



**Charcoal Price Tracking**  
*in*  
**Major Urban Centres of Ghana**

**January – December 2013**

**Strategic Planning & Policy Division**

## FOREWORD

The Energy Commission is mandated by law; Energy Commission Act 1997 (Act 541) to prepare, review and update periodically indicative national energy plans to ensure that reasonable demands of energy are met in a sustainable manner. In fulfillment of its mandate, the Commission has been compiling charcoal prices in major urban centres of the country to enable it undertake effective long term woodfuel supply and demand planning for the country.

Woodfuel accounts for over 50% of the country's total final energy consumption. According to the 2010 national population census, about 73% and 16% rural households used firewood and charcoal respectively for cooking. For urban households, about 25% and over 50% still depend on firewood and charcoal respectively for cooking.

The demand for wood for charcoal production has increased at an average of 1.2% annually since 2008 whilst firewood demand has been falling at an average of about 7% per annum over the same period emanating from demand for higher forms of energy sources in line with Ghana's attainment of middle-income developing country status. However for every unit of charcoal produced, three-to-five units of wood are used depending on the wood type and the moisture content. Such developments could have more serious demand implications on the country's woodfuel resource base, which is already threatened by the high deforestation rate in the country.

It is our expectation that the information contained in this report would be useful to a wide range of users to facilitate effective broad base long term and sustainable woodfuel planning and management for the country.

We would appreciate very much any feedback by way of comments and suggestions from readers and users of the report.

A.K. Ofosu Ahenkorah, PhD  
**Executive Secretary**

### **Energy Commission**

PMB, Ministries Post Office

Accra **GHANA**

Tel: 233 302 813756/7/9

Fax: 233 302 813764/2

Email: info@energycom.gov.gh

### Office location:

Ghana Airways Avenue

Airport Residential Area, Accra

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## **CHAPTER ONE: GENERAL INTRODUCTION**

### **1.0 Introduction**

This report presents key findings/results of a survey on charcoal pricing in selected major urban centres/district/markets across the ten regions in the country for the period **January - December, 2013**. This chapter outlines the background to the survey, its objectives and organization of the report.

### **1.1 Background**

The Strategic National Energy Plan (SNEP, 2006 - 2020) released by the Energy Commission in 2006 indicated that woodfuel accounts for about 60% of the country's total final energy by 2000. Furthermore, the Ghana Statistical Services reported in 2005 through the Ghana Living Standard Survey (GLSS5, 2008, Fifth Round), that about 80% of rural households and 53% of urban households use woodfuel for cooking in 2005. Again, according to Ghana Population & Housing Census (2010, Ghana Statistical Services), about 73% of rural households and 48% of urban households use firewood and charcoal respectively for cooking in 2010.

The Strategic National Energy Plan is being updated in 2014. This will involve the evaluation of future energy demand for all forms of energy and analysis of all supply possibilities to ensure that all reasonable demand for energy up to 2030 are met sustainably.

As part of the woodfuel planning process, this project seeks to collect the prices of charcoal in major charcoal consuming urban centres and regions of the country.

### **1.2 Objective of Study**

The objective of the project is to collect data on charcoal market prices and weights in selected markets/centres/districts in each region of the country to build a database for the update of our Energy Statistics, Energy Outlook for Ghana and also for policy interventions.

### **1.3 Organization of the Report**

The report is organized as follows: Chapter 1 covers introduction, background and objective of study. Chapter 2 presents the methodology for the survey, and the analysis of the data. Presentation of the results/findings of the analysis is found in Chapter 3. Chapter 4 gives conclusion. Summary Statistics and their normal distribution curves are added as Appendix.

## **CHAPTER TWO: SURVEY METHODOLOGY AND ANALYSIS OF DATA**

### **2.0 Introduction**

This chapter presents the methodology adopted in undertaking the survey. This comprises survey instrument design, sample selection, training of field enumerators, pre-testing of questionnaires, survey implementation, quality control procedures, design of data entry system, data entry, data cleaning, data accuracy, data analysis and report writing.

### **2.1 Survey Instrument Design**

The survey instrument was designed for charcoal price tracking study. This initial survey instrument was peer-reviewed and revised after a series of interactive working sessions. The survey instrument sought to collect information on the charcoal supply and charcoal sales (pricing) throughout the country.

The questionnaires were then assigned unique identification numbers to facilitate back-tracking the data entered on the questionnaires to actual respondents in the case of data entry errors.

### **2.2 Sample Design and Selection**

In all, 39 major charcoal consuming urban centres in the ten regions of the country were selected purposefully for the exercise. Then, in each market Centre, two charcoal dealers were randomly selected and the required information/responses elicited from them.

### **2.3 Training of Field Enumerators**

Field enumerators were then trained on techniques of questionnaire administration and other relevant topics in the energy field. The training was held in all the ten regional capitals of the country. The training comprised theoretical instruction, mock questionnaire administration and pre-testing of the questionnaires.

After the training exercise, the enumerators were given the questionnaires so that they could begin collecting the data from their respective markets centres.

The field enumerators are to visit their respective market centres every two weeks and elicit responses on the prices of charcoal from two customers in the same market but who are unknown to each other. The responses are then transmitted through the postal system or over the internet to the Energy Commission for compilation and analysis.

## **2.4 Design of Data Entry Template**

The Data Entry Template was designed using Census and Survey Processing System (CSPro). CSPro is a public domain statistical software package developed by the United States of America Census Bureau, Macro. CSPro is used for entering, editing, tabulating, and disseminating census and survey data. The appearance of the template closely resembles the questionnaires used for the data collection. Controls or codes were built in the design of the data entry template to minimize data entry errors. These controls ensured logical sequencing of questions and range checks. All data entry records were subjected to double entry by allowing two entry clerks to enter the same record. Part of the CSPro data entry structure used to capture the field data for analysis is provided in Appendix A.1.

## **2.5 Data capture and Analysis**

The field data captured using CSPro template was subjected to cleaning using STATA (a data analysis and statistical software) to identify data omissions; eliminate data entry errors and outliers. This was done to obtain quality data for the analysis. Copies of the field questionnaires and the un-cleaned data captured using the CSPro templates were preserved to allow for data verification during the subsequent data analysis stage(s).

Statistical and analytical tools such as SPSS, STATA and Excel are all employed to analyse and generate descriptive statistics, frequency distribution tables and their normal distributions.

The variables considered for the analysis include:

- price of charcoal (quantitative and continuous data);
- charcoal supply points/ production areas (qualitative and discrete data);

## **2.6 Presentation of Results**

The results/findings of the analysis of the data are presented in the following tables in chapter 3.



## CHAPTER THREE: RESULTS

### 3.1 Results

**Table 3.1: Mean Weights of Charcoal in kilogramme (kg)**

Charcoal Source	Average Weights (kg)				Moisture Content
	Maxi Bag	Mean	Mini Bag	Mean	
1. Saw mill residue	44 - 45	<b>44.50</b>	21 - 22	<b>21.50</b>	Up to 40%
2. Savanna	55 - 60	<b>57.50</b>	30 - 32	<b>31.00</b>	Up to 20%
3. Acacia plantation	57 - 63	<b>60.00</b>	31 - 32	<b>31.50</b>	Up to 20%
4. All other wood	50 - 55	<b>52.50</b>	25 - 27	<b>26.00</b>	Up to 25%

Table 3.1 is used in the calculations of the tables involving the average prices of charcoal in Ghana Cedis per kg. The **mean values** are used in all the calculation of the price per unit weight for the various Regions.

**Table 3.2: January 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	22.88	23.75	24.00	17.25	17.50	18.00
	Akim Oda	21.75	21.50	20.00	16.75	16.50	16.00
	Donkorkrom	12.25	12.25	12.50	9.38	9.25	9.00
<b>Volta</b>	Nkwanta	30.50	30.50	31.00	12.50	12.50	13.00
	Denu	33.25	33.25	33.00	21.50	21.50	21.50
	Ho	36.25	36.50	38.00	18.25	19.00	19.00
<b>Central</b>	Winneba	26.13	26.00	26.00	19.75	20.00	20.00
	Cape-Coast	31.25	31.50	32.00	21.88	22.00	22.00
	Swedru	20.50	20.50	20.00	17.88	18.00	18.00
<b>Western</b>	Axim	28.75	29.00	29.00	14.38	14.50	14.50
	Sekondi	31.25	30.00	30.00	16.00	16.00	16.00
	Takoradi	27.50	27.50	28.00	18.00	18.00	18.00
	Tarkwa	18.50	18.50	19.00	13.88	14.00	14.00
	Juaboso	20.00	20.00	20.00	10.00	10.00	10.00
<b>Ashanti</b>	Konongo	18.63	18.75	19.00	11.25	11.50	12.00
	Kumasi	12.88	13.00	13.00	8.50	8.50	10.00
	Offinso	16.00	16.00	16.00	8.00	8.00	8.00
<b>Brong Ahafo</b>	Nkoranza South	11.00	11.00	11.00	6.00	6.00	6.00
	Atebubu	10.50	10.50	10.00	5.25	5.00	5.00
	Sunyani Municipal	15.00	15.00	15.00	7.25	7.00	7.00
	Techiman	13.00	13.00	13.00	7.25	7.00	7.00
	Jaman North	11.75	12.00	12.00	8.00	8.00	8.00
	Kintampo	9.00	9.00	9.00	6.00	6.00	6.00
<b>Northern</b>	Tamale	18.75	19.00	19.00	8.25	8.00	8.00
	Salaga	16.75	16.50	15.00	7.50	7.50	7.00
	Yendi	18.75	18.50	18.00	10.25	10.00	10.00
<b>Upper East</b>	Navorongo	29.75	30.00	30.00	14.75	15.00	15.00
	Bawku	20.25	20.00	20.00	10.25	10.00	10.00
	Bolga	18.50	18.50	18.00	13.25	13.00	13.00
<b>Upper West</b>	Jirapa	15.00	15.00	15.00	10.00	10.00	10.00
	Sissala East	10.00	10.00	10.00	5.00	5.00	5.00
	Wa	20.75	21.00	21.00	12.25	12.00	12.00
<b>Greater Accra</b>	Tema	25.00	24.50	23.00	16.00	15.50	13.00
	Ashaiman	19.00	19.00	19.00	15.75	15.50	15.00
	Accra	22.58	24.00	25.00	17.00	17.00	14.00
<b>Ghana</b>	<b>Country Average</b>	<b>20.43</b>	<b>19.00</b>	<b>19.00</b>	<b>12.66</b>	<b>13.00</b>	<b>10.00</b>

**Table 3.3: January 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
Eastern	18.96	20.00	24.00	14.46	16.00	18.00
Volta	33.33	33.25	33.00	17.42	19.00	19.00
Central	25.96	26.00	26.00	19.83	20.00	22.00
Western	25.20	27.50	20.00	14.45	14.50	14.00
Ashanti	15.09	15.50	16.00	9.06	8.50	8.00
Brong Ahafo	11.71	11.00	11.00	6.63	6.50	6.00
Northern	18.08	18.50	19.00	8.67	8.00	8.00
Upper East	22.83	20.00	20.00	12.75	12.00	10.00
Upper West	15.25	15.00	15.00	9.08	10.00	10.00
Greater Accra	22.79	23.00	19.00	16.46	17.00	17.00
<b>Country Average</b>	<b>20.43</b>	<b>19.00</b>	<b>19.00</b>	<b>12.66</b>	<b>13.00</b>	<b>10.00</b>

**Table 3.4: Average Prices of charcoal in Ghana Cedis per kg by Regions: January 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
Eastern	0.36	0.38	0.46	0.56	0.62	0.69
Volta	0.63	0.63	0.63	0.67	0.73	0.73
Central	0.43	0.43	0.43	0.63	0.63	0.70
Western	0.48	0.52	0.38	0.56	0.56	0.54
Ashanti	0.29	0.30	0.30	0.35	0.33	0.31
Brong Ahafo	0.20	0.19	0.19	0.21	0.21	0.19
Northern	0.31	0.32	0.33	0.28	0.26	0.26
Upper East	0.40	0.35	0.35	0.41	0.39	0.32
Upper West	0.27	0.26	0.26	0.29	0.32	0.32
Greater Accra	0.38	0.38	0.32	0.52	0.54	0.54

**Table 3.2: February 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	21.88	21.75	20.00	14.00	14.00	14.00
	Akim Oda	19.00	19.00	19.00	15.75	16.00	16.00
	Donkorkrom	12.25	12.25	12.50	9.38	9.25	9.00
<b>Volta</b>	Nkwanta	30.50	30.50	31.00	12.50	12.50	13.00
	Denu	33.63	33.75	34.00	21.75	22.00	22.00
	Ho	38.00	38.00	38.00	19.00	19.00	19.00
<b>Central</b>	Winneba	26.25	26.25	26.00	19.25	19.00	19.00
	Cape-Coast	31.25	31.50	32.00	21.88	22.00	22.00
	Swedru	21.00	21.00	21.00	18.13	18.00	18.00
<b>Western</b>	Axim	28.00	28.00	28.00	14.00	14.00	14.00
	Sekondi	30.50	30.50	30.00	17.00	17.00	17.00
	Takoradi	27.50	27.50	28.00	18.25	18.00	18.00
	Tarkwa	19.25	19.50	20.00	14.13	14.00	14.00
	Juaboso	20.50	20.50	21.00	10.63	10.75	11.00
<b>Ashanti</b>	Konongo	18.00	18.00	18.00	11.00	11.00	11.00
	Kumasi	14.25	14.50	11.00	8.63	9.00	9.00
	Offinso	16.00	16.00	16.00	8.00	8.00	8.00
<b>Brong Ahafo</b>	Nkoranza South	12.75	13.00	13.00	6.00	6.00	6.00
	Atebubu	10.00	10.00	10.00	5.50	5.50	5.00
	Sunyani						
	Municipal	15.50	15.50	16.00	8.50	8.50	8.00
	Techiman	13.00	13.00	13.00	8.00	8.00	8.00
	Jaman North	12.50	12.50	13.00	8.25	8.00	8.00
	Kintampo	10.00	10.00	10.00	5.50	5.50	5.00
<b>Northern</b>	Tamale	19.00	19.00	19.00	8.00	8.00	8.00
	Salaga	16.75	16.50	15.00	7.50	7.50	7.00
	Yendi	18.00	18.00	18.00	9.75	10.00	10.00
<b>Upper East</b>	Navorongo	29.00	30.00	30.00	14.75	15.00	15.00
	Bawku	21.25	21.00	21.00	11.00	11.00	11.00
	Bolga	18.75	19.00	19.00	13.50	13.50	14.00
<b>Upper West</b>	Jirapa	15.00	15.00	15.00	10.00	10.00	10.00
	Sissala East	10.00	10.00	10.00	5.00	5.00	5.00
	Wa	20.75	21.00	21.00	12.25	12.00	12.00
<b>Greater Accra</b>	Tema	25.50	25.50	28.00	16.50	16.50	20.00
	Ashaiman	20.00	20.00	20.00	16.25	16.00	16.00
	Accra	22.79	23.75	25.00	17.42	17.42	18.00
<b>Ghana</b>	<b>Country Average</b>	<b>20.61</b>	<b>20.00</b>	<b>20.00</b>	<b>12.74</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.6: February 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	17.71	19.00	20.00	13.04	14.00	16.00
<b>Volta</b>	34.04	33.75	38.00	17.75	19.00	19.00
<b>Central</b>	26.17	26.25	21.00	19.75	19.00	18.00
<b>Western</b>	25.15	27.50	28.00	14.80	14.00	14.00
<b>Ashanti</b>	15.63	16.00	18.00	9.06	9.00	8.00
<b>Brong Ahafo</b>	12.29	13.00	13.00	6.96	7.00	8.00
<b>Northern</b>	17.92	18.00	19.00	8.42	8.00	8.00
<b>Upper East</b>	23.00	21.00	19.00	13.08	12.50	14.00
<b>Upper West</b>	15.25	15.00	15.00	9.08	10.00	10.00
<b>Greater Accra</b>	23.23	23.00	20.00	16.92	17.50	17.50
<b>Country Average</b>	<b>20.61</b>	<b>20.00</b>	<b>20.00</b>	<b>12.74</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.7: Average Prices of charcoal in Ghana Cedis per kg by Regions: February 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.34	0.36	0.38	0.50	0.54	0.62
<b>Volta</b>	0.65	0.64	0.72	0.68	0.73	0.73
<b>Central</b>	0.44	0.44	0.35	0.63	0.60	0.57
<b>Western</b>	0.48	0.52	0.53	0.57	0.54	0.54
<b>Ashanti</b>	0.30	0.30	0.34	0.35	0.35	0.31
<b>Brong Ahafo</b>	0.21	0.23	0.23	0.22	0.23	0.26
<b>Northern</b>	0.31	0.31	0.33	0.27	0.26	0.26
<b>Upper East</b>	0.40	0.37	0.33	0.42	0.40	0.45
<b>Upper West</b>	0.27	0.26	0.26	0.29	0.32	0.32
<b>Greater Accra</b>	0.39	0.38	0.33	0.54	0.56	0.56

**Table 3.8: March 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
Eastern	Koforidua	22.88	22.75	22.00	13.75	13.50	13.00
	Akim Oda	19.00	19.00	19.00	15.75	16.00	16.00
	Donkorkrom	12.63	12.75	13.00	9.38	9.25	9.00
Volta	Nkwanta	30.50	30.50	31.00	12.50	12.50	13.00
	Denu	33.88	34.00	34.00	21.75	22.00	22.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
Central	Winneba	27.00	27.00	27.00	20.00	20.00	20.00
	Cape-Coast	31.75	32.00	32.00	22.00	22.00	22.00
	Swedru	21.00	21.00	21.00	18.13	18.00	18.00
Western	Axim	28.00	28.00	28.00	14.50	14.50	15.00
	Sekondi	31.25	30.00	30.00	16.00	16.00	16.00
	Takoradi	27.50	27.50	28.00	18.25	18.00	18.00
	Tarkwa	19.25	19.50	20.00	14.13	14.00	14.00
	Juaboso	20.50	20.50	21.00	11.00	11.00	11.00
Ashanti	Konongo	18.75	18.50	18.00	11.25	11.00	11.00
	Kumasi	14.38	14.00	11.00	7.50	8.00	8.00
	Offinso	16.00	16.00	16.00	8.00	8.00	8.00
Brong Ahafo	Nkoranza South	13.00	13.00	13.00	6.50	6.50	6.50
	Atebubu	10.50	10.50	11.00	6.50	6.50	7.00
	Sunyani Municipal	15.50	15.50	16.00	8.50	8.50	8.00
	Techiman	14.00	14.00	14.00	8.00	8.00	8.00
	Jaman North	11.75	12.00	12.00	7.50	7.50	8.00
	Kintampo	11.00	11.00	11.00	5.00	5.00	5.00
Northern	Tamale	19.00	19.00	19.00	8.00	8.00	8.00
	Salaga	16.75	16.50	15.00	7.50	7.50	7.00
	Yendi	18.50	18.50	19.00	10.50	10.50	10.00
Upper East	Navorongo	29.00	30.00	30.00	14.75	15.00	15.00
	Bawku	25.00	25.00	25.00	14.00	14.00	15.00
	Bolga	19.75	20.00	20.00	14.00	14.00	14.00
Upper West	Jirapa	15.00	15.00	15.00	10.00	10.00	10.00
	Sissala East	10.50	10.50	11.00	5.50	5.50	6.00
	Wa	20.75	21.00	21.00	12.25	12.00	12.00
Greater Accra	Tema	26.63	27.00	28.00	17.50	17.50	20.00
	Ashaiman	20.25	20.00	20.00	17.25	17.00	17.00
	Accra	22.54	24.00	24.00	17.42	17.42	19.00
<b>Ghana</b>	<b>Country Average</b>	<b>20.71</b>	<b>20.00</b>	<b>28.00</b>	<b>12.78</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.9: March 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	18.17	19.00	19.00	12.96	13.50	16.00
<b>Volta</b>	30.79	30.50	28.00	16.08	14.00	14.00
<b>Central</b>	26.58	27.00	21.00	20.04	20.00	22.00
<b>Western</b>	25.30	27.50	28.00	14.78	15.00	15.00
<b>Ashanti</b>	15.88	16.00	18.00	8.56	8.00	8.00
<b>Brong Ahafo</b>	12.63	12.50	11.00	7.00	7.00	8.00
<b>Northern</b>	18.08	19.00	19.00	8.67	8.00	8.00
<b>Upper East</b>	24.58	25.00	25.00	14.25	14.00	15.00
<b>Upper West</b>	15.42	15.00	15.00	9.25	10.00	10.00
<b>Greater Accra</b>	23.52	24.00	25.00	17.42	18.00	18.00
<b>Country Average</b>	<b>20.71</b>	<b>20.00</b>	<b>28.00</b>	<b>12.78</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.10: Average Prices of charcoal in Ghana Cedis per kg by Regions: March 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.35	0.36	0.36	0.50	0.52	0.62
<b>Volta</b>	0.59	0.58	0.53	0.62	0.54	0.54
<b>Central</b>	0.44	0.45	0.35	0.64	0.63	0.70
<b>Western</b>	0.48	0.52	0.53	0.57	0.58	0.58
<b>Ashanti</b>	0.30	0.30	0.34	0.33	0.31	0.31
<b>Brong Ahafo</b>	0.22	0.22	0.19	0.23	0.23	0.26
<b>Northern</b>	0.31	0.33	0.33	0.28	0.26	0.26
<b>Upper East</b>	0.43	0.43	0.43	0.46	0.45	0.48
<b>Upper West</b>	0.27	0.26	0.26	0.30	0.32	0.32
<b>Greater Accra</b>	0.39	0.40	0.42	0.55	0.57	0.57

**Table 3.11: April 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	23.38	23.25	23.00	13.75	13.50	13.00
	Akim Oda	19.00	19.00	19.00	15.75	16.00	16.00
	Donkorkrom	12.25	12.25	12.50	9.38	9.25	9.00
<b>Volta</b>	Nkwanta	30.50	30.50	31.00	12.50	12.50	13.00
	Denu	34.75	34.75	35.00	22.25	22.00	22.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
<b>Central</b>	Winneba	27.00	27.00	27.00	20.00	20.00	20.00
	Cape-Coast	31.75	32.00	32.00	22.00	22.00	22.00
	Swedru	21.00	21.00	21.00	18.13	18.00	18.00
<b>Western</b>	Axim	28.00	28.00	28.00	14.50	14.50	15.00
	Sekondi	30.00	30.00	30.00	16.00	16.00	16.00
	Takoradi	27.50	27.50	28.00	18.25	18.00	18.00
	Tarkwa	19.25	19.50	20.00	14.25	14.00	14.00
	Juaboso	22.00	22.00	22.00	12.00	12.00	12.00
<b>Ashanti</b>	Konongo	18.75	19.00	20.00	10.75	10.50	10.00
	Kumasi	16.38	18.00	18.00	7.63	7.00	6.00
	Offinso	16.00	16.00	16.00	8.00	8.00	8.00
<b>Brong Ahafo</b>	Nkoranza South	11.00	11.00	10.00	5.50	5.50	5.00
	Atebubu	10.50	10.50	11.00	6.50	6.50	7.00
	Sunyani Municipal	15.50	15.50	16.00	8.50	8.50	8.00
	Techiman	14.00	14.00	14.00	8.00	8.00	8.00
	Jaman North	11.75	12.00	12.00	7.50	7.50	8.00
	Kintampo	11.00	11.00	11.00	5.25	5.00	5.00
<b>Northern</b>	Tamale	18.50	18.50	18.00	8.00	8.00	8.00
	Salaga	16.75	16.50	15.00	7.50	7.50	7.00
	Yendi	18.25	18.00	18.00	10.50	10.50	10.00
<b>Upper East</b>	Navorongo	29.75	30.00	30.00	14.75	15.00	15.00
	Bawku	25.00	25.00	25.00	14.00	14.00	13.00
	Bolga	19.75	20.00	20.00	14.00	14.00	14.00
<b>Upper West</b>	Jirapa	15.00	15.00	15.00	10.00	10.00	10.00
	Sissala East	10.00	10.00	10.00	5.00	5.00	5.00
	Wa	20.75	21.00	21.00	12.25	12.00	12.00
<b>Greater Accra</b>	Tema	26.75	27.00	28.00	17.50	17.50	20.00
	Ashaiman	20.75	21.00	21.00	17.75	18.00	18.00
	Accra	22.83	24.00	25.00	17.25	17.25	19.00
<b>Ghana</b>	<b>Country Average</b>	<b>20.82</b>	<b>20.00</b>	<b>28.00</b>	<b>12.78</b>	<b>13.00</b>	<b>8.00</b>



**Table 3.12: April 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
Eastern	18.21	19.00	19.00	12.96	13.50	16.00
Volta	31.08	30.50	28.00	16.25	14.00	14.00
Central	26.58	27.00	21.00	20.04	20.00	22.00
Western	25.35	27.50	28.00	15.00	15.00	14.00
Ashanti	16.88	17.50	18.00	8.50	8.00	8.00
Brong Ahafo	12.29	12.00	11.00	6.88	7.00	8.00
Northern	17.83	18.00	18.00	8.67	8.00	8.00
Upper East	24.83	25.00	25.00	14.25	14.00	15.00
Upper West	15.25	15.00	15.00	9.08	10.00	10.00
Greater Accra	23.79	25.00	25.00	17.42	18.00	18.00
<b>Country Average</b>	<b>20.82</b>	<b>20.00</b>	<b>28.00</b>	<b>12.78</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.13: Average Prices of charcoal in Ghana Cedis per kg by Regions: April 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.35	0.36	0.36	0.50	0.52	0.62
<b>Volta</b>	0.59	0.58	0.53	0.63	0.54	0.54
<b>Central</b>	0.44	0.45	0.35	0.64	0.63	0.70
<b>Western</b>	0.48	0.52	0.53	0.58	0.58	0.54
<b>Ashanti</b>	0.32	0.33	0.34	0.33	0.31	0.31
<b>Brong Ahafo</b>	0.21	0.21	0.19	0.22	0.23	0.26
<b>Northern</b>	0.31	0.31	0.31	0.28	0.26	0.26
<b>Upper East</b>	0.43	0.43	0.43	0.46	0.45	0.48
<b>Upper West</b>	0.27	0.26	0.26	0.29	0.32	0.32
<b>Greater Accra</b>	0.40	0.42	0.42	0.55	0.57	0.57

**Table 3.14: May 2013 Statistics - Charcoal Prices by Major consuming Urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	23.38	23.25	23.00	13.75	13.50	13.00
	Akim Oda	19.00	19.00	19.00	15.75	16.00	16.00
	Donkorkrom	12.25	12.00	12.00	9.50	9.50	9.00
<b>Volta</b>	Nkwanta	30.00	30.00	30.00	12.00	12.00	12.00
	Denu	35.13	35.00	35.00	22.25	22.00	22.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
<b>Central</b>	Winneba	27.25	27.25	27.00	19.75	20.00	20.00
	Cape-Coast	31.75	32.00	32.00	22.00	22.00	22.00
	Swedru	21.00	21.00	21.00	18.13	18.00	18.00
<b>Western</b>	Axim	28.00	28.00	28.00	15.00	15.00	15.00
	Sekondi	31.25	30.00	30.00	16.00	16.00	16.00
	Takoradi	27.50	27.50	28.00	18.25	18.00	18.00
	Tarkwa	19.25	19.50	20.00	14.25	14.00	14.00
	Juaboso	22.00	22.00	22.00	12.25	12.25	12.50
<b>Ashanti</b>	Konongo	19.75	20.00	20.00	11.25	11.50	12.00
	Kumasi	17.88	18.00	18.00	7.00	6.50	6.00
	Offinso	16.00	16.00	16.00	8.00	8.00	8.00
<b>Brong Ahafo</b>	Nkoranza South	12.00	12.00	12.00	6.00	6.00	6.00
	Atebubu	10.50	10.50	11.00	7.00	7.00	7.00
	Sunyani Municipal	15.50	15.50	16.00	8.50	8.50	8.00
	Techiman	14.00	14.00	14.00	8.00	8.00	8.00
	Jaman North	12.00	12.00	12.00	8.00	8.00	8.00
	Kintampo	12.50	12.50	11.00	6.50	6.50	5.00
<b>Northern</b>	Tamale	18.50	18.50	18.00	8.00	8.00	8.00
	Salaga	14.00	14.00	14.00	7.00	7.00	7.00
	Yendi	18.25	18.00	18.00	10.50	10.50	10.00
<b>Upper East</b>	Navorongo	29.75	30.00	30.00	14.75	15.00	15.00
	Bawku	25.00	25.00	25.00	14.00	14.00	13.00
	Bolga	19.75	20.00	20.00	14.00	14.00	14.00
<b>Upper West</b>	Jirapa	15.00	15.00	15.00	10.00	10.00	10.00
	Sissala East	14.00	14.00	14.00	7.00	7.00	7.00
	Wa	20.75	21.00	21.00	12.25	12.00	12.00
<b>Greater Accra</b>	Tema	26.63	27.00	28.00	17.50	17.50	20.00
	Ashaiman	21.25	21.00	21.00	18.00	18.00	18.00
	Accra	22.67	23.50	25.00	17.33	17.33	19.00
<b>Ghana</b>	<b>Country Average</b>	<b>21.06</b>	<b>20.00</b>	<b>28.00</b>	<b>12.89</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.15: May 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	18.21	19.00	19.00	13.00	13.50	16.00
<b>Volta</b>	31.04	30.00	28.00	16.08	14.00	14.00
<b>Central</b>	26.67	27.25	21.00	19.96	20.00	22.00
<b>Western</b>	25.60	27.50	28.00	15.15	15.00	15.00
<b>Ashanti</b>	17.88	18.00	18.00	8.31	8.00	8.00
<b>Brong Ahafo</b>	12.75	12.00	12.00	7.33	8.00	8.00
<b>Northern</b>	16.92	18.00	18.00	8.50	8.00	7.00
<b>Upper East</b>	24.83	25.00	25.00	14.25	14.00	15.00
<b>Upper West</b>	16.58	15.00	15.00	9.75	10.00	10.00
<b>Greater Accra</b>	23.75	25.00	25.00	17.50	18.00	18.00
<b>Country Average</b>	<b>21.06</b>	<b>20.00</b>	<b>28.00</b>	<b>12.89</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.16: Average Prices of charcoal in Ghana Cedis per kg by Regions: May 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.35	0.36	0.36	0.50	0.52	0.62
<b>Volta</b>	0.59	0.57	0.53	0.62	0.54	0.54
<b>Central</b>	0.44	0.45	0.35	0.63	0.63	0.70
<b>Western</b>	0.49	0.52	0.53	0.58	0.58	0.58
<b>Ashanti</b>	0.34	0.34	0.34	0.32	0.31	0.31
<b>Brong Ahafo</b>	0.22	0.21	0.21	0.24	0.26	0.26
<b>Northern</b>	0.29	0.31	0.31	0.27	0.26	0.23
<b>Upper East</b>	0.43	0.43	0.43	0.46	0.45	0.48
<b>Upper West</b>	0.29	0.26	0.26	0.31	0.32	0.32
<b>Greater Accra</b>	0.40	0.42	0.42	0.56	0.57	0.57

**Table 3.17: June 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	22.25	22.00	21.00	14.25	14.50	15.00
	Akim Oda	19.00	19.00	19.00	15.75	16.00	16.00
	Donkorkrom	12.25	12.00	12.00	9.50	9.50	9.00
<b>Volta</b>	Nkwanta	30.00	30.00	30.00	12.00	12.00	12.00
	Denu	37.50	37.50	37.00	22.50	22.50	22.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
<b>Central</b>	Winneba	28.00	28.00	28.00	21.00	21.00	21.00
	Cape-Coast	31.75	32.00	32.00	22.00	22.00	22.00
	Swedru	21.00	21.00	21.00	18.13	18.00	18.00
<b>Western</b>	Axim	28.00	28.00	28.00	15.00	15.00	15.00
	Sekondi	30.00	30.00	30.00	16.25	16.00	16.00
	Takoradi	27.50	27.50	28.00	18.25	18.00	18.00
	Tarkwa	19.25	19.50	20.00	14.25	14.00	14.00
	Juaboso	22.00	22.00	22.00	12.00	12.00	12.00
<b>Ashanti</b>	Konongo	20.00	20.00	20.00	11.75	12.00	12.00
	Kumasi	18.13	18.00	18.00	7.00	6.50	6.00
	Offinso	17.00	17.00	17.00	8.00	8.00	8.00
<b>Brong Ahafo</b>	Nkoranza South	12.00	12.00	12.00	6.00	6.00	6.00
	Atebubu	10.50	10.50	11.00	7.00	7.00	7.00
	Sunyani Municipal	15.00	15.00	15.00	7.75	8.00	8.00
	Techiman	13.50	13.50	14.00	8.00	8.00	8.00
	Jaman North	12.00	12.00	12.00	8.00	8.00	8.00
	Kintampo	11.00	11.00	11.00	5.50	5.50	5.50
<b>Northern</b>	Tamale	18.50	18.50	18.00	8.00	8.00	8.00
	Salaga	14.50	14.50	15.00	7.00	7.00	7.00
	Yendi	18.25	18.00	18.00	10.50	10.50	10.00
<b>Upper East</b>	Navorongo	29.75	30.00	30.00	14.75	15.00	15.00
	Bawku	24.75	25.00	25.00	13.75	14.00	14.00
	Bolga	19.75	20.00	20.00	14.00	14.00	14.00
<b>Upper West</b>	Jirapa	15.00	15.00	15.00	10.00	10.00	10.00
	Sissala East	14.00	14.00	14.00	7.00	7.00	7.00
	Wa	20.75	21.00	21.00	12.25	12.00	12.00
<b>Greater Accra</b>	Tema	26.75	27.00	28.00	17.63	18.00	20.00
	Ashaiman	21.50	21.50	21.00	18.00	18.00	18.00
	Accra	22.67	23.25	25.00	17.50	17.50	19.00
<b>Ghana</b>	<b>Country Average</b>	<b>21.08</b>	<b>20.00</b>	<b>28.00</b>	<b>12.92</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.18: June 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	17.83	19.00	19.00	13.17	14.50	15.00
<b>Volta</b>	31.83	30.00	28.00	16.17	14.00	14.00
<b>Central</b>	26.92	28.00	21.00	20.38	21.00	22.00
<b>Western</b>	25.35	27.50	28.00	15.15	15.00	15.00
<b>Ashanti</b>	18.31	18.00	18.00	8.44	8.00	8.00
<b>Brong Ahafo</b>	12.33	12.00	12.00	7.04	7.00	8.00
<b>Northern</b>	17.08	18.00	18.00	8.50	8.00	7.00
<b>Upper East</b>	24.75	25.00	25.00	14.17	14.00	14.00
<b>Upper West</b>	16.58	15.00	15.00	9.75	10.00	10.00
<b>Greater Accra</b>	23.83	24.50	25.00	17.63	18.00	18.00
<b>Country Average</b>	<b>21.08</b>	<b>20.00</b>	<b>28.00</b>	<b>12.92</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.19: Average Prices of charcoal in Ghana Cedis per kg by Regions: June 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.34	0.36	0.36	0.51	0.56	0.58
<b>Volta</b>	0.61	0.57	0.53	0.62	0.54	0.54
<b>Central</b>	0.45	0.47	0.35	0.65	0.67	0.70
<b>Western</b>	0.48	0.52	0.53	0.58	0.58	0.58
<b>Ashanti</b>	0.35	0.34	0.34	0.32	0.31	0.31
<b>Brong Ahafo</b>	0.21	0.21	0.21	0.23	0.23	0.26
<b>Northern</b>	0.30	0.31	0.31	0.27	0.26	0.23
<b>Upper East</b>	0.43	0.43	0.43	0.46	0.45	0.45
<b>Upper West</b>	0.29	0.26	0.26	0.31	0.32	0.32
<b>Greater Accra</b>	0.40	0.41	0.42	0.56	0.57	0.57

**Table 3.20: July 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	24.38	24.50	25.00	13.75	13.50	13.00
	Akim Oda	19.25	19.00	19.00	15.75	16.00	16.00
	Donkorkrom	12.50	12.50	13.00	9.50	9.50	9.00
<b>Volta</b>	Nkwanta	30.63	30.75	31.00	12.25	12.00	12.00
	Denu	37.00	37.00	37.00	21.88	22.00	22.00
	Ho	31.50	31.50	28.00	15.63	15.50	14.00
<b>Central</b>	Winneba	28.00	28.00	28.00	21.00	21.00	21.00
	Cape-Coast	32.00	32.00	32.00	27.00	27.00	27.00
	Swedru	21.00	21.00	21.00	18.00	18.00	18.00
<b>Western</b>	Axim	28.00	28.00	28.00	15.00	15.00	15.00
	Sekondi	30.00	30.00	30.00	16.25	16.00	16.00
	Takoradi	27.50	27.50	28.00	18.25	18.00	18.00
	Tarkwa	20.00	20.00	20.00	14.25	14.00	14.00
	Juaboso	22.00	22.00	22.00	12.00	12.00	12.00
<b>Ashanti</b>	Konongo	20.50	20.00	20.00	11.25	11.50	12.00
	Kumasi	13.00	12.00	11.00	8.13	9.00	9.00
	Offinso	17.00	17.00	17.00	8.00	8.00	8.00
<b>Brong Ahafo</b>	Nkoranza South	12.00	12.00	12.00	6.00	6.00	6.00
	Atebubu	10.00	10.00	10.00	7.00	7.00	7.00
	Sunyani Municipal	15.00	15.00	15.00	8.00	8.00	8.00
	Techiman	14.50	14.50	14.00	8.00	8.00	8.00
	Jaman North	12.00	12.00	12.00	8.00	8.00	8.00
	Kintampo	11.00	11.00	11.00	5.00	5.00	5.00
<b>Northern</b>	Tamale	18.50	18.50	18.00	8.00	8.00	8.00
	Salaga	14.50	14.50	15.00	7.00	7.00	7.00
	Yendi	18.25	18.00	18.00	10.50	10.50	10.00
<b>Upper East</b>	Navorongo	29.75	30.00	30.00	14.75	15.00	15.00
	Bawku	22.75	23.00	25.00	12.25	12.00	11.00
	Bolga	21.25	21.00	21.00	14.25	14.00	14.00
<b>Upper West</b>	Jirapa	15.75	16.00	16.00	10.63	10.75	11.00
	Sissala East	10.00	10.00	10.00	5.00	5.00	5.00
	Wa	19.63	19.75	20.00	11.88	12.00	12.00
<b>Greater Accra</b>	Tema	25.63	26.00	26.00	16.50	16.50	18.00
	Ashaiman	21.50	21.50	21.00	18.00	18.00	18.00
	Accra	22.83	23.50	20.00	17.58	17.58	19.00
<b>Ghana</b>	<b>Country Average</b>	<b>20.86</b>	<b>20.00</b>	<b>20.00</b>	<b>12.97</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.21: July 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	18.71	19.00	19.00	13.00	13.50	16.00
<b>Volta</b>	33.04	33.00	37.00	16.58	15.50	22.00
<b>Central</b>	27.00	28.00	21.00	22.00	21.00	18.00
<b>Western</b>	25.50	27.50	28.00	15.15	15.00	15.00
<b>Ashanti</b>	15.88	17.00	20.00	8.88	9.00	9.00
<b>Brong Ahafo</b>	12.42	12.00	12.00	7.00	7.50	8.00
<b>Northern</b>	17.08	18.00	18.00	8.50	8.00	7.00
<b>Upper East</b>	24.58	23.50	21.00	13.75	14.00	14.00
<b>Upper West</b>	15.13	16.00	10.00	9.17	10.75	5.00
<b>Greater Accra</b>	23.54	24.50	25.00	17.29	18.00	18.00
<b>Country Average</b>	<b>20.86</b>	<b>20.00</b>	<b>20.00</b>	<b>12.97</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.22: Average Prices of charcoal in Ghana Cedis per kg by Regions: July 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
Eastern	0.36	0.36	0.36	0.50	0.52	0.62
Volta	0.63	0.63	0.70	0.64	0.60	0.85
Central	0.45	0.47	0.35	0.70	0.67	0.57
Western	0.49	0.52	0.53	0.58	0.58	0.58
Ashanti	0.30	0.32	0.38	0.34	0.35	0.35
Brong Ahafo	0.22	0.21	0.21	0.23	0.24	0.26
Northern	0.30	0.31	0.31	0.27	0.26	0.23
Upper East	0.43	0.41	0.37	0.44	0.45	0.45
Upper West	0.26	0.28	0.17	0.30	0.35	0.16
Greater Accra	0.39	0.41	0.42	0.55	0.57	0.57

**Table 3.23: August 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	24.75	25.00	25.00	14.50	14.50	15.00
	Akim Oda	21.00	21.00	21.00	15.75	16.00	16.00
	Donkorkrom	12.25	12.00	12.00	9.50	9.50	9.00
<b>Volta</b>	Nkwanta	30.50	30.50	31.00	12.25	12.25	12.50
	Denu	37.25	37.00	37.00	23.50	23.50	24.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
<b>Central</b>	Winneba	28.00	28.00	28.00	21.00	21.00	21.00
	Cape-Coast	34.75	35.00	35.00	29.75	30.00	30.00
	Swedru	21.25	21.00	21.00	18.25	18.00	18.00
<b>Western</b>	Axim	28.25	28.00	28.00	15.00	15.00	15.00
	Sekondi	30.00	30.00	30.00	16.25	16.00	16.00
	Takoradi	26.75	27.00	28.00	17.75	17.50	17.00
	Tarkwa	20.00	20.00	20.00	14.25	14.00	14.00
	Juaboso	22.00	22.00	22.00	12.00	12.00	12.00
<b>Ashanti</b>	Konongo	20.75	20.50	20.00	12.00	12.00	12.00
	Kumasi	14.63	15.50	18.00	8.63	9.00	9.00
	Offinso	17.25	17.00	17.00	8.50	8.50	9.00
<b>Brong Ahafo</b>	Nkoranza South	13.00	13.00	13.00	7.00	7.00	7.00
	Atebubu	10.00	10.00	10.00	7.00	7.00	7.00
	Sunyani Municipal	15.00	15.00	15.00	7.75	8.00	8.00
	Techiman	14.50	14.50	14.00	8.25	8.00	8.00
	Jaman North	12.00	12.00	12.00	8.00	8.00	8.00
	Kintampo	11.00	11.00	11.00	5.50	5.50	5.50
<b>Northern</b>	Tamale	23.00	21.00	21.00	9.50	9.50	9.00
	Salaga	15.50	15.50	16.00	7.50	7.50	8.00
	Yendi	18.75	18.50	18.00	10.50	10.50	10.00
<b>Upper East</b>	Navorongo	31.38	31.25	31.00	15.38	15.25	15.00
	Bawku	25.00	25.00	25.00	15.00	15.00	15.00
	Bolga	21.25	21.00	21.00	14.25	14.00	14.00
<b>Upper West</b>	Jirapa	15.75	16.00	16.00	10.63	10.75	11.00
	Sissala East	10.00	10.00	10.00	5.00	5.00	5.00
	Wa	19.63	19.75	20.00	12.00	12.00	12.00
<b>Greater Accra</b>	Tema	25.50	25.50	26.00	16.50	16.50	18.00
	Ashaiman	22.25	22.00	22.00	18.50	18.50	19.00
	Accra	23.63	25.00	25.00	17.83	17.83	20.00
<b>Ghana</b>	<b>Country Average</b>	<b>21.33</b>	<b>21.00</b>	<b>25.00</b>	<b>13.33</b>	<b>14.00</b>	<b>15.00</b>



**Table 3.24: August 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
Eastern	19.33	21.00	21.00	13.25	14.50	15.00
Volta	31.92	30.50	28.00	16.58	14.00	14.00
Central	28.00	28.00	28.00	23.00	21.00	21.00
Western	25.40	27.00	28.00	15.05	15.00	15.00
Ashanti	16.81	18.00	18.00	9.44	9.00	9.00
Brong Ahafo	12.58	12.50	15.00	7.25	7.00	8.00
Northern	19.08	18.50	21.00	9.17	9.50	10.00
Upper East	25.88	25.00	25.00	14.88	15.00	15.00
Upper West	15.13	16.00	10.00	9.21	10.75	5.00
Greater Accra	24.02	25.00	25.00	17.50	18.00	18.00
<b>Country Average</b>	<b>21.33</b>	<b>21.00</b>	<b>25.00</b>	<b>13.33</b>	<b>14.00</b>	<b>15.00</b>

**Table 3.25: Average Prices of charcoal in Ghana Cedis per kg by Regions: August 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
Eastern	0.37	0.40	0.40	0.51	0.56	0.58
Volta	0.61	0.58	0.53	0.64	0.54	0.54
Central	0.47	0.47	0.47	0.73	0.67	0.67
Western	0.48	0.51	0.53	0.58	0.58	0.58
Ashanti	0.32	0.34	0.34	0.36	0.35	0.35
Brong Ahafo	0.22	0.22	0.26	0.23	0.23	0.26
Northern	0.33	0.32	0.37	0.30	0.31	0.32
Upper East	0.45	0.43	0.43	0.48	0.48	0.48
Upper West	0.26	0.28	0.17	0.30	0.35	0.16
Greater Accra	0.40	0.42	0.42	0.56	0.57	0.57

**Table 3.26: September 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	24.75	25.00	25.00	14.50	14.50	15.00
	Akim Oda	21.00	21.00	21.00	15.00	15.00	15.00
	Donkorkrom	15.25	15.00	15.00	9.00	9.00	9.00
<b>Volta</b>	Nkwanta	31.00	31.00	31.00	12.50	12.50	12.50
	Denu	37.25	37.00	37.00	23.50	23.50	24.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
<b>Central</b>	Winneba	29.25	29.00	29.00	21.00	21.00	21.00
	Cape-Coast	34.50	34.50	35.00	29.50	30.00	30.00
	Swedru	21.50	21.50	22.00	18.25	18.25	18.50
<b>Western</b>	Axim	29.75	30.00	30.00	16.00	16.00	16.00
	Sekondi	30.00	30.00	30.00	16.00	16.00	16.00
	Takoradi	29.50	29.50	29.00	19.00	19.00	19.00
	Tarkwa	21.63	21.75	22.00	16.00	16.00	16.00
	Juaboso	22.00	22.00	22.00	12.00	12.00	12.00
<b>Ashanti</b>	Konongo	20.75	20.50	20.00	11.75	12.00	12.00
	Kumasi	15.13	15.50	18.00	7.75	7.50	6.00
	Offinso	16.00	16.00	16.00	9.00	9.00	9.00
<b>Brong Ahafo</b>	Nkoranza South	13.00	13.00	13.00	7.00	7.00	7.00
	Atebubu	11.00	11.00	11.00	7.50	7.50	7.50
	Sunyani Municipal	16.00	16.00	15.00	8.00	8.25	8.50
	Techiman	14.50	14.50	14.00	8.25	8.00	8.00
	Jaman North	12.00	12.00	12.00	8.00	8.00	8.00
	Kintampo	11.00	11.00	11.00	5.50	5.50	5.50
<b>Northern</b>	Tamale	21.00	21.00	21.00	10.00	10.00	10.00
	Salaga	17.00	17.00	17.00	9.00	9.00	9.00
	Yendi	20.25	20.00	20.00	11.75	12.00	12.00
<b>Upper East</b>	Navorongo	31.00	31.00	31.00	21.50	21.50	22.00
	Bawku	24.25	24.50	25.00	13.25	14.00	15.00
	Bolga	22.50	22.50	22.00	14.75	15.00	15.00
<b>Upper West</b>	Jirapa	16.00	16.00	16.00	11.13	11.00	11.00
	Sissala East	10.00	10.00	10.00	5.00	5.00	5.00
	Wa	20.00	20.00	20.00	12.13	12.00	12.00
<b>Greater Accra</b>	Tema	25.50	25.50	26.00	16.50	16.50	18.00
	Ashaiman	22.00	22.00	22.00	17.00	17.00	17.00
	Accra	23.54	24.00	20.00	18.75	18.75	22.00
<b>Ghana</b>	<b>Country Average</b>	<b>21.68</b>	<b>21.25</b>	<b>22.00</b>	<b>13.63</b>	<b>13.50</b>	<b>15.00</b>

**Table 3.27: September 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	20.33	21.00	21.00	12.83	14.50	15.00
<b>Volta</b>	32.08	31.00	28.00	16.67	14.00	14.00
<b>Central</b>	28.42	29.00	29.00	22.92	21.00	21.00
<b>Western</b>	26.58	29.00	30.00	15.80	16.00	16.00
<b>Ashanti</b>	16.75	17.00	18.00	9.06	9.00	9.00
<b>Brong Ahafo</b>	12.92	12.50	11.00	7.38	7.50	8.00
<b>Northern</b>	19.42	20.00	21.00	10.25	10.00	9.00
<b>Upper East</b>	25.92	24.50	31.00	16.50	15.00	15.00
<b>Upper West</b>	15.33	16.00	16.00	9.42	11.00	12.00
<b>Greater Accra</b>	23.94	24.50	20.00	17.71	17.50	17.50
<b>Country Average</b>	<b>21.68</b>	<b>21.25</b>	<b>22.00</b>	<b>13.63</b>	<b>13.50</b>	<b>15.00</b>

**Table 3.28: Average Prices of charcoal in Ghana Cedis per kg by Regions: September 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.39	0.40	0.40	0.49	0.56	0.58
<b>Volta</b>	0.61	0.59	0.53	0.64	0.54	0.54
<b>Central</b>	0.47	0.48	0.48	0.73	0.67	0.67
<b>Western</b>	0.51	0.55	0.57	0.61	0.62	0.62
<b>Ashanti</b>	0.32	0.32	0.34	0.35	0.35	0.35
<b>Brong Ahafo</b>	0.22	0.22	0.19	0.24	0.24	0.26
<b>Northern</b>	0.34	0.35	0.37	0.33	0.32	0.29
<b>Upper East</b>	0.45	0.43	0.54	0.53	0.48	0.48
<b>Upper West</b>	0.27	0.28	0.28	0.30	0.35	0.39
<b>Greater Accra</b>	0.40	0.41	0.33	0.56	0.56	0.56

**Table 3.29: October 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	24.75	25.00	25.00	14.75	15.00	15.00
	Akim Oda	21.00	21.00	21.00	15.75	16.00	16.00
	Donkorkrom	14.75	15.00	15.00	9.25	9.00	9.00
<b>Volta</b>	Nkwanta	31.00	31.00	31.00	12.50	12.50	12.50
	Denu	37.25	37.00	37.00	23.50	23.50	24.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
<b>Central</b>	Winneba	30.00	30.00	30.00	21.00	21.00	21.00
	Cape-Coast	34.75	35.00	35.00	29.25	29.50	30.00
	Swedru	21.75	22.00	22.00	18.88	19.00	19.00
<b>Western</b>	Axim	29.75	30.00	30.00	16.00	16.00	16.00
	Sekondi	30.00	30.00	30.00	16.00	16.00	16.00
	Takoradi	29.50	29.50	29.00	19.00	19.00	19.00
	Tarkwa	21.63	21.75	22.00	16.00	16.00	16.00
	Juaboso	22.00	22.00	22.00	12.00	12.00	12.00
<b>Ashanti</b>	Konongo	18.25	18.00	18.00	11.00	11.00	11.00
	Kumasi	16.13	16.50	20.00	9.75	10.00	10.00
	Offinso	16.00	16.00	16.00	9.00	9.00	9.00
<b>Brong Ahafo</b>	Nkoranza South	13.00	13.00	13.00	7.00	7.00	7.00
	Atebubu	11.00	11.00	11.00	7.50	7.50	7.50
	Sunyani Municipal	17.00	17.00	17.00	8.50	8.50	8.50
	Techiman	14.50	14.50	14.00	8.25	8.00	8.00
	Jaman North	12.00	12.00	12.00	8.00	8.00	8.00
	Kintampo	11.00	11.00	11.00	5.50	5.50	5.50
<b>Northern</b>	Tamale	21.00	21.00	21.00	10.00	10.00	10.00
	Salaga	17.00	17.00	17.00	9.00	9.00	9.00
	Yendi	20.25	20.00	20.00	11.75	12.00	12.00
<b>Upper East</b>	Navorongo	30.50	31.00	31.00	21.50	21.50	22.00
	Bawku	24.50	25.00	25.00	13.50	13.00	13.00
	Bolga	22.50	22.50	22.00	14.75	15.00	15.00
<b>Upper West</b>	Jirapa	16.00	16.00	16.00	11.13	11.00	11.00
	Sissala East	10.00	10.00	10.00	5.00	5.00	5.00
	Wa	20.00	20.00	20.00	12.00	12.00	12.00
<b>Greater Accra</b>	Tema	26.00	26.00	26.00	17.00	17.00	18.00
	Ashaiman	22.00	22.00	22.00	17.38	17.25	17.00
	Accra	23.54	24.00	20.00	18.58	18.58	16.00
<b>Ghana</b>	<b>Country Average</b>	<b>21.87</b>	<b>21.25</b>	<b>20.00</b>	<b>13.92</b>	<b>14.00</b>	<b>16.00</b>

**Table 3.30: October 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	20.17	21.00	21.00	13.25	15.00	15.00
<b>Volta</b>	32.08	31.00	28.00	16.67	14.00	14.00
<b>Central</b>	28.83	30.00	30.00	23.04	21.00	21.00
<b>Western</b>	27.08	29.50	30.00	16.22	16.00	16.00
<b>Ashanti</b>	16.63	17.00	20.00	9.88	10.00	10.00
<b>Brong Ahafo</b>	13.27	13.00	11.00	7.64	8.00	8.00
<b>Northern</b>	19.42	20.00	21.00	10.25	10.00	9.00
<b>Upper East</b>	25.83	25.00	23.00	16.58	14.50	15.00
<b>Upper West</b>	15.33	16.00	16.00	9.38	11.00	12.00
<b>Greater Accra</b>	24.10	25.00	26.00	17.85	17.75	17.75
<b>Country Average</b>	<b>21.87</b>	<b>21.25</b>	<b>20.00</b>	<b>13.92</b>	<b>14.00</b>	<b>16.00</b>

**Table 3.31: Average Prices of charcoal in Ghana Cedis per kg by Regions: October 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.38	0.40	0.40	0.51	0.58	0.58
<b>Volta</b>	0.61	0.59	0.53	0.64	0.54	0.54
<b>Central</b>	0.48	0.50	0.50	0.73	0.67	0.67
<b>Western</b>	0.52	0.56	0.57	0.62	0.62	0.62
<b>Ashanti</b>	0.32	0.32	0.38	0.38	0.38	0.38
<b>Brong Ahafo</b>	0.23	0.23	0.19	0.25	0.26	0.26
<b>Northern</b>	0.34	0.35	0.37	0.33	0.32	0.29
<b>Upper East</b>	0.45	0.43	0.40	0.53	0.47	0.48
<b>Upper West</b>	0.27	0.28	0.28	0.30	0.35	0.39
<b>Greater Accra</b>	0.40	0.42	0.43	0.57	0.56	0.56

**Table 3.32: November 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
Eastern	Koforidua	22.88	22.75	22.00	16.75	17.00	17.00
	Akim Oda	20.25	20.50	22.00	15.75	16.00	16.00
	Donkorkrom	15.25	15.00	15.00	9.25	9.00	9.00
Volta	Nkwanta	31.00	31.00	31.00	13.00	13.00	13.00
	Denu	37.25	37.00	37.00	23.50	23.50	24.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
Central	Winneba	29.25	29.00	29.00	21.00	21.00	21.00
	Cape-Coast	35.00	35.00	35.00	31.00	31.00	31.00
	Swedru	22.00	22.00	22.00	19.13	19.00	19.00
Western	Axim	30.00	30.00	30.00	16.50	16.50	17.00
	Sekondi	30.00	30.00	30.00	16.00	16.00	16.00
	Takoradi	29.50	29.50	29.00	19.00	19.00	19.00
	Tarkwa	21.63	21.75	22.00	16.00	16.00	16.00
	Juaboso	22.00	22.00	22.00	12.00	12.00	12.00
Ashanti	Konongo	20.75	20.50	20.00	12.00	12.00	12.00
	Kumasi	16.13	16.50	20.00	10.00	10.00	10.00
	Offinso	16.00	16.00	16.00	9.00	9.00	9.00
Brong Ahafo	Nkoranza South	13.00	13.00	13.00	6.50	6.50	6.50
	Atebubu	11.00	11.00	11.00	7.50	7.50	7.50
	Sunyani Municipal	17.00	17.00	17.00	8.50	8.50	8.50
	Techiman	15.00	15.00	15.00	8.75	9.00	9.00
	Jaman North	12.00	12.00	12.00	8.00	8.00	8.00
	Kintampo	11.00	11.00	11.00	5.50	5.50	5.50
Northern	Tamale	21.00	21.00	21.00	10.00	10.00	10.00
	Salaga	17.25	17.25	17.50	9.13	9.00	9.00
	Yendi	20.25	20.00	20.00	11.75	12.00	12.00
Upper East	Navorongo	31.00	31.00	31.00	21.50	21.50	22.00
	Bawku	27.50	27.50	25.00	15.75	16.00	18.00
	Bolga	22.50	22.50	22.00	14.75	15.00	15.00
Upper West	Jirapa	16.25	16.25	16.50	11.88	12.00	12.00
	Sissala East	10.00	10.00	10.00	5.25	5.00	5.00
	Wa	21.00	21.00	21.00	13.00	13.00	13.00
Greater Accra	Tema	25.50	25.50	26.00	16.50	16.50	18.00
	Ashaiman	22.00	22.00	22.00	17.50	17.50	18.00
	Accra	23.21	22.50	20.00	18.58	18.58	22.00
<b>Ghana</b>	<b>Country Average</b>	<b>21.83</b>	<b>22.00</b>	<b>22.00</b>	<b>14.05</b>	<b>14.00</b>	<b>16.00</b>

**Table 3.33: November 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	19.46	20.50	22.00	13.92	16.00	16.00
<b>Volta</b>	32.08	31.00	28.00	16.83	14.00	14.00
<b>Central</b>	28.75	29.00	22.00	23.71	21.00	31.00
<b>Western</b>	26.63	29.50	30.00	15.90	16.00	16.00
<b>Ashanti</b>	17.25	18.00	20.00	10.25	10.00	10.00
<b>Brong Ahafo</b>	13.17	12.50	11.00	7.46	7.75	8.00
<b>Northern</b>	19.50	20.00	21.00	10.29	10.00	10.00
<b>Upper East</b>	27.00	27.50	31.00	17.33	15.00	15.00
<b>Upper West</b>	15.75	16.25	10.00	10.04	12.00	13.00
<b>Greater Accra</b>	23.77	24.00	20.00	17.71	17.50	17.50
<b>Country Average</b>	<b>21.83</b>	<b>22.00</b>	<b>22.00</b>	<b>14.05</b>	<b>14.00</b>	<b>16.00</b>

**Table 3.34: Average Prices of charcoal in Ghana Cedis per kg by Regions: November 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.37	0.39	0.42	0.54	0.62	0.62
<b>Volta</b>	0.61	0.59	0.53	0.65	0.54	0.54
<b>Central</b>	0.48	0.48	0.37	0.75	0.67	0.98
<b>Western</b>	0.51	0.56	0.57	0.61	0.62	0.62
<b>Ashanti</b>	0.33	0.34	0.38	0.39	0.38	0.38
<b>Brong Ahafo</b>	0.23	0.22	0.19	0.24	0.25	0.26
<b>Northern</b>	0.34	0.35	0.37	0.33	0.32	0.32
<b>Upper East</b>	0.47	0.48	0.54	0.56	0.48	0.48
<b>Upper West</b>	0.27	0.28	0.17	0.32	0.39	0.42
<b>Greater Accra</b>	0.40	0.40	0.33	0.56	0.56	0.56

**Table 3.35: December 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	24.75	25.00	25.00	14.50	14.50	15.00
	Akim Oda	19.75	19.50	19.00	16.00	16.00	16.00
	Donkorkrom	15.00	15.00	15.00	9.25	9.00	9.00
<b>Volta</b>	Nkwanta	31.00	31.00	31.00	13.00	13.00	13.00
	Denu	37.25	37.00	37.00	23.50	23.50	24.00
	Ho	28.00	28.00	28.00	14.00	14.00	14.00
<b>Central</b>	Winneba	29.25	29.00	29.00	21.00	21.00	21.00
	Cape-Coast	35.00	35.00	35.00	31.00	31.00	31.00
	Swedru	22.00	22.00	22.00	19.13	19.00	19.00
<b>Western</b>	Axim	30.50	30.50	31.00	16.50	16.50	17.00
	Sekondi	30.00	30.00	30.00	16.00	16.00	16.00
	Takoradi	30.75	31.00	31.00	20.00	20.00	20.00
	Tarkwa	21.63	21.75	22.00	17.25	17.00	17.00
	Juaboso	22.00	22.00	22.00	12.00	12.00	12.00
<b>Ashanti</b>	Konongo	20.75	20.50	20.00	12.00	12.00	12.00
	Kumasi	14.00	12.50	12.00	9.75	10.00	10.00
	Offinso	16.75	16.75	17.50	10.00	10.00	10.00
<b>Brong Ahafo</b>	Nkoranza South	13.00	13.00	13.00	7.00	7.00	7.00
	Atebubu	11.50	11.50	12.00	7.75	7.75	8.00
	Sunyani Municipal	17.50	17.50	18.00	8.75	9.00	9.00
	Techiman	15.00	15.00	15.00	9.00	9.00	9.00
	Jaman North	12.00	12.00	12.00	8.00	8.00	8.00
	Kintampo	11.00	11.00	11.00	5.50	5.50	5.50
<b>Northern</b>	Tamale	21.50	21.50	22.00	10.25	10.25	10.50
	Salaga	17.50	17.50	17.50	9.88	10.00	10.00
	Yendi	20.75	21.00	21.00	12.00	12.25	12.50
<b>Upper East</b>	Navorongo	31.00	31.00	31.00	21.50	21.50	22.00
	Bawku	25.25	25.50	30.00	14.50	14.50	18.00
	Bolga	23.00	23.00	23.00	16.00	16.00	16.00
<b>Upper West</b>	Jirapa	16.25	16.25	16.50	11.88	12.00	12.00
	Sissala East	10.00	10.00	10.00	5.00	5.00	5.00
	Wa	21.00	21.00	21.00	13.00	13.00	13.00
<b>Greater Accra</b>	Tema	25.50	25.50	26.00	16.50	16.50	18.00
	Ashaiman	22.00	22.00	22.00	18.00	18.00	18.00
	Accra	23.35	22.75	22.00	18.40	18.40	18.00
<b>Ghana</b>	<b>Country Average</b>	<b>21.96</b>	<b>22.00</b>	<b>22.00</b>	<b>14.18</b>	<b>13.50</b>	<b>10.00</b>



**Table 3.36: December 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	19.83	19.50	15.00	13.25	14.50	16.00
<b>Volta</b>	32.08	31.00	28.00	16.83	14.00	14.00
<b>Central</b>	28.75	29.00	22.00	23.71	21.00	31.00
<b>Western</b>	26.98	30.00	30.00	16.35	16.50	16.00
<b>Ashanti</b>	16.38	16.75	20.00	10.38	10.00	10.00
<b>Brong Ahafo</b>	13.55	13.00	12.00	7.86	8.00	8.00
<b>Northern</b>	19.92	21.00	21.00	10.71	10.25	10.00
<b>Upper East</b>	26.42	26.50	23.00	17.33	16.00	16.00
<b>Upper West</b>	15.75	16.25	10.00	9.96	12.00	5.00
<b>Greater Accra</b>	23.89	23.00	22.00	17.64	18.00	18.00
<b>Country Average</b>	<b>21.96</b>	<b>22.00</b>	<b>22.00</b>	<b>14.18</b>	<b>13.50</b>	<b>10.00</b>

**Table 3.37: Average Prices of charcoal in Ghana Cedis per kg by Regions: December 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.38	0.37	0.29	0.51	0.56	0.62
<b>Volta</b>	0.61	0.59	0.53	0.65	0.54	0.54
<b>Central</b>	0.48	0.48	0.37	0.75	0.67	0.98
<b>Western</b>	0.51	0.57	0.57	0.63	0.63	0.62
<b>Ashanti</b>	0.31	0.32	0.38	0.40	0.38	0.38
<b>Brong Ahafo</b>	0.24	0.23	0.21	0.25	0.26	0.26
<b>Northern</b>	0.35	0.37	0.37	0.35	0.33	0.32
<b>Upper East</b>	0.46	0.46	0.40	0.56	0.52	0.52
<b>Upper West</b>	0.27	0.28	0.17	0.32	0.39	0.16
<b>Greater Accra</b>	0.40	0.38	0.37	0.56	0.57	0.57

**Table 3.38: January – December 2013 Statistics - Charcoal Prices by Major consuming urban centres**

REGION	TOWN	MAXI BAG			MINI BAG		
		MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	Koforidua	23.57	24.00	25.00	14.60	14.00	14.00
	Akim Oda	19.92	20.00	19.00	15.81	16.00	16.00
	Donkorkrom	13.08	12.25	12.00	9.13	9.00	9.00
<b>Volta</b>	Nkwanta	30.55	31.00	31.00	12.44	12.50	12.00
	Denu	35.79	37.00	37.00	22.38	22.00	22.00
	Ho	29.81	28.00	28.00	14.86	14.00	14.00
<b>Central</b>	Winneba	22.70	20.00	20.00	13.55	10.00	10.00
	Cape-Coast	34.37	35.00	35.00	27.22	30.00	30.00
	Swedru	21.15	21.00	21.00	18.34	18.00	18.00
<b>Western</b>	Axim	28.75	28.00	28.00	15.20	15.00	15.00
	Sekondi	30.35	30.00	30.00	16.15	16.00	16.00
	Takoradi	28.21	28.00	28.00	18.52	18.50	18.00
	Tarkwa	19.92	20.00	20.00	14.83	14.00	14.00
	Juaboso	21.57	22.00	22.00	11.64	12.00	12.00
<b>Ashanti</b>	Konongo	19.64	20.00	20.00	11.44	12.00	12.00
	Kumasi	15.22	16.00	18.00	8.35	9.00	9.00
	Offinso	16.33	16.00	16.00	8.46	8.00	8.00
<b>Brong Ahafo</b>	Nkoranza South	12.40	13.00	13.00	6.38	6.25	6.00
	Atebubu	10.58	11.00	11.00	6.83	7.00	7.00
	Sunyani Municipal	15.79	15.00	15.00	8.21	8.00	8.00
	Techiman	14.04	14.00	14.00	8.04	8.00	8.00
	Jaman North	11.67	12.00	12.00	7.57	8.00	8.00
	Kintampo	10.86	11.00	11.00	5.52	5.50	5.50
<b>Northern</b>	Tamale	19.71	19.00	19.00	8.71	8.00	8.00
	Salaga	16.19	16.50	15.00	7.96	8.00	7.00
	Yendi	19.04	19.00	18.00	10.85	11.00	10.00
<b>Upper East</b>	Navrongo	30.18	30.00	30.00	17.05	15.00	15.00
	Bawku	23.83	25.00	25.00	13.04	13.00	13.00
	Bolgatanga	20.77	21.00	21.00	14.29	14.00	14.00
<b>Upper West</b>	Jirapa	15.50	15.00	15.00	10.60	10.00	10.00
	Sissala East	10.71	10.00	10.00	5.38	5.00	5.00
	Wa	20.51	21.00	21.00	12.31	12.00	12.00
<b>Greater Accra</b>	Tema	25.91	26.00	26.00	16.84	17.00	15.00
	Ashaiman	21.21	22.00	22.00	17.45	18.00	18.00
	Accra	21.78	22.00	20.00	16.66	17.00	19.00
<b>Ghana</b>	<b>Country Average</b>	<b>21.19</b>	<b>21.00</b>	<b>20.00</b>	<b>13.22</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.39: January - December 2013 Statistics - Charcoal Prices by Regions**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	19.03	20.00	15.00	13.44	14.00	16.00
<b>Volta</b>	32.02	31.00	28.00	16.66	14.00	14.00
<b>Central</b>	26.49	22.00	21.00	19.83	19.00	18.00
<b>Western</b>	25.79	28.00	30.00	15.30	16.00	16.00
<b>Ashanti</b>	16.62	17.50	18.00	9.15	9.00	8.00
<b>Brong Ahafo</b>	12.58	12.00	11.00	7.11	7.00	8.00
<b>Northern</b>	18.30	18.00	18.00	9.10	9.00	8.00
<b>Upper East</b>	24.93	25.00	30.00	14.80	15.00	15.00
<b>Upper West</b>	15.56	15.00	10.00	9.42	10.00	12.00
<b>Greater Accra</b>	23.68	24.00	25.00	17.43	18.00	18.00
<b>Country Average</b>	<b>21.19</b>	<b>21.00</b>	<b>20.00</b>	<b>13.25</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.40: Average Prices of charcoal in Ghana Cedis per kg by Regions: January - December 2013**

REGION	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Eastern</b>	0.36	0.38	0.29	0.52	0.54	0.62
<b>Volta</b>	0.61	0.59	0.53	0.64	0.54	0.54
<b>Central</b>	0.44	0.37	0.35	0.63	0.60	0.57
<b>Western</b>	0.49	0.53	0.57	0.59	0.62	0.62
<b>Ashanti</b>	0.32	0.33	0.34	0.35	0.35	0.31
<b>Brong Ahafo</b>	0.22	0.21	0.19	0.23	0.23	0.26
<b>Northern</b>	0.32	0.31	0.31	0.29	0.29	0.26
<b>Upper East</b>	0.43	0.43	0.52	0.48	0.48	0.48
<b>Upper West</b>	0.27	0.26	0.17	0.30	0.32	0.39
<b>Greater Accra</b>	0.39	0.40	0.42	0.55	0.57	0.57

**Table 3.41: Mean Charcoal Prices by Regions (% Change over previous year)**

REGION	Maxi Bag (Gh¢)			Mini Bag (Gh¢)		
	2012	2013	% Change over previous year	2012	2013	% Change over previous year
<b>Eastern</b>	16.76	19.03	13.54	11.69	13.44	14.97
<b>Volta</b>	26.19	32.02	22.26	13.73	16.66	21.34
<b>Central</b>	22.08	26.49	19.97	13.95	19.83	42.15
<b>Western</b>	23.85	25.79	8.13	13.60	15.30	12.50
<b>Ashanti</b>	15.07	16.62	10.29	8.68	9.15	5.41
<b>Brong Ahafo</b>	11.04	12.58	13.95	6.20	7.11	14.68
<b>Northern</b>	14.97	18.30	22.24	7.52	9.10	21.01
<b>Upper East</b>	19.51	24.93	27.78	11.96	14.80	23.75
<b>Upper West</b>	13.46	15.56	15.60	8.28	9.42	13.77
<b>Greater Accra</b>	21.15	23.66	11.87	15.01	17.43	16.12
<b>Country Average</b>	<b>18.24</b>	<b>21.19</b>	<b>16.17</b>	<b>11.04</b>	<b>13.25</b>	<b>20.02</b>

From Table 3.41, the national mean price of maxi bag of charcoal has increased by 16.17% over that of 2012 whilst the mini bag has increased by 20.02% within the same period.

**Table 3.42: Mean Charcoal Prices per kg in in Ghana Cedis by Regions (% Change over previous year)**

REGION	MAXI BAG (Gh¢)			MINI BAG (Gh¢)		
	2012	2013	% Change over previous year	2012	2013	% Change over previous year
<b>Eastern</b>	0.32	0.36	12.50	0.45	0.52	15.56
<b>Volta</b>	0.50	0.61	22.00	0.53	0.64	20.75
<b>Central</b>	0.37	0.44	18.92	0.44	0.63	43.18
<b>Western</b>	0.45	0.49	8.89	0.52	0.59	13.46
<b>Ashanti</b>	0.29	0.32	10.34	0.33	0.35	6.06
<b>Brong Ahafo</b>	0.19	0.22	15.79	0.20	0.23	15.00
<b>Northern</b>	0.26	0.32	23.08	0.24	0.29	20.83
<b>Upper East</b>	0.34	0.43	26.47	0.39	0.48	23.08
<b>Upper West</b>	0.23	0.27	17.39	0.27	0.30	11.11
<b>Greater Accra</b>	0.35	0.39	11.43	0.48	0.55	14.58

**Table 3.43: January – December 2013 Statistics – Charcoal Prices by Regional Capitals**

CAPITAL TOWN	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Koforidua</b>	23.57	24.00	25.00	14.60	14.00	14.00
<b>Ho</b>	29.81	28.00	28.00	14.86	14.00	14.00
<b>Cape Coast</b>	34.37	35.00	35.00	27.22	30.00	30.00
<b>Takoradi</b>	28.21	28.00	28.00	18.52	18.50	18.00
<b>Kumasi</b>	15.22	16.00	18.00	8.35	9.00	9.00
<b>Sunyani</b>	15.79	15.00	15.00	8.21	8.00	8.00
<b>Tamale</b>	19.71	19.00	19.00	8.71	8.00	8.00
<b>Bolgatanga</b>	20.77	21.00	21.00	14.29	14.00	14.00
<b>Wa</b>	20.51	21.00	21.00	12.31	12.00	12.00
<b>Accra</b>	21.78	22.00	20.00	16.66	17.00	19.00
<b>Country Average</b>	<b>21.19</b>	<b>21.00</b>	<b>20.00</b>	<b>13.22</b>	<b>13.00</b>	<b>8.00</b>

**Table 3.44: Average Prices of charcoal in Ghana Cedis per kg by Regions: January – December. 2013**

CAPITAL TOWN	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Koforidua</b>	0.45	0.46	0.48	0.57	0.54	0.54
<b>Ho</b>	0.57	0.53	0.53	0.57	0.54	0.54
<b>Cape Coast</b>	0.57	0.58	0.58	0.59	0.59	0.57
<b>Takoradi</b>	0.54	0.53	0.53	0.71	0.71	0.69
<b>Kumasi</b>	0.29	0.30	0.34	0.32	0.35	0.35
<b>Sunyani</b>	0.27	0.26	0.26	0.26	0.26	0.26
<b>Tamale</b>	0.34	0.33	0.33	0.28	0.26	0.26
<b>Bolgatanga</b>	0.36	0.37	0.37	0.46	0.45	0.45
<b>Wa</b>	0.36	0.37	0.37	0.40	0.39	0.39
<b>Accra</b>	0.36	0.37	0.33	0.53	0.54	0.60

**Table 3.45: Mean Charcoal Prices by Capital Urban centres (% Change over previous year)**

CAPITAL TOWN	MAXI BAG (Gh¢)			MINI BAG (Gh¢)		
	2012	2013	% Change over previous year	2012	2013	% Change over previous year
<b>Koforidua</b>	20.77	23.57	13.48	12.86	14.60	13.53
<b>Ho</b>	26.00	29.81	14.65	13.29	14.86	11.81
<b>Cape Coast</b>	28.61	34.37	20.13	17.16	27.22	58.62
<b>Takoradi</b>	26.25	28.21	7.47	17.04	18.52	8.69
<b>Kumasi</b>	13.54	16.22	19.79	8.25	8.35	1.21
<b>Sunyani</b>	13.75	15.79	14.84	7.41	8.21	10.80
<b>Tamale</b>	15.38	19.71	28.15	7.52	8.71	15.82
<b>Bolgatanga</b>	15.68	20.77	32.46	11.29	14.29	26.57
<b>Wa</b>	16.68	20.51	22.96	10.64	12.31	15.70
<b>Accra</b>	19.55	21.78	11.41	14.46	16.66	15.21
<b>Country Average</b>	<b>18.24</b>	<b>21.19</b>	<b>16.15</b>	<b>11.04</b>	<b>13.22</b>	<b>19.71</b>

**Table 3.46: Mean Charcoal Prices per kg in in Ghana Cedis by Capital Urban centres (% Change over previous year)**

CAPITAL TOWN	MAXI BAG (Gh¢)			MINI BAG (Gh¢)		
	2012	2013	% Change over previous year	2012	2013	% Change over previous year
<b>Koforidua</b>	0.40	0.45	12.50	0.49	0.57	16.33
<b>Ho</b>	0.50	0.57	14.00	0.51	0.57	11.76
<b>Cape Coast</b>	0.48	0.57	18.75	0.54	0.59	9.26
<b>Takoradi</b>	0.50	0.54	8.00	0.66	0.71	7.58
<b>Kumasi</b>	0.26	0.29	11.54	0.32	0.35	9.37
<b>Sunyani</b>	0.24	0.27	12.50	0.24	0.26	8.33
<b>Tamale</b>	0.27	0.34	25.93	0.24	0.28	16.67
<b>Bolgatanga</b>	0.27	0.36	33.33	0.36	0.46	27.78
<b>Wa</b>	0.29	0.36	24.14	0.34	0.40	17.65
<b>Accra</b>	0.33	0.36	9.09	0.46	0.53	15.22

**Table 3.47: January - December 2013 Statistics - Charcoal Prices by Ecological Zones**

ECOLOGICAL ZONES	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Coastal</b>	27.19	27.00	28.00	18.18	18.00	18.00
<b>Forest</b>	21.05	20.00	20.00	12.56	12.00	12.00
<b>Transition</b>	12.67	12.00	11.00	7.42	8.00	8.00
<b>Savanna</b>	19.60	19.00	21.00	11.13	11.00	10.00

**Table 3.48: Mean Charcoal Prices by Ecological Zones (% Change over previous year)**

ECOLOGICAL ZONES	MAXI BAG (Gh¢)			MINI BAG (Gh¢)		
	2012	2013	% Change over previous year	2012	2013	% Change over previous year
<b>Coastal</b>	24.22	27.19	12.28	15.00	18.18	21.23
<b>Forest</b>	18.44	21.05	14.15	10.87	12.56	15.58
<b>Transition</b>	11.08	12.67	14.31	6.39	7.42	16.17
<b>Savanna</b>	15.98	19.60	22.66	9.16	11.13	21.50

**Table 3.49: Average Prices of charcoal in Ghana Cedis per kg by Ecological Zones (January- December 2013)**

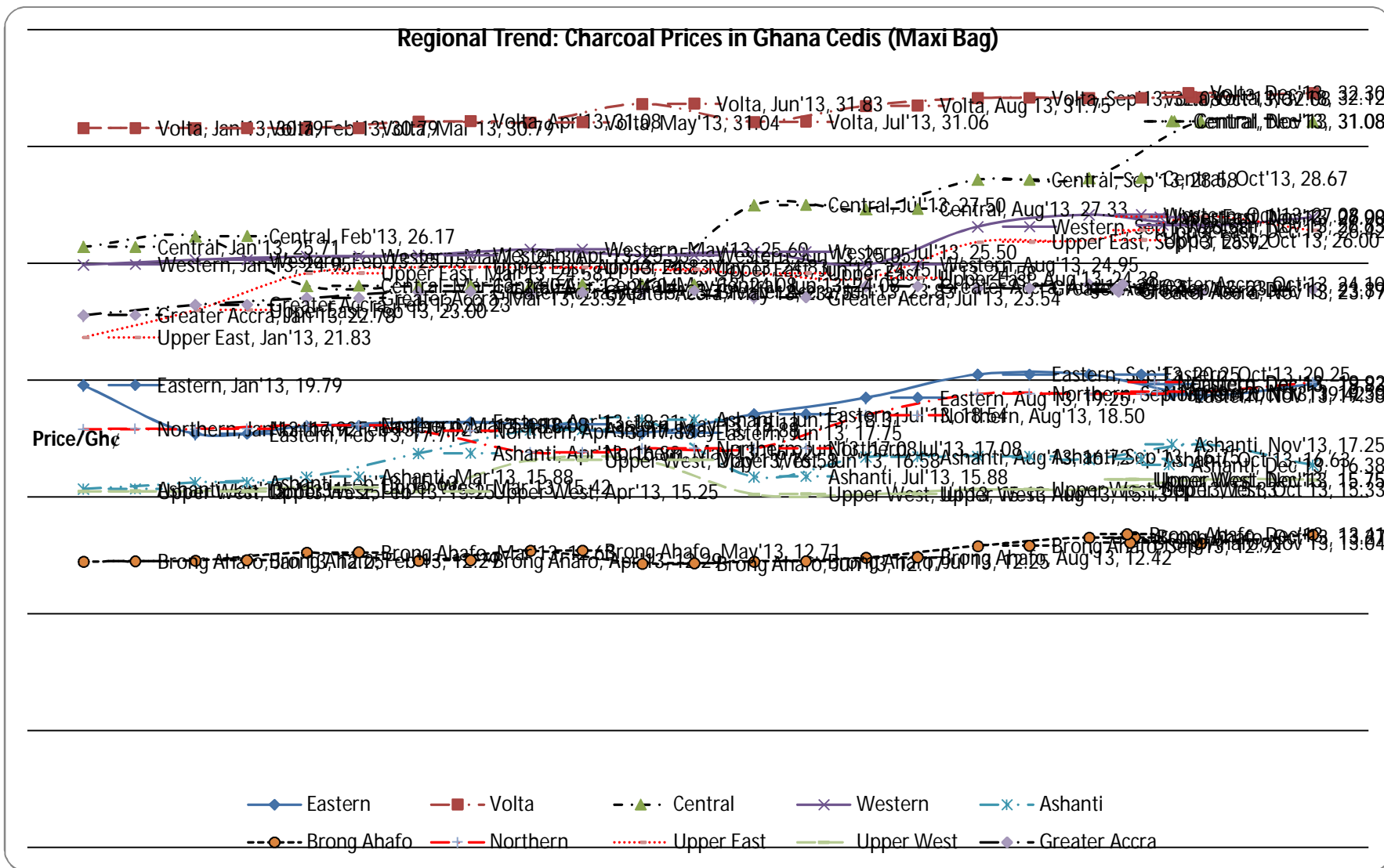
ECOLOGICAL ZONES	MAXI BAG			MINI BAG		
	MEAN	MEDIAN	MODE	MEAN	MEDIAN	MODE
<b>Coastal</b>	0.45	0.45	0.47	0.58	0.57	0.57
<b>Forest</b>	0.40	0.38	0.38	0.48	0.46	0.46
<b>Transition</b>	0.22	0.21	0.19	0.24	0.26	0.26
<b>Savanna</b>	0.34	0.33	0.37	0.36	0.35	0.32

**Table 3.50: High and Low Price Districts - 2013**

<b>Region</b>	<b>High Price Districts</b>	<b>Low Price Districts</b>
Eastern	New Juabeng, Birim South	Afram Plains
Volta	Nkwanta, Ketu South, Ho	Nkonya, South Dayi
Central	Awutu Effutu Senya, Cape Coast, Agona Swedru	Upper Denkyira East
Western	Nzema East, Sekondi/Takoradi, Juabeso, Tarkwa	Amenfi East
Ashanti	Asante Akim North, Offinso	Kumasi
Brong Ahafo	Sunyani, Techiman	Nkoranza South, Atebubu Amantin, Jaman North, Kintampo North
Northern	Tamale, Yendi	East Gonja
Upper East	Kassena Nankana, Bolgatanga, Bawku	
Upper West	Wa	Sissala East, Jirapa Lambussie
Greater Accra	Tema, Ashaiman, Accra	Ga East



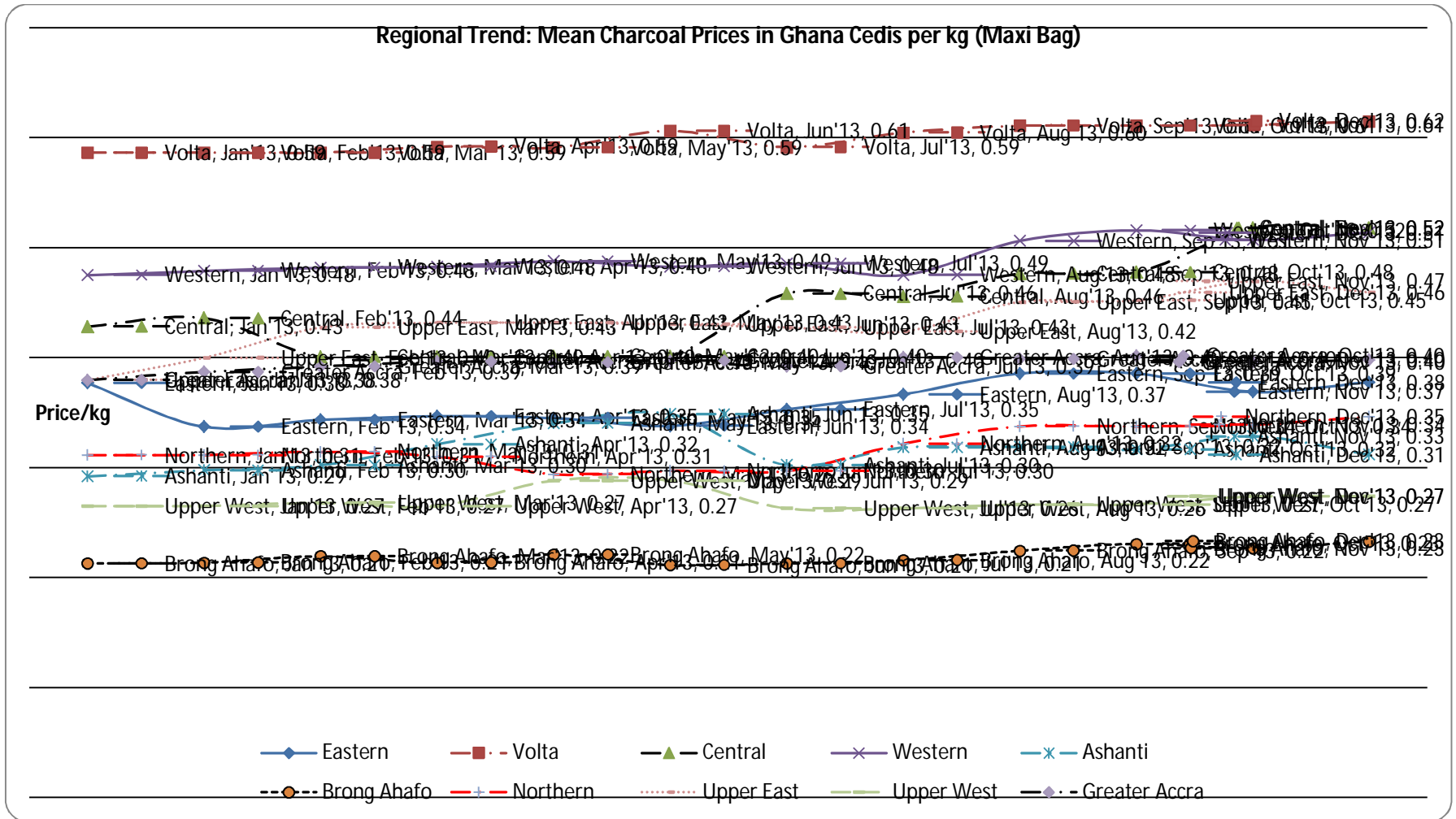
**Figure 3.1: Trends in Regional Mean charcoal Prices for Maxi Bag: January – December 2013**



**Table 3.51: Mean Prices of charcoal in Ghana Cedis by Regions: January –December 2013 (Maxi Bag)**

<b>REGION</b>	<b>Jan'13</b>	<b>Feb'13</b>	<b>Mar'13</b>	<b>Apr'13</b>	<b>May'13</b>	<b>Jun'13</b>	<b>Jul'13</b>	<b>Aug'13</b>	<b>Sep'13</b>	<b>Oct'13</b>	<b>Nov'13</b>	<b>Dec'13</b>
Eastern	19.79	17.71	18.04	18.21	18.13	17.75	18.54	19.25	20.25	20.25	19.38	19.83
Volta	30.79	30.79	30.79	31.08	31.04	31.83	31.06	31.75	32.08	32.08	32.12	32.30
Central	25.71	26.17	24.04	24.04	24.08	24.08	27.50	27.33	28.58	28.67	31.08	31.08
Western	24.95	25.15	25.30	25.35	25.60	25.35	25.50	24.95	26.58	27.08	26.63	26.98
Ashanti	15.34	15.63	15.88	16.88	17.88	18.31	15.88	16.72	16.75	16.63	17.25	16.38
Brong Ahafo	12.25	12.29	12.63	12.29	12.71	12.17	12.25	12.42	12.92	13.27	13.04	13.41
Northern	17.92	17.92	18.08	17.83	16.92	17.08	17.08	18.50	19.42	19.42	19.50	19.92
Upper East	21.83	23.00	24.58	24.83	24.83	24.75	24.58	24.38	25.92	26.00	27.00	26.42
Upper West	15.25	15.25	15.42	15.25	16.58	16.58	15.13	15.13	15.33	15.33	15.75	15.75
Greater Accra	22.78	23.23	23.52	23.79	23.75	23.83	23.54	24.02	23.94	24.10	23.77	23.89

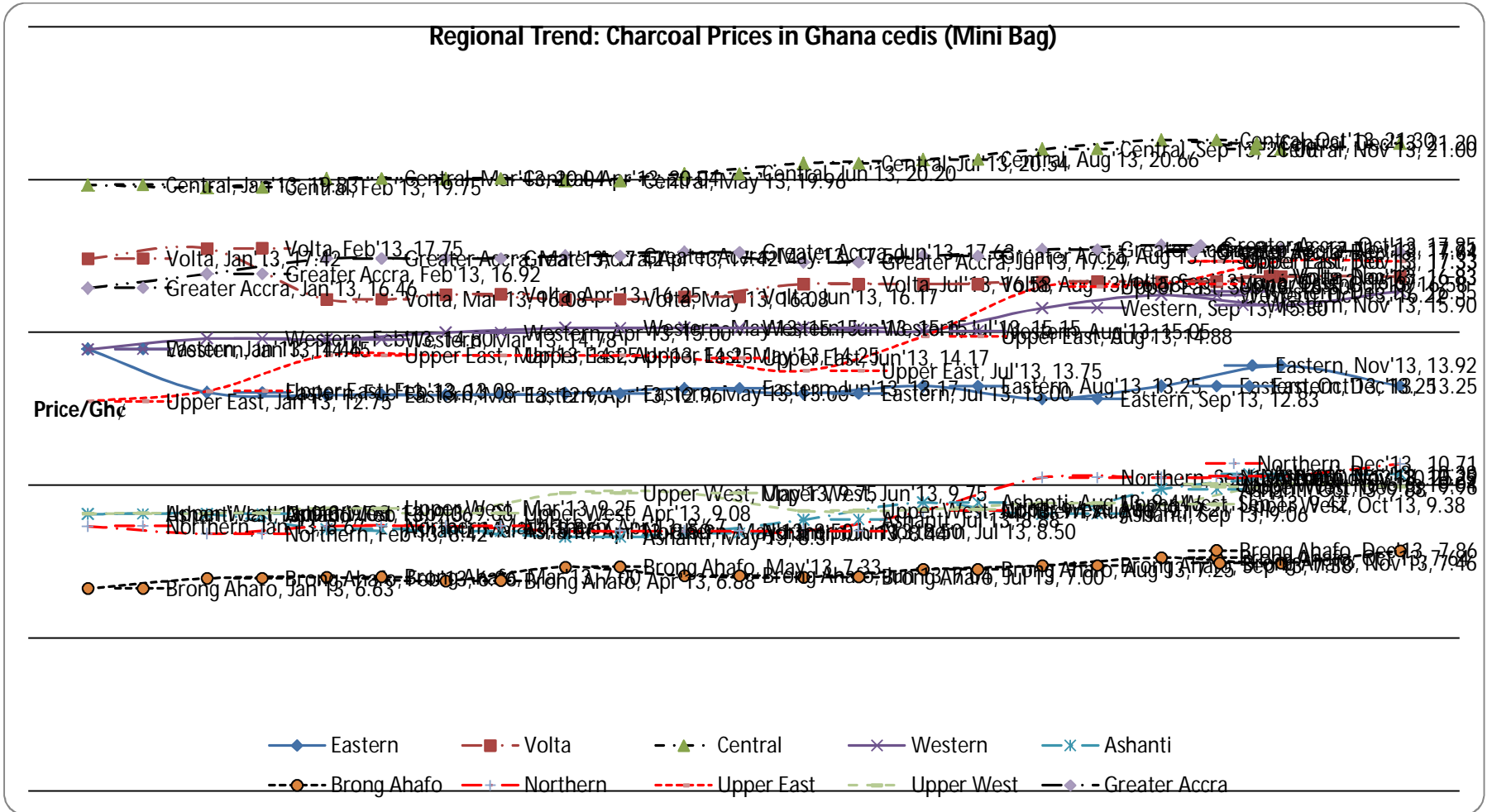
Figure 3.2: Trends in Regional Average charcoal in Ghana Prices per kg: January – December 2013 (Maxi Bag)



**Table 3.52: Mean Prices of charcoal in Ghana Cedis per kg: January – December 2013 (Maxi Bag)**

<b>REGION</b>	<b>Jan'13</b>	<b>Feb'13</b>	<b>Mar'13</b>	<b>Apr'13</b>	<b>May'13</b>	<b>Jun'13</b>	<b>Jul'13</b>	<b>Aug'13</b>	<b>Sep'13</b>	<b>Oct'13</b>	<b>Nov'13</b>	<b>Dec'13</b>
Eastern	0.38	0.34	0.34	0.35	0.35	0.34	0.35	0.37	0.39	0.39	0.37	0.38
Volta	0.59	0.59	0.59	0.59	0.59	0.61	0.59	0.60	0.61	0.61	0.61	0.62
Central	0.43	0.44	0.40	0.40	0.40	0.40	0.46	0.46	0.48	0.48	0.52	0.52
Western	0.48	0.48	0.48	0.48	0.49	0.48	0.49	0.48	0.51	0.52	0.51	0.51
Ashanti	0.29	0.30	0.30	0.32	0.34	0.35	0.30	0.32	0.32	0.32	0.33	0.31
Brong Ahafo	0.21	0.21	0.22	0.21	0.22	0.21	0.21	0.22	0.22	0.23	0.23	0.23
Northern	0.31	0.31	0.31	0.31	0.29	0.30	0.30	0.32	0.34	0.34	0.34	0.35
Upper East	0.38	0.40	0.43	0.43	0.43	0.43	0.43	0.42	0.45	0.45	0.47	0.46
Upper West	0.27	0.27	0.27	0.27	0.29	0.29	0.26	0.26	0.27	0.27	0.27	0.27
Greater Accra	0.38	0.39	0.39	0.40	0.40	0.40	0.39	0.40	0.40	0.40	0.40	0.40

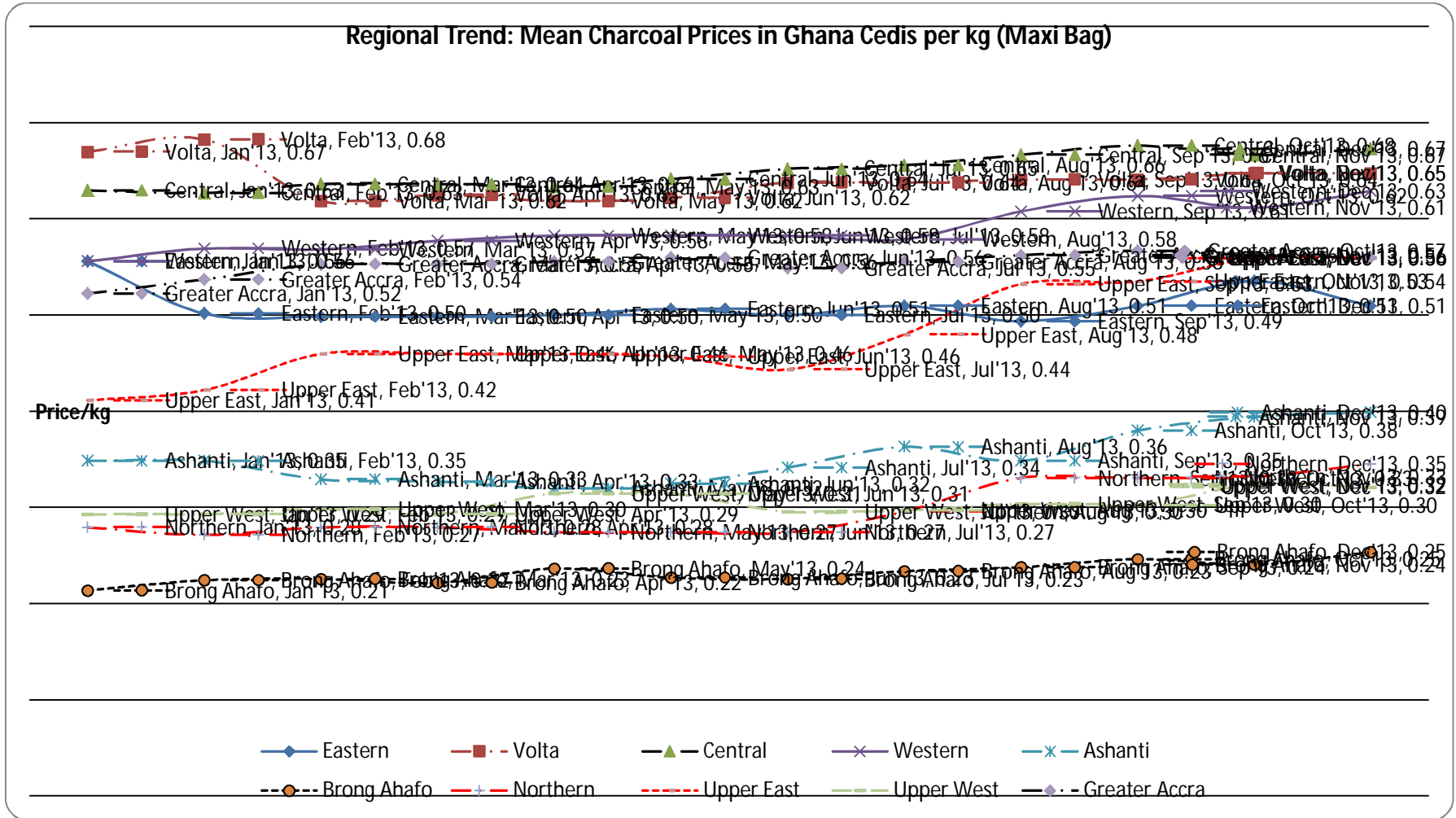
**Figure 3.3: Trends in Regional Mean charcoal Prices for Mini Bag: January – December 2013**



**Table 3.53: Mean Prices of charcoal in Ghana Cedis by Regions: January–December 2013 (Mini Bag)**

<b>REGION</b>	<b>Jan'13</b>	<b>Feb'13</b>	<b>Mar'13</b>	<b>Apr'13</b>	<b>May'13</b>	<b>Jun'13</b>	<b>Jul'13</b>	<b>Aug'13</b>	<b>Sep'13</b>	<b>Oct'13</b>	<b>Nov'13</b>	<b>Dec'13</b>
Eastern	14.46	13.04	12.96	12.96	13.00	13.17	13.00	13.25	12.83	13.25	13.92	13.25
Volta	17.42	17.75	16.08	16.25	16.08	16.17	16.58	16.58	16.67	16.67	16.83	16.83
Central	19.83	19.75	20.04	20.04	19.96	20.20	20.54	20.66	21.00	21.30	21.00	21.20
Western	14.45	14.80	14.78	15.00	15.15	15.15	15.15	15.05	15.80	16.22	15.90	16.35
Ashanti	9.06	9.06	8.56	8.50	8.31	8.44	8.88	9.44	9.06	9.88	10.25	10.38
Brong Ahafo	6.63	6.96	7.00	6.88	7.33	7.04	7.00	7.25	7.38	7.64	7.46	7.86
Northern	8.67	8.42	8.67	8.67	8.50	8.50	8.50	9.17	10.25	10.25	10.29	10.71
Upper East	12.75	13.08	14.25	14.25	14.25	14.17	13.75	14.88	16.50	16.58	17.33	17.33
Upper West	9.08	9.08	9.25	9.08	9.75	9.75	9.17	9.21	9.42	9.38	10.04	9.96
Greater Accra	16.46	16.92	17.42	17.42	17.50	17.63	17.29	17.50	17.71	17.85	17.71	17.64

**Figure 3.4: Trends in Regional Mean charcoal Prices per kg for Mini Bag: January – December 2013**



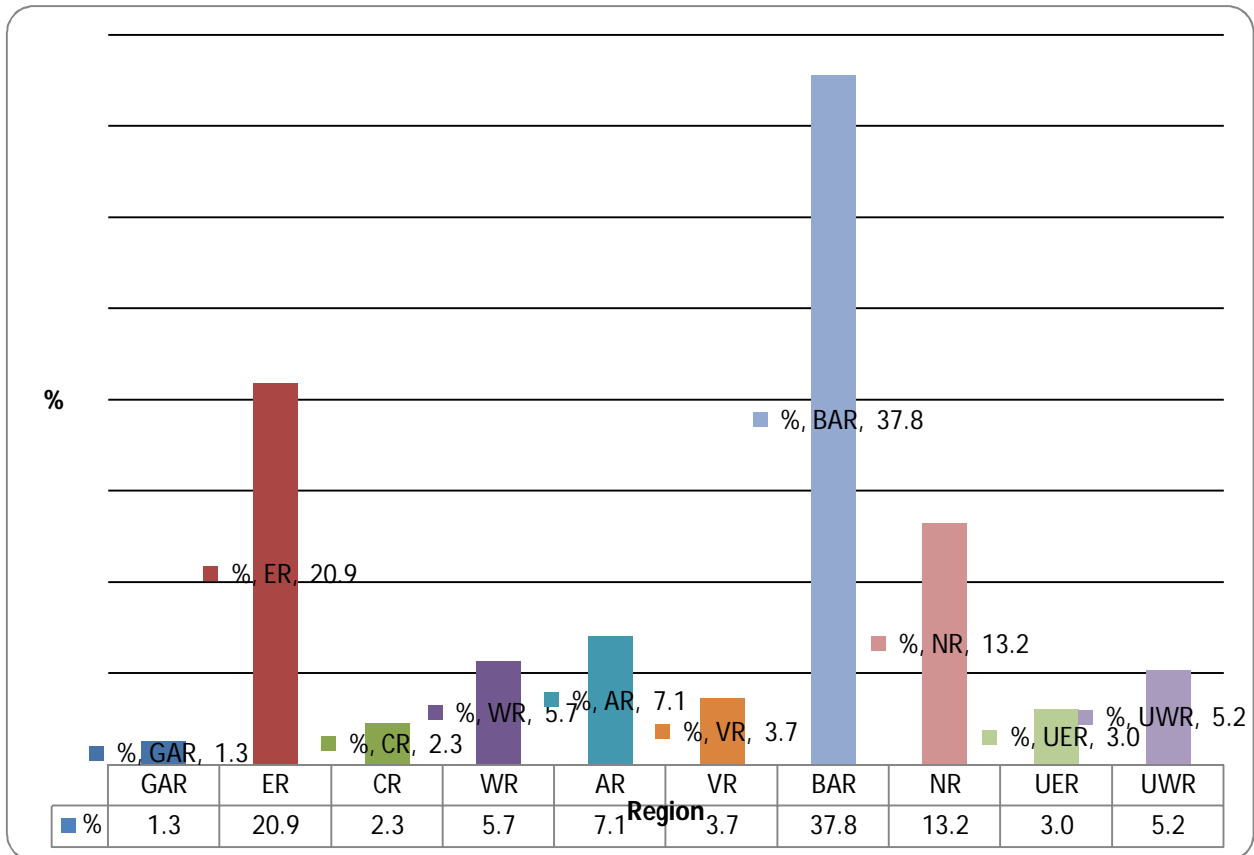
**Table 3.54: Mean Prices of charcoal in Ghana Cedis per kg: January – December 2013 (Mini Bag)**

<b>REGION</b>	<b>Jan'13</b>	<b>Feb'13</b>	<b>Mar'13</b>	<b>Apr'13</b>	<b>May'13</b>	<b>Jun'13</b>	<b>Jul'13</b>	<b>Aug'13</b>	<b>Sep'13</b>	<b>Oct'13</b>	<b>Nov'13</b>	<b>Dec'13</b>
Eastern	0.56	0.50	0.50	0.50	0.50	0.51	0.50	0.51	0.49	0.51	0.54	0.51
Volta	0.67	0.68	0.62	0.63	0.62	0.62	0.64	0.64	0.64	0.64	0.65	0.65
Central	0.63	0.63	0.64	0.64	0.63	0.64	0.65	0.66	0.67	0.68	0.67	0.67
Western	0.56	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.61	0.62	0.61	0.63
Ashanti	0.35	0.35	0.33	0.33	0.32	0.32	0.34	0.36	0.35	0.38	0.39	0.40
Brong Ahafo	0.21	0.22	0.23	0.22	0.24	0.23	0.23	0.23	0.24	0.25	0.24	0.25
Northern	0.28	0.27	0.28	0.28	0.27	0.27	0.27	0.30	0.33	0.33	0.33	0.35
Upper East	0.41	0.42	0.46	0.46	0.46	0.46	0.44	0.48	0.53	0.53	0.56	0.56
Upper West	0.29	0.29	0.30	0.29	0.31	0.31	0.30	0.30	0.30	0.30	0.32	0.32
Greater Accra	0.52	0.54	0.55	0.55	0.56	0.56	0.55	0.56	0.56	0.57	0.56	0.56



### 3.2 Sources of charcoal supply

**Figure 3.5: Sources of Charcoal Supply in 2013 (Production Areas)**



The transition and savanna zones of Ghana, mainly Kintampo, Nkoranza, Wenchi and Jaman (all in the Brong Ahafo Region), Afram Plains - Donkorkrom (in Eastern Region), Damongo, Yendi and Bamboi (Northern Region) are still the major charcoal production areas of the country (Figure 3.5).

## CHAPTER FOUR: CONCLUSION

### 4.1 Key Findings

For the period under review, the analysis shows that the prices of both the maxi and mini bags of charcoal have been increasing. The national mean price of maxi bag of charcoal has increased from GH¢18.24 in 2012 to GH¢21.16 in 2013 by 16.17% while that of the mini bag of charcoal has also increased from GH¢11.04 in 2012 to GH¢13.25 in 2013 by 20.02% (Table 3.41). The national maximum and minimum prices for the **maxi bag** are GH¢38.00 and GH¢9.00 respectively. The national maximum and minimum prices for the **mini bag** are GH¢31.00 and GH¢5.00 respectively.

Further, the trends in the pricing of charcoal indicated that the product is more expensive in the coastal areas.

The least expensive centres are in the transition zone - Donkorkrom, Kintampo, Atebubu, Jaman North, Nkoranza, Sissala East and Techiman. The transition and savanna zones of Ghana, mainly Kintampo, Nkoranza, Wenchi and Jaman (all in the Brong Ahafo Region), Afram Plains - Donkorkrom (in Eastern Region), Damongo, Yendi and Bamboi (Northern Region) are **still** the major charcoal production areas (Figure 3.6).

APPENDIX

A.1 Sample of CPro Data Entry Structure used to capture the field data for analysis

**ENERGY COMMISSION**  
CHARCOAL PRICE TRACKING STUDY


Unique ID	1322130112	Month of interview	1	Week of interview	1
Name of Enumerator	misheal ninson		Contact No.		
Date of interview	DD MM YYYY	Time interview begin	1 6 3 0		
	4 12 013				

1.0 Basic Information

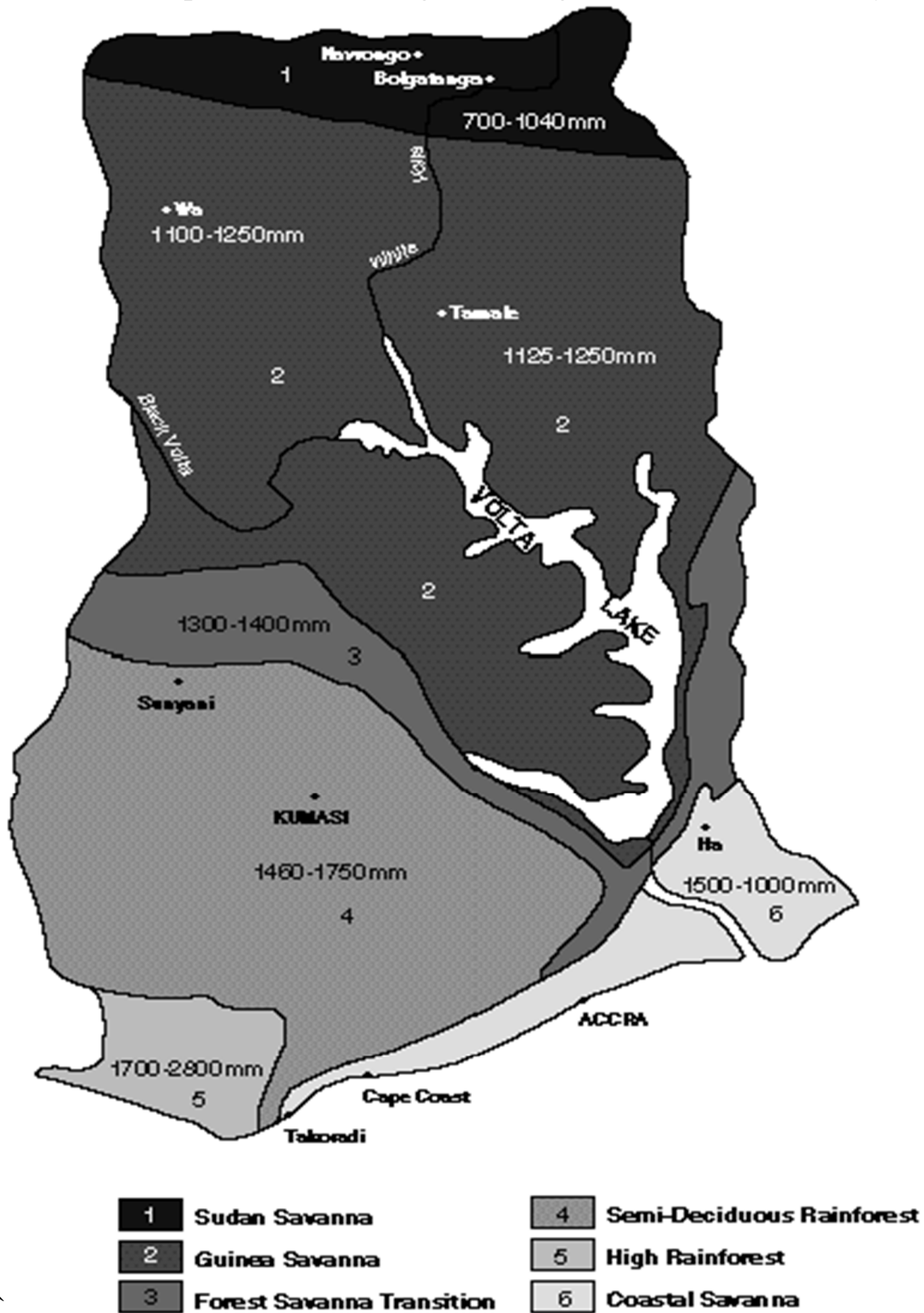
Name of market	essikado	Town	essikado		
Suburb	essikado	District	shema		
Region	13	Sex of trader	2	Age of trader	53

1.0 Charcoal Supply

No Partial: MODIFY Field = UNIQUE\_ID Occurrence 1 of 1 NUM



## A.2 Map of Ghana showing the Ecological Zones of the Country



**NOTE:** In the Report, Savanna Zone is equivalent to Sudan Savanna and Guinea Savanna, Transitional Zone is equivalent to Forest Savanna Transition, Forest is equivalent to Semi-Deciduous Rainforest and High Rainforest and Coastal Zone is equivalent to Coastal Savanna.

