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Statistics for Development and Progress

Quarterly GDP Bulletin

(Quarterly Gross Domestic Product (2009-2017

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Ghana Statistical Service (GSS)

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Introduction

This bulletin contains the final quarterly Gross Domestic Product (GDP) estimates from 2009 to 2015 and revised estimates for the first and second quarters of 2017. The third quarter 2017 GDP estimates are provisional.

Gross Domestic Product (GDP) is Ghana's official measure of economic growth.

There are three different approaches for calculating GDP. These are the production, expenditure and the income approaches. The quarterly GDP figures in this publication are estimated through the production approach.

The bulletin contains 24 Tables: Tables 1 to 4, Quarterly GDP at Current Prices by Economic Activity and respective Sectoral Distribution; Tables 5 to 14, Quarterly GDP at Constant 2006 prices by Economic Activity and Sectoral Growth rates; and Tables 15 to 24 Seasonally Adjusted Quarterly GDP at Constant 2006 Prices by Economic Activity and Sectoral growth rates.

Additional information on Ghana's GDP and national accounts are published on the Ghana Statistical Service website (www.statsghana.gov.gh).

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Forthcoming issues

Issue	Expected Date of Publication
Fourth Quarter Of 2017	April 25, 2018
First Quarter of 2018	June 27, 2018
Second Quarter of 2018	September 26, 2017
Third Quarter of 2018	December 19, 2018

Explanatory notes

Introduction

This publication contains revised quarterly GDP estimates for the first and second quarters of 2017, and provisional GDP for the third quarter of 2017. GDP estimates for the period 2006 to 2015 are finalized.

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. 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 2006 onwards. The estimates are based on the 1993 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 2006 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	***FISIM	Total Value Added (GDP @ basic prices)	Net Indirect Taxes	Total (GDP in purchaser's value)	Total Non-Oil (GDP in purchaser's value)	Agriculture	Industry	Services	Total Value Added (GDP @ basic prices)
2009_Q1	1,626.3	1,661.3	4,437.5	174.9	7,550.1	126.0	7,676.2		21.1	21.5	57.4	100.0
2009_Q2	1,550.5	1,696.7	4,920.9	200.2	7,967.9	92.0	8,059.8		19.0	20.8	60.2	100.0
2009_Q3	4,086.0	1,717.4	3,957.8	172.0	9,589.1	253.5	9,842.6		41.9	17.6	40.5	100.0
2009_Q4	4,080.1	1,700.3	4,227.3	644.9	9,362.9	1,656.1	11,019.0		40.8	17.0	42.2	100.0
2010_Q1	2,424.4	2,101.1	6,170.6	382.0	10,314.0	578.3	10,892.3	10,890.8	22.7	19.6	57.7	100.0
2010_Q2	1,854.3	1,952.8	4,865.0	347.8	8,324.4	974.5	9,298.9	9,284.0	21.4	22.5	56.1	100.0
2010_Q3	4,290.7	1,972.9	5,386.3	386.6	11,263.2	1,352.4	12,615.7	12,570.3	36.8	16.9	46.2	100.0
2010_Q4	4,340.3	2,267.6	5,761.8	395.3	11,974.5	1,260.8	13,235.2	13,119.4	35.1	18.3	46.6	100.0
2011_Q1	2,305.3	3,004.6	7,351.8	310.8	12,350.8	1,405.5	13,756.3	13,202.7	18.2	23.7	58.1	100.0
2011_Q2	1,824.5	3,547.8	7,441.6	409.7	12,404.1	1,365.9	13,770.0	12,866.4	14.2	27.7	58.1	100.0
2011_Q3	4,705.2	3,755.0	5,977.3	349.5	14,088.1	1,279.9	15,368.0	14,247.1	32.6	26.0	41.4	100.0
2011_Q4	5,319.8	3,966.9	6,652.0	387.6	15,551.1	1,370.9	16,922.0	15,753.9	33.4	24.9	41.7	100.0
2012_Q1	2,733.3	4,766.6	7,672.5	461.5	14,710.9	1,208.0	15,918.9	14,728.3	18.0	31.4	50.6	100.0
2012_Q2	2,324.8	4,882.7	9,030.4	496.6	15,741.3	1,178.1	16,919.4	15,786.7	14.3	30.1	55.6	100.0
2012_Q3	5,757.1	5,276.5	7,995.6	570.2	18,459.1	1,074.3	19,533.3	18,014.1	30.3	27.7	42.0	100.0
2012_Q4	5,852.9	5,512.2	11,138.7	788.4	21,715.4	1,228.3	22,943.8	21,137.4	26.0	24.5	49.5	100.0
2013_Q1	3,126.7	6,435.8	9,545.8	716.7	18,391.5	1,173.0	19,564.6	17,451.6	16.4	33.7	50.0	100.0
2013_Q2	4,167.2	6,228.4	11,796.6	762.9	21,429.2	1,368.2	22,797.4	20,846.1	18.8	28.1	53.2	100.0
2013_Q3	6,252.6	5,994.6	10,885.9	568.5	22,564.7	1,492.6	24,057.3	22,364.1	27.0	25.9	47.1	100.0
2013_Q4	6,685.5	6,454.0	12,735.6	870.9	25,004.2	1,992.4	26,996.6	25,312.6	25.8	24.9	49.2	100.0
2014_Q1	3,819.6	7,080.4	13,598.1	928.9	23,569.2	2,255.1	25,824.3	23,836.6	15.6	28.9	55.5	100.0
2014_Q2	3,209.6	7,355.7	14,406.5	1,020.8	23,950.9	2,708.9	26,659.8	24,512.2	12.9	29.5	57.7	100.0
2014_Q3	8,084.0	7,184.3	14,591.7	1,227.9	28,632.2	3,003.5	31,635.6	29,855.9	27.1	24.1	48.9	100.0
2014_Q4	8,164.9	7,146.3	13,651.9	1,176.1	27,787.1	1,436.6	29,223.7	27,345.7	28.2	24.7	47.1	100.0
2015_Q1	4,229.8	7,012.9	16,061.5	1,251.3	26,052.9	3,257.0	29,309.9	28,173.7	15.5	25.7	58.8	100.0
2015_Q2	3,683.2	7,931.5	17,618.2	1,478.0	27,754.9	3,243.6	30,998.5	29,139.6	12.6	27.1	60.3	100.0
2015_Q3	9,025.4	8,556.8	17,924.7	1,259.1	34,247.8	3,585.3	37,833.2	36,630.0	25.4	24.1	50.5	100.0
2015_Q4	9,195.2	8,793.2	18,554.8	1,480.7	35,062.4	3,753.4	38,815.8	37,703.5	25.2	24.0	50.8	100.0
2016_Q1*	5,090.0	8,412.5	20,478.8	1,545.8	32,435.6	4,040.9	36,476.5	36,065.6	15.0	24.8	60.3	100.0
2016_Q2*	4,335.6	8,836.5	21,997.4	1,733.8	33,435.7	4,625.8	38,061.5	37,641.6	12.3	25.1	62.5	100.0
2016_Q3*	10,065.1	10,083.3	22,774.7	1,506.7	41,416.3	4,047.7	45,464.0	44,489.9	23.4	23.5	53.1	100.0
2016_Q4*	10,074.7	10,632.7	23,695.4	1,929.7	42,473.0	4,878.4	47,351.5	45,901.6	22.7	23.9	53.4	100.0
2017_Q1*	5,990.1	10,471.8	24,794.7	1,719.0	39,537.6	4,367.8	43,905.4	42,125.5	14.5	25.4	60.1	100.0
2017_Q2*	4,904.8	11,357.9	26,513.8	1,993.3	40,783.2	4,575.3	45,358.5	43,364.1	11.5	26.6	62.0	100.0
2017_Q3**	12,082.4	12,426.1	28,103.8	1,881.9	50,730.4	5,469.5	56,199.9	53,198.7	23.0	23.6	53.4	100.0

*Revised

**Provisional

***FISIM is a negative item

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
2009_Q1		1,021.8	192.6	162.8	329.3	112.4	1,626.3
2009_Q2		875.4	205.0	143.3	326.6	205.1	1,550.5
2009_Q3		3,300.6	224.7	142.6	329.1	313.7	4,086.0
2009_Q4		3,227.5	251.5	280.4	329.1	243.2	4,080.1
2010_Q1		1,470.6	285.6	196.9	382.4	374.4	2,424.4
2010_Q2		1,019.1	324.1	173.4	397.9	264.0	1,854.3
2010_Q3		3,444.6	367.2	171.5	412.4	262.2	4,290.7
2010_Q4		3,487.2	414.7	331.3	421.5	100.3	4,340.3
2011_Q1		1,442.0	466.6	228.6	402.0	232.6	2,305.3
2011_Q2		1,068.0	500.3	199.4	403.7	153.3	1,824.5
2011_Q3		3,909.5	515.8	196.6	385.7	213.4	4,705.2
2011_Q4		4,230.4	512.9	379.2	357.8	352.5	5,319.8
2012_Q1		1,746.5	587.7	262.9	446.9	277.0	2,733.3
2012_Q2		1,344.9	189.0	231.0	467.9	281.1	2,324.8
2012_Q3		4,770.2	367.2	228.5	479.0	279.3	5,757.1
2012_Q4		4,663.0	724.6	439.6	485.8	264.5	5,852.9
2013_Q1		2,024.2	614.0	289.1	529.4	284.0	3,126.7
2013_Q2		3,090.8	204.4	246.6	495.2	334.7	4,167.2
2013_Q3		5,184.9	401.6	238.4	489.4	339.8	6,252.6
2013_Q4		5,441.7	761.3	448.8	504.7	290.3	6,685.5
2014_Q1		2,579.0	846.5	309.2	594.5	336.9	3,819.6
2014_Q2		2,002.1	253.6	267.9	631.3	308.4	3,209.6
2014_Q3		6,839.0	458.1	259.7	655.4	329.8	8,084.0
2014_Q4		6,723.9	850.8	481.0	656.1	303.9	8,164.9
2015_Q1		2,756.6	683.6	400.1	719.2	353.9	4,229.8
2015_Q2		2,199.5	234.7	383.8	739.6	360.3	3,683.2
2015_Q3		7,540.6	480.3	373.4	732.6	378.8	9,025.4
2015_Q4		7,671.3	971.3	401.2	733.2	389.5	9,195.2
2016_Q1*		3,346.0	794.0	504.4	811.4	428.2	5,090.0
2016_Q2*		2,542.5	262.4	498.3	820.7	474.1	4,335.6
2016_Q3*		8,337.8	521.0	408.0	830.1	489.1	10,065.1
2016_Q4*		8,391.6	1,037.0	421.7	859.5	401.9	10,074.7
2017_Q1*		4,048.1	918.0	548.2	866.0	527.7	5,990.1
2017_Q2*		3,061.0	303.4	539.3	873.3	431.2	4,904.8
2017_Q3**		10,038.6	602.4	442.2	848.4	753.3	12,082.4
*Revised							
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Appendix 3- Industry: Value Added by Activity at Current Prices								
Year	Quarter	Value Added (GHc Million)						
		Mining and Quarrying	Oil & Gas	Manufacturing	Electricity	Water & Sewerage	Construction	Total Value Added
2009_Q1		181.7		650.2	41.0	57.1	731.3	1,661.3
2009_Q2		186.6		615.6	41.8	56.6	796.1	1,696.7
2009_Q3		186.6		611.1	38.3	63.0	818.3	1,717.4
2009_Q4		185.1		601.5	45.8	69.7	798.3	1,700.3
2010_Q1		183.4	1.5	827.8	49.2	74.1	966.6	2,101.1
2010_Q2		226.9	14.9	654.9	63.0	86.1	921.9	1,952.8
2010_Q3		263.9	45.3	626.6	78.1	101.7	902.5	1,972.9
2010_Q4		338.5	115.8	832.1	75.6	106.4	915.0	2,267.6
2011_Q1		787.3	553.6	818.2	76.5	109.5	1,213.0	3,004.6
2011_Q2		1,138.7	903.6	975.3	74.3	116.2	1,243.3	3,547.8
2011_Q3		1,365.9	1,120.8	936.3	64.6	118.6	1,269.6	3,755.0
2011_Q4		1,398.0	1,168.2	1,112.6	64.3	123.1	1,269.0	3,966.9
2012_Q1		1,527.7	1,190.6	1,038.1	81.1	124.3	1,995.5	4,766.6
2012_Q2		1,480.6	1,132.7	1,106.7	81.8	128.5	2,085.0	4,882.7
2012_Q3		1,833.9	1,519.2	1,095.1	78.5	129.7	2,139.4	5,276.5
2012_Q4		2,118.4	1,806.4	1,023.4	91.0	128.8	2,150.5	5,512.2
2013_Q1		2,441.3	2,113.0	1,105.6	93.5	126.5	2,668.9	6,435.8
2013_Q2		2,160.4	1,951.3	1,178.4	95.0	130.8	2,663.7	6,228.4
2013_Q3		1,872.7	1,693.2	1,185.6	94.8	131.7	2,709.9	5,994.6
2013_Q4		2,028.6	1,683.9	1,330.8	110.1	179.2	2,805.2	6,454.0
2014_Q1		2,169.4	1,987.7	1,158.1	120.3	158.0	3,474.5	7,080.4
2014_Q2		2,367.3	2,147.6	1,362.4	118.1	144.4	3,363.5	7,355.7
2014_Q3		2,046.8	1,779.7	1,450.3	104.2	139.3	3,443.7	7,184.3
2014_Q4		2,056.5	1,878.0	1,371.0	100.3	134.2	3,484.3	7,146.3
2015_Q1		1,587.5	1,136.2	1,519.3	90.5	161.1	3,654.5	7,012.9
2015_Q2		2,256.8	1,858.9	1,508.6	358.8	172.4	3,634.9	7,931.5
2015_Q3		1,591.7	1,203.2	1,537.5	330.3	191.1	4,906.3	8,556.8
2015_Q4		1,415.0	1,112.3	1,653.9	374.9	234.7	5,114.7	8,793.2
2016_Q1*		1,290.2	410.8	1,418.4	453.4	198.9	5,051.6	8,412.5
2016_Q2*		1,387.2	419.9	1,671.2	448.5	198.4	5,131.2	8,836.5
2016_Q3*		1,927.8	974.1	1,942.6	421.9	202.6	5,588.4	10,083.3
2016_Q4*		2,010.9	1,449.9	2,241.2	460.5	200.6	5,719.5	10,632.7
2017_Q1*		2,254.8	1,779.9	1,465.4	444.7	200.2	6,106.8	10,471.8
2017_Q2*		2,249.2	1,994.4	2,328.0	483.0	197.2	6,100.4	11,357.9
2017_Q3**		3,092.4	3,001.2	2,024.7	486.9	189.5	6,632.6	12,426.1

*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	Community, Social & Personal Service Activities	Total Value Added
2009_Q1	470.6	556.0	1,636.7	148.5	303.2	349.9	413.1	282.7	59.3	217.4	4,437.5
2009_Q2	497.7	569.4	1,287.4	156.2	339.4	362.5	676.6	381.1	134.1	516.6	4,920.9
2009_Q3	557.8	521.3	570.4	163.4	274.3	401.2	561.5	363.0	97.8	447.2	3,957.8
2009_Q4	582.9	548.9	263.1	188.4	630.4	348.5	827.5	478.9	222.0	136.6	4,227.3
2010_Q1	719.3	691.0	913.3	211.3	770.1	560.2	690.4	422.7	134.5	1,057.9	6,170.6
2010_Q2	744.3	553.7	1,121.3	192.8	171.2	576.4	773.5	471.4	175.3	85.0	4,865.0
2010_Q3	646.6	800.4	1,335.9	207.4	513.0	402.3	811.3	487.7	190.6	-9.1	5,386.3
2010_Q4	590.8	547.7	1,208.0	219.6	785.6	405.9	748.3	495.0	173.2	587.7	5,761.8
2011_Q1	875.5	688.3	2,109.0	240.8	602.0	619.2	919.0	637.8	284.9	375.3	7,351.8
2011_Q2	906.2	726.3	1,548.1	251.9	641.9	482.0	1,296.4	800.7	322.5	465.7	7,441.6
2011_Q3	707.6	790.8	1,316.0	266.9	545.9	659.1	634.4	353.8	42.2	660.6	5,977.3
2011_Q4	793.1	802.0	1,023.7	229.4	676.1	830.4	1,047.0	514.3	78.9	657.1	6,652.0
2012_Q1	867.7	885.6	1,570.3	330.4	663.1	795.1	790.3	989.0	123.0	658.0	7,672.5
2012_Q2	1,216.0	905.8	2,062.5	374.7	761.7	893.0	967.4	785.8	209.7	853.9	9,030.4
2012_Q3	957.1	829.4	1,951.5	402.7	881.8	868.0	882.4	531.0	63.4	628.3	7,995.6
2012_Q4	1,019.1	896.6	2,456.4	482.5	1,145.2	945.6	2,311.8	795.4	525.2	560.9	11,138.7
2013_Q1	1,179.0	1,247.1	1,527.0	374.7	1,368.1	906.0	1,241.7	673.3	195.8	833.0	9,545.8
2013_Q2	1,386.5	1,310.9	3,509.0	414.9	1,305.4	793.5	1,373.7	771.2	227.0	704.5	11,796.6
2013_Q3	1,393.5	1,336.3	2,527.7	379.1	1,515.4	859.4	926.3	852.9	259.4	835.9	10,885.9
2013_Q4	1,263.0	1,361.9	2,585.3	402.8	1,695.9	926.1	1,763.6	950.3	273.6	1,513.1	12,735.6
2014_Q1	1,088.7	1,417.5	3,481.6	487.4	2,047.3	885.2	1,395.8	939.9	246.6	1,608.0	13,598.1
2014_Q2	1,681.2	1,728.1	3,436.4	519.0	2,129.2	1,131.9	1,494.5	975.5	278.5	1,032.1	14,406.5
2014_Q3	1,885.6	1,642.6	3,022.9	686.8	2,789.1	1,024.9	1,411.5	971.0	265.5	891.8	14,591.7
2014_Q4	1,429.4	1,310.9	3,410.3	747.9	2,149.5	851.9	1,541.6	996.6	300.2	913.6	13,651.9
2015_Q1	1,668.9	1,742.2	3,752.4	862.8	2,407.3	1,251.3	1,633.1	1,172.6	306.1	1,264.8	16,061.5
2015_Q2	1,999.3	1,826.4	4,342.2	886.5	2,728.7	1,274.9	1,750.3	1,187.7	404.7	1,217.7	17,618.2
2015_Q3	2,078.5	1,929.9	4,150.3	872.0	3,105.4	1,271.2	1,680.1	1,198.2	401.9	1,237.2	17,924.7
2015_Q4	2,131.0	2,002.0	4,483.5	839.1	3,239.9	1,260.8	1,771.4	1,199.4	416.3	1,211.4	18,554.8
2016_Q1*	2,172.9	2,009.2	5,099.0	1,163.9	3,063.2	1,311.8	2,175.2	1,522.0	542.4	1,419.2	20,478.8
2016_Q2*	2,566.0	2,141.8	5,115.9	1,240.9	3,624.1	1,674.6	2,107.6	1,578.6	521.8	1,426.2	21,997.4
2016_Q3*	2,601.5	2,482.8	5,181.0	1,364.7	3,882.9	1,637.4	2,041.0	1,580.5	562.6	1,440.3	22,774.7
2016_Q4*	2,644.3	2,655.2	5,371.9	1,368.0	4,140.7	1,700.8	2,189.9	1,588.6	579.3	1,456.7	23,695.4
2017_Q1*	3,062.6	2,482.9	6,660.7	1,437.9	3,400.9	1,558.2	2,326.2	1,606.8	548.4	1,710.2	24,794.7
2017_Q2*	3,397.5	2,380.5	7,061.4	1,255.7	4,019.5	1,804.3	2,490.2	1,736.3	617.4	1,750.9	26,513.8
2017_Q3**	3,198.0	2,810.1	6,775.9	1,656.8	4,086.8	2,647.7	2,690.3	1,805.7	764.8	1,667.7	28,103.8

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Appendix 5 - Quarterly Value Added and GDP at constant 2006 Prices by Economic Activity

Year Quarter	Quarterly Value Added (GHc Million)						Net indirect Taxes	Total (Oil GDP in purchaser's value)	Total (Non Oil GDP)***	Year-on-Year change (%)				
	Agriculture	Industry	Services	FISIM	Total Value Added (GDP @ basic prices)	Total (Oil GDP)***				Agriculture	Industry	Services	Total (Oil GDP)***	Total (Non-oil GDP)**
2009_Q1	1,001.7	1,173.3	2,653.8	153.5	4,675.3	273.2	4,948.5		4.5	3.8	3.4	1.8		
2009_Q2	791.5	1,184.3	2,657.1	173.5	4,459.4	285.9	4,745.3		1.6	5.3	10.1	3.7		
2009_Q3	2,074.6	1,170.9	2,636.5	130.1	5,752.0	344.7	6,096.7		6.8	5.1	0.4	3.2		
2009_Q4	2,261.3	1,196.2	2,719.4	281.6	5,895.4	650.6	6,545.9		11.1	3.9	8.8	9.8		
2010_Q1	1,013.9	1,275.5	3,064.8	208.1	5,146.2	264.7	5,410.9		1.2	8.7	15.5	9.3		
2010_Q2	887.4	1,229.4	2,771.0	187.3	4,700.4	398.2	5,098.6		12.1	3.8	4.3	7.4		
2010_Q3	2,273.3	1,229.2	2,946.7	199.8	6,249.3	522.3	6,771.6		9.6	5.0	11.8	11.1		
2010_Q4	2,278.0	1,318.9	2,931.9	201.5	6,327.3	491.7	6,819.0	6,754.4	0.7	10.3	7.8	4.2		
2011_Q1	1,012.7	1,519.9	3,241.4	192.6	5,581.3	507.4	6,088.7	5,848.9	-0.1	19.2	5.8	12.5		
2011_Q2	903.3	1,752.1	3,105.8	247.1	5,514.0	475.2	5,989.2	5,657.3	1.8	42.5	12.1	17.5		
2011_Q3	2,286.8	1,898.2	3,198.6	222.1	7,161.4	443.7	7,605.1	7,208.3	0.6	54.4	8.6	12.3		
2011_Q4	2,304.4	1,987.0	3,266.9	241.7	7,316.5	486.3	7,802.8	7,399.3	1.2	50.7	11.4	14.4	9.5	
2012_Q1	1,005.9	1,956.7	4,384.9	238.2	7,109.3	502.2	7,611.5	7,234.1	-0.7	28.7	35.3	25.0	23.7	
2012_Q2	857.0	1,929.3	3,719.6	227.0	6,279.0	525.2	6,804.2	6,455.0	-5.1	10.1	19.8	13.6	14.1	
2012_Q3	2,262.7	2,028.3	3,080.1	247.6	7,123.5	496.8	7,620.3	7,172.9	-1.1	6.9	-3.7	0.2	-0.5	
2012_Q4	2,531.3	2,033.1	3,176.2	302.5	7,438.0	566.2	8,004.2	7,509.7	9.8	2.3	-2.8	2.6	1.5	
2013_Q1	1,247.0	2,117.9	4,102.0	305.8	7,161.1	517.2	7,678.3	7,166.8	24.0	8.2	-6.5	0.9	-0.9	
2013_Q2	1,292.7	2,249.6	3,906.2	296.1	7,152.4	555.6	7,708.0	7,169.7	50.8	16.6	5.0	13.3	11.1	
2013_Q3	1,978.5	2,063.6	3,862.7	396.3	7,508.5	552.3	8,060.8	7,604.6	-12.6	1.7	25.4	5.8	6.0	
2013_Q4	2,516.7	2,044.2	3,927.2	316.4	8,171.7	618.1	8,789.8	8,326.9	-0.6	0.5	23.6	9.8	10.9	
2014_Q1	1,146.0	2,080.8	3,877.1	301.9	6,801.9	584.8	7,386.7	6,888.6	-8.1	-1.8	-5.5	-3.8	-3.9	
2014_Q2	992.8	2,260.4	4,299.8	395.5	7,157.6	565.7	7,723.3	7,168.2	-23.2	0.5	10.1	0.2	0.0	
2014_Q3	2,532.7	2,158.7	4,212.6	361.6	8,542.4	607.0	9,149.4	8,615.7	28.0	4.6	9.1	13.5	13.3	
2014_Q4	2,690.5	2,041.9	4,288.5	334.9	8,686.0	576.4	9,262.4	8,791.8	6.9	-0.1	9.2	5.4	5.6	
2015_Q1	1,150.5	2,072.6	4,135.9	275.2	7,083.9	609.0	7,692.9	7,180.8	0.4	-0.4	6.7	4.1	4.2	
2015_Q2	1,029.4	2,230.4	4,574.6	407.5	7,426.9	587.0	8,014.0	7,473.8	3.7	-1.3	6.4	3.8	4.3	
2015_Q3	2,643.7	2,123.5	4,447.3	362.7	8,851.9	629.0	9,480.9	8,995.6	4.4	-1.6	5.6	3.6	4.4	
2015_Q4	2,743.3	2,086.4	4,576.0	384.1	9,021.6	598.7	9,620.3	9,081.3	2.0	2.2	6.7	3.9	3.3	
2016_Q1*	1,207.8	2,111.3	4,407.9	333.7	7,393.3	634.1	8,027.4	7,633.1	5.0	1.9	6.6	4.3	6.3	
2016_Q2*	1,069.8	1,980.2	4,828.4	366.6	7,511.8	593.6	8,105.5	7,884.9	3.9	-11.2	5.5	1.1	5.5	
2016_Q3*	2,718.1	2,197.3	4,646.3	307.1	9,254.6	658.3	9,913.0	9,407.5	2.8	3.5	4.5	4.6	4.6	
2016_Q4*	2,794.4	2,185.8	4,864.2	413.4	9,431.0	626.8	10,057.8	9,453.2	1.9	4.8	6.3	4.5	4.1	
2017_Q1*	1,301.4	2,355.6	4,558.3	333.2	7,882.0	676.1	8,558.1	7,931.4	7.7	11.6	3.4	6.6	3.9	
2017_Q2*	1,106.2	2,362.7	5,099.8	379.9	8,188.8	647.1	8,835.9	8,200.6	3.4	19.3	5.6	9.0	4.0	
2017_Q3**	2,989.7	2,561.6	4,909.7	349.6	10,111.4	719.3	10,830.7	9,960.4	10.0	16.6	5.7	9.3	5.9	

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***Total includes net indirect taxes & FISIM

Appendix 6- 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
2009_Q1		162.4	141.6	167.2	157.1	4.0	5.9	11.7	7.2	-5.8	10.3	35.6	13.3
2009_Q2		195.9	143.3	185.2	174.8	20.7	1.2	10.8	11.3	36.4	12.6	43.1	30.7
2009_Q3		197.0	146.7	150.1	164.6	0.5	2.4	-18.9	-5.8	30.8	14.1	1.0	15.3
2009_Q4		180.4	142.1	155.4	159.3	-8.4	-3.1	3.6	-3.2	15.5	6.4	3.8	8.6
2010_Q1		239.1	164.7	201.3	201.7	32.5	15.9	29.5	26.6	47.3	16.3	20.4	28.0
2010_Q2		209.0	158.9	175.6	181.1	-12.6	-3.6	-12.8	-10.2	6.7	10.9	-5.2	4.1
2010_Q3		188.7	160.5	182.8	177.3	-9.7	1.0	4.1	-2.1	-4.2	9.4	21.8	9.0
2010_Q4		190.5	171.9	196.5	186.3	0.9	7.1	7.5	5.1	5.6	21.0	26.4	17.7
2011_Q1		227.6	197.7	226.8	217.4	19.5	15.0	15.4	16.7	-4.8	20.0	12.7	9.3
2011_Q2		202.0	202.5	239.6	214.7	-11.3	2.4	5.6	-1.2	-3.3	27.5	36.5	20.2
2011_Q3		205.8	197.8	186.9	196.8	1.9	-2.3	-22.0	-8.3	9.0	23.3	2.2	11.5
2011_Q4		230.9	199.6	203.6	211.4	12.2	0.9	9.0	7.4	21.2	16.1	3.6	13.6
2012_Q1		271.7	243.6	175.0	230.1	17.7	22.0	-14.1	8.9	19.4	23.2	-22.9	6.6
2012_Q2		271.3	253.1	242.8	255.7	-0.2	3.9	38.8	11.1	34.3	25.0	1.3	20.2
2012_Q3		254.4	260.1	259.6	258.1	-6.2	2.8	6.9	0.9	23.7	31.5	38.9	31.4
2012_Q4		231.2	271.1	350.7	284.3	-9.1	4.2	35.1	10.2	0.2	35.8	72.2	36.1
2013_Q1		250.7	303.9	232.7	262.4	8.4	12.1	-33.6	-7.7	-7.7	24.7	33.0	16.7
2013_Q2		322.4	276.9	302.0	300.4	28.6	-8.9	29.8	14.5	18.8	9.4	24.4	17.5
2013_Q3		316.0	290.5	281.8	296.1	-2.0	4.9	-6.7	-1.4	24.2	11.7	8.6	14.8
2013_Q4		265.7	315.7	324.3	301.9	-15.9	8.7	15.1	1.9	14.9	16.4	-7.5	7.9
2014_Q1		333.3	340.3	350.7	341.4	25.5	7.8	8.2	13.1	32.9	12.0	50.7	31.9
2014_Q2		323.3	325.4	335.1	327.9	-3.0	-4.4	-4.5	-4.0	0.3	17.5	10.9	9.6
2014_Q3		319.2	332.8	346.4	332.8	-1.3	2.3	3.4	1.5	1.0	14.6	22.9	12.8
2014_Q4		303.5	350.0	318.3	323.9	-4.9	5.2	-8.1	-2.7	14.2	10.9	-1.8	7.8
2015_Q1		367.7	338.4	388.3	364.8	21.1	-3.3	22.0	12.6	10.3	-0.6	10.7	6.8
2015_Q2		357.8	355.6	385.1	366.2	-2.7	5.1	-0.8	0.4	10.7	9.3	14.9	11.6
2015_Q3		341.4	403.0	403.0	382.5	-4.6	13.3	4.7	4.4	7.0	21.1	16.4	14.8
2015_Q4		335.2	421.5	405.5	387.4	-1.8	4.6	0.6	1.3	10.4	20.4	27.4	19.4
2016_Q1*		421.4	398.5	464.6	428.2	25.7	-5.5	14.6	10.5	14.6	17.8	19.6	17.3
2016_Q2*		405.3	446.3	455.6	435.7	-3.8	12.0	-1.9	1.8	13.3	25.5	18.3	19.0
2016_Q3*		370.3	458.9	490.2	439.8	-8.6	2.8	7.6	0.9	8.5	13.9	21.6	14.7
2016_Q4*		360.5	486.4	487.1	444.7	-2.6	6.0	-0.6	1.1	7.6	15.4	20.1	14.4
2017_Q1*		460.3	444.6	543.9	482.9	27.7	-8.6	11.7	8.6	9.2	11.6	17.1	12.6
2017_Q2*		443.4	480.7	519.9	481.3	-3.7	8.1	-4.4	-0.3	9.4	7.7	14.1	10.4
2017_Q3**		404.1	485.1	572.4	487.2	-8.9	0.9	10.1	1.2	9.1	5.7	16.8	10.5

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Appendix 7 - Agriculture: Value Added by Activity							
Year	Quarter	Quarterly Value Added (GHc Million)					Total Value Added
		Crops & Cocoa	Cocoa	Livestock	Forestry & Logging	Fishing	
2009_Q1		642.2	151.3	124.4	125.4	109.7	1,001.7
2009_Q2		395.5	52.6	103.0	186.9	106.2	791.5
2009_Q3		1,666.6	108.8	93.6	188.7	125.7	2,074.6
2009_Q4		1,775.1	221.8	181.1	186.5	118.6	2,261.3
2010_Q1		633.6	204.3	122.2	174.1	83.9	1,013.9
2010_Q2		471.1	67.8	103.6	192.6	120.0	887.4
2010_Q3		1,795.3	135.0	97.1	204.8	176.1	2,273.3
2010_Q4		1,803.3	269.6	202.6	185.0	87.0	2,278.0
2011_Q1		638.6	231.1	135.7	164.8	73.5	1,012.7
2011_Q2		504.4	77.1	137.7	165.8	95.3	903.3
2011_Q3		1,851.6	154.4	131.0	161.7	142.3	2,286.8
2011_Q4		1,882.9	308.9	147.8	158.3	115.4	2,304.4
2012_Q1		629.4	209.6	125.3	138.4	112.8	1,005.9
2012_Q2		505.0	69.8	75.1	166.0	110.9	857.0
2012_Q3		1,885.4	139.7	67.5	178.3	131.5	2,262.7
2012_Q4		1,895.6	279.4	313.2	212.2	110.3	2,531.3
2013_Q1		807.9	215.1	128.1	200.3	110.7	1,247.0
2013_Q2		841.0	71.7	126.9	200.3	124.5	1,292.7
2013_Q3		1,540.9	143.4	120.4	174.2	143.1	1,978.5
2013_Q4		2,014.6	286.8	236.5	152.0	113.5	2,516.7
2014_Q1		687.9	224.7	140.3	195.7	122.0	1,146.0
2014_Q2		558.0	74.9	129.0	186.2	119.6	992.8
2014_Q3		2,115.0	149.6	130.0	169.5	118.2	2,532.7
2014_Q4		2,138.1	298.7	245.0	202.8	104.6	2,690.5
2015_Q1		697.3	206.5	145.4	179.4	128.4	1,150.5
2015_Q2*		578.8	68.8	134.8	191.0	124.9	1,029.4
2015_Q3		2,189.1	137.7	137.3	196.8	120.6	2,643.7
2015_Q4		2,174.0	275.4	260.9	197.9	110.5	2,743.3
2016_Q1*		719.8	192.0	153.6	197.8	136.7	1,207.8
2016_Q2*		598.9	64.0	142.5	196.8	131.6	1,069.8
2016_Q3*		2,250.3	128.0	144.9	196.3	126.7	2,718.1
2016_Q4*		2,210.6	256.1	273.4	193.4	116.9	2,794.4
2017_Q1*		779.8	222.0	161.9	204.4	155.3	1,301.4
2017_Q2*		648.6	74.0	150.5	198.6	108.4	1,106.2
2017_Q3**		2,443.6	148.0	153.1	194.1	198.9	2,989.7

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Appendix 8 - Agriculture: Value Added by Activity (Quarter-on-Quarter Change)

Year	Quarter	Quarter-on-Quarter Change (%)					Total Value Added
		Crops & Cocoa	<i>o.w. Cocoa</i>	Livestock	Forestry & Logging	Fishing	
2009_Q1		-59.0	-26.4	-22.8	-31.4	-12.5	-50.8
2009_Q2		-38.4	-65.2	-17.2	49.1	-3.2	-21.0
2009_Q3		321.4	106.8	-9.1	1.0	18.4	162.1
2009_Q4		6.5	103.9	93.6	-1.1	-5.7	9.0
2010_Q1		-64.3	-7.9	-32.5	-6.6	-29.2	-55.2
2010_Q2		-25.6	-66.8	-15.3	10.6	43.0	-12.5
2010_Q3		281.1	99.3	-6.3	6.3	46.7	156.2
2010_Q4		0.4	99.6	108.7	-9.6	-50.6	0.2
2011_Q1		-64.6	-14.3	-33.0	-10.9	-15.5	-55.5
2011_Q2		-21.0	-66.6	1.5	0.6	29.6	-10.8
2011_Q3		267.1	100.2	-4.8	-2.5	49.3	153.2
2011_Q4		1.7	100.1	12.8	-2.2	-19.0	0.8
2012_Q1		-66.6	-32.1	-15.2	-12.6	-2.2	-56.3
2012_Q2		-19.8	-66.7	-40.1	20.0	-1.7	-14.8
2012_Q3		273.4	100.0	-10.1	7.4	18.6	164.0
2012_Q4		0.5	100.1	363.9	19.0	-16.2	11.9
2013_Q1		-57.4	-23.0	-59.1	-5.6	0.4	-50.7
2013_Q2		4.1	-66.7	-0.9	0.0	12.5	3.7
2013_Q3		83.2	100.0	-5.2	-13.0	14.9	53.0
2013_Q4		30.7	100.0	96.5	-12.7	-20.7	27.2
2014_Q1		-65.9	-21.6	-40.7	28.7	7.5	-54.5
2014_Q2		-18.9	-66.7	-8.0	-4.9	-2.0	-13.4
2014_Q3		279.0	99.8	0.8	-9.0	-1.2	155.1
2014_Q4		1.1	99.6	88.4	19.7	-11.5	6.2
2015_Q1		-67.4	-30.9	-40.7	-11.5	22.8	-57.2
2015_Q2		-17.0	-66.7	-7.3	6.5	-2.7	-10.5
2015_Q3		278.2	100.0	1.9	3.0	-3.4	156.8
2015_Q4*		-0.7	100.0	90.1	0.6	-8.4	3.8
2016_Q1*		-66.9	-30.3	-41.1	-0.1	23.7	-56.0
2016_Q2*		-16.8	-66.7	-7.2	-0.5	-3.8	-11.4
2016_Q3*		275.8	100.0	1.6	-0.3	-3.7	154.1
2016_Q4*		-1.8	100.0	88.7	-1.4	-7.7	2.8
2017_Q1*		-64.7	-13.3	-40.8	5.7	32.8	-53.4
2017_Q2*		-16.8	-66.7	-7.0	-2.8	-30.2	-15.0
2017_Q3**		276.7	100.0	1.7	-2.3	83.5	170.3

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Appendix 9 - Agriculture: Value Added by Activity (Year-on-Year Change)							
Year	Quarter	Year-on-Year Change (%)					Total Value Added
		Crops & Cocoa	Cocoa	Livestock	Forestry & Logging	Fishing	
2009_Q1		5.5	-1.0	-4.6	-2.0	19.9	4.5
2009_Q2		5.5	4.6	2.2	0.6	-9.4	1.6
2009_Q3		10.1	8.3	5.3	1.4	-18.3	6.8
2009_Q4		13.3	7.9	12.5	2.1	-5.4	11.1
2010_Q1		-1.3	35.0	-1.8	38.9	-23.5	1.2
2010_Q2		19.1	28.9	0.6	3.1	13.0	12.1
2010_Q3		7.7	24.1	3.7	8.6	40.0	9.6
2010_Q4		1.6	21.5	11.9	-0.8	-26.6	0.7
2011_Q1		0.8	13.1	11.0	-5.3	-12.4	-0.1
2011_Q2		7.1	13.8	33.0	-13.9	-20.6	1.8
2011_Q3		3.1	14.3	35.0	-21.0	-19.2	0.6
2011_Q4		4.4	14.6	-27.1	-14.5	32.6	1.2
2012_Q1		-1.4	-9.3	-7.6	-16.0	53.4	-0.7
2012_Q2		0.1	-9.4	-45.5	0.1	16.3	-5.1
2012_Q3		1.8	-9.5	-48.5	10.2	-7.6	-1.1
2012_Q4		0.7	-9.5	111.9	34.1	-4.4	9.8
2013_Q1		28.4	2.6	2.2	44.8	-1.9	24.0
2013_Q2		66.6	2.7	69.0	20.6	12.3	50.8
2013_Q3		-18.3	2.7	78.3	-2.3	8.8	-12.6
2013_Q4		6.3	2.6	-24.5	-28.3	3.0	-0.6
2014_Q1		-14.9	4.5	9.5	-2.3	10.3	-8.1
2014_Q2		-33.6	4.5	1.6	-7.0	-4.0	-23.2
2014_Q3		37.3	4.4	8.0	-2.7	-17.4	28.0
2014_Q4		6.1	4.1	3.6	33.4	-7.8	6.9
2015_Q1		1.4	-8.1	3.6	-8.3	5.2	0.4
2015_Q2		3.7	-8.1	4.5	2.6	4.4	3.7
2015_Q3		3.5	-8.0	5.6	16.1	2.0	4.4
2015_Q4		1.7	-7.8	6.5	-2.4	5.6	2.0
2016_Q1*		3.2	-7.0	5.6	10.3	6.5	5.0
2016_Q2*		3.5	-7.0	5.8	3.1	5.3	3.9
2016_Q3*		2.8	-7.0	5.6	-0.3	5.1	2.8
2016_Q4*		1.7	-7.0	4.8	-2.3	5.8	1.9
2017_Q1*		8.3	15.6	5.4	3.4	13.6	7.7
2017_Q2*		8.3	15.6	5.6	0.9	-17.6	3.4
2017_Q3**		8.6	15.6	5.7	-1.1	57.0	10.0

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Appendix 10 - Industry: Value Added by Activity

Year Quarter	Quarterly Value Added (GHc Million)						
	Mining and Quarrying	Oil & Gas	Manufacturing	Electricity	Water & Sewerage	Construction	Total Value Added
2009_Q1	137.0		453.3	38.5	61.4	483.2	1,173.3
2009_Q2	146.4		460.4	38.1	58.8	480.5	1,184.3
2009_Q3	149.8		451.3	34.4	62.1	473.4	1,170.9
2009_Q4	147.9		478.6	40.7	64.1	464.8	1,196.2
2010_Q1	121.7		549.8	43.9	62.7	497.5	1,275.5
2010_Q2	138.0		474.1	45.5	64.7	507.0	1,229.4
2010_Q3	187.7		464.1	40.9	66.1	470.4	1,229.2
2010_Q4	242.9	64.6	495.7	39.9	65.9	474.5	1,318.9
2011_Q1	372.0	239.9	461.3	41.4	65.4	579.8	1,519.9
2011_Q2	533.1	331.9	585.2	42.5	67.9	523.5	1,752.1
2011_Q3	605.6	396.8	581.0	40.1	67.0	604.5	1,898.2
2011_Q4	604.9	403.5	693.4	44.9	66.7	577.0	1,987.0
2012_Q1	583.5	377.4	603.6	47.1	66.9	655.6	1,956.7
2012_Q2	565.2	349.2	606.7	46.8	67.9	642.8	1,929.3
2012_Q3	633.0	447.4	582.9	44.0	69.1	699.3	2,028.3
2012_Q4	680.2	494.5	573.1	49.8	69.0	661.1	2,033.1
2013_Q1	704.3	511.6	587.4	52.7	64.3	709.2	2,117.9
2013_Q2	728.4	538.3	634.9	53.8	66.5	766.1	2,249.6
2013_Q3	630.4	456.2	593.7	53.8	69.3	716.5	2,063.6
2013_Q4	683.9	462.9	538.6	58.0	68.5	695.3	2,044.2
2014_Q1	681.3	498.2	542.1	50.4	67.8	739.2	2,080.8
2014_Q2	778.3	555.1	594.2	61.3	70.6	756.0	2,260.4
2014_Q3	706.9	533.7	603.5	54.6	66.7	727.0	2,158.7
2014_Q4	667.4	470.5	595.5	52.6	60.5	665.8	2,041.9
2015_Q1	634.6	512.1	556.2	46.6	78.5	756.8	2,072.6
2015_Q2	710.1	540.2	589.6	49.3	80.4	801.1	2,230.4
2015_Q3	643.8	485.3	625.2	47.1	84.2	723.2	2,123.5
2015_Q4	672.0	539.0	616.1	53.6	75.6	669.1	2,086.4
2016_Q1*	554.6	394.3	590.2	54.0	80.4	832.1	2,111.3
2016_Q2*	426.8	220.6	629.5	59.1	74.0	790.7	1,980.2
2016_Q3*	708.7	505.5	623.0	48.9	76.4	740.2	2,197.3
2016_Q4*	767.6	604.5	609.1	57.5	77.5	674.0	2,185.8
2017_Q1*	738.3	626.7	624.8	55.6	80.8	856.0	2,355.6
2017_Q2*	746.9	635.3	671.1	64.0	83.8	796.9	2,362.7
2017_Q3**	997.9	870.3	655.2	56.4	92.9	759.2	2,561.6

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Appendix 11 - Industry: Value Added by Activity (Quarter-on-Quarter Change)						
Year Quarter	Quarter-on-Quarter Change (%)					
	Mining and Quarrying	Manufacturing	Electricity	Water & Sewerage	Construction	Total Value Added
2009_Q1	-0.7	-7.1	-2.4	3.8	13.1	1.9
2009_Q2	6.9	1.6	-0.9	-4.1	-0.6	0.9
2009_Q3	2.3	-2.0	-9.9	5.5	-1.5	-1.1
2009_Q4	-1.3	6.1	18.5	3.3	-1.8	2.2
2010_Q1	-17.8	14.9	7.9	-2.3	7.0	6.6
2010_Q2	13.4	-13.8	3.6	3.3	1.9	-3.6
2010_Q3	36.0	-2.1	-10.2	2.2	-7.2	0.0
2010_Q4	29.4	6.8	-2.4	-0.4	0.9	7.3
2011_Q1	53.2	-6.9	3.7	-0.7	22.2	15.2
2011_Q2	43.3	26.9	2.6	3.7	-9.7	15.3
2011_Q3	13.6	-0.7	-5.7	-1.3	15.5	8.3
2011_Q4	-0.1	19.4	12.2	-0.4	-4.6	4.7
2012_Q1	-3.5	-13.0	4.8	0.3	13.6	-1.5
2012_Q2	-3.1	0.5	-0.7	1.5	-2.0	-1.4
2012_Q3	12.0	-3.9	-6.0	1.8	8.8	5.1
2012_Q4	7.5	-1.7	13.3	-0.2	-5.5	0.2
2013_Q1	3.5	2.5	5.9	-6.8	7.3	4.2
2013_Q2	3.4	8.1	2.0	3.5	8.0	6.2
2013_Q3	-13.5	-6.5	-0.1	4.1	-6.5	-8.3
2013_Q4	8.5	-9.3	7.9	-1.2	-3.0	-0.9
2014_Q1	-0.4	0.6	-13.1	-1.0	6.3	1.8
2014_Q2	14.2	9.6	21.6	4.1	2.3	8.6
2014_Q3	-9.2	1.6	-10.8	-5.5	-3.8	-4.5
2014_Q4	-5.6	-1.3	-3.7	-9.3	-8.4	-5.4
2015_Q1	-4.9	-6.6	-11.5	29.8	13.7	1.5
2015_Q2	11.9	6.0	5.8	2.3	5.9	7.6
2015_Q3	-9.3	6.0	-4.5	4.8	-9.7	-4.8
2015_Q4	4.4	-1.5	13.9	-10.3	-7.5	-1.7
2016_Q1*	-17.5	-4.2	0.7	6.4	24.3	1.2
2016_Q2*	-23.0	6.7	9.3	-8.0	-5.0	-6.2
2016_Q3*	66.1	-1.0	-17.1	3.3	-6.4	11.0
2016_Q4*	8.3	-2.2	17.5	1.4	-8.9	-0.5
2017_Q1*	-3.8	2.6	-3.3	4.3	27.0	7.8
2017_Q2*	1.2	7.4	15.1	3.7	-6.9	0.3
2017_Q3**	33.6	-2.4	-11.9	10.8	-4.7	8.4

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Appendix 12 - Industry: Value Added by Activity (Year-on-Year Change)								
Year	Quarter	Year-on-Year Change (%)					Total Value Added	
		Mining and Quarrying	Oil & Gas	Manufacturing	Electricity	Water & Sewerage		Construction
2009_Q1		5.5		-4.7	15.2	5.9	11.3	3.8
2009_Q2		5.9		2.7	8.1	5.5	7.4	5.3
2009_Q3		8.3		-1.1	4.3	10.7	9.9	5.1
2009_Q4		7.3		-1.9	3.1	8.5	8.8	3.9
2010_Q1		-11.2		21.3	14.1	2.1	3.0	8.7
2010_Q2		-5.8		3.0	19.4	10.0	5.5	3.8
2010_Q3		25.3		2.8	19.1	6.5	-0.6	5.0
2010_Q4		64.2		3.6	-1.9	2.7	2.1	10.3
2011_Q1		205.7		-16.1	-5.8	4.4	16.5	19.2
2011_Q2		286.3		23.4	-6.6	4.8	3.2	42.5
2011_Q3		222.7		25.2	-2.1	1.3	28.5	54.4
2011_Q4		149.1	524.5	39.9	12.6	1.3	21.6	50.7
2012_Q1		56.9	57.3	30.8	13.7	2.3	13.1	28.7
2012_Q2		6.0	5.2	3.7	10.1	0.1	22.8	10.1
2012_Q3		4.5	12.8	0.3	9.8	3.1	15.7	6.9
2012_Q4		12.4	22.6	-17.4	10.8	3.4	14.6	2.3
2013_Q1		20.7	35.6	-2.7	12.0	-3.9	8.2	8.2
2013_Q2		28.9	54.1	4.6	15.0	-2.0	19.2	16.6
2013_Q3		-0.4	2.0	1.8	22.2	0.3	2.5	1.7
2013_Q4		0.6	-6.4	-6.0	16.5	-0.8	5.2	0.5
2014_Q1		-3.3	-2.6	-7.7	-4.4	5.5	4.2	-1.8
2014_Q2		6.9	3.1	-6.4	14.0	6.1	-1.3	0.5
2014_Q3		12.1	17.0	1.7	1.7	-3.7	1.5	4.6
2014_Q4		-2.4	1.6	10.6	-9.3	-11.6	-4.2	-0.1
2015_Q1		-6.9	2.8	2.6	-7.6	15.8	2.4	-0.4
2015_Q2		-8.8	-2.7	-0.8	-19.6	13.8	6.0	-1.3
2015_Q3		-8.9	-9.1	3.6	-13.8	26.2	-0.5	-1.6
2015_Q4		0.7	14.6	3.5	2.0	24.9	0.5	2.2
2016_Q1*		-12.6	-23.0	6.1	16.0	2.4	9.9	1.9
2016_Q2*		-39.9	-59.2	6.8	19.8	-7.9	-1.3	-11.2
2016_Q3*		10.1	4.2	-0.3	3.9	-9.2	2.3	3.5
2016_Q4*		14.2	12.2	-1.1	7.2	2.6	0.7	4.8
2017_Q1*		33.1	58.9	5.9	2.9	0.5	2.9	11.6
2017_Q2*		75.0	188.0	6.6	8.4	13.3	0.8	19.3
2017_Q3**		40.8	72.2	5.2	15.3	21.5	2.6	16.6

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Appendix 13 - Service: Value Added by Activity											
Year Quarter	Quarterly Value Added (Ghc Million)										Total Value Added
	Trade; Repair of Vehicles, Household Goods	Hotels And Restaurants	Transport & Storage	Information & Communication	Financial & Insurance Activities	Business, Real Estate & other Services Activities	Public Administration	Education	Health & Social Work	Other Personal Service Activities	
2009_Q1	341.6	257.1	747.5	148.0	147.3	256.0	292.0	218.7	75.3	170.3	2,653.8
2009_Q2	338.1	248.4	655.1	148.4	156.5	238.8	301.8	228.3	76.8	265.0	2,657.1
2009_Q3	338.6	239.2	708.3	153.4	129.7	224.0	305.9	232.7	78.1	226.7	2,636.5
2009_Q4	369.6	217.3	679.3	174.4	244.4	225.9	308.6	235.2	81.7	183.2	2,719.4
2010_Q1	391.8	268.6	849.9	190.5	189.9	271.9	297.5	230.9	84.0	290.0	3,064.8
2010_Q2	394.6	232.4	711.8	175.1	116.7	278.8	311.0	234.1	85.1	231.3	2,771.0
2010_Q3	400.7	263.9	706.3	194.5	247.6	259.3	319.0	245.5	87.9	222.0	2,946.7
2010_Q4	386.1	223.0	746.3	216.8	237.3	266.1	321.5	252.7	89.9	192.1	2,931.9
2011_Q1	501.2	254.1	841.1	253.5	191.6	348.8	338.2	240.6	91.1	181.1	3,241.4
2011_Q2	425.8	243.9	850.5	243.3	212.6	231.2	335.5	245.0	88.0	230.0	3,105.8
2011_Q3	387.9	241.4	841.6	233.8	182.0	303.1	334.0	252.1	90.3	332.4	3,198.6
2011_Q4	430.8	283.9	812.8	178.4	213.2	344.1	333.7	262.1	94.9	313.3	3,266.9
2012_Q1	440.2	274.2	1,773.3	282.6	219.7	351.8	345.6	266.0	97.1	334.4	4,384.9
2012_Q2	514.2	290.9	994.9	310.1	223.6	381.2	357.8	263.8	100.7	282.6	3,719.6
2012_Q3	463.9	290.6	442.9	319.7	242.8	357.5	355.2	263.2	100.2	244.1	3,080.1
2012_Q4	525.3	226.3	442.4	373.7	288.6	361.5	338.5	273.8	106.1	239.9	3,176.2
2013_Q1	591.5	327.5	997.5	370.1	289.7	345.2	386.2	280.4	96.8	417.2	4,102.0
2013_Q2	549.4	327.1	973.8	348.3	273.5	284.6	391.7	279.1	106.5	372.5	3,906.2
2013_Q3	524.5	338.5	879.6	436.9	304.8	282.8	369.7	281.3	115.7	328.8	3,862.7
2013_Q4	559.3	354.8	784.1	443.4	333.1	285.4	366.8	299.2	116.6	384.5	3,927.2
2014_Q1	492.1	336.6	857.3	491.1	281.9	306.8	356.3	295.3	110.7	349.1	3,877.1
2014_Q2	587.9	346.9	1,001.9	508.6	417.1	268.8	361.5	306.3	110.1	390.7	4,299.8
2014_Q3	592.5	352.3	821.7	571.6	416.7	303.4	361.1	305.1	102.6	385.7	4,212.6
2014_Q4	588.6	295.6	964.7	641.7	359.8	301.0	364.7	314.3	104.6	353.5	4,288.5
2015_Q1	534.4	347.2	885.4	619.9	315.4	291.6	332.7	321.6	123.9	363.8	4,135.9
2015_Q2	652.2	327.2	1014.1	634.5	407.7	333.6	349.5	328.1	128.6	399.1	4,574.6
2015_Q3	645.8	362.2	872.9	686.4	393.6	328.6	397.3	320.0	119.1	321.3	4,447.3
2015_Q4	648.1	315.7	981.6	749.3	410.0	316.7	384.5	347.3	123.3	299.6	4,576.0
2016_Q1*	553.7	355.8	924.9	730.5	330.8	297.3	336.8	351.0	164.4	362.8	4,407.9
2016_Q2*	668.8	334.3	1026.7	818.4	420.6	342.4	354.6	371.4	144.0	347.2	4,828.4
2016_Q3*	661.2	349.6	878.5	833.0	407.0	333.2	399.8	342.2	135.5	306.2	4,646.3
2016_Q4*	672.9	324.1	1007.7	893.1	423.8	346.1	404.7	362.1	134.3	295.4	4,864.2
2017_Q1*	588.6	348.4	949.9	818.1	337.6	300.1	314.9	370.3	166.3	364.1	4,558.3
2017_Q2*	690.0	337.7	1040.9	946.1	426.2	368.4	361.4	406.9	170.4	351.8	5,099.8
2017_Q3**	667.2	354.6	887.8	922.3	390.5	364.6	451.7	391.5	168.0	311.5	4,909.7

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Appendix 14- Services: Value Added by 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 & other Services Activities	Public Administration	Education	Health & Social Work	Community, Social & Personal Service Activities	Total Value Added
2009_Q1		0.7	15.3	18.4	-5.0	-11.5	10.7	2.5	4.1	3.0	-7.8	6.2
2009_Q2		-1.0	-3.4	-12.4	0.3	6.2	-6.7	3.3	4.4	2.1	55.6	0.1
2009_Q3		0.2	-3.7	8.1	3.3	-17.1	-6.2	1.4	1.9	1.6	-14.5	-0.8
2009_Q4		9.1	-9.2	-4.1	13.7	88.4	0.8	0.9	1.1	4.7	-19.2	3.1
2010_Q1		6.0	23.6	25.1	9.2	-22.3	20.4	-3.6	-1.9	2.8	58.3	12.7
2010_Q2		0.7	-13.5	-16.2	-8.1	-38.5	2.5	4.5	1.4	1.4	-20.2	-9.6
2010_Q3		1.5	13.6	-0.8	11.1	112.1	-7.0	2.6	4.9	3.3	-4.0	6.3
2010_Q4		-3.6	-15.5	5.7	11.5	-4.2	2.6	0.8	2.9	2.3	-13.5	-0.5
2011_Q1		29.8	14.0	12.7	16.9	-19.2	31.1	5.2	-4.8	1.2	-5.7	10.6
2011_Q2		-15.0	-4.0	1.1	-4.0	10.9	-33.7	-0.8	1.8	-3.4	27.0	-4.2
2011_Q3		-8.9	-1.0	-1.1	-3.9	-14.4	31.1	-0.5	2.9	2.6	44.5	3.0
2011_Q4		11.0	17.6	-3.4	-23.7	17.1	13.5	-0.1	3.9	5.2	-5.8	2.1
2012_Q1		2.2	-3.4	118.2	58.5	3.1	2.2	3.6	1.5	2.3	6.7	34.2
2012_Q2		16.8	6.1	-43.9	9.7	1.7	8.4	3.5	-0.8	3.7	-15.5	-15.2
2012_Q3		-9.8	-0.1	-55.5	3.1	8.6	-6.2	-0.7	-0.2	-0.5	-13.6	-17.2
2012_Q4		13.3	-22.1	-0.1	16.9	18.9	1.1	-4.7	4.0	5.8	-1.7	3.1
2013_Q1		12.6	44.7	125.4	-1.0	0.4	-4.5	14.1	2.4	-8.8	73.9	29.1
2013_Q2		-7.1	-0.1	-2.4	-5.9	-5.6	-17.6	1.4	-0.5	10.0	-10.7	-4.8
2013_Q3		-4.5	3.5	-9.7	25.5	11.5	-0.6	-5.6	0.8	8.7	-11.7	-1.1
2013_Q4		6.6	4.8	-10.9	1.5	9.3	1.0	-0.8	6.4	0.7	16.9	1.7
2014_Q1		-12.0	-5.1	9.3	10.8	-15.4	7.5	-2.9	-1.3	-5.0	-9.2	-1.3
2014_Q2		19.5	3.1	16.9	3.6	47.9	-12.4	1.4	3.7	-0.6	11.9	10.9
2014_Q3		0.8	1.6	-18.0	12.4	-0.1	12.9	-0.1	-0.4	-6.8	-1.3	-2.0
2014_Q4		-0.7	-16.1	17.4	12.3	-13.6	-0.8	1.0	3.0	2.0	-8.3	1.8
2015_Q1		-9.2	17.5	-8.2	-3.4	-12.4	-3.1	-8.8	2.3	18.4	2.9	-3.6
2015_Q2		22.0	-5.8	14.5	2.4	29.3	14.4	5.1	2.0	3.8	9.7	10.6
2015_Q3		-1.0	10.7	-13.9	8.2	-3.5	-1.5	13.6	-2.4	-7.4	-19.5	-2.8
2015_Q4		0.4	-12.8	12.4	9.2	4.2	-3.6	-3.2	8.5	3.5	-6.8	2.9
2016_Q1*		-14.6	12.7	-5.8	-2.5	-19.3	-6.1	-12.4	1.0	33.3	21.1	-3.7
2016_Q2*		20.8	-6.1	11.0	12.0	27.1	15.2	5.3	5.8	-12.4	-4.3	9.5
2016_Q3*		-1.1	4.6	-14.4	1.8	-3.2	-2.7	12.7	-7.8	-5.9	-11.8	-3.8
2016_Q4*		1.8	-7.3	14.7	7.2	4.1	3.9	1.2	5.8	-0.9	-3.5	4.7
2017_Q1*		-12.5	7.5	-5.7	-8.4	-20.3	-13.3	-22.2	2.3	23.8	23.3	-6.3
2017_Q2*		17.2	-3.1	9.6	15.7	26.3	22.8	14.8	9.9	2.5	-3.4	11.9
2017_Q3**		-3.3	5.0	-14.7	-2.5	-8.4	-1.0	25.0	-3.8	-1.4	-11.5	-3.7

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Appendix 15 - Services: Quarterly Value Added by 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 & other Services Activities	Public Administration	Education	Health & Social Work	Community, Social & Personal Service Activities	Total Value Added
2009_Q1	9.5	-10.3	5.3	1.9	-1.9	8.5	13.7	12.0	18.0	-19.6	3.4
2009_Q2	3.9	-3.9	3.9	1.6	72.7	3.6	13.6	13.3	19.9	32.0	10.1
2009_Q3	-0.5	3.4	1.2	-0.3	-39.1	-8.8	11.5	12.0	11.7	19.9	0.4
2009_Q4	9.0	-2.6	7.6	12.0	46.9	-2.3	8.3	12.0	11.8	-0.9	8.8
2010_Q1	14.7	4.5	13.7	28.7	28.9	6.2	1.9	5.6	11.6	70.3	15.5
2010_Q2	16.7	-6.5	8.7	18.0	-25.4	16.8	3.1	2.5	10.8	-12.7	4.3
2010_Q3	18.3	10.3	-0.3	26.8	90.9	15.7	4.3	5.5	12.6	-2.0	11.8
2010_Q4	4.5	2.6	9.9	24.3	-2.9	17.8	4.2	7.4	10.1	4.9	7.8
2011_Q1	27.9	-5.4	-1.0	33.1	0.9	28.3	13.7	4.2	8.4	-37.5	5.8
2011_Q2	7.9	4.9	19.5	39.0	82.1	-17.1	7.9	4.7	3.4	-0.6	12.1
2011_Q3	-3.2	-8.5	19.2	20.2	-26.5	16.9	4.7	2.7	2.7	49.7	8.6
2011_Q4	11.6	27.3	8.9	-17.7	-10.2	29.3	3.8	3.7	5.5	63.1	11.4
2012_Q1	-12.2	7.9	110.8	11.5	14.7	0.9	2.2	10.6	6.6	84.6	35.3
2012_Q2	20.7	19.3	17.0	27.5	5.2	64.9	6.7	7.6	14.5	22.8	19.8
2012_Q3	19.6	20.4	-47.4	36.7	33.4	18.0	6.4	4.4	11.0	-26.6	-3.7
2012_Q4	22.0	-20.3	-45.6	109.5	35.4	5.1	1.5	4.5	11.7	-23.4	-2.8
2013_Q1	34.4	19.4	-43.8	30.9	31.8	-1.9	11.8	5.4	-0.3	24.8	-6.5
2013_Q2	6.8	12.5	-2.1	12.3	22.3	-25.3	9.4	5.8	5.7	31.8	5.0
2013_Q3	13.1	16.5	98.6	36.7	25.5	-20.9	4.1	6.9	15.5	34.7	25.4
2013_Q4	6.5	56.8	77.2	18.7	15.4	-21.0	8.4	9.3	9.9	60.3	23.6
2014_Q1	-16.8	2.8	-14.0	32.7	-2.7	-11.1	-7.8	5.3	14.4	-16.3	-5.5
2014_Q2	7.0	6.0	2.9	46.0	52.5	-5.5	-7.7	9.7	3.4	4.9	10.1
2014_Q3	13.0	4.1	-6.6	30.8	36.7	7.3	-2.3	8.5	-11.3	17.3	9.1
2014_Q4	5.2	-16.7	23.0	44.7	8.0	5.4	-0.6	5.0	-10.3	-8.1	9.2
2015_Q1	8.6	3.2	3.3	26.2	11.9	-4.9	-6.6	8.9	11.9	4.2	6.7
2015_Q2	10.9	-5.7	1.2	24.7	-2.2	24.1	-3.3	7.1	16.9	2.1	6.4
2015_Q3	9.0	2.8	6.2	20.1	-5.5	8.3	10.0	4.9	16.1	-16.7	5.6
2015_Q4	10.1	6.8	1.8	16.8	13.9	5.2	5.4	10.5	17.9	-15.3	6.7
2016_Q1*	3.6	2.5	4.5	17.8	4.9	1.9	1.2	9.1	32.7	-0.3	6.6
2016_Q2*	2.5	2.2	1.2	29.0	3.2	2.7	1.5	13.2	11.9	-13.0	5.5
2016_Q3*	2.4	-3.5	0.6	21.4	3.4	1.4	0.6	6.9	13.8	-4.7	4.5
2016_Q4*	3.8	2.7	2.7	19.2	3.4	9.3	5.3	4.2	8.9	-1.4	6.3
2017_Q1*	6.3	-2.1	2.7	12.0	2.0	1.0	-6.5	5.5	1.1	0.4	3.4
2017_Q2*	3.2	1.0	1.4	15.6	1.3	7.6	1.9	9.6	18.3	1.3	5.6
2017_Q3**	0.9	1.4	1.1	10.7	-4.1	9.4	13.0	14.4	24.0	1.7	5.7

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Appendix 16- Seasonally Adjusted Quarterly Value Added and Gross Domestic Product at Constant 2006 Prices by Economic Activity											
Year Quarter	Quarterly Value Added (GHc Million)							Quarter-on-Quarter Change (%)			
	Agriculture	Industry	Service	FISIM	Total Value Added (GDP @ basic prices)	Net Indirect Taxes	Total (GDP in purchaser's value)	Agriculture	Industry	Service	Total GDP***
2009_Q1	1,460.0	1,160.0	2,454.0	184.7	4,889.3	262.0	5,151.3	3.0	1.0	0.7	-0.2
2009_Q2	1,496.0	1,160.0	2,619.0	198.3	5,076.7	231.0	5,307.7	2.5	0.0	6.7	3.0
2009_Q3	1,531.0	1,179.0	2,544.0	201.8	5,052.2	245.0	5,297.2	2.3	1.6	-2.9	-0.2
2009_Q4	1,568.0	1,193.0	2,653.0	219.2	5,194.8	202.0	5,396.8	2.4	1.2	4.3	1.9
2010_Q1	1,523.0	1,250.1	2,983.7	199.2	5,557.7	168.0	5,725.7	-2.9	4.8	12.5	6.1
2010_Q2	1,683.0	1,206.8	2,764.2	195.3	5,458.7	251.0	5,709.7	10.5	-3.5	-7.4	-0.3
2010_Q3	1,651.0	1,242.9	2,935.9	210.3	5,619.5	320.0	5,939.5	-1.9	3.0	6.2	4.0
2010_Q4	1,585.0	1,354.5	3,036.7	215.8	5,760.4	281.0	6,041.4	-4.0	9.0	3.4	1.7
2011_Q1	1,688.0	1,491.7	3,165.1	225.9	6,118.9	371.0	6,489.9	6.5	10.1	4.2	7.4
2011_Q2	1,624.0	1,746.1	3,122.3	237.3	6,255.1	355.0	6,610.1	-3.8	17.1	-1.4	1.9
2011_Q3	1,490.0	1,897.6	3,202.6	232.2	6,358.0	335.0	6,693.0	-8.3	8.7	2.6	1.3
2011_Q4	1,549.0	2,022.0	3,321.1	238.6	6,653.5	356.0	7,009.5	4.0	6.6	3.7	4.7
2012_Q1	1,633.0	1,873.2	3,463.8	253.8	6,716.2	476.8	7,193.0	5.4	-7.4	4.3	2.6
2012_Q2	1,644.4	1,916.0	3,604.3	267.5	6,897.3	489.3	7,386.6	0.7	2.3	4.1	2.7
2012_Q3	1,656.0	1,959.8	3,573.9	284.3	6,905.4	502.6	7,408.0	0.7	2.3	-0.8	0.3
2012_Q4	1,664.2	1,986.9	3,590.2	304.9	6,936.4	522.6	7,459.0	0.5	1.4	0.5	0.7
2013_Q1	1,724.4	2,026.9	3,525.0	270.7	7,005.5	526.4	7,531.9	3.6	2.0	-1.8	1.0
2013_Q2	1,833.2	2,106.8	3,563.4	288.0	7,215.4	533.9	7,749.4	6.3	3.9	1.1	2.9
2013_Q3	1,762.2	2,115.6	3,761.2	325.2	7,313.8	547.8	7,861.6	-3.9	0.4	5.5	1.4
2013_Q4	1,758.7	2,118.9	3,949.5	328.7	7,498.4	560.8	8,059.2	-0.2	0.2	5.0	2.5
2014_Q1	1,733.9	2,109.6	3,893.3	327.7	7,409.1	577.7	7,986.7	-1.4	-0.4	-1.4	-0.9
2014_Q2	1,704.3	2,112.3	3,991.7	352.5	7,455.7	580.2	8,036.0	-1.7	0.1	2.5	0.6
2014_Q3	1,816.3	2,136.1	4,079.2	343.9	7,687.6	593.9	8,281.6	6.6	1.1	2.2	3.1
2014_Q4	1,840.5	2,135.5	4,169.5	348.5	7,797.0	583.5	8,380.5	1.3	0.0	2.2	1.2
2015_Q1	1,841.6	2,133.4	4,234.2	341.8	7,867.5	589.6	8,457.0	0.1	-0.1	1.6	0.9
2015_Q2	1,850.8	2,125.9	4,302.9	344.8	7,934.8	594.9	8,529.7	0.5	-0.4	1.6	0.9
2015_Q3	1,878.5	2,117.1	4,361.6	345.1	8,012.2	600.4	8,612.5	1.5	-0.4	1.4	1.0
2015_Q4	1,891.7	2,128.3	4,433.5	357.4	8,096.1	605.9	8,702.0	0.7	0.5	1.6	1.0
2016_Q1*	1,906.1	2,137.9	4,501.5	372.0	8,173.4	612.2	8,785.7	0.8	0.5	1.5	1.0
2016_Q2*	1,916.2	2,075.4	4,564.9	361.8	8,194.7	613.9	8,808.5	0.5	-2.9	1.4	0.3
2016_Q3*	1,934.8	2,093.8	4,614.7	347.9	8,295.4	621.2	8,916.6	1.0	0.9	1.1	1.2
2016_Q4*	1,947.5	2,118.6	4,686.7	355.2	8,397.7	628.2	9,025.9	0.7	1.2	1.6	1.2
2017_Q1*	1,970.9	2,179.7	4,724.3	355.1	8,519.9	638.7	9,158.6	1.2	2.9	0.8	1.5
2017_Q2*	1,980.0	2,275.4	4,792.1	358.4	8,689.1	652.1	9,341.2	0.5	4.4	1.4	2.0
2017_Q3**	2,047.9	2,366.4	4,858.0	369.1	8,903.3	667.3	9,570.6	3.4	4.0	1.4	2.5

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*** Includes Net Indirect Taxes and FISIM

Appendix 17 - Agriculture: Seasonally Adjusted Value Added by Activity						
Year	Quarter	Quarterly Value Added (GHc Million)				Total Value Added
		Crops & Cocoa	Livestock	Forestry & Logging	Fishing	
2009_Q1		1,036.0	120.0	173.0	131.0	1,460.0
2009_Q2		1,079.0	126.0	171.0	120.0	1,496.0
2009_Q3		1,131.0	127.0	172.0	101.0	1,531.0
2009_Q4		1,153.0	128.0	172.0	115.0	1,568.0
2010_Q1		1,066.0	122.0	225.0	110.0	1,523.0
2010_Q2		1,251.0	128.0	179.0	125.0	1,683.0
2010_Q3		1,200.0	133.0	190.0	128.0	1,651.0
2010_Q4		1,174.0	139.0	174.0	98.0	1,585.0
2011_Q1		1,104.0	119.0	365.0	100.0	1,688.0
2011_Q2		1,264.0	103.0	155.0	102.0	1,624.0
2011_Q3		1,237.0	97.0	50.0	106.0	1,490.0
2011_Q4		1,234.0	178.0	21.0	116.0	1,549.0
2012_Q1		1,217.1	139.6	160.5	115.8	1,633.0
2012_Q2		1,217.2	140.6	167.8	118.9	1,644.4
2012_Q3		1,225.7	141.4	173.0	115.9	1,656.0
2012_Q4		1,228.8	145.3	173.7	116.4	1,664.2
2013_Q1		1,273.5	146.0	189.2	115.8	1,724.4
2013_Q2		1,357.5	158.9	197.7	119.1	1,833.2
2013_Q3		1,271.4	172.1	196.7	122.0	1,762.2
2013_Q4		1,301.1	153.0	181.7	122.9	1,758.7
2014_Q1		1,271.5	156.0	180.5	125.8	1,733.9
2014_Q2		1,246.1	156.5	177.0	124.6	1,704.3
2014_Q3		1,363.1	159.0	175.9	118.3	1,816.3
2014_Q4		1,374.8	161.1	188.6	116.1	1,840.5
2015_Q1		1,377.1	162.3	184.5	117.7	1,841.6
2015_Q2		1,382.3	163.8	185.7	119.0	1,850.8
2015_Q3		1,400.8	165.6	192.5	119.6	1,878.5
2015_Q4		1,409.8	169.6	191.3	121.1	1,891.7
2016_Q1*		1,415.4	171.6	195.9	123.2	1,906.1
2016_Q2*		1,420.4	173.6	197.3	124.8	1,916.2
2016_Q3*		1,435.7	175.5	197.2	126.4	1,934.8
2016_Q4*		1,444.9	178.6	196.1	128.0	1,947.5
2017_Q1*		1,459.9	180.7	197.7	132.6	1,970.9
2017_Q2*		1,472.3	182.7	198.2	126.8	1,980.0
2017_Q3**		1,520.7	184.7	197.6	144.9	2,047.9

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Appendix 18 - Agriculture: Seasonally Adjusted Value Added by Activity						
Year	Quarter	Quarter-on-Quarter Change (%)				Total Value Added
		Crops & Cocoa	Livestock	Forestry & Logging	Fishing	
2009_Q1		2.1	5.3	3.0	8.3	3.0
2009_Q2		4.2	5.0	-1.2	-8.4	2.5
2009_Q3		4.8	0.8	0.6	-15.8	2.3
2009_Q4		1.9	0.8	0.0	13.9	2.4
2010_Q1		-7.5	-4.7	30.8	-4.3	-2.9
2010_Q2		17.4	4.9	-20.4	13.6	10.5
2010_Q3		-4.1	3.9	6.1	2.4	-1.9
2010_Q4		-2.2	4.5	-8.4	-23.4	-4.0
2011_Q1		-6.0	-14.4	109.8	2.0	6.5
2011_Q2		14.5	-13.4	-57.5	2.0	-3.8
2011_Q3		-2.1	-5.8	-67.7	3.9	-8.3
2011_Q4		-0.2	83.5	-58.0	9.4	4.0
2012_Q1		-1.4	-21.6	664.3	-0.2	5.4
2012_Q2		0.0	0.7	4.5	2.6	0.7
2012_Q3		0.7	0.6	3.2	-2.5	0.7
2012_Q4		0.3	2.8	0.4	0.4	0.5
2013_Q1		3.6	0.5	8.9	-0.5	3.6
2013_Q2		6.6	8.9	4.5	2.9	6.3
2013_Q3		-6.3	8.3	-0.5	2.4	-3.9
2013_Q4		2.3	-11.1	-7.6	0.8	-0.2
2014_Q1		-2.3	2.0	-0.6	2.3	-1.4
2014_Q2		-2.0	0.3	-1.9	-1.0	-1.7
2014_Q3		9.4	1.5	-0.7	-5.0	6.6
2014_Q4		0.9	1.3	7.2	-1.9	1.3
2015_Q1		0.2	0.8	-2.2	1.4	0.1
2015_Q2		0.4	0.9	0.6	1.1	0.5
2015_Q3		1.3	1.1	3.7	0.5	1.5
2015_Q4		0.6	2.4	-0.6	1.2	0.7
2016_Q1*		0.4	1.2	2.4	1.7	0.8
2016_Q2*		0.4	1.1	0.7	1.4	0.5
2016_Q3*		1.1	1.1	-0.1	1.2	1.0
2016_Q4*		0.6	1.8	-0.6	1.3	0.7
2017_Q1*		1.0	1.2	0.8	3.6	1.2
2017_Q2*		0.9	1.1	0.2	-4.4	0.5
2017_Q3**		3.3	1.1	-0.3	14.2	3.4

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Appendix 19 - Agriculture: Seasonally Adjusted Value Added by Activity						
Year	Quarter	Year-on-Year Change (%)				Total Value Added
		Crops & Cocoa	Livestock	Forestry & Logging	Fishing	
2009_Q1		5.8	-4.8	-2.3	20.2	5.0
2009_Q2		5.0	2.4	0.6	-9.8	2.9
2009_Q3		9.9	5.0	1.2	-18.5	6.0
2009_Q4		13.6	12.3	2.4	-5.0	10.6
2010_Q1		2.9	1.7	30.1	-16.0	4.3
2010_Q2		15.9	1.6	4.7	4.2	12.5
2010_Q3		6.1	4.7	10.5	26.7	7.8
2010_Q4		1.8	8.6	1.2	-14.8	1.1
2011_Q1		3.6	-2.5	62.2	-9.1	10.8
2011_Q2		1.0	-19.5	-13.4	-18.4	-3.5
2011_Q3		3.1	-27.1	-73.7	-17.2	-9.8
2011_Q4		5.1	28.1	-87.9	18.4	-2.3
2012_Q1		10.2	17.3	-56.0	15.8	-3.3
2012_Q2		-3.7	36.5	8.2	16.5	1.3
2012_Q3		-0.9	45.8	246.1	9.3	11.1
2012_Q4		-0.4	-18.4	727.3	0.3	7.4
2013_Q1		4.6	4.6	17.9	0.0	5.6
2013_Q2		11.5	13.1	17.9	0.2	11.5
2013_Q3		3.7	21.7	13.7	5.3	6.4
2013_Q4		5.9	5.3	4.6	5.7	5.7
2014_Q1		-0.2	6.9	-4.6	8.7	0.5
2014_Q2		-8.2	-1.5	-10.5	4.6	-7.0
2014_Q3		7.2	-7.7	-10.6	-3.0	3.1
2014_Q4		5.7	5.3	3.8	-5.6	4.6
2015_Q1		8.3	4.1	2.2	-6.4	6.2
2015_Q2		10.9	4.6	4.9	-4.4	8.6
2015_Q3		2.8	4.2	9.4	1.1	3.4
2015_Q4		2.5	5.3	1.4	4.3	2.8
2016_Q1*		2.8	5.7	6.2	4.7	3.5
2016_Q2*		2.8	6.0	6.3	4.9	3.5
2016_Q3*		2.5	6.0	2.5	5.6	3.0
2016_Q4*		2.5	5.3	2.5	5.7	3.0
2017_Q1*		3.1	5.3	1.0	7.7	3.4
2017_Q2*		3.7	5.3	0.4	1.6	3.3
2017_Q3**		5.9	5.3	0.2	14.6	5.8

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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 & Sewerage	Construction	Total Value Added
2009_Q1	134.0	460.0	37.0	61.0	468.0	1,160.0
2009_Q2	138.0	470.0	38.0	60.0	454.0	1,160.0
2009_Q3	135.0	460.0	37.0	62.0	485.0	1,179.0
2009_Q4	138.0	454.0	39.0	63.0	499.0	1,193.0
2010_Q1	121.7	549.8	43.0	62.7	473.0	1,250.1
2010_Q2	138.0	474.1	44.0	64.7	486.0	1,206.8
2010_Q3	187.7	464.1	44.0	66.1	481.0	1,242.9
2010_Q4	242.9	495.7	39.0	65.9	511.0	1,354.5
2011_Q1	372.0	461.3	40.0	65.4	553.0	1,491.7
2011_Q2	533.1	585.2	41.0	67.9	519.0	1,746.1
2011_Q3	605.6	581.0	43.0	67.0	601.0	1,897.6
2011_Q4	604.9	693.4	44.0	66.7	613.0	2,022.0
2012_Q1	579.3	592.1	43.7	67.1	591.0	1,873.2
2012_Q2	587.0	595.8	44.8	67.1	621.4	1,916.0
2012_Q3	595.1	606.3	45.8	67.7	645.1	1,959.8
2012_Q4	615.5	591.6	46.9	68.2	664.7	1,986.9
2013_Q1	645.7	587.5	48.3	67.6	677.8	2,026.9
2013_Q2	686.5	594.6	50.0	67.2	708.5	2,106.8
2013_Q3	685.8	597.3	52.5	67.3	712.8	2,115.6
2013_Q4	686.8	588.6	54.6	67.1	721.8	2,118.9
2014_Q1	681.0	577.3	54.0	68.0	729.3	2,109.6
2014_Q2	693.5	567.1	55.9	69.1	726.7	2,112.3
2014_Q3	712.6	569.6	56.1	68.4	729.4	2,136.1
2014_Q4	708.5	583.8	54.7	66.4	722.0	2,135.5
2015_Q1	696.8	587.3	53.8	69.1	726.4	2,133.4
2015_Q2	679.7	586.2	50.8	71.5	737.7	2,125.9
2015_Q3	664.0	591.6	48.9	75.9	736.7	2,117.1
2015_Q4	665.1	596.7	49.2	79.7	737.6	2,128.3
2016_Q1*	645.1	605.2	51.0	80.1	756.4	2,137.9
2016_Q2*	574.3	615.2	53.5	78.6	753.8	2,075.4
2016_Q3*	590.5	614.7	53.9	76.6	758.0	2,093.8
2016_Q4*	614.4	613.0	54.9	77.1	759.2	2,118.6
2017_Q1*	660.4	621.6	55.3	77.2	765.2	2,179.7
2017_Q2*	740.4	632.0	56.5	79.7	766.8	2,275.4
2017_Q3**	812.7	640.1	58.4	83.8	771.5	2,366.4

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Appendix 21 - Industry: Seasonally Adjusted Value Added by Activity							
Year	Quarter	Quarter-on-Quarter Change (%)					Total Value Added
		Mining and Quarrying	Manufacturing	Electricity	Water & Sewerage	Construction	
2009_Q1		3.1	-0.6	-2.6	5.2	2.0	1.0
2009_Q2		3.0	2.2	2.7	-1.6	-3.0	0.0
2009_Q3		-2.2	-2.1	-2.6	3.3	6.8	1.6
2009_Q4		2.2	-1.3	5.4	1.6	2.9	1.2
2010_Q1		-11.8	21.1	10.3	-0.5	-5.2	4.8
2010_Q2		13.4	-13.8	2.3	3.3	2.7	-3.5
2010_Q3		36.0	-2.1	0.0	2.2	-1.0	3.0
2010_Q4		29.4	6.8	-11.4	-0.4	6.2	9.0
2011_Q1		53.2	-6.9	2.6	-0.7	8.2	10.1
2011_Q2		43.3	26.9	2.5	3.7	-6.1	17.1
2011_Q3		13.6	-0.7	4.9	-1.3	15.8	8.7
2011_Q4		-0.1	19.4	2.3	-0.4	2.0	6.6
2012_Q1		-4.2	-14.6	-0.7	0.6	-3.6	-7.4
2012_Q2		1.3	0.6	2.5	0.0	5.2	2.3
2012_Q3		1.4	1.8	2.2	0.8	3.8	2.3
2012_Q4		3.4	-2.4	2.5	0.8	3.0	1.4
2013_Q1		4.9	-0.7	3.0	-1.0	2.0	2.0
2013_Q2		6.3	1.2	3.6	-0.5	4.5	3.9
2013_Q3		-0.1	0.5	4.9	0.1	0.6	0.4
2013_Q4		0.1	-1.4	4.0	-0.2	1.3	0.2
2014_Q1		-0.8	-1.9	-1.1	1.3	1.0	-0.4
2014_Q2		1.8	-1.8	3.5	1.5	-0.3	0.1
2014_Q3		2.8	0.4	0.4	-0.9	0.4	1.1
2014_Q4		-0.6	2.5	-2.4	-2.9	-1.0	0.0
2015_Q1		-1.6	0.6	-1.7	4.0	0.6	-0.1
2015_Q2		-2.5	-0.2	-5.6	3.5	1.6	-0.4
2015_Q3		-2.3	0.9	-3.7	6.1	-0.1	-0.4
2015_Q4		0.2	0.9	0.5	5.0	0.1	0.5
2016_Q1*		-3.0	1.4	3.8	0.6	2.6	0.5
2016_Q2*		-11.0	1.7	4.8	-2.0	-0.3	-2.9
2016_Q3*		2.8	-0.1	0.9	-2.5	0.6	0.9
2016_Q4*		4.1	-0.3	1.8	0.6	0.2	1.2
2017_Q1*		7.5	1.4	0.7	0.1	0.8	2.9
2017_Q2*		12.1	1.7	2.2	3.2	0.2	4.4
2017_Q3**		9.8	1.3	3.3	5.2	0.6	4.0

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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 & Sewerage	Construction	Total Value Added
2009_Q1	-3.6	-4.8	15.6	5.2	11.4	2.5
2009_Q2	6.2	2.6	8.6	7.1	7.3	5.3
2009_Q3	1.5	-1.1	2.8	10.7	10.0	4.2
2009_Q4	6.2	-1.9	2.6	8.6	8.7	3.9
2010_Q1	-9.2	19.5	16.2	2.7	1.1	7.8
2010_Q2	0.0	0.9	15.8	7.9	7.0	4.0
2010_Q3	39.0	0.9	18.9	6.7	-0.8	5.4
2010_Q4	76.0	9.2	0.0	4.5	2.4	13.5
2011_Q1	205.7	-16.1	-7.0	4.4	16.9	19.3
2011_Q2	286.3	23.4	-6.8	4.8	6.8	44.7
2011_Q3	222.7	25.2	-2.3	1.3	24.9	52.7
2011_Q4	149.1	39.9	12.8	1.3	20.0	49.3
2012_Q1	55.7	28.4	9.2	2.6	6.9	25.6
2012_Q2	10.1	1.8	9.2	-1.1	19.7	9.7
2012_Q3	-1.7	4.4	6.4	1.0	7.3	3.3
2012_Q4	1.7	-14.7	6.6	2.3	8.4	-1.7
2013_Q1	11.5	-0.8	10.6	0.7	14.7	8.2
2013_Q2	17.0	-0.2	11.7	0.1	14.0	10.0
2013_Q3	15.2	-1.5	14.7	-0.6	10.5	7.9
2013_Q4	11.6	-0.5	16.3	-1.6	8.6	6.6
2014_Q1	5.5	-1.7	11.8	0.7	7.6	4.1
2014_Q2	1.0	-4.6	11.7	2.7	2.6	0.3
2014_Q3	3.9	-4.6	6.9	1.7	2.3	1.0
2014_Q4	3.2	-0.8	0.3	-1.1	0.0	0.8
2015_Q1	2.3	1.7	-0.4	1.6	-0.4	1.1
2015_Q2	-2.0	3.4	-9.1	3.6	1.5	0.6
2015_Q3	-6.8	3.9	-12.8	11.0	1.0	-0.9
2015_Q4	-6.1	2.2	-10.2	20.0	2.2	-0.3
2016_Q1*	-7.4	3.1	-5.1	16.0	4.1	0.2
2016_Q2*	-15.5	5.0	5.3	9.8	2.2	-2.4
2016_Q3*	-11.1	3.9	10.3	0.9	2.9	-1.1
2016_Q4*	-7.6	2.7	11.7	-3.2	2.9	-0.5
2017_Q1*	2.4	2.7	8.4	-3.7	1.2	2.0
2017_Q2*	28.9	2.7	5.7	1.4	1.7	9.6
2017_Q3**	37.6	4.1	8.3	9.3	1.8	13.0

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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 & other Services Activities	Public Administration	Education	Health & Social Work	Community, Social & Personal Service Activities	Total Value Added
2009_Q1	342.0	242.0	699.0	144.0	142.0	142.0	290.0	218.0	76.0	159.0	2,454.0
2009_Q2	347.0	251.0	687.0	152.0	214.0	132.0	300.0	227.0	77.0	232.0	2,619.0
2009_Q3	344.0	243.0	702.0	156.0	112.0	129.0	307.0	233.0	78.0	240.0	2,544.0
2009_Q4	355.0	227.0	702.0	173.0	228.0	121.0	311.0	237.0	81.0	218.0	2,653.0
2010_Q1	391.8	264.8	786.0	190.5	189.9	266.5	297.5	230.9	84.0	282.0	2,983.7
2010_Q2	394.6	229.8	742.0	175.1	116.7	274.8	311.0	234.1	85.1	201.0	2,764.2
2010_Q3	400.7	264.5	685.0	194.5	247.6	259.2	319.0	245.5	87.9	232.0	2,935.9
2010_Q4	386.1	228.8	807.0	216.8	237.3	275.6	321.5	252.7	89.9	221.0	3,036.7
2011_Q1	489.0	254.1	790.0	253.5	191.6	335.0	338.2	240.6	91.1	182.0	3,165.1
2011_Q2	431.0	243.9	864.0	243.3	212.6	229.0	335.5	245.0	88.0	230.0	3,122.3
2011_Q3	398.0	241.4	845.0	233.8	182.0	311.0	334.0	252.1	90.3	315.0	3,202.6
2011_Q4	426.0	283.9	852.0	178.4	213.2	355.0	333.7	262.1	94.9	322.0	3,321.1
2012_Q1	421.9	261.7	1,044.6	239.9	204.4	308.9	338.1	252.5	92.7	299.0	3,463.8
2012_Q2	443.9	273.3	1,059.6	257.1	215.0	347.4	344.5	258.0	96.0	309.6	3,604.3
2012_Q3	462.6	285.1	962.1	275.7	224.4	361.4	349.7	267.0	98.5	287.6	3,573.9
2012_Q4	485.9	270.5	913.4	321.5	243.7	363.0	349.3	266.7	101.0	275.2	3,590.2
2013_Q1	523.7	283.8	719.4	343.4	263.4	361.4	359.2	273.8	100.9	295.9	3,525.0
2013_Q2	532.5	292.9	714.1	352.9	267.9	337.2	367.5	277.8	102.3	318.4	3,563.4
2013_Q3	547.7	304.8	823.3	382.2	289.1	318.5	371.1	278.6	106.2	339.6	3,761.2
2013_Q4	556.2	337.0	908.7	399.7	300.3	299.5	378.6	285.0	108.9	375.8	3,949.5
2014_Q1	531.3	339.2	873.7	429.9	298.3	289.9	371.1	288.7	112.4	358.7	3,893.3
2014_Q2	541.0	344.2	880.8	470.0	334.2	285.9	363.6	295.5	113.3	363.3	3,991.7
2014_Q3	558.0	347.6	866.3	503.7	362.2	291.1	361.4	301.5	110.0	377.5	4,079.2
2014_Q4	565.3	332.8	911.4	553.3	368.9	295.0	360.9	305.2	107.0	369.8	4,169.5
2015_Q1	575.8	335.5	918.4	585.4	377.2	291.2	355.0	311.8	110.3	373.4	4,234.2
2015_Q2	591.9	330.6	921.5	616.9	374.9	307.4	352.0	317.3	114.9	375.5	4,302.9
2015_Q3	605.2	333.1	934.3	645.6	369.1	313.7	361.1	321.0	119.1	359.4	4,361.6
2015_Q4	620.1	338.1	938.5	672.5	381.7	317.6	366.0	329.3	123.8	345.9	4,433.5
2016_Q1*	624.9	340.2	948.4	700.2	385.5	319.0	367.0	336.6	133.9	345.7	4,501.5
2016_Q2*	629.1	342.0	951.5	746.2	388.8	321.3	368.3	347.4	137.7	332.7	4,564.9
2016_Q3*	632.9	338.8	952.9	782.8	392.1	322.4	368.9	353.0	141.8	328.9	4,614.7
2016_Q4*	639.1	341.0	959.5	818.8	395.6	329.7	374.0	356.7	144.6	327.9	4,686.7
2017_Q1*	647.9	339.1	965.7	840.7	397.3	330.5	368.5	361.5	145.0	328.2	4,724.3
2017_Q2*	653.2	340.0	969.2	872.6	398.7	337.0	370.2	370.4	151.6	329.4	4,792.1
2017_Q3**	654.7	341.2	971.5	894.9	394.5	344.8	383.2	382.7	159.7	330.7	4,858.0

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Appendix 24 - Services: 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 & other Services Activities	Public Administration	Education	Health & Social Work	Community, Social & Personal Service Activities	Total Value Added
2009_Q1	5.2	5.2	7.2	-6.5	-8.4	10.9	0.7	2.8	4.1	-27.4	0.7
2009_Q2	1.5	3.7	-1.7	5.6	50.7	-7.0	3.4	4.1	1.3	45.9	6.7
2009_Q3	-0.9	-3.2	2.2	2.6	-47.7	-2.3	2.3	2.6	1.3	3.4	-2.9
2009_Q4	3.2	-6.6	0.0	10.9	103.6	-6.2	1.3	1.7	3.8	-9.2	4.3
2010_Q1	10.4	16.7	12.0	10.1	-16.7	120.3	-4.3	-2.6	3.7	29.4	12.5
2010_Q2	0.7	-13.2	-5.6	-8.1	-38.5	3.1	4.5	1.4	1.4	-28.7	-7.4
2010_Q3	1.5	15.1	-7.7	11.1	112.1	-5.7	2.6	4.9	3.3	15.4	6.2
2010_Q4	-3.6	-13.5	17.8	11.5	-4.2	6.3	0.8	2.9	2.3	-4.7	3.4
2011_Q1	26.7	11.1	-2.1	16.9	-19.2	21.6	5.2	-4.8	1.2	-17.6	4.2
2011_Q2	-11.9	-4.0	9.4	-4.0	10.9	-31.6	-0.8	1.8	-3.4	26.4	-1.4
2011_Q3	-7.7	-1.0	-2.2	-3.9	-14.4	35.8	-0.5	2.9	2.6	37.0	2.6
2011_Q4	7.0	17.6	0.8	-23.7	17.1	14.1	-0.1	3.9	5.2	2.2	3.7
2012_Q1	-1.0	-7.8	22.6	34.5	-4.1	-13.0	1.3	-3.6	-2.3	-7.1	4.3
2012_Q2	5.2	4.4	1.4	7.2	5.2	12.5	1.9	2.2	3.6	3.5	4.1
2012_Q3	4.2	4.3	-9.2	7.2	4.4	4.0	1.5	3.5	2.6	-7.1	-0.8
2012_Q4	5.0	-5.1	-5.1	16.6	8.6	0.4	-0.1	-0.1	2.5	-4.3	0.5
2013_Q1	7.8	4.9	-21.2	6.8	8.1	-0.5	2.8	2.7	-0.1	7.5	-1.8
2013_Q2	1.7	3.2	-0.7	2.8	1.7	-6.7	2.3	1.5	1.4	7.6	1.1
2013_Q3	2.8	4.1	15.3	8.3	7.9	-5.5	1.0	0.3	3.8	6.7	5.5
2013_Q4	1.6	10.5	10.4	4.6	3.9	-6.0	2.0	2.3	2.6	10.6	5.0
2014_Q1	-4.5	0.7	-3.9	7.6	-0.6	-3.2	-2.0	1.3	3.2	-4.5	-1.4
2014_Q2	1.8	1.5	0.8	9.3	12.0	-1.4	-2.0	2.4	0.8	1.3	2.5
2014_Q3	3.1	1.0	-1.6	7.2	8.4	1.8	-0.6	2.0	-2.9	3.9	2.2
2014_Q4	1.3	-4.3	5.2	9.8	1.8	1.3	-0.1	1.2	-2.7	-2.1	2.2
2015_Q1	1.9	0.8	0.8	5.8	2.3	-1.3	-1.6	2.2	3.1	1.0	1.6
2015_Q2	2.8	-1.5	0.3	5.4	-0.6	5.6	-0.8	1.7	4.2	0.6	1.6
2015_Q3	2.2	0.8	1.4	4.7	-1.5	2.1	2.6	1.2	3.6	-4.3	1.4
2015_Q4	2.5	1.5	0.5	4.2	3.4	1.2	1.4	2.6	3.9	-3.8	1.6
2016_Q1*	0.8	0.6	1.1	4.1	1.0	0.4	0.3	2.2	8.2	-0.1	1.5
2016_Q2*	0.7	0.5	0.3	6.6	0.8	0.7	0.3	3.2	2.9	-3.8	1.4
2016_Q3*	0.6	-0.9	0.1	4.9	0.9	0.4	0.2	1.6	3.0	-1.1	1.1
2016_Q4*	1.0	0.6	0.7	4.6	0.9	2.3	1.4	1.0	1.9	-0.3	1.6
2017_Q1*	1.4	-0.5	0.7	2.7	0.4	0.2	-1.5	1.4	0.3	0.1	0.8
2017_Q2*	0.8	0.2	0.4	3.8	0.4	2.0	0.5	2.5	4.5	0.4	1.4
2017_Q3**	0.2	0.4	0.2	2.6	-1.0	2.3	3.5	3.3	5.4	0.4	1.4

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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 & other Services Activities	Public Administration	Education	Health & Social Work	Community, Social & Personal Service Activities	Total Value Added
2009_Q1	9.6	-10.7	5.3	2.1	-4.1	12.7	13.7	12.4	18.8	-19.3	3.5
2009_Q2	3.9	-3.8	3.9	2.0	79.8	4.8	13.6	13.5	20.3	31.8	11.3
2009_Q3	-0.9	2.5	1.2	0.0	-39.8	-17.3	11.2	12.0	11.4	20.0	0.6
2009_Q4	9.2	-1.3	7.7	12.3	47.1	-5.5	8.0	11.8	11.0	-0.5	8.9
2010_Q1	14.5	9.4	12.4	32.3	33.7	87.7	2.6	5.9	10.5	77.4	21.6
2010_Q2	13.7	-8.4	8.0	15.2	-45.4	108.2	3.7	3.1	10.5	-13.4	5.5
2010_Q3	16.5	8.8	-2.4	24.7	121.1	100.9	3.9	5.4	12.7	-3.3	15.4
2010_Q4	8.8	0.8	15.0	25.3	4.1	127.7	3.4	6.6	11.0	1.4	14.5
2011_Q1	24.8	-4.0	0.5	33.1	0.9	25.7	13.7	4.2	8.4	-35.5	6.1
2011_Q2	9.2	6.1	16.4	39.0	82.1	-16.7	7.9	4.7	3.4	14.4	13.0
2011_Q3	-0.7	-8.7	23.4	20.2	-26.5	20.0	4.7	2.7	2.7	35.8	9.1
2011_Q4	10.3	24.1	5.6	-17.7	-10.2	28.8	3.8	3.7	5.5	45.7	9.4
2012_Q1	-13.7	3.0	32.2	-5.4	6.7	-7.8	0.0	5.0	1.8	64.3	9.4
2012_Q2	3.0	12.1	22.6	5.7	1.1	51.7	2.7	5.3	9.1	34.6	15.4
2012_Q3	16.2	18.1	13.9	17.9	23.3	16.2	4.7	5.9	9.2	-8.7	11.6
2012_Q4	14.1	-4.7	7.2	80.3	14.3	2.3	4.7	1.8	6.4	-14.5	8.1
2013_Q1	24.1	8.5	-31.1	43.1	28.9	17.0	6.2	8.4	8.8	-1.0	1.8
2013_Q2	20.0	7.2	-32.6	37.2	24.6	-2.9	6.7	7.7	6.5	2.9	-1.1
2013_Q3	18.4	6.9	-14.4	38.7	28.8	-11.9	6.1	4.4	7.8	18.1	5.2
2013_Q4	14.5	24.6	-0.5	24.3	23.2	-17.5	8.4	6.9	7.8	36.5	10.0
2014_Q1	1.5	19.5	21.4	25.2	13.2	-19.8	3.3	5.5	11.4	21.2	10.5
2014_Q2	1.6	17.5	23.3	33.2	24.8	-15.2	-1.1	6.4	10.7	14.1	12.0
2014_Q3	1.9	14.0	5.2	31.8	25.3	-8.6	-2.6	8.2	3.6	11.2	8.5
2014_Q4	1.6	-1.2	0.3	38.4	22.9	-1.5	-4.7	7.1	-1.7	-1.6	5.6
2015_Q1	8.4	-1.1	5.1	36.2	26.5	0.5	-4.3	8.0	-1.8	4.1	8.8
2015_Q2	9.4	-4.0	4.6	31.3	12.2	7.5	-3.2	7.4	1.5	3.4	7.8
2015_Q3	8.5	-4.2	7.8	28.2	1.9	7.8	-0.1	6.5	8.3	-4.8	6.9
2015_Q4	9.7	1.6	3.0	21.6	3.5	7.7	1.4	7.9	15.7	-6.4	6.3
2016_Q1*	8.5	1.4	3.3	19.6	2.2	9.6	3.4	7.9	21.4	-7.4	6.3
2016_Q2*	6.3	3.5	3.3	21.0	3.7	4.5	4.6	9.5	19.8	-11.4	6.1
2016_Q3*	4.6	1.7	2.0	21.2	6.2	2.8	2.2	10.0	19.1	-8.5	5.8
2016_Q4*	3.1	0.9	2.2	21.7	3.6	3.8	2.2	8.3	16.8	-5.2	5.7
2017_Q1*	3.7	-0.3	1.8	20.1	3.0	3.6	0.4	7.4	8.3	-5.0	5.0
2017_Q2*	3.8	-0.6	1.9	16.9	2.5	4.9	0.5	6.6	10.1	-1.0	5.0
2017_Q3**	3.4	0.7	2.0	14.3	0.6	7.0	3.9	8.4	12.6	0.5	5.3

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