3	0.4	0.7	-3.5	-3.5
2020_Q4*	-11.0	1.4	7.9	2.2	2.9	-3.6	-3.6
2021_Q1*	-11.5	0.0	5.3	3.2	5.9	-3.6	-3.6
2021_Q2*	-13.2	4.9	2.8	6.4	6.2	-2.6	-2.6
2021_Q3**	-13.0	8.5	0.0	9.0	6.5	-1.3	-1.3

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Appendix 23- Services: Seasonally adjusted value added by activity													
Year Quarter	Quarterly Value Added (GHc Million)											Total Value Added	Low Informal
	Trade; Repair of Vehicles, Household Goods	Hotels and Restaurants	Transport & Storage	Information & Communication	Financial & Insurance Activities	Real Estate	Professional, Administrative & Support Service activities	Public Administration, Defense & Social Security	Education	Health & Social Work	Other Personal Service Activities		
2013_Q1	3,087.1	1,293.3	2,030.3	422.9	1,497.0	228.6	427.3	1,189.7	1,372.0	606.7	425.8	12,580.6	2,244.4
2013_Q2	3,424.8	1,158.6	1,924.2	460.1	1,506.1	263.5	404.2	1,108.2	1,199.9	623.0	423.4	12,496.1	2,229.4
2013_Q3	3,346.4	1,172.3	1,831.2	462.7	1,502.1	275.2	402.0	1,070.9	1,182.0	640.6	406.1	12,291.4	2,192.8
2013_Q4	3,279.4	1,144.2	1,744.8	469.0	1,488.3	286.3	403.1	1,066.1	1,173.3	652.9	394.7	12,102.1	2,159.1
2014_Q1	3,390.0	1,127.5	1,773.1	511.3	1,485.2	292.6	392.5	1,046.9	1,115.1	660.3	395.8	12,190.3	2,174.8
2014_Q2	3,370.0	1,216.9	1,853.8	531.1	1,545.6	299.3	397.3	1,081.0	1,156.5	653.9	382.2	12,487.7	2,227.9
2014_Q3	3,408.9	1,187.1	1,849.4	572.3	1,642.5	297.9	415.9	1,057.4	1,160.0	663.0	393.2	12,647.4	2,256.4
2014_Q4	3,346.4	1,161.6	1,845.9	608.1	1,806.6	285.5	430.5	1,028.8	1,169.8	670.6	400.4	12,754.2	2,275.4
2015_Q1	3,253.6	1,167.3	1,864.5	633.3	1,993.4	310.8	441.4	973.1	1,162.6	677.2	410.1	12,887.3	2,299.2
2015_Q2	3,191.4	1,141.9	1,777.2	654.7	2,059.4	305.2	458.3	936.1	1,177.4	672.8	429.4	12,803.8	2,284.3
2015_Q3	3,148.3	1,181.8	1,806.9	665.2	2,092.3	298.8	451.8	989.7	1,145.5	649.2	419.6	12,849.2	2,292.4
2015_Q4	3,363.4	1,208.7	1,894.3	680.8	2,039.7	294.4	436.6	1,002.4	1,164.5	640.8	411.0	13,136.7	2,343.6
2016_Q1	3,393.5	1,200.5	1,855.4	695.9	2,018.2	292.2	441.0	1,092.4	1,212.6	626.8	398.0	13,226.4	2,359.7
2016_Q2	3,412.3	1,197.5	1,898.1	711.0	2,055.4	278.2	432.6	1,108.7	1,200.8	643.4	390.3	13,328.4	2,377.8
2016_Q3	3,432.0	1,196.7	1,890.8	726.0	2,097.2	291.2	416.9	1,079.0	1,221.3	662.9	394.6	13,408.6	2,392.1
2016_Q4	3,348.3	1,236.5	1,915.9	718.6	2,202.8	303.7	418.1	1,091.2	1,191.2	666.5	410.6	13,503.6	2,409.1
2017_Q1	3,435.7	1,256.5	1,995.3	702.6	2,142.8	295.3	404.3	1,059.5	1,150.7	695.5	414.1	13,552.3	2,417.8
2017_Q2	3,537.5	1,268.5	2,060.1	697.8	2,096.1	312.2	414.4	1,091.7	1,184.3	707.0	414.2	13,783.8	2,459.1
2017_Q3	3,617.5	1,290.9	2,095.1	707.1	1,957.4	327.2	427.1	1,140.3	1,237.0	715.0	419.2	13,933.7	2,485.8
2017_Q4	3,623.0	1,331.0	2,087.4	748.7	1,812.8	315.3	430.2	1,136.7	1,266.1	760.4	432.5	13,944.1	2,487.7
2018_Q1	3,638.9	1,337.6	2,081.3	776.7	1,757.4	313.2	424.6	1,148.3	1,277.7	805.2	431.7	13,992.6	2,496.3
2018_Q2	3,623.9	1,351.6	2,075.2	802.3	1,690.7	312.6	417.6	1,160.9	1,284.4	852.7	438.6	14,010.6	2,499.6
2018_Q3	3,650.0	1,369.6	2,095.2	821.4	1,655.0	296.8	425.4	1,166.9	1,303.4	904.3	440.9	14,128.8	2,520.6
2018_Q4	3,723.0	1,373.5	2,110.4	846.9	1,664.1	294.8	431.3	1,185.6	1,316.0	931.9	446.1	14,323.7	2,555.4
2019_Q1	4,010.2	1,386.6	2,123.2	947.1	1,642.3	238.5	464.6	1,298.7	1,504.2	1,021.2	463.8	15,100.3	2,694.0
2019_Q2	4,052.7	1,369.4	2,143.1	1,015.0	1,653.9	255.7	478.2	1,315.3	1,505.4	1,076.8	464.8	15,330.3	2,735.0
2019_Q3	4,070.0	1,387.0	2,183.1	1,080.2	1,665.7	324.0	481.6	1,324.5	1,548.0	1,083.5	466.6	15,614.2	2,785.6
2019_Q4	4,082.5	1,487.4	2,225.9	1,289.5	1,670.1	362.1	469.8	1,321.7	1,633.6	1,064.0	472.6	16,079.2	2,868.6
2020_Q1*	4,285.4	1,570.3	2,243.4	1,320.0	1,715.4	398.5	467.2	1,345.5	1,657.2	1,082.3	473.9	16,559.2	2,954.2
2020_Q2*	4,097.7	1,333.8	2,248.2	1,386.1	1,750.1	382.9	458.0	1,350.3	1,678.0	1,096.3	475.3	16,256.6	2,900.3
2020_Q3*	3,984.2	1,134.0	2,278.1	1,481.0	1,755.5	372.5	447.5	1,365.6	1,711.3	1,114.4	476.7	16,120.7	2,876.0
2020_Q4*	4,038.6	970.1	2,307.2	1,579.4	1,761.5	407.3	442.3	1,418.3	1,761.2	1,151.3	477.8	16,315.0	2,910.7
2021_Q1*	4,072.8	927.3	2,325.1	1,647.1	1,782.5	417.1	439.0	1,438.6	1,786.9	1,170.3	484.2	16,491.1	2,917.7
2021_Q2*	4,162.4	943.7	2,367.1	1,717.2	1,805.6	424.3	442.4	1,460.9	1,835.8	1,239.4	489.8	16,888.7	2,918.7
2021_Q3**	4,248.7	973.1	2,414.0	1,782.9	1,826.2	441.3	462.7	1,518.6	1,951.6	1,297.3	497.0	17,413.5	2,919.7

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Appendix 24 - Seasonally adjusted value added by activity													
Year Quarter	Quarter-on-Quarter Growth in Value Added (%)												
	Trade; Repair of Vehicles; Household Goods	Hotels and Restaurants	Transport & Storage	Information & Communication	Financial & Insurance Activities	Real Estate	Professional, Administrative & Support Service activities	Public Administration, Defense & Social Security	Education	Health & Social Work	Other Personal Service Activities	Total Value Added	Low informal
2013_Q2	10.9	-10.4	-5.2	8.8	0.6	15.3	-5.4	-6.8	-12.5	2.7	-0.5	-0.7	-0.7
2013_Q3	-2.3	1.2	-4.8	0.6	-0.3	4.4	-0.5	-3.4	-1.5	2.8	-4.1	-1.6	-1.6
2013_Q4	-2.0	-2.4	-4.7	1.4	-0.9	4.0	0.3	-0.4	-0.7	1.9	-2.8	-1.5	-1.5
2014_Q1	3.4	-1.5	1.6	9.0	-0.2	2.2	-2.6	-1.8	-5.0	1.1	0.3	0.7	0.7
2014_Q2	-0.6	7.9	4.6	3.9	4.1	2.3	1.2	3.3	3.7	-1.0	-3.4	2.4	2.4
2014_Q3	1.2	-2.5	-0.2	7.8	6.3	-0.5	4.7	-2.2	0.3	1.4	2.9	1.3	1.3
2014_Q4	-1.8	-2.1	-0.2	6.3	10.0	-4.1	3.5	-2.7	0.8	1.2	1.8	0.8	0.8
2015_Q1	-2.8	0.5	1.0	4.1	10.3	8.8	2.5	-5.4	-0.6	1.0	2.4	1.0	1.0
2015_Q2	-1.9	-2.2	-4.7	3.4	3.3	-1.8	3.8	-3.8	1.3	-0.7	4.7	-0.6	-0.6
2015_Q3	-1.4	3.5	1.7	1.6	1.6	-2.1	-1.4	5.7	-2.7	-3.5	-2.3	0.4	0.4
2015_Q4	6.8	2.3	4.8	2.3	-2.5	-1.5	-3.4	1.3	1.7	-1.3	-2.0	2.2	2.2
2016_Q1	0.9	-0.7	-2.1	2.2	-1.1	-0.8	1.0	9.0	4.1	-2.2	-3.2	0.7	0.7
2016_Q2	0.6	-0.2	2.3	2.2	1.8	-4.8	-1.9	1.5	-1.0	2.7	-1.9	0.8	0.8
2016_Q3	0.6	-0.1	-0.4	2.1	2.0	4.7	-3.6	-2.7	1.7	3.0	1.1	0.6	0.6
2016_Q4	-2.4	3.3	1.3	-1.0	5.0	4.3	0.3	1.1	-2.5	0.6	4.1	0.7	0.7
2017_Q1	2.6	1.6	4.1	-2.2	-2.7	-2.8	-3.3	-2.9	-3.4	4.3	0.9	0.4	0.4
2017_Q2	3.0	1.0	3.3	-0.7	-2.2	5.7	2.5	3.0	2.9	1.7	0.0	1.7	1.7
2017_Q3	2.3	1.8	1.7	1.3	-6.6	4.8	3.1	4.4	4.5	1.1	1.2	1.1	1.1
2017_Q4	0.2	3.1	-0.4	5.9	-7.4	-3.7	0.7	-0.3	2.4	6.4	3.2	0.1	0.1
2018_Q1	0.4	0.5	-0.3	3.7	-3.1	-0.7	-1.3	1.0	0.9	5.9	-0.2	0.3	0.3
2018_Q2	-0.4	1.0	-0.3	3.3	-3.8	-0.2	-1.6	1.1	0.5	5.9	1.6	0.1	0.1
2018_Q3	0.7	1.3	1.0	2.4	-2.1	-5.1	1.9	0.5	1.5	6.1	0.5	0.8	0.8
2018_Q4	2.0	0.3	0.7	3.1	0.6	-0.7	1.4	1.6	1.0	3.1	1.2	1.4	1.4
2019_Q1	7.7	1.0	0.6	11.8	-1.3	-19.1	7.7	9.5	14.3	9.6	4.0	5.4	5.4
2019_Q2	1.1	-1.2	0.9	7.2	0.7	7.2	2.9	1.3	0.1	5.4	0.2	1.5	1.5
2019_Q3	0.4	1.3	1.9	6.4	0.7	26.7	0.7	0.7	2.8	0.6	0.4	1.9	1.9
2019_Q4	0.3	7.2	2.0	19.4	0.3	11.8	-2.4	-0.2	5.5	-1.8	1.3	3.0	3.0
2020_Q1*	5.0	5.6	0.8	2.4	2.7	10.1	-0.6	1.8	1.4	1.7	0.3	3.0	3.0
2020_Q2*	-4.4	-15.1	0.2	5.0	2.0	-3.9	-2.0	0.4	1.3	1.3	0.3	-1.8	-1.8
2020_Q3*	-2.8	-15.0	1.3	6.8	0.3	-2.7	-2.3	1.1	2.0	1.7	0.3	-0.8	-0.8
2020_Q4*	1.4	-14.5	1.3	6.6	0.3	9.4	-1.2	3.9	2.9	3.3	0.2	1.2	1.2
2021_Q1*	0.8	-4.4	0.8	4.3	1.2	2.4	-0.8	1.4	1.5	1.7	1.3	1.1	0.2
2021_Q2*	2.2	1.8	1.8	4.3	1.3	1.7	0.8	1.5	2.7	5.9	1.2	2.4	0.0
2021_Q3**	2.1	3.1	2.0	3.8	1.1	4.0	4.6	4.0	6.3	4.7	1.5	3.1	0.0

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Appendix 25 - Services: Seasonally adjusted value added by activity													
Year Quarter	Year-on-Year Growth in Value Added (%)												
	Trade; Repair of Vehicles, Household Goods	Hotels and Restaurants	Transport & Storage	Information & Communication	Financial & Insurance Activities	Real Estate	Professional, Administrative & Support Service activities	Public Administration, Defense & Social Security	Education	Health & Social Work	Other Personal Service Activities	Total Value Added	Low informal
2014_Q1	9.8	-12.8	-12.7	20.9	-0.8	28.0	-8.1	-12.0	-18.7	8.8	-7.0	-3.1	-3.1
2014_Q2	-1.6	5.0	-3.7	15.4	2.6	13.6	-1.7	-2.5	-3.6	5.0	-9.7	-0.1	-0.1
2014_Q3	1.9	1.3	1.0	23.7	9.3	8.2	3.5	-1.3	-1.9	3.5	-3.2	2.9	2.9
2014_Q4	2.0	1.5	5.8	29.7	21.4	-0.3	6.8	-3.5	-0.3	2.7	1.4	5.4	5.4
2015_Q1	-4.0	3.5	5.2	23.9	34.2	6.2	12.5	-7.1	4.3	2.6	3.6	5.7	5.7
2015_Q2	-5.3	-6.2	-4.1	23.3	33.2	1.9	15.3	-13.4	1.8	2.9	12.3	2.5	2.5
2015_Q3	-7.6	-0.4	-2.3	16.2	27.4	0.3	8.6	-6.4	-1.2	-2.1	6.7	1.6	1.6
2015_Q4	0.5	4.1	2.6	11.9	12.9	3.1	1.4	-2.6	-0.5	-4.4	2.7	3.0	3.0
2016_Q1	4.3	2.8	-0.5	9.9	1.2	-6.0	-0.1	12.3	4.3	-7.5	-3.0	2.6	2.6
2016_Q2	6.9	4.9	6.8	8.6	-0.2	-8.8	-5.6	18.4	2.0	-4.4	-9.1	4.1	4.1
2016_Q3	9.0	1.3	4.6	9.1	0.2	-2.6	-7.7	9.0	6.6	2.1	-6.0	4.4	4.4
2016_Q4	-0.4	2.3	1.1	5.6	8.0	3.2	-4.2	8.9	2.3	4.0	-0.1	2.8	2.8
2017_Q1	1.2	4.7	7.5	1.0	6.2	1.1	-8.3	-3.0	-5.1	11.0	4.1	2.5	2.5
2017_Q2	3.7	5.9	8.5	-1.9	2.0	12.2	-4.2	-1.5	-1.4	9.9	6.1	3.4	3.4
2017_Q3	5.4	7.9	10.8	-2.6	-6.7	12.4	2.4	5.7	1.3	7.9	6.2	3.9	3.9
2017_Q4	8.2	7.6	8.9	4.2	-17.7	3.8	2.9	4.2	6.3	14.1	5.3	3.3	3.3
2018_Q1	5.9	6.5	4.3	10.5	-18.0	6.1	5.0	8.4	11.0	15.8	4.2	3.2	3.2
2018_Q2	2.4	6.6	0.7	15.0	-19.3	0.1	0.8	6.3	8.5	20.6	5.9	1.6	1.6
2018_Q3	0.9	6.1	0.0	16.2	-15.4	-9.3	-0.4	2.3	5.4	26.5	5.2	1.4	1.4
2018_Q4	2.8	3.2	1.1	13.1	-8.2	-6.5	0.3	4.3	3.9	22.6	3.1	2.7	2.7
2019_Q1	10.2	3.7	2.0	21.9	-6.5	-23.9	9.4	13.1	17.7	26.8	7.4	7.9	7.9
2019_Q2	11.8	1.3	3.3	26.5	-2.2	-18.2	14.5	13.3	17.2	26.3	6.0	9.4	9.4
2019_Q3	11.5	1.3	4.2	31.5	0.6	9.2	13.2	13.5	18.8	19.8	5.8	10.5	10.5
2019_Q4	9.7	8.3	5.5	52.3	0.4	22.8	8.9	11.5	24.1	14.2	5.9	12.3	12.3
2020_Q1*	6.9	13.2	5.7	39.4	4.4	67.1	0.6	3.6	10.2	6.0	2.2	9.7	9.7
2020_Q2*	1.1	-2.6	4.9	36.6	5.8	49.8	-4.2	2.7	11.5	1.8	2.3	6.0	6.0
2020_Q3*	-2.1	-18.2	4.4	37.1	5.4	15.0	-7.1	3.1	10.5	2.9	2.2	3.2	3.2
2020_Q4*	-1.1	-34.8	3.7	22.5	5.5	12.5	-5.9	7.3	7.8	8.2	1.1	1.5	1.5
2021_Q1*	-5.0	-40.9	3.6	24.8	3.9	4.7	-6.0	6.9	7.8	8.1	2.2	-0.4	-0.4
2021_Q2*	1.6	-29.2	5.3	23.9	3.2	10.8	-3.4	8.2	9.4	13.1	3.1	3.9	0.6
2021_Q3**	6.6	-14.2	6.0	20.4	4.0	18.5	3.4	11.2	14.0	16.4	4.3	8.0	1.6

*revised ** provisional