



GHANA STATISTICAL SERVICE

Statistics for Development and Progress

Quarterly GDP Bulletin

**Rebased Quarterly Gross Domestic Product
2013Q1-2019Q3**

DECEMBER 2019 EDITION

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Forthcoming issues

Issue	Expected Date of Publication
Second Quarter of 2019	September 18, 2019
Third Quarter of 2019	December 18, 2019
Fourth Quarter of 2019	April 22, 2020

Explanatory notes

Introduction

This publication contains provisional rebased quarterly GDP estimates for 2013 Q1 to 2019 Q2. These series would be revised on April 22, 2020.

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*	5,878.2	10,921.3	12,600.6	29,400.1	1,443.3	30,843.4	8,473.6	29,024.5	20.0	37.1	42.9	100.0	27.5
2013_Q2*	5,626.2	10,912.2	12,442.4	28,980.8	1,657.5	30,638.3	8,199.2	28,894.7	19.4	37.7	42.9	100.0	26.8
2013_Q3*	6,026.7	10,559.1	11,862.3	28,448.1	1,683.9	30,132.0	8,469.1	28,573.9	21.2	37.1	41.7	100.0	28.1
2013_Q4*	7,758.4	10,711.8	11,602.9	30,073.2	2,063.1	32,136.3	10,167.5	30,454.1	25.8	35.6	38.6	100.0	31.6
2014_Q1*	8,152.2	10,648.1	12,914.5	31,714.8	3,294.9	35,009.7	10,621.5	32,798.5	25.7	33.6	40.7	100.0	30.3
2014_Q2*	6,667.0	13,032.9	15,124.7	34,824.6	3,371.4	38,196.0	9,669.9	35,632.6	19.1	37.4	43.4	100.0	25.3
2014_Q3*	7,161.8	15,970.2	14,292.1	37,424.1	3,624.7	41,048.8	10,228.9	38,583.1	19.1	42.7	38.2	100.0	24.9
2014_Q4*	9,105.0	14,116.2	13,800.7	37,021.9	4,156.1	41,178.0	11,946.0	39,417.5	24.6	38.1	37.3	100.0	29.0
2015_Q1*	9,430.4	13,390.2	17,112.6	39,933.2	3,624.9	43,558.1	12,698.9	42,223.8	23.6	33.5	42.9	100.0	29.2
2015_Q2*	7,777.8	15,685.1	17,648.2	41,111.1	3,599.1	44,710.2	11,293.3	43,030.3	18.9	38.2	42.9	100.0	25.3
2015_Q3*	8,519.4	13,699.2	17,511.1	39,729.7	3,788.1	43,517.9	11,861.0	42,557.7	21.4	34.5	44.1	100.0	27.3
2015_Q4*	10,798.1	14,380.7	19,061.8	44,240.6	4,372.3	48,612.9	14,469.5	47,895.4	24.4	32.5	43.1	100.0	29.8
2016_Q1*	11,776.3	14,903.8	22,310.2	48,990.4	3,810.1	52,800.5	16,078.3	52,535.0	24.0	30.4	45.5	100.0	30.5
2016_Q2*	9,411.9	14,614.2	23,206.5	47,232.6	4,358.0	51,590.6	13,821.8	51,465.0	19.9	30.9	49.1	100.0	26.8
2016_Q3*	10,518.0	15,187.8	22,676.6	48,382.3	3,811.3	52,193.7	14,863.3	51,979.8	21.7	31.4	46.9	100.0	28.5
2016_Q4*	13,410.2	16,003.2	24,486.5	53,900.0	4,592.3	58,492.2	18,153.6	58,070.2	24.9	29.7	45.4	100.0	31.0
2017_Q1*	13,147.3	18,508.1	26,933.9	58,589.3	3,959.0	62,548.4	18,411.3	61,490.5	22.4	31.6	46.0	100.0	29.4
2017_Q2*	10,230.5	19,587.9	28,593.5	58,411.9	4,322.8	62,734.7	15,870.0	61,282.7	17.5	33.5	49.0	100.0	25.3
2017_Q3*	12,213.4	19,776.2	26,614.7	58,604.3	4,843.1	63,447.4	17,510.4	60,985.6	20.8	33.7	45.4	100.0	27.6
2017_Q4*	14,963.2	20,142.8	27,555.4	62,661.5	5,279.4	67,940.9	20,456.3	64,466.6	23.9	32.1	44.0	100.0	30.1
2018_Q1*	14,575.5	21,522.4	31,613.9	67,711.8	5,287.4	72,999.1	20,855.2	71,326.9	21.5	31.8	46.7	100.0	28.6
2018_Q2*	11,128.2	23,712.9	32,706.6	67,547.7	4,952.7	72,500.4	17,787.7	69,890.5	16.5	35.1	48.4	100.0	24.5
2018_Q3*	13,199.9	24,318.0	31,336.3	68,854.2	5,368.4	74,222.6	19,685.6	71,760.8	19.2	35.3	45.5	100.0	26.5
2018_Q4*	16,020.0	25,217.1	33,622.2	74,859.2	6,014.8	80,874.0	22,925.3	77,010.1	21.4	33.7	44.9	100.0	28.3
2019_Q1*	15,569.5	26,208.7	37,345.4	79,123.6	5,603.2	84,726.7	23,262.7	81,954.3	19.7	33.1	47.2	100.0	27.5
2019_Q2*	12,080.1	27,998.5	38,715.0	78,793.5	5,018.4	83,811.9	20,173.4	81,039.4	15.3	35.5	49.1	100.0	24.1
2019_Q3*	14,765.9	28,489.7	36,573.2	79,828.9	5,439.6	85,268.5	22,495.8	81,611.1	18.5	35.7	45.8	100.0	26.4

*Provisional

Appendix 2 - Agriculture: value added by activity at current prices									
Year	Quarter	Value Added (GHc Million)						Total Value Added	ow informal
		Crops & Cocoa	Cocoa	Livestock	Forestry & Logging	Fishing			
2013_Q1*		4,622.4	597.2	309.2	517.4	429.2	5,878.2	5,360.8	
2013_Q2*		3,595.2	198.6	1,066.8	510.9	453.2	5,626.2	5,115.3	
2013_Q3*		4,069.8	396.0	992.9	510.1	453.9	6,026.7	5,516.6	
2013_Q4*		4,774.3	788.4	1,985.1	509.2	489.8	7,758.4	7,249.2	
2014_Q1*		5,580.7	976.8	1,394.4	678.0	499.1	8,152.2	7,474.3	
2014_Q2*		4,320.1	324.8	1,102.0	727.5	517.4	6,667.0	5,939.5	
2014_Q3*		4,872.7	649.4	1,028.2	747.3	513.6	7,161.8	6,414.5	
2014_Q4*		5,863.7	1,302.7	2,047.6	739.0	454.8	9,105.0	8,366.1	
2015_Q1*		6,530.0	1,100.3	1,450.4	844.8	605.2	9,430.4	8,585.6	
2015_Q2*		5,092.0	366.8	1,193.4	875.2	617.3	7,777.8	6,902.7	
2015_Q3*		5,850.2	731.1	1,139.7	867.3	662.2	8,519.4	7,652.1	
2015_Q4*		7,007.1	1,447.6	2,268.3	868.1	654.5	10,798.1	9,930.0	
2016_Q1*		8,717.8	1,157.3	1,581.9	858.5	618.2	11,776.3	10,917.8	
2016_Q2*		6,523.3	382.3	1,291.0	887.6	710.1	9,411.9	8,524.4	
2016_Q3*		7,644.7	761.5	1,227.4	903.0	742.9	10,518.0	9,615.0	
2016_Q4*		9,324.0	1,532.8	2,423.7	892.4	770.1	13,410.2	12,517.8	
2017_Q1*		9,854.7	1,223.5	1,717.8	1,006.8	568.0	13,147.3	12,140.5	
2017_Q2*		7,336.7	415.3	1,413.5	1,012.9	467.4	10,230.5	9,217.7	
2017_Q3*		8,828.6	843.4	1,345.6	1,017.3	1,021.9	12,213.4	11,196.1	
2017_Q4*		10,578.6	1,703.9	2,623.4	1,018.0	743.2	14,963.2	13,945.2	
2018_Q1*		11,153.0	1,269.0	1,811.2	1,064.7	546.6	14,575.5	13,510.8	
2018_Q2*		8,067.8	430.8	1,495.4	1,053.3	511.7	11,128.2	10,074.9	
2018_Q3*		9,606.8	874.8	1,469.5	1,030.6	1,093.0	13,199.9	12,169.3	
2018_Q4*		11,521.5	1,767.3	2,752.3	1,089.9	656.3	16,020.0	14,930.1	
2019_Q1*		12,053.0	1,339.5	1,930.8	1,044.8	541.0	15,569.5	14,524.7	
2019_Q2*		8,880.1	453.8	1,631.2	1,030.7	538.0	12,080.1	11,049.3	
2019_Q3*		11,001.1	921.7	1,531.3	1,051.1	1,182.4	14,765.9	13,714.9	

*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*	4,170.5	1,818.8	3,700.2	318.6	148.3	2,583.6	10,921.3	864.9	
2013_Q2*	3,873.6	1,743.7	3,814.3	323.3	152.4	2,748.6	10,912.2	864.1	
2013_Q3*	3,510.3	1,558.1	3,802.4	319.7	156.1	2,770.6	10,559.1	836.2	
2013_Q4*	4,378.8	1,682.2	3,205.8	365.4	223.5	2,538.3	10,711.8	848.3	
2014_Q1*	5,064.5	2,211.3	2,701.4	389.7	217.8	2,274.7	10,648.1	843.2	
2014_Q2*	5,961.6	2,563.4	4,081.0	372.3	219.1	2,398.9	13,032.9	1,032.1	
2014_Q3*	6,135.0	2,465.6	5,310.6	319.1	229.1	3,976.4	15,970.2	1,264.7	
2014_Q4*	4,543.6	1,760.5	5,512.3	297.4	229.8	3,533.1	14,116.2	1,117.9	
2015_Q1*	4,489.5	1,334.3	4,690.5	259.4	258.7	3,692.1	13,390.2	1,060.4	
2015_Q2*	5,581.0	1,679.9	4,878.8	987.1	268.7	3,969.5	15,685.1	1,242.1	
2015_Q3*	3,852.1	960.2	4,929.7	851.4	294.0	3,771.9	13,699.2	1,084.8	
2015_Q4*	3,208.3	717.5	6,007.0	880.8	361.6	3,923.0	14,380.7	1,138.8	
2016_Q1*	3,405.4	265.5	6,086.4	995.5	311.5	4,105.0	14,903.8	1,180.2	
2016_Q2*	3,740.5	125.6	6,078.5	854.3	317.9	3,623.1	14,614.2	1,157.3	
2016_Q3*	4,896.7	213.9	5,328.0	735.1	333.7	3,894.3	15,187.8	1,202.7	
2016_Q4*	4,788.9	422.0	6,428.9	901.0	341.6	3,542.9	16,003.2	1,267.3	
2017_Q1*	5,817.7	1,057.9	6,536.4	1,027.1	349.5	4,777.5	18,508.1	1,465.7	
2017_Q2*	6,301.8	1,452.0	6,953.0	1,111.5	356.7	4,865.0	19,587.9	1,551.2	
2017_Q3*	6,431.2	2,461.8	6,853.6	1,096.9	353.7	5,040.8	19,776.2	1,566.1	
2017_Q4*	7,366.4	3,474.2	6,517.4	1,154.2	355.3	4,749.5	20,142.8	1,595.1	
2018_Q1*	8,055.8	1,672.2	7,409.9	1,038.4	355.0	4,663.3	21,522.4	1,704.4	
2018_Q2*	9,355.4	2,609.9	7,729.3	1,057.2	344.3	5,226.6	23,712.9	1,877.8	
2018_Q3*	10,006.1	2,461.8	8,565.5	1,011.4	414.2	4,320.7	24,318.0	1,925.7	
2018_Q4*	10,581.3	3,863.9	7,736.0	1,070.8	356.4	5,472.6	25,217.1	1,996.9	
2019_Q1*	11,774.5	2,772.4	8,137.2	1,007.1	328.0	4,961.9	26,208.7	2,075.5	
2019_Q2*	11,974.9	2,772.4	9,292.9	978.0	306.9	5,445.8	27,998.5	2,217.2	
2019_Q3*	12,307.5	3,657.4	9,646.0	1,142.0	442.8	4,951.5	28,489.7	2,256.1	

*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	Low informal
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	626.7	425.8	12,600.6	2248
2013_Q2*	3,762.6	1,023.9	1,818.1	497.3	1,515.3	298.5	381.1	1,026.8	1,027.7	670.0	421.1	12,442.4	2219.8
2013_Q3*	3,189.4	1,199.6	1,645.1	467.7	1,493.9	298.6	397.5	996.2	1,146.4	656.4	371.4	11,862.3	2116.3
2013_Q4*	3,078.5	1,059.8	1,485.7	488.1	1,447.0	319.5	406.4	1,051.8	1,146.9	758.6	360.6	11,602.9	2070
2014_Q1*	2,758.8	1,458.3	2,307.9	629.3	1,601.8	277.8	484.2	1,038.9	1,224.8	662.6	470.2	12,914.5	2304
2014_Q2*	4,440.4	1,739.0	2,103.7	645.0	1,762.2	368.2	504.6	1,203.7	1,303.6	677.6	376.9	15,124.7	2698.3
2014_Q3*	5,025.7	591.0	1,615.7	732.3	1,815.4	340.6	552.8	1,049.9	1,277.8	839.5	451.3	14,292.1	2549.8
2014_Q4*	3,695.8	699.3	1,690.5	775.0	2,015.7	348.3	573.4	1,256.7	1,383.2	928.7	434.1	13,800.7	2462.1
2015_Q1*	4,467.8	1,754.9	2,660.9	883.8	2,269.2	499.0	623.4	1,007.4	1,478.9	894.5	572.8	17,112.6	3053
2015_Q2*	5,406.4	1,408.9	2,090.7	872.4	2,299.6	518.5	696.3	1,241.4	1,693.1	851.1	569.8	17,648.2	3148.5
2015_Q3*	4,937.9	1,332.6	2,518.0	918.9	2,445.9	520.0	685.5	1,512.9	1,361.6	771.2	506.7	17,511.1	3124.1
2015_Q4*	5,648.3	1,284.4	2,680.3	983.1	2,534.9	636.8	659.1	1,475.0	1,745.7	921.1	493.1	19,061.8	3400.7
2016_Q1*	6,628.3	1,655.7	3,164.6	1,088.2	3,094.7	886.9	782.4	1,581.4	1,845.1	959.9	623.0	22,310.2	3980.2
2016_Q2*	7,309.0	1,808.0	3,318.6	1,069.3	3,346.1	675.7	800.5	1,545.3	1,744.1	966.5	623.4	23,206.5	4140.1
2016_Q3*	6,880.2	1,834.6	2,969.8	1,115.2	3,425.7	962.5	691.2	1,566.7	1,630.5	940.7	659.5	22,676.6	4045.6
2016_Q4*	7,073.1	1,962.5	3,664.6	1,032.2	3,652.5	944.8	841.1	1,808.4	1,677.8	1,110.2	719.4	24,486.5	4368.5
2017_Q1*	8,769.0	2,402.8	4,593.8	1,125.7	3,105.3	1,073.2	784.7	1,630.7	1,763.1	979.2	706.5	26,933.9	4805.1
2017_Q2*	8,916.8	2,264.3	4,661.8	1,177.6	3,258.9	1,142.2	1,069.1	2,068.1	2,113.9	1,221.7	699.2	28,593.5	5101.2
2017_Q3*	7,837.0	2,163.6	3,809.4	1,309.1	2,737.2	1,422.9	1,016.8	2,178.8	2,127.1	1,302.6	710.3	26,614.7	4748.2
2017_Q4*	7,860.6	2,423.2	4,044.1	1,428.0	2,916.5	1,924.4	808.3	1,968.4	2,041.5	1,430.5	709.8	27,555.4	4916
2018_Q1*	11,048.1	2,539.1	5,581.7	1,450.6	3,031.6	1,257.5	855.4	2,096.3	1,889.0	1,167.7	697.0	31,613.9	5640.1
2018_Q2*	10,526.9	2,567.3	5,598.2	1,492.7	3,083.6	1,345.8	1,281.0	2,390.3	2,264.7	1,464.6	691.4	32,706.6	5835
2018_Q3*	10,711.5	2,541.1	4,703.5	1,416.8	2,554.3	1,377.9	1,080.3	2,279.7	2,385.8	1,560.8	724.5	31,336.3	5590.5
2018_Q4*	9,980.4	2,932.1	4,974.3	2,430.4	3,083.0	2,131.4	916.6	2,480.9	2,340.8	1,609.4	742.8	33,622.2	5998.3
2019_Q1*	12,016.9	3,176.6	6,329.4	2,199.1	3,497.7	1,637.1	1,060.7	2,542.7	2,556.9	1,499.6	828.8	37,345.4	6662.6
2019_Q2*	13,238.1	2,926.4	6,271.3	2,023.9	3,305.0	1,676.7	1,326.5	2,758.2	2,648.6	1,778.3	762.0	38,715.0	6906.9
2019_Q3*	12,827.6	2,801.8	5,245.3	1,556.4	2,792.9	1,824.2	1,417.6	2,633.9	2,831.7	1,843.2	798.5	36,573.2	6524.8

*Provisional

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

Year Quarter	Quarterly Value Added (GHc Million)				Net indirect Taxes	Total (Oil GDP in purchaser's value)	Low Informal GDP in purchaser's value	Total (Non Oil GDP)***	Year-on-Year change (%)						
	Agriculture	Industry	Services	Total Value Added (GDP @ basic prices)					Agriculture	Industry	Services	Total (Oil GDP)***	Low Informal GDP in purchaser's value	Total (Non-oil GDP)**	
2013_Q1*	5,878.2	10,921.3	12,600.6	29,400.1	1,443.3	30,843.4	8,473.6	29,052.0							
2013_Q2*	5,626.2	10,912.2	12,442.4	28,980.8	1,657.5	30,638.3	8,199.2	28,910.2							
2013_Q3*	6,026.7	10,559.1	11,862.3	28,448.1	1,683.9	30,132.0	8,469.1	28,568.3							
2013_Q4*	7,758.4	10,711.8	11,502.9	29,973.2	2,063.1	32,036.3	10,149.6	30,316.6							
2014_Q1*	6,361.7	9,835.6	12,933.4	29,130.8	1,408.9	30,539.7	9,011.3	28,735.7	8.2	-9.9	2.6	-1.0	6.3	-1.1	
2014_Q2*	5,456.3	11,146.2	13,601.5	30,204.0	1,750.7	31,954.7	8,259.3	30,235.5	-3.0	2.1	9.3	4.3	0.7	4.6	
2014_Q3*	6,038.5	12,096.1	12,520.6	30,655.2	1,864.7	32,519.9	8,693.1	30,690.0	0.2	14.6	5.5	7.9	2.6	7.4	
2014_Q4*	7,671.4	10,521.5	11,961.3	30,154.3	2,080.0	32,234.3	10,102.4	30,321.1	-1.1	-1.8	4.0	0.6	-0.5	0.0	
2015_Q1*	6,838.3	10,675.8	13,466.0	30,980.1	1,526.1	32,506.1	9,603.2	30,633.3	7.5	8.5	4.1	6.4	6.6	6.6	
2015_Q2*	5,574.3	11,720.4	13,267.2	30,561.9	1,770.3	32,332.2	8,385.9	30,515.2	2.2	5.2	-2.5	1.2	1.5	0.9	
2015_Q3*	6,076.9	11,400.7	12,702.3	30,179.8	1,821.8	32,001.6	8,762.6	30,295.3	0.6	-5.7	1.5	-1.6	0.8	-1.3	
2015_Q4*	7,614.0	10,283.9	13,111.1	31,009.0	2,157.0	33,166.0	10,279.9	31,149.7	-0.7	-2.3	9.6	2.9	1.8	2.7	
2016_Q1*	6,863.5	11,242.4	13,825.1	31,931.0	1,588.3	33,519.3	9,744.2	32,100.2	0.4	5.3	2.7	3.1	1.5	4.8	
2016_Q2*	5,758.7	11,023.8	13,675.1	30,457.7	1,835.6	32,293.3	8,571.5	31,555.1	3.3	-5.9	3.1	-0.1	2.2	3.4	
2016_Q3*	6,310.1	12,411.5	13,022.9	31,744.4	1,935.2	33,679.7	9,106.5	31,866.5	3.8	8.9	2.5	5.2	3.9	5.2	
2016_Q4*	7,930.0	11,311.8	13,491.2	32,732.9	2,293.7	35,026.6	10,725.9	32,742.5	4.2	10.0	2.9	5.6	4.3	5.1	
2017_Q1*	7,333.6	12,961.8	14,020.2	34,315.7	1,696.8	36,012.5	10,352.9	33,760.0	6.8	15.3	1.4	7.4	6.2	5.2	
2017_Q2*	5,980.3	13,316.1	14,601.0	33,897.4	1,971.9	35,869.3	9,125.0	33,651.3	3.8	20.8	6.8	11.1	6.5	6.6	
2017_Q3*	6,835.5	14,152.1	13,622.6	34,610.2	1,995.4	36,605.6	9,870.5	33,438.6	8.3	14.0	4.6	8.7	8.4	4.9	
2017_Q4*	8,353.8	12,761.4	13,532.4	34,647.6	2,303.2	36,950.8	11,257.7	33,309.8	5.3	12.8	0.3	5.5	5.0	1.7	
2018_Q1*	7,676.1	14,313.4	14,214.4	36,204.0	1,766.2	37,970.1	10,805.0	35,182.7	4.7	10.4	1.4	5.4	4.4	4.2	
2018_Q2*	6,267.9	14,789.7	14,673.1	35,730.8	2,074.1	37,804.9	9,521.6	35,317.9	4.8	11.1	0.5	5.4	4.3	5.0	
2018_Q3*	7,209.8	15,803.2	14,095.4	37,108.5	2,190.9	39,299.4	10,458.5	36,272.7	5.5	11.7	3.5	7.4	6.0	8.5	
2018_Q4*	8,723.6	13,902.1	14,311.8	36,937.5	2,535.7	39,473.2	11,862.6	36,093.9	4.4	8.9	5.8	6.8	5.4	8.4	
2019_Q1*	7,845.5	15,518.3	15,238.7	38,602.6	1,893.3	40,495.9	11,283.7	37,301.0	2.2	8.4	7.2	6.7	4.4	6.0	
2019_Q2*	6,464.4	15,690.4	15,626.4	37,781.2	2,171.4	39,952.6	9,994.0	36,839.7	3.1	6.1	6.5	5.7	5.0	4.3	
2019_Q3*	7,638.8	16,701.0	14,895.6	39,235.3	2,277.4	41,512.7	11,104.5	37,952.6	5.9	5.7	5.7	5.6	6.2	4.6	

*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	100.9	100.3	-	-	-	-	-	-	-	-
2014_Q1*		128.1	108.3	99.9	112.1	28.1	8.3	-1.0	11.8	28.1	8.3	-0.1	12.1
2014_Q2*		122.2	116.9	111.2	116.8	-4.6	8.0	11.4	4.2	22.2	16.9	11.2	16.8
2014_Q3*		118.6	132.0	114.1	121.6	-2.9	12.9	2.7	4.1	18.6	32.0	14.1	21.6
2014_Q4*		118.7	134.2	115.4	122.7	0.1	1.6	1.1	0.9	18.7	34.2	14.4	22.4
2015_Q1*		137.9	125.4	127.1	130.1	16.2	-6.5	10.1	6.0	7.6	15.9	27.3	16.9
2015_Q2*		139.5	133.8	133.0	135.5	1.2	6.7	4.7	4.1	14.2	14.5	19.6	16.1
2015_Q3*		140.2	120.2	137.9	132.7	0.5	-10.2	3.6	-2.0	18.2	-9.0	20.8	10.0
2015_Q4*		141.8	139.8	145.4	142.3	1.2	16.4	5.5	7.2	19.5	4.2	26.0	16.6
2016_Q1*		171.6	132.6	161.4	155.2	21.0	-5.2	11.0	9.0	24.4	5.7	27.0	19.0
2016_Q2*		163.4	132.6	169.7	155.2	-4.7	0.0	5.2	0.0	17.1	-0.9	27.6	14.6
2016_Q3*		166.7	122.4	174.1	154.4	2.0	-7.7	2.6	-0.5	18.9	1.8	26.3	15.7
2016_Q4*		169.1	141.5	181.5	164.0	1.5	15.6	4.2	6.2	19.2	1.2	24.8	15.1
2017_Q1*		179.3	142.8	192.1	171.4	6.0	0.9	5.8	4.5	4.5	7.7	19.0	10.4
2017_Q2*		171.1	147.1	195.8	171.3	-4.6	3.0	1.9	0.0	4.7	11.0	15.4	10.3
2017_Q3*		178.7	139.7	195.4	171.3	4.4	-5.0	-0.2	0.0	7.2	14.2	12.2	11.2
2017_Q4*		179.1	157.8	203.6	180.2	0.2	13.0	4.2	5.2	5.9	11.6	12.2	9.9
2018_Q1*		189.9	150.4	222.4	187.6	6.0	-4.7	9.2	4.1	5.9	5.3	15.8	9.0
2018_Q2*		177.5	160.3	222.9	186.9	-6.5	6.6	0.2	-0.3	3.8	9.0	13.8	8.9
2018_Q3*		183.1	153.9	222.3	186.4	3.1	-4.0	-0.3	-0.3	2.5	10.1	13.8	8.8
2018_Q4*		183.6	181.4	234.9	200.0	0.3	17.9	5.7	7.3	2.5	14.9	15.4	10.9
2019_Q1*		198.4	168.9	245.1	204.1	8.1	-6.9	4.3	2.1	4.5	12.3	10.2	9.0
2019_Q2*		186.9	178.4	247.8	204.4	-5.8	5.7	1.1	0.1	5.3	11.3	11.1	9.2
2019_Q3*		193.3	170.6	245.5	203.1	3.4	-4.4	-0.9	-0.6	5.6	10.9	10.4	9.0

*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*	4,622.4	597.2	309.2	517.4	429.2	5,878.2	5,360.8
2013_Q2*	3,595.2	198.6	1,066.8	510.9	453.2	5,626.2	5,115.3
2013_Q3*	4,069.8	396.0	992.9	510.1	453.9	6,026.7	5,516.6
2013_Q4*	4,774.3	788.4	1,985.1	509.2	489.8	7,758.4	7,249.2
2014_Q1*	4,742.5	636.0	794.4	436.7	388.2	6,361.7	5,925.1
2014_Q2*	3,694.2	210.1	891.2	506.3	364.7	5,456.3	4,950.1
2014_Q3*	4,171.8	413.9	984.9	537.0	344.7	6,038.5	5,501.5
2014_Q4*	4,926.7	805.5	1,905.4	536.2	303.1	7,671.4	7,135.2
2015_Q1*	4,764.1	597.5	1,222.7	482.8	368.6	6,838.3	6,355.4
2015_Q2*	3,727.4	192.4	999.3	483.5	364.1	5,574.3	5,090.8
2015_Q3*	4,270.2	374.0	929.2	483.2	394.3	6,076.9	5,593.7
2015_Q4*	5,068.3	737.2	1,664.9	487.6	393.2	7,614.0	7,126.4
2016_Q1*	4,865.8	516.5	1,180.9	476.1	340.7	6,863.5	6,387.4
2016_Q2*	3,840.6	174.8	1,038.3	499.9	379.9	5,758.7	5,258.8
2016_Q3*	4,373.5	355.1	1,012.4	509.8	414.4	6,310.1	5,800.3
2016_Q4*	5,148.5	721.2	1,842.4	506.7	432.3	7,930.0	7,423.2
2017_Q1*	5,240.2	569.8	1,278.1	508.4	306.9	7,333.6	6,825.2
2017_Q2*	4,106.8	192.1	1,105.1	514.7	253.7	5,980.3	5,465.6
2017_Q3*	4,682.9	387.8	1,064.8	516.0	571.8	6,835.5	6,319.5
2017_Q4*	5,505.7	780.4	1,913.6	520.8	413.6	8,353.8	7,832.9
2018_Q1*	5,509.4	591.0	1,347.6	540.5	278.6	7,676.1	7,135.7
2018_Q2*	4,304.6	199.2	1,167.4	535.2	260.6	6,267.9	5,732.7
2018_Q3*	4,999.7	402.2	1,125.4	517.4	567.4	7,209.8	6,692.4
2018_Q4*	5,864.2	809.5	2,009.5	515.2	334.7	8,723.6	8,208.4
2019_Q1*	5,640.5	623.8	1,421.3	509.4	274.4	7,845.5	7,336.2
2019_Q2*	4,474.8	210.3	1,233.7	500.7	255.2	6,464.4	5,963.7
2019_Q3*	5,365.4	423.7	1,189.8	514.3	569.3	7,638.8	7,124.5

*Provisional

Appendix 8 - Agriculture: quarterly value added at constant 2013 prices by economic activity (quarter-on-quarter change)

Year	Quarter	Quarter-on-Quarter Change (%)						ow informal
		Crops & Cocoa	<i>o.w. Cocoa</i>	Livestock	Forestry & Logging	Fishing	Total Value Added	
2013_Q2*		-22.2	-66.7	245.0	-1.2	5.6	-4.3	-4.6
2013_Q3*		13.2	99.4	-6.9	-0.2	0.2	7.1	7.8
2013_Q4*		17.3	99.1	99.9	-0.2	7.9	28.7	31.4
2014_Q1*		-0.7	-19.3	-60.0	-14.3	-20.7	-18.0	-18.3
2014_Q2*		-22.1	-67.0	12.2	15.9	-6.0	-14.2	-16.5
2014_Q3*		12.9	97.0	10.5	6.1	-5.5	10.7	11.1
2014_Q4*		18.1	94.6	93.5	-0.1	-12.1	27.0	29.7
2015_Q1*		-3.3	-25.8	-35.8	-10.0	21.6	-10.9	-10.9
2015_Q2*		-21.8	-67.8	-18.3	0.1	-1.2	-18.5	-19.9
2015_Q3*		14.6	94.4	-7.0	0.0	8.3	9.0	9.9
2015_Q4*		18.7	97.1	79.2	0.9	-0.3	25.3	27.4
2016_Q1*		-4.0	-29.9	-29.1	-2.4	-13.3	-9.9	-10.4
2016_Q2*		-21.1	-66.2	-12.1	5.0	11.5	-16.1	-17.7
2016_Q3*		13.9	103.1	-2.5	2.0	9.1	9.6	10.3
2016_Q4*		17.7	103.1	82.0	-0.6	4.3	25.7	28.0
2017_Q1*		1.8	-21.0	-30.6	0.3	-29.0	-7.5	-8.1
2017_Q2*		-21.6	-66.3	-13.5	1.2	-17.3	-18.5	-19.9
2017_Q3*		14.0	101.9	-3.7	0.3	125.4	14.3	15.6
2017_Q4*		17.6	101.3	79.7	0.9	-27.7	22.2	23.9
2018_Q1*		0.1	-24.3	-29.6	3.8	-32.6	-8.1	-8.9
2018_Q2*		-21.9	-66.3	-13.4	-1.0	-6.5	-18.3	-19.7
2018_Q3*		16.1	101.9	-3.6	-3.3	117.7	15.0	16.7
2018_Q4*		17.3	101.3	78.6	-0.4	-41.0	21.0	22.7
2019_Q1*		-3.8	-22.9	-29.3	-1.1	-18.0	-10.1	-10.6
2019_Q2*		-20.7	-66.3	-13.2	-1.7	-7.0	-17.6	-18.7
2019_Q3*		19.9	101.5	-3.6	2.7	123.1	18.2	19.5

*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*		2.6	6.5	156.9	-15.6	-9.6	8.2	10.5	
2014_Q2*		2.8	5.8	-16.5	-0.9	-19.5	-3.0	-3.2	
2014_Q3*		2.5	4.5	-0.8	5.3	-24.1	0.2	-0.3	
2014_Q4*		3.2	2.2	-4.0	5.3	-38.1	-1.1	-1.6	
2015_Q1*		0.5	-6.1	53.9	10.6	-5.0	7.5	7.3	
2015_Q2*		0.9	-8.4	12.1	-4.5	-0.2	2.2	2.8	
2015_Q3*		2.4	-9.6	-5.7	-10.0	14.4	0.6	1.7	
2015_Q4*		2.9	-8.5	-12.6	-9.1	29.7	-0.7	-0.1	
2016_Q1*		2.1	-13.6	-3.4	-1.4	-7.6	0.4	0.5	
2016_Q2*		3.0	-9.1	3.9	3.4	4.3	3.3	3.3	
2016_Q3*		2.4	-5.1	8.9	5.5	5.1	3.8	3.7	
2016_Q4*		1.6	-2.2	10.7	3.9	9.9	4.2	4.2	
2017_Q1*		7.7	10.3	8.2	6.8	-9.9	6.8	6.9	
2017_Q2*		6.9	9.9	6.4	3.0	-33.2	3.8	3.9	
2017_Q3*		7.1	9.2	5.2	1.2	38.0	8.3	9.0	
2017_Q4*		6.9	8.2	3.9	2.8	-4.3	5.3	5.5	
2018_Q1*		5.1	3.7	5.4	6.3	-9.2	4.7	4.5	
2018_Q2*		4.8	3.7	5.6	4.0	2.7	4.8	4.9	
2018_Q3*		6.8	3.7	5.7	0.3	-0.8	5.5	5.9	
2018_Q4*		6.5	3.7	5.0	-1.1	-19.1	4.4	4.8	
2019_Q1*		2.4	5.6	5.5	-5.8	-1.5	2.2	2.8	
2019_Q2*		4.0	5.6	5.7	-6.5	-2.1	3.1	4.0	
2019_Q3*		7.3	5.4	5.7	-0.6	0.4	5.9	6.5	

*Provisional

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	ow Informal
2013_Q1*	4,170.5	1,818.8	3,700.2	318.6	148.3	2,583.6	10,921.3	864.9
2013_Q2*	3,873.6	1,743.7	3,814.3	323.3	152.4	2,748.6	10,912.2	864.1
2013_Q3*	3,510.3	1,558.1	3,802.4	319.7	156.1	2,770.6	10,559.1	836.2
2013_Q4*	4,378.8	1,682.2	3,205.8	365.4	223.5	2,538.3	10,711.8	848.3
2014_Q1*	4,411.2	1,804.0	2,676.3	264.2	172.8	2,311.1	9,835.6	778.9
2014_Q2*	4,582.1	1,719.2	3,837.7	327.7	181.6	2,217.1	11,146.2	882.7
2014_Q3*	4,794.2	1,829.9	3,687.1	364.2	183.0	3,067.7	12,096.1	957.9
2014_Q4*	3,002.0	1,913.2	3,948.7	388.1	183.4	2,999.4	10,521.5	833.2
2015_Q1*	4,236.1	1,872.8	3,405.9	373.7	208.7	2,451.4	10,675.8	845.4
2015_Q2*	4,463.3	1,817.0	3,742.7	406.2	208.8	2,899.5	11,720.4	928.1
2015_Q3*	3,821.8	1,706.2	3,672.1	384.2	201.0	3,321.6	11,400.7	902.8
2015_Q4*	2,882.0	2,016.3	3,847.0	417.7	202.8	2,934.4	10,283.9	814.4
2016_Q1*	3,613.3	1,419.1	3,618.0	411.1	196.5	3,403.5	11,242.4	890.3
2016_Q2*	3,364.4	738.2	4,096.0	368.5	177.7	3,017.3	11,023.8	873.0
2016_Q3*	4,806.5	1,813.2	3,870.0	322.6	175.3	3,237.1	12,411.5	982.9
2016_Q4*	3,582.3	2,284.1	4,245.2	388.5	174.8	2,921.1	11,311.8	895.8
2017_Q1*	4,612.2	2,252.5	4,374.4	427.7	184.9	3,362.7	12,961.8	1,026.4
2017_Q2*	5,099.5	2,218.0	4,374.5	452.1	191.2	3,198.8	13,316.1	1,054.5
2017_Q3*	5,512.0	3,167.0	4,448.3	440.2	194.6	3,557.0	14,152.1	1,120.7
2017_Q4*	4,868.3	3,641.0	4,138.3	460.2	197.5	3,097.1	12,761.4	1,010.6
2018_Q1*	5,748.7	2,787.4	4,610.3	432.0	187.8	3,334.6	14,313.4	1,133.5
2018_Q2*	6,357.5	2,487.0	4,490.8	492.6	184.6	3,264.2	14,789.7	1,171.2
2018_Q3*	6,829.1	3,026.7	4,736.6	465.0	185.2	3,587.4	15,803.2	1,251.5
2018_Q4*	5,840.2	3,379.3	4,216.3	489.1	183.1	3,173.4	13,902.1	1,100.9
2019_Q1*	6,949.0	3,194.9	4,869.6	479.9	175.8	3,044.0	15,518.3	1,228.9
2019_Q2*	7,247.5	3,112.9	4,823.6	455.7	170.0	2,993.5	15,690.4	1,242.5
2019_Q3*	7,410.5	3,560.2	4,953.4	515.1	182.7	3,639.3	16,701.0	1,322.5
<i>*Provisional</i>								

Appendix 11 - Industry: quarterly value added at constant 2013 prices by economic activity (quarter-on-qua

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*	-7.1	-4.1	3.1	1.5	2.7	6.4	-0.1	-0.1
2013_Q3*	-9.4	-10.6	-0.3	-1.1	2.4	0.8	-3.2	-3.2
2013_Q4*	24.7	8.0	-15.7	14.3	43.2	-8.4	1.4	1.4
2014_Q1*	0.7	7.2	-16.5	-27.7	-22.7	-9.0	-8.2	-8.2
2014_Q2*	3.9	-4.7	43.4	24.0	5.1	-4.1	13.3	13.3
2014_Q3*	4.6	6.4	-3.9	11.1	0.8	38.4	8.5	8.5
2014_Q4*	-37.4	4.6	7.1	6.5	0.2	-2.2	-13.0	-13.0
2015_Q1*	41.1	-2.1	-13.7	-3.7	13.8	-18.3	1.5	1.5
2015_Q2*	5.4	-3.0	9.9	8.7	0.0	18.3	9.8	9.8
2015_Q3*	-14.4	-6.1	-1.9	-5.4	-3.7	14.6	-2.7	-2.7
2015_Q4*	-24.6	18.2	4.8	8.7	0.9	-11.7	-9.8	-9.8
2016_Q1*	25.4	-29.6	-6.0	-1.6	-3.1	16.0	9.3	9.3
2016_Q2*	-6.9	-48.0	13.2	-10.4	-9.6	-11.3	-1.9	-1.9
2016_Q3*	42.9	145.6	-5.5	-12.4	-1.3	7.3	12.6	12.6
2016_Q4*	-25.5	26.0	9.7	20.4	-0.3	-9.8	-8.9	-8.9
2017_Q1*	28.7	-1.4	3.0	10.1	5.8	15.1	14.6	14.6
2017_Q2*	10.6	-1.5	0.0	5.7	3.4	-4.9	2.7	2.7
2017_Q3*	8.1	42.8	1.7	-2.6	1.8	11.2	6.3	6.3
2017_Q4*	-11.7	15.0	-7.0	4.5	1.5	-12.9	-9.8	-9.8
2018_Q1*	18.1	-23.4	11.4	-6.1	-4.9	7.7	12.2	12.2
2018_Q2*	10.6	-10.8	-2.6	14.0	-1.7	-2.1	3.3	3.3
2018_Q3*	7.4	21.7	5.5	-5.6	0.3	9.9	6.9	6.9
2018_Q4*	-14.5	11.7	-11.0	5.2	-1.1	-11.5	-12.0	-12.0
2019_Q1*	19.0	-5.5	15.5	-1.9	-4.0	-4.1	11.6	11.6
2019_Q2*	4.3	-2.6	-0.9	-5.0	-3.3	-1.7	1.1	1.1
2019_Q3*	2.2	14.4	2.7	13.0	7.4	21.6	6.4	6.4

*Provisional

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

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*	5.8	-0.8	-27.7	-17.1	16.5	-10.5	-9.9	-9.9
2014_Q2*	18.3	-1.4	0.6	1.4	19.1	-19.3	2.1	2.1
2014_Q3*	36.6	17.4	-3.0	13.9	17.2	10.7	14.6	14.6
2014_Q4*	-31.4	13.7	23.2	6.2	-18.0	18.2	-1.8	-1.8
2015_Q1*	-4.0	3.8	27.3	41.4	20.7	6.1	8.5	8.5
2015_Q2*	-2.6	5.7	-2.5	24.0	15.0	30.8	5.2	5.2
2015_Q3*	-20.3	-6.8	-0.4	5.5	9.8	8.3	-5.7	-5.7
2015_Q4*	-4.0	5.4	-2.6	7.6	10.6	-2.2	-2.3	-2.3
2016_Q1*	-14.7	-24.2	6.2	10.0	-5.8	38.8	5.3	5.3
2016_Q2*	-24.6	-59.4	9.4	-9.3	-14.9	4.1	-5.9	-5.9
2016_Q3*	25.8	6.3	5.4	-16.0	-12.8	-2.5	8.9	8.9
2016_Q4*	24.3	13.3	10.4	-7.0	-13.8	-0.5	10.0	10.0
2017_Q1*	27.6	58.7	20.9	4.0	-5.9	-1.2	15.3	15.3
2017_Q2*	51.6	200.5	6.8	22.7	7.6	6.0	20.8	20.8
2017_Q3*	14.7	74.7	14.9	36.4	11.0	9.9	14.0	14.0
2017_Q4*	35.9	59.4	-2.5	18.5	13.0	6.0	12.8	12.8
2018_Q1*	24.6	23.7	5.4	1.0	1.6	-0.8	10.4	10.4
2018_Q2*	24.7	12.1	2.7	9.0	-3.5	2.0	11.1	11.1
2018_Q3*	23.9	-4.4	6.5	5.6	-4.9	0.9	11.7	11.7
2018_Q4*	20.0	-7.2	1.9	6.3	-7.3	2.5	8.9	8.9
2019_Q1*	20.9	14.6	5.6	11.1	-6.4	-8.7	8.4	8.4
2019_Q2*	14.0	25.2	7.4	-7.5	-7.9	-8.3	6.1	6.1
2019_Q3*	8.5	17.6	4.6	10.8	-1.3	1.4	5.7	5.7

*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*	3,087.1	1,293.3	2,030.3	422.9	1,497.0	228.6	427.3	1,189.7	1,372.0	626.7	425.8	12,600.6	2,248.0
2013_Q2*	3,762.6	1,023.9	1,818.1	497.3	1,515.3	298.5	381.1	1,026.8	1,027.7	670.0	421.1	12,442.4	2,219.8
2013_Q3*	3,189.4	1,199.6	1,645.1	467.7	1,493.9	298.6	397.5	996.2	1,146.4	656.4	371.4	11,862.3	2,116.3
2013_Q4*	3,078.5	1,059.8	1,485.7	488.1	1,447.0	319.5	406.4	1,051.8	1,146.9	658.6	360.6	11,502.9	2,052.2
2014_Q1*	3,529.5	1,226.5	2,143.3	591.9	1,484.6	253.9	385.2	1,112.9	1,139.4	636.0	430.2	12,933.4	2,307.4
2014_Q2*	3,682.7	1,381.6	2,141.0	576.7	1,756.7	325.5	400.3	1,162.9	1,193.4	613.9	366.8	13,601.5	2,426.6
2014_Q3*	3,344.8	1,080.3	1,627.4	632.4	1,881.6	292.7	471.9	901.9	1,160.3	712.2	415.2	12,520.6	2,233.7
2014_Q4*	2,828.8	957.9	1,471.8	631.4	2,103.3	270.1	464.6	937.5	1,186.1	720.4	389.4	11,961.3	2,134.0
2015_Q1*	3,158.0	1,249.6	2,217.8	692.7	2,231.9	354.9	428.9	890.0	1,110.8	662.5	469.1	13,466.0	2,402.4
2015_Q2*	3,434.0	1,279.7	1,792.0	662.4	2,020.9	303.0	467.9	1,015.0	1,252.4	596.0	443.9	13,267.2	2,366.9
2015_Q3*	3,172.3	1,240.1	1,746.0	674.4	2,013.3	267.2	445.7	1,116.5	1,032.9	617.8	376.0	12,702.3	2,266.1
2015_Q4*	3,689.4	1,065.5	1,821.4	693.7	1,892.9	252.5	403.8	988.1	1,261.8	687.0	355.1	13,111.1	2,339.1
2016_Q1*	3,278.2	1,216.6	2,062.2	753.0	2,145.9	346.0	446.8	1,249.8	1,303.3	606.3	417.0	13,825.1	2,466.5
2016_Q2*	3,509.3	1,267.9	1,962.8	722.8	2,169.7	247.0	434.1	1,080.6	1,205.0	662.7	413.1	13,675.1	2,439.7
2016_Q3*	3,251.0	1,236.9	1,716.9	734.4	2,180.2	319.1	383.1	997.6	1,115.2	695.5	393.1	13,022.9	2,323.3
2016_Q4*	3,354.7	1,224.5	1,921.8	664.3	2,315.6	302.6	408.6	1,037.0	1,141.1	701.6	419.4	13,491.2	2,406.9
2017_Q1*	3,627.8	1,296.9	2,379.5	688.9	1,905.7	312.4	391.6	1,122.8	1,141.3	722.2	431.0	14,020.2	2,501.3
2017_Q2*	3,916.5	1,315.8	2,222.3	703.6	1,982.8	314.7	474.2	1,209.6	1,339.4	708.7	413.4	14,601.0	2,604.9
2017_Q3*	3,570.9	1,326.5	1,856.6	771.6	1,625.3	379.3	434.0	1,191.7	1,326.4	727.4	413.1	13,622.6	2,430.3
2017_Q4*	3,376.8	1,384.8	1,891.1	830.6	1,737.4	254.8	420.9	1,022.9	1,257.4	883.3	472.4	13,532.4	2,414.2
2018_Q1*	3,691.6	1,323.4	2,355.2	801.0	1,683.9	304.1	369.2	1,169.0	1,187.5	901.5	427.8	14,214.4	2,535.9
2018_Q2*	3,856.3	1,371.8	2,198.1	806.1	1,716.4	312.1	446.4	1,260.0	1,366.1	898.6	441.2	14,673.1	2,617.8
2018_Q3*	3,675.2	1,398.3	1,936.5	847.7	1,482.2	316.1	465.3	1,215.9	1,402.4	933.8	422.1	14,095.4	2,514.7
2018_Q4*	3,668.9	1,400.6	1,951.9	932.8	1,773.8	246.9	444.5	1,097.4	1,307.9	993.7	493.2	14,311.8	2,553.3
2019_Q1*	3,797.4	1,436.6	2,428.2	1,097.3	1,719.6	331.9	394.2	1,206.1	1,288.7	1,100.4	438.3	15,238.7	2,718.7
2019_Q2*	3,932.9	1,462.9	2,279.5	1,231.4	1,740.6	358.6	472.9	1,224.9	1,487.1	991.5	444.0	15,626.4	2,787.8
2019_Q3*	3,765.7	1,439.7	2,036.0	1,073.1	1,497.9	385.9	469.4	1,289.7	1,535.5	976.1	426.5	14,895.6	2,657.4

*Provisional

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*	21.9	-20.8	-10.5	17.6	1.2	30.6	-10.8	-13.7	-25.1	6.9	-1.1	-1.3	-1.3
2013_Q3*	-15.2	17.2	-9.5	-5.9	-1.4	0.0	4.3	-3.0	11.5	-2.0	-11.8	-4.7	-4.7
2013_Q4*	-3.5	-11.7	-9.7	4.4	-3.1	7.0	2.2	5.6	0.0	0.3	-2.9	-3.0	-3.0
2014_Q1*	14.6	15.7	44.3	21.3	2.6	-20.5	-5.2	5.8	-0.7	-3.4	19.3	12.4	12.4
2014_Q2*	4.3	12.6	-0.1	-2.6	18.3	28.2	3.9	4.5	4.7	-3.5	-14.7	5.2	5.2
2014_Q3*	-9.2	-21.8	-24.0	9.7	7.1	-10.1	17.9	-22.4	-2.8	16.0	13.2	-7.9	-7.9
2014_Q4*	-15.4	-11.3	-9.6	-0.1	11.8	-7.7	-1.6	3.9	2.2	1.2	-6.2	-4.5	-4.5
2015_Q1*	11.6	30.5	50.7	9.7	6.1	31.4	-7.7	-5.1	-6.4	-8.0	20.5	12.6	12.6
2015_Q2*	8.7	2.4	-19.2	-4.4	-9.5	-14.6	9.1	14.1	12.8	-10.0	-5.4	-1.5	-1.5
2015_Q3*	-7.6	-3.1	-2.6	1.8	-0.4	-11.8	-4.7	10.0	-17.5	3.7	-15.3	-4.3	-4.3
2015_Q4*	16.3	-14.1	4.3	2.9	-6.0	-5.5	-9.4	-11.5	22.2	11.2	-5.6	3.2	3.2
2016_Q1*	-11.1	14.2	13.2	8.6	13.4	37.1	10.6	26.5	3.3	-11.7	17.4	5.4	5.4
2016_Q2*	7.0	4.2	-4.8	-4.0	1.1	-28.6	-2.8	-13.5	-7.5	9.3	-0.9	-1.1	-1.1
2016_Q3*	-7.4	-2.4	-12.5	1.6	0.5	29.2	-11.7	-7.7	-7.5	4.9	-4.8	-4.8	-4.8
2016_Q4*	3.2	-1.0	11.9	-9.5	6.2	-5.2	6.7	4.0	2.3	0.9	6.7	3.6	3.6
2017_Q1*	8.1	5.9	23.8	3.7	-17.7	3.2	-4.2	8.3	0.0	2.9	2.8	3.9	3.9
2017_Q2*	8.0	1.5	-6.6	2.1	4.0	0.7	21.1	7.7	17.4	-1.9	-4.1	4.1	4.1
2017_Q3*	-8.8	0.8	-16.5	9.7	-18.0	20.5	-8.5	-1.5	-1.0	2.6	-0.1	-6.7	-6.7
2017_Q4*	-5.4	4.4	1.9	7.7	6.9	-32.8	-3.0	-14.2	-5.2	21.4	14.4	-0.7	-0.7
2018_Q1*	9.3	-4.4	24.5	-3.6	-3.1	19.3	-12.3	14.3	-5.6	2.1	-9.5	5.0	5.0
2018_Q2*	4.5	3.7	-6.7	0.6	1.9	2.6	20.9	7.8	15.0	-0.3	3.1	3.2	3.2
2018_Q3*	-4.7	1.9	-11.9	5.2	-13.6	1.3	4.2	-3.5	2.7	3.9	-4.3	-3.9	-3.9
2018_Q4*	-0.2	0.2	0.8	10.0	19.7	-21.9	-4.5	-9.7	-6.7	6.4	16.8	1.5	1.5
2019_Q1*	3.5	2.6	24.4	17.6	-3.1	34.4	-11.3	9.9	-1.5	10.7	-11.1	6.5	6.5
2019_Q2*	3.6	1.8	-6.1	12.2	1.2	8.0	20.0	1.6	15.4	-9.9	1.3	2.5	2.5
2019_Q3*	-4.3	-1.6	-10.7	-12.9	-13.9	7.6	-0.7	5.3	3.3	-1.6	-3.9	-4.7	-4.7

* 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	ow Informal
2014_Q1*	14.3	-5.2	5.6	40.0	-0.8	11.0	-9.9	-6.5	-17.0	1.5	1.0	2.6	2.6
2014_Q2*	-2.1	34.9	17.8	16.0	15.9	9.1	5.0	13.3	16.1	-8.4	-12.9	9.3	9.3
2014_Q3*	4.9	-9.9	-1.1	35.2	26.0	-2.0	18.7	-9.5	1.2	8.5	11.8	5.5	5.5
2014_Q4*	-8.1	-9.6	-0.9	29.4	45.4	-15.4	14.3	-10.9	3.4	9.4	8.0	4.0	4.0
2015_Q1*	-10.5	1.9	3.5	17.0	50.3	39.8	11.3	-20.0	-2.5	4.2	9.0	4.1	4.1
2015_Q2*	-6.8	-7.4	-16.3	14.9	15.0	-6.9	16.9	-12.7	4.9	-2.9	21.0	-2.5	-2.5
2015_Q3*	-5.2	14.8	7.3	6.6	7.0	-8.7	-5.6	23.8	-11.0	-13.2	-9.4	1.5	1.5
2015_Q4*	30.4	11.2	23.8	9.9	-10.0	-6.5	-13.1	5.4	6.4	-4.6	-8.8	9.6	9.6
2016_Q1*	3.8	-2.6	-7.0	8.7	-3.9	-2.5	4.2	40.4	17.3	-8.5	-11.1	2.7	2.7
2016_Q2*	2.2	-0.9	9.5	9.1	7.4	-18.5	-7.2	6.5	-3.8	11.2	-6.9	3.1	3.1
2016_Q3*	2.5	-0.3	-1.7	8.9	8.3	19.4	-14.1	-10.7	8.0	12.6	4.5	2.5	2.5
2016_Q4*	-9.1	14.9	5.5	-4.2	22.3	19.9	1.2	4.9	-9.6	2.1	18.1	2.9	2.9
2017_Q1*	10.7	6.6	15.4	-8.5	-11.2	-9.7	-12.3	-10.2	-12.4	19.1	3.4	1.4	1.4
2017_Q2*	11.6	3.8	13.2	-2.7	-8.6	27.4	9.3	11.9	11.2	6.9	0.1	6.8	6.8
2017_Q3*	9.8	7.2	8.1	5.1	-25.5	18.9	13.3	19.5	18.9	4.6	5.1	4.6	4.6
2017_Q4*	0.7	13.1	-1.6	25.0	-25.0	-15.8	3.0	-1.4	10.2	25.9	12.6	0.3	0.3
2018_Q1*	1.8	2.0	-1.0	16.3	-11.6	-2.7	-5.7	4.1	4.0	24.8	-0.7	1.4	1.4
2018_Q2*	-1.5	4.3	-1.1	14.6	-13.4	-0.8	-5.9	4.2	2.0	26.8	6.7	0.5	0.5
2018_Q3*	2.9	5.4	4.3	9.9	-8.8	-16.7	7.2	2.0	5.7	28.4	2.2	3.5	3.5
2018_Q4*	8.6	1.1	3.2	12.3	2.1	-3.1	5.6	7.3	4.0	12.5	4.4	5.8	5.8
2019_Q1*	2.9	8.6	3.1	37.0	2.1	9.1	6.8	3.2	8.5	22.1	2.5	7.2	7.2
2019_Q2*	2.0	6.6	3.7	52.8	1.4	14.9	5.9	-2.8	8.9	10.3	0.6	6.5	6.5
2019_Q3*	2.5	3.0	5.1	26.6	1.1	22.1	0.9	6.1	9.5	4.5	1.0	5.7	5.7

**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	1,935.9	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*	7,511.7	15,003.3	14,579.8	37,094.8	2,173.5	39,268.4	10,781.6	0.6	2.0	1.8	1.6	1.1
2019_Q2*	7,560.8	15,228.5	14,818.1	37,607.4	2,197.8	39,805.3	10,899.7	0.7	1.5	1.6	1.4	1.1
2019_Q3*	7,668.1	15,452.9	15,018.1	38,139.1	2,219.5	40,358.6	11,061.2	1.4	1.5	1.3	1.4	1.5

*Provisional

Appendix 17 - Agriculture: Seasonally adjusted value added by activity								
Year	Quarter	Quarterly Value Added (GHc Million)					Total Value Added	ow informal
		Crops & Cocoa	Livestock	Forestry & Logging	Fishing			
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*		5,202.2	1,430.9	519.3	359.3	7,511.7	6,992.4	
2019_Q2*		5,244.8	1,447.5	510.7	357.9	7,560.8	7,050.1	
2019_Q3*		5,336.2	1,463.6	509.9	358.4	7,668.1	7,158.2	

*Provisional

Appendix 18 - Agriculture: Seasonally adjusted value added by activity

Year	Quarter	Quarter-on-Quarter Change (%)					ow informal
		Crops & Cocoa	Livestock	Forestry & Logging	Fishing	Total Value Added	
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*		0.6	1.3	-1.5	-0.3	0.6	0.7
2019_Q2*		0.8	1.2	-1.7	-0.4	0.7	0.8
2019_Q3*		1.7	1.1	-0.2	0.1	1.4	1.5

*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*	5.1	5.4	-0.7	-5.3	4.2	4.5
2019	Q2*	4.9	5.4	-3.3	-6.1	3.8	4.4
2019	Q3*	5.0	5.4	-3.5	-5.7	3.9	4.5

*Provisional

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	ow 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*	6,493.9	4,578.3	481.7	182.2	3,267.3	15,003.3	1,188.1
2019_Q2*	6,716.4	4,661.5	472.4	178.5	3,199.6	15,228.5	1,205.9
2019_Q3*	6,861.8	4,715.7	485.0	177.9	3,212.5	15,452.9	1,223.7
<i>*Provisional</i>							

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*	4.8	1.4	2.6	-1.6	-2.2	2.0	2.0
2019_Q2*	3.4	1.8	-1.9	-2.0	-2.1	1.5	1.5
2019_Q3*	2.2	1.2	2.7	-0.3	0.4	1.5	1.5

*Provisional

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*	22.4	4.2	8.0	-5.5	-0.9	10.0	10.0
2019_Q2*	19.5	5.4	3.5	-6.6	-3.4	8.7	8.7
2019_Q3*	15.3	4.9	4.9	-5.7	-3.3	7.2	7.2

*Provisional

Appendix 23- Services: Seasonally adjusted value added by 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*	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*	3,749.5	1,401.8	2,128.7	921.0	1,673.0	301.8	437.6	1,194.9	1,341.3	981.6	448.7	14,579.8	2,601.1
2019_Q2*	3,768.6	1,424.6	2,149.0	1,027.3	1,679.0	313.4	444.2	1,186.1	1,371.5	1,004.8	449.4	14,818.1	2,643.6
2019_Q3*	3,791.2	1,435.0	2,173.9	1,083.7	1,683.0	330.8	445.3	1,204.6	1,404.8	1,015.4	450.5	15,018.1	2,679.3

*Provisional

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*	0.7	2.1	0.9	8.7	0.5	2.4	1.4	0.8	1.9	5.3	0.6	1.8	1.8
2019_Q2*	0.5	1.6	1.0	11.5	0.4	3.8	1.5	-0.7	2.3	2.4	0.2	1.6	1.6
2019_Q3*	0.6	0.7	1.2	5.5	0.2	5.6	0.2	1.6	2.4	1.1	0.2	1.3	1.3

*Provisional

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*	3.0	4.8	2.3	18.6	-4.8	-3.7	3.1	4.1	5.0	21.9	3.9	4.2	4.2
2019_Q2*	4.0	5.4	3.6	28.0	-0.7	0.3	6.4	2.2	6.8	17.8	2.5	5.8	5.8
2019_Q3*	3.9	4.8	3.8	31.9	1.7	11.5	4.7	3.2	7.8	12.3	2.2	6.3	6.3

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