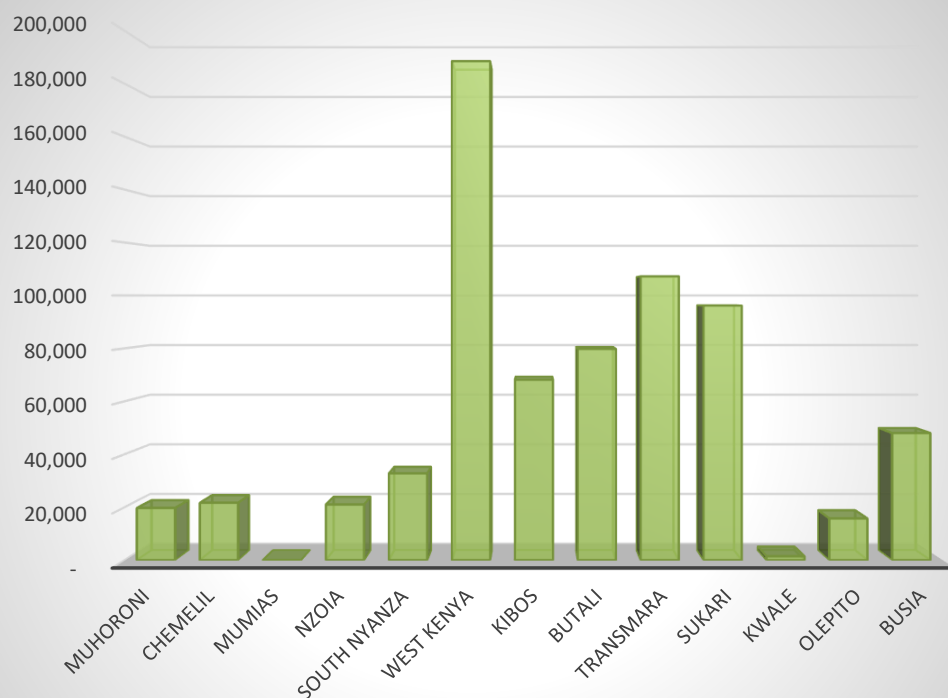




## YEAR BOOK OF SUGAR STATISTICS 2021

COMPARATIVE SUGAR PRODUCTION IN 2021 (MT)



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# KENYA SUGAR INDUSTRY

## YEAR BOOK OF

### SUGAR STATISTICS 2021

*The Crops Act, 2013 consolidates and repeals various statutes relating to crops, to provide for the growth and development of agricultural crops. As a result, all the institutions earlier established under the repealed laws ceased to exist and with the commencement of the Crops Act in August 2014 became directorates of AFA. The Sugar Directorate is one of the eight Directorates under the Agriculture and Food Authority (AFA).*

#### **AFA MISSION**

*"To sustainably develop and promote scheduled crops value chains through effective regulation for economic growth"*

#### **AFA VISION**

*"To be a world class regulator in the agricultural sector"*

#### **CORE VALUES**

*Professionalism, Integrity, Customer Focus, Team work and Innovativeness*

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## DEFINITIONS AND ACRONYMS USED IN THE SUGAR INDUSTRY

<b>AFA</b>	Agriculture and Food Authority
<b>Annual Maintenance</b>	The longer period set aside for comprehensive equipment rehabilitation and some new installations. In the tropics, it is erroneously referred to as out-of-crop (OOC), yet cane is not seasonal and is available in the farm all year round
<b>Ash content</b>	Solid residue determined gravimetrically after incineration in the presence of oxygen. In analysis of sugar products, sulfuric acid is added to the sample, and this residue as sulfated ash heated to 525 °C is taken to be a measure of the inorganic constituents. Sometimes determined indirectly by measurement of electrical conductivity of the product in solution (see conductivity ash)
<b>Bagacillo</b>	1. Fine fraction of bagasse obtained by screening or pneumatic separation, generally used as a filter aid in filtration 2. Very small particles of bagasse separated either from pre-clarification juices or from the final bagasse for filtration or other purposes
<b>Bagasse</b>	Cane residue leaving mills after extraction of juice
<b>BOD<sub>5</sub></b>	Five days biological oxygen demand
<b>Boiling house</b>	That part of the sugar mill in which the processes of production of sugar from raw juice are carried out. It is also referred to as back end or raw house
<b>Boiling House Recovery</b>	The percentage ratio of pol actually recovered in sugar to sucrose in mixed juice. If based on pol in mixed juice it is referred to as Boiling House Pol Recovery
<b>Brix</b>	1. Measure of dissolved solids in sugar liquor or syrup using a refractometer, otherwise referred to as refractometric dry solids. For solutions containing only sugar and water, Brix = % sugar by mass. Spindle Brix is determined using a hydrometer, but is now seldom used 2. Refractometer brix - the term used when a refractometer equipped with a scale, based on the relationship between refractive indices at 20°C and the percentage by mass of total soluble solids of a pure aqueous sucrose solution, is used instead of a hydrometer to test the solids concentration of a sucrose containing solution. The sugar industry is now standardized on refractometer brix
<b>Bulk Density</b>	The mass of material per unit of total volume occupied
<b>Cane to Sugar Ratio</b>	Tonnes of cane required to produce one tonne of <i>tel quel</i> sugar
<b>Color</b>	Attenuation index, determined by absorption of light under defined conditions. Generally measured using the ICUMSA method at 420 nm and referred to as ICUMSA units or IU.
<b>Conductivity Ash</b>	Estimate of ash content by measurement of the conductivity of the solution.
<b>Crystal Content</b>	The percentage by mass of crystalline sugar present in a massecuite, magma or similar material
<b>CU</b>	Capacity utilization
<b>Dissolved solids</b>	All solute material which is in solution, including sucrose, monosaccharides, ash and other organic impurities
<b>Dry Substance</b>	1. The material remaining after drying a product to constant mass, or for a specified period. The mass of dry substance can also be found by deducting from the mass of the product, the mass of moisture, as determined in a specified manner 2. A measure of total solids obtained from evaporating a solution or massecuite under vacuum to dryness
<b>Extraction</b>	1. Proportion of sugar extracted from cane in the extraction plant; equals mass of sugar in raw juice as a percentage of mass of sugar in cane 2. The percentage ratio of sucrose in mixed juice to sucrose in cane. If based on pol it is referred to as Pol Extraction

## DEFINITIONS AND ACRONYMS USED IN THE SUGAR INDUSTRY

<b>Extraneous matter</b>	All cane leaves and tops, mud, soil, roots, rocks, stones and tramp iron delivered with the cane.
<b>Fibre</b>	<p>1. The dry fibrous insoluble structure of the cane plant. Generally taken to mean all insoluble material in the cane delivered to a mill, and therefore includes soil or other extraneous insoluble matter in cane</p> <p>2. The water insoluble matter of cane and bagasse from which the brix-free water has been removed by drying. Where associated with brix-free water, fibre is often called natural fibre</p>
<b>Filter Cake</b>	The residue removed from process by filtration including any added filter aid.
<b>FTE</b>	Factory Time Efficiency
<b>ICUMSA</b>	International Commission for Uniform Methods of sugar analysis
<b>Imbibition</b>	<p>1. The process of adding water to the extraction plant to increase extraction. Sometimes incorrectly referred to as maceration (steeping cane in juice). Water added is called imbibition water</p> <p>2. The process in which water or juice is put on bagasse to mix with/dilute the juice present in the latter. The water so used is termed imbibition water. General terms in use are: single imbibition, double imbibition, compound imbibition, depending on the manner in which water is applied</p>
<b>Invert sugar</b>	Mixture of approximately equal parts of glucose and fructose (monosaccharides) resulting from the hydrolysis of sucrose (inversion)
<b>ISO</b>	International Sugar Organisation
<b>ISA</b>	International Sugar Agreement
<b>KEBS</b>	Kenya Bureau of Standards
<b>kg</b>	Kilogram
<b>Molasses</b>	The mother liquor separated from the crystals by centrifuging A, B, or C massecuites. Molasses is derived from the corresponding massecuites. C molasses is also referred to as final molasses
<b>MT</b>	Metric Tonnes
<b>Nonsugar</b>	Common overall term for dissolved solids other than sugar contained in any process stream
<b>Nonsucose</b>	Dissolved solids contained in any process stream other than sucrose
<b>OTE</b>	Overall Time Efficiency
<b>PI</b>	Preparation Index
<b>Polarization (or pol)</b>	<p>1. Relative rotation of plane polarised light as a measure of sucrose concentration</p> <p>2. The apparent sucrose content of any substance expressed as a percentage by mass and determined by the single or direct polarisation method. The term is used as if it were a real substance</p> <p>3. The apparent sucrose content expressed as a mass percent measured by the optical rotation of polarized light passing through a sugar solution. This is accurate only for pure sucrose solutions</p>
<b>ppm</b>	Parts per million

## DEFINITIONS AND ACRONYMS USED IN THE SUGAR INDUSTRY

<b>Purity</b>	1. The true purity is the sucrose content as a percent of the dry substance or dissolved solids content. The solids consist of sugar plus nonsucrose components such as invert, ash, and colorants. Apparent purity is expressed as polarizability divided by refractometer Brix, multiplied by 100.
	2. The percentage ratio of sucrose (or pol) to the total soluble solids (or brix) in a sugar product. The following terms are in general use:Refractive apparent purity: The percentage ratio of pol to refractometer brix. G.C. sucrose refractometer brix purity: The percentage ratio of GC sucrose to refractometer brix.
<b>R-</b>	Reduced or parameters standardise at agreed conditions
<b>Raw Juice</b>	Juice obtained from the cane extraction process. Also referred to as mixed juice (from mills) or draft juice (from diffusers).
<b>Raw Sugar</b>	Brown sugar produced in a raw sugar mill generally destined for further processing to white sugar in a refinery.
<b>RBHR</b>	Reduced boiling house recovery
<b>Reducing Sugars</b>	Generally referred to and /or interpreted as invert sugar determined by measuring reducing substance content by laboratory analysis.
<b>Refining</b>	Purification of sugar through chemical and physical methods generally including some or all of clarification, filtration, decolorization and recrystallization.
<b>Refractometric dry solids (RDS)</b>	Measurement of total dissolved solids in a sugar liquor or syrup using a refractometer. For solutions containing only sugar and water, % RDS = % sugar by mass.
<b>Rendement</b>	Sugar made % cane
<b>RME</b>	Reduced Mill Extraction
<b>ROR</b>	Reduced Overall Recovery
<b>Safety factor</b>	Number to indicate keeping quality of raw sugar, calculated from pol and moisture content (Moisture (g)/100g sugar)/ (100-pol).
<b>Sonysugar</b>	South Nyanza Sugar Company Limited
<b>Sucrose</b>	The pure disaccharide a -D-glucopyranosyl-β-D-fructofuranoside, known commonly as sugar.
<b>Sugarcane</b>	Botanically a tall grass of the genus Saccharum and agriculturally the crop produced from hybrids which are the progeny of a number of Saccharum species commonly referred to as cane. For determination and payment of sucrose in cane it is the raw material accepted at the mill for processing.
<b>SD</b>	Sugar Directorate
<b>SRI</b>	Sugar Research Institute
<b>TC/TS ratio or TC:TS</b>	Cane and Sugar ratio by weight
<b>TCD</b>	Tonnes of Cane per Day
<b>tel qel</b>	Apparent quantity
<b>USD</b>	United State of America Dollar
<b>TREO</b>	Tax Remission for Export Office

## PARAMETERS AND COMPUTATION OF STATISTICAL DATA

PARAMETERS	No	METHOD
Weight of cane	1	Obtained by weighing
Weight of mixed juice	2	Obtained by weighing
Weight of imbibition water	3	Obtained by weighing
Moisture % bagasse	4	Mean of daily analyses
Pol ( or sucrose) % bagasse	5	Mean of daily analyses
Brix % bagasse	6	$\frac{\text{Pol \% bagasse (5)} \times 100}{\text{Purity last expressed juice}}$
Purity last expressed juice		Mean of daily analyses
Fibre % bagasse	7	$100 - \text{Moisture \% bagasse (4)} - \text{Brix \% bagasse (6)}$
Weight of bagasse	8	$(1) + (3) - (2)$
Bagasse % cane	9	$(8) \div (1) \times 100$
Weight of fibre	10	$(8) \times (7) \div 100$
Fibre % cane	11	$(10) \div (1) \times 100$
Mixed Juice % cane	12	$(2) \div (1) \times 100$
sucrose % mixed juice		Mean of daily analyses
Brix % mixed juice		Mean of daily analyses
Weight of Brix in mixed juice	13	$(2) \times \text{Brix \% mixed juice} \div 100$
Weight of sucrose in mixed juice	14	$(2) \times \text{sucrose \% mixed juice} \div 100$
Weight of Brix in bagasse	15	$(6) \times (8) \div 100$
Weight of sucrose in bagasse	16	$(5) \times (8) \div 100$
Sucrose In bagasse % cane	17	$(16) \div (1) \times 100$
Weight of absolute juice	18	$(1) - (10)$
Weight of Brix in absolute juice	19	$(15) + (13)$
Weight of sucrose in absolute juice	20	$(16) + (14)$
Brix % absolute juice	21	$(19) \div (18) \times 100$
Sucrose % absolute juice	22	$(20) \div (18) \times 100$
Gravity purity absolute juice	23	$(20) \div (19) \times 100$
Weight of absolute juice extracted	24	$(13) \div (21) \times 100$

## PARAMETERS AND COMPUTATION OF STATISTICAL DATA

PARAMETERS	No	METHOD
Absolute juice % cane	25	$(18) \div (1) \times 100$
Absolute juice extracted % cane	26	$(24) \div (1) \times 100$
Weight of absolute juice in bagasse	27	$(18) - (24)$
Imbibition water % cane	28	$(3) \div (1) \times 100$
Imbibition water % absolute juice	29	$(3) \div (18) \times 100$
Weight of dilution water	30	$(2) - (24)$
Dilution water % cane	31	$(30) \div (1) \times 100$
Dilution water % absolute juice extracted	32	$(30) \div (24) \times 100$
Evaporation % clarified juice	33	$\frac{(\text{Syrup Brix} - \text{Clarified juice Brix}) \times 100}{\text{Syrup Brix}}$
syrup Brix		Obtained by analysis
Weight of sucrose in cane	34	$= (20)$
Weight of Brix in cane	35	$= (19)$
Sucrose % cane	36	$(34) \text{ or } (20) \div (1) \times 100$
Java Ratio	37	$\frac{\text{sucrose \% cane (36)} \times 100}{\text{Sucrose \% 1st expressed juice}}$
Sucrose % 1st expressed juice		Obtained by analysis
Mill extraction (M.E)	38	$(14) \div (34) \times 100$
Reduce mill extraction (R.M.E)	39	$\frac{100 - [100 - (38)] [100 - (11)]}{7 \times (11)}$
Sucrose in bagasse % sucrose in cane	40	$(16) \div (34) \times 100$
Extraction ratio	41	$\frac{100 - (38)}{(11)} \times 100$
Mill Loss	42	$(16) \div (10) \times 100$
First mill extraction (stuart formula)	43	$\frac{(P_m - P_2) P_1 \times e}{(P_1 - P_2) P_m}$ where: $P_m$ = Pol % mixed juice $P_1$ = Pol % 1st mill juice $P_2$ = Pol % 2nd mill juice $e$ = mill extraction
Weight of raw sugar	44	Obtained by weighing
POL of raw sugar	45	Polarisation of mean sugar sample
Moisture %sugar	46	Moisture of mean sugar sample

## PARAMETERS AND COMPUTATION OF STATISTICAL DATA

PARAMETERS	No	METHOD
Dilution indicator (DI)	47	$\frac{(46) \times 100}{100 - (45) - (46)}$ Where: DI less than 35 is SAFE DI between 35-50 is DOUBTFUL DI above 50 indicates DETERIORATION DI below 25 is strong fire hazard
Weight of sucrose in raw sugar	48	$(44) \times (45) \div 100$
Boiling house recovery ( RHR)	49	$(48) \div (14) \times 100$
Reduce Boiling House recovery (RBHR) ( Purity mixed juice = 85)	50	$100 - \{ 100 - (49) \} \frac{\text{purity of mixed juice}}{5.667 ( 100\text{- pty. M.J})}$
Purity of mixed juice		$\frac{\text{sucrose \% mixed juice} \times 100}{\text{Brix \% mixed juice}}$
Purity of raw sugar	51	$\frac{45}{100 - (46)} \times 100$
SJM recovery ( available sucrose)	52	$\frac{S (J-M)}{J (S-M)} \times 100$ Where: S= gravity pty raw sugar J= gravity pty mixed juice M= gravity pty molasses
Weight of <u>available</u> sucrose in mixed juice	53	$(14) \times (52) \div 100$
Boiling house efficiency (BHE)	54	$(48) \div (53) \times 100$
Daily <u>estimation</u> of raw sugar production	55	$\frac{(14) \times (52) \times (54) \times 100}{(45)}$
Overall recovery	56	$(48) \div (34) \times 100$
Reduced overall recovery	57	$(39) \times (50) \div 100$
Raw sugar extracted % cane	58	$(44) \div (1) \times 100$
Sucrose extracted % cane	59	$(48) \div (1) \times 100$
Weight of filter cake	60	Obtained by weighing
Sucrose (or Pol) % filter cake	61	Mean of daily analyses
Moisture % filter cake	62	Mean of daily analyses
Weight of sucrose (or pol) in filter cake	63	$(60) \times (61) \div 100$
Sucrose (or pol) in filter cake %cane	64	$(63) \div (1) \times 100$

## PARAMETERS AND COMPUTATION OF STATISTICAL DATA

PARAMETERS	No	METHOD
Weight of final molasses	65	Obtained by weighing
Sucrose of final molasses	66	Obtained by analysis
Weight of sucrose in final molasses	67	$(66) \times (65) \div 100$
Sucrose in final molasses % cane	68	$(67) \div (1) \times 100$
Total real losses % cane	69	$(36) - (59)$
Total industrial losses % cane	70	$(69) - (17)$
Undetermined losses % cane	71	$(70) - (64) - (68)$
Total crushing hours per day	72	Daily mill crushing hours
Hours of stoppages ( exclusive of cane shortage and planned stops)	73	Daily mill stoppage hours
Nett crushing hours per day	74	$(72) - (73)$
Tonnes cane crushed per hour	75	$(1) \div (74)$
Overall time efficiency	76	$\frac{74}{24(\text{hours})} \times 100$
Mechanical time efficiency	77	$\frac{74}{(74) + (73)} \times 100$

## SUMMARY OF RECOVERIES

PARAMETERS	No	METHOD
Weight of sucrose in mixed juice	4	
SJM Recovery	52	
Weight of available sucrose in mixed juice	53	$(53) = (14) \times (52) \div 100$
Weight of raw sugar	44	
weight of sucrose in raw sugar	48	$(48) = (44) \times (45) \div 100$
Boiling House Recovery, BHR	49	$(49) = (48) \div (14) \times 100$
Boiling House Efficiency, BHE	54	$(54) = (48) \div (53) \times 100$
Daily <u>estimation</u> of raw sugar to be produced	55	$(55) = \frac{(14) \times (52) \times (54) \times 100}{4.50E+01}$
Overall Recover, OR	56	$(56) = (48) \div (34) \times 100$
Reduced Overall Recovery, ROR	57	$(57) = (39) \times (50) \div (100)$

## PARAMETERS AND COMPUTATION OF STATISTICAL DATA

### SUMMARY OF LOSSES

PARAMETERS	No	METHOD
Weight of cane crushed	1	
Weight of sucrose in cane	34	
Sucrose % cane		$= (34) \div (1) \times 100$
Weight of sucrose in raw sugar extracted	48	
Sucrose extracted % cane		$= (48) \div (1) \times 100$
Weight of sucrose lost in filter bagasse	16	
Sucrose lost in bagase % cane		$= (16) \div (1) \times 100$
Weight in sucrose lost in filter cake	63	
Sucrose lost in filter cake % cane		$= (63) \div (1) \times 100$
Weight of sucrose lost in molasses	67	
Sucrose lost in molasses % cane		$(68) = (67) \div (1) \times 100$

### EXAMPLE FOR COMPUTING LOSSES

	METHOD	VALUE	Losses	
			% cane	% Sucrose
Weight of cane (1)	1	3,257,000.00	0	0
Weight of sucrose in cane (34)	34	420,390.00	0	0
Weight of sucrose in raw sugar (48)	48	376,230.00	0	0
Total weight of sucrose lost	$= (34) - (48)$	44,160.00	1	11
Weight of sucrose lost in bagase	16	14,160.00	0	3
Weight of sucrose lost in filter cake	63	2,840.00	0	1
Weight of sucrose lost in final molasses	67	25,764.00	1	6
Total accountable sucrose losses	$= (16) + (63) + (67)$	42,764.00	0	0
Undetermined losses	71	1,466.00	0	0
Industrial losses	70	30,070.00	1	7



# **PERFORMANCE OF THE SUGAR INDUSTRY IN 2021**

## **1.0 INTRODUCTION**

### **1.1 About the Report**

This report examines the performance of the sugar industry over the course of the calendar year - 1<sup>st</sup> January 2021 to 31<sup>st</sup> of December 2021. Every average that is presented in this report, with the exception of factory efficiencies, is weighted.

### **1.2 The Kenyan Sugar Industry**

The sugar sub-sector is critical to Kenya's agricultural sector and economy. More than eight million Kenyans benefit from the industry in terms of food security, job creation, regional development, and improved livelihoods. Small-scale farmers contribute approximately 90% of the cane milled in the industry. Sugar cane farming is currently practiced by approximately 250,000 growers in 15 counties, with farm sizes averaging 0.79 hectares. Farm households and rural businesses in these areas rely on cash injections from sugarcane. The sector contributes to infrastructure development through construction and maintenance of roads and bridges; as well as development of social amenities such as schools, health centers, sports and recreation facilities. Additionally, the sector provides raw materials for downstream industries, such as bagasse for power co-generation and molasses for a variety of industrial products such as ethanol, beverages, confectionery, and pharmaceuticals.

The Kenyan sugar industry has 15 sugar factories namely: Chemelil, Muhoroni, Nzoia, South Nyanza, Soin, Miwani, West Kenya, Mumias, Olepito, Busia, Butali, Kibos, Sukari, Transmara and Kwale. However, during the review period, January – December 2021 Miwani, Mumias and Soin sugar companies were not operational.

Sugar made in 2021 hit an all-time high at 701,552 tonnes, up 22% from 575,506 tonnes produced in 2020. Sugarcane milled increased by 11% from 6,880,203 tonnes in 2020 to 7,647,224 tonnes in 2021.

In general, most sugar millers improved their performance in terms of sugarcane milled, sugar made, and sugar production (bagged). As a result of increased cane crushed and sugar made in 2021, sugar production (bagged) increased by 16% to 700,241 tonnes in 2021 from 603,788 tonnes in 2020. West Kenya Sugar Company continued to lead the industry in sugar bagged with 188,512 tonnes, followed by Transmara with 107,233 tonnes and Sukari with 96,156 tonnes.

## **2.0 AGRICULTURAL PERFORMANCE**

### **2.1 Area under Cane**

Total area under sugarcane as at 31st December 2021 was 223,006 hectares compared to 200,513 hectares recorded in the same period 2020, an increase of 11%. The area under cane was spread across 15 counties: Kakamega Bungoma, Kisumu, Narok, Busia, Nandi, Homabay, Kericho, Migori, Transzoia, Kwale, Uasin Gishu, Kisii, Vihiga, and Siaya. The increase in acreage was notable in Kakamega, Bungoma, Migori, Kericho and Uasin Gishu counties. The leading sugarcane producing counties with percentage share are: Kakamega (19.85%), Bungoma (17.68%), Kisumu (12.86%) and Narok (8.31%). The total number of farmers involved in cane growing in 2021 was 262,667 compared to 254,422 recorded in the previous year, an increase of 3%. The average size of small-holder farms is 0.78 hectares. The Nucleus Estates belonging to sugar factories accounted for 6% of the total area under cane, while out growers accounted for 94% of the total area under cane.

Most sugar factories have seen an increase in their area under sugarcane, with the exception of Chemelil, South Nyanza, Busia, and Miwani zones, which have seen a decrease in cane area.

Area under cane in the West Kenya, Butali, and Sukari zones have increased significantly in the year 2021. Soin Sugar Company zone, similarly, reported improved cane

development. There are a total of 25 cane varieties in the sugar belts with 3 dominant varieties - CO 421 (41%), CO 945 (27%) and CO 617 (16%). The Kenyan improved cane varieties accounts for only 11% of the total area under cane attributed to more intense agronomic packages as well as lower adaptability in various zones.

In December 2021, the PC: R1: R2: R3+ crop cycles ratio in the industry was 27:34:22:17, compared to the industry standard of 30:30:30:10, necessary for stable cane supply. The high plant to ratoon crop proportion indicated that cane planting activities had been sustained, primarily by private mills. For more details, refer to Figures I (a) & I (b) and Tables A (i) and 8-26.

## **2.2 Area Harvested, Cane Deliveries and Yields**

In 2021, total area harvested was 93,288 hectares compared to 89,680 hectares in the period January – December 2020, giving a 4% increase. These figures however, do not include area harvested by non-contracted farmers.

Total cane deliveries in 2021 were 7,659,120 tonnes compared to 6,810,898 tonnes in 2020, an increase of 12%. Except for Chemelil, Nzoia, Kibos, Butali and Kwale sugar companies, all other mills recorded increased cane deliveries in 2021. Mumias and Soin Sugar Companies remained shut down throughout the year. The increase in cane deliveries was primarily attributed to favorable weather conditions for cane growth in the majority of sugar zones. Out of the total cane delivered, Outgrower farms supplied 82%, Nucleus Estate 3% and Non-contracted farmers 15%.

The average cane yield for the sugar industry in 2021 was 69.95 tonnes per hectare compared to 61.85 tonnes per hectare recorded in 2020, representing a 13% increase, attributed to favourable weather conditions and improved cane husbandry in most of the sugar zones.

Transmara sugar zone recorded the best cane yield at 173.98 tonnes per hectare, attributed to good rains, high soil potentials and aggressive extension services offered effective extension services offered by the miller to the farmers. On the other hand, Kwale sugar zone registered the lowest yields, 22.57 tonnes/ha, this was due to harvesting of over mature cane. For more details, refer to Figures II (a) & II (b) and Tables A (ii), A (iii), A (iv), B and 11- 26.

## **2.3 Sugar Yield**

The sugar yield for the industry averaged 6.42 tonnes per hectare in 2021 compared to 5.17 tonnes per hectare in 2020, an increase of 24%. In 2021, Transmara Sugar Company continued to top in performance, registering a yield of 18.11 tonnes per hectare. Butali Sugar Company came second with an average of 7.28 tonnes of sugar per hectare. Kwale International Sugar Company continued to report poor sugar yields, hitting a low of 1.11 in 2021. This is attributed to poor cane quality and associated poor sugar recoveries at the mill. For more details, refer to Figure III and Table D.

## **3.0 FACTORY PERFORMANCE**

### **3.1 Cane Crushed, Sugar Made and Recovery by Factory**

Total sugarcane crushed by the industry in 2021 was 7,647,224 tonnes, up from 6,880,203 tonnes in 2020, representing an increase of 11% due to increased cane availability across all sugarcane growing zones. As a result, sugar made increased by 22% from 575,506 tonnes in 2020 to 701,552 tonnes in 2021.

Overall, the TC/TS ratio increased by 9% to 10.90 in 2021, up from 11.96 in the previous year. Butali and Transmara sugar factories had the highest sugar recovery rates, with TC/TS ratios of 9.41 and 9.61, respectively. Butali experienced good recoveries due to thorough factory maintenance undertaken in September and October 2021. Kwale sugar factory, on the other hand, had the lowest sugar recovery with a TC/TS of 20.34, which was attributed to milling over mature cane with very low sucrose content. Similarly, all the state-owned factories had poor sugar recoveries, with Nzoia and Chemelil registering conversion ratios of 16.37 and 16.03, respectively. Table I summarizes the industry's comparative performance by factory, in 2020 and 2021.

Table I: Cane Milled, Sugar Made and TC/TS Ratio by Factory

FACTORY	CANE CRUSHED (MT)		SUGAR MADE (MT)		CANE: SUGAR RATIO (TC/TS)	
	JAN - DEC 2020	JAN - DEC 2021	JAN - DEC 2020	JAN - DEC 2021	JAN - DEC 2020	JAN - DEC 2021
MUHORONI	279,738	313,539	18,060	20,671	15.49	15.17
CHEMELIL	346,841	353,616	25,362	22,053	13.68	16.03
MUMIAS	N/A	N/A	N/A	N/A	N/A	N/A
NZOIA	424,598	353,179	27,274	21,578	15.57	16.37
SOUTH NYANZA	220,550	430,076	14,373	32,627	15.35	13.18
WEST KENYA	1,464,241	1,943,199	128,786	188,512	11.37	10.31
KIBOS	1,000,076	791,243	85,507	67,880	11.70	11.66
BUTALI	895,241	751,035	87,226	79,787	10.26	9.41
TRANSMARA	805,627	1,031,187	78,701	107,347	10.24	9.61
SUKARI	617,810	972,556	55,436	96,156	11.14	10.11
KWALE	264,352	30,042	10,877	1,477	24.30	20.34
OLEPITO	151,093	176,159	11,926	15,741	12.67	11.19
BUSIA	410,036	501,393	31,978	47,723	12.82	10.51
<b>TOTAL</b>	<b>6,880,203</b>	<b>7,647,224</b>	<b>575,506</b>	<b>701,552</b>	<b>11.96</b>	<b>10.90</b>

### 3.1.1 Chemelil Sugar Company

The Factory operated throughout the year. The amount of cane crushed increased slightly from 346,841 tonnes in the year 2020 to 353,616 tonnes in 2021. However, the quantity of sugar made by the miller reduced from 25,362 to 22,053 tonnes over the same period due to low sugar recoveries at 6.24%. The cane to sugar conversion ratio (TC/TS) dropped from 13.68 in the previous year to 16.03 in the period under review. The mill operated without undertaking a comprehensive factory maintenance, leading to

inefficiency and associated losses. A total of 327 hours was lost due to cane unavailability, compared to 4,011 hours lost due to factory breakdowns. A low capacity utilization at 32.30% was realized. For more details, refer to Table 28.

### **3.1.2 Butali Sugar Company**

During the period under review, Butali Sugar Company was the most efficient sugar miller. Butali accounted for 10% of total Cane crushed in the year 2021. The amount of cane milled decreased by 16 percent to 751,035 MT in 2021 from 895,241 MT in the previous year. Sugar production declined by 9% from 87,226 MT in 2020 to 79,787 MT in 2021. The decrease in performance was attributed to factory closure between September and October, for annual maintenance. The cane milled had an average pol % cane of 12.73 against 11.64 recorded the previous year. The cane to sugar ratio equally improved from TC/TS of 10.26 recorded in 2020 to 9.41 attained during the review period. Butali recorded a factory time efficiency of 92.63% which compared favorably with the international standard of 95%, with an overall time efficiency of 72.50%. The miller registered the highest capacity utilization in the industry at 82.31% against the industry standards of 80%. For more details, refer to Table 36.

### **3.1.3 Kibos Sugar and Allied Industries**

Kibos Sugar and Allied Industries milled 791,243 tonnes of cane in 2021, compared to 1,000,076 tonnes in 2020, a decrease of 21%. Sugar made declined by 21%, from 85,507 tonnes in 2020 to 67,880 tonnes in the review period, attributed to a prolonged closure occasioned by a turbine breakdown in September 2021. Operations resumed in November. Despite a decrease in both sugarcane milled and sugar made, the factory improved its cane to sugar ratio from 11.70 in 2020 to 11.66 during the review period. The quality of cane milled slightly dropped from an average pol% cane of 10.64 in 2020 to 10.59 in 2021. The mill's capacity utilization dropped to 72.24 percent from a high of 91.16 percent the previous year, attributed to a decrease in actual grinding time observed

in 2021. A total of 2,423 hours were lost due to scheduled factory stoppages, and only 38 hours were lost due to sugarcane shortages. For more details, refer to Table 35.

### **3.1.4 West Kenya Sugar Co. Ltd**

In 2021, the West Kenya Sugar Company was the country's leading sugar producer. The mill operated continuously throughout the year. Cane milled in 2021 increased by 33% to 1,943,199 tonnes from 1,464,241 tonnes in 2020, while the amount of sugar made increased by 46% from 128,786 tonnes in 2020 to 188,512 tonnes in 2021. The good performance in cane milled and sugar produced was attributed to improved cane availability and factory expansion. Similarly, the cane to sugar ratio improved, with the TC/TS ratio dropping from 11.37 in 2020 to 10.31 in 2021. The quality of cane milled also improved from a pol% cane of 11.13 registered in 2020 to 12.08 in 2021. The factory's actual TCH increased from 149.52 in 2020 to 156.36 in 2021. Actual grinding time increased by 6% from 7,231 factory hours last year to 7,677 factory hours in 2021. The time lost due to lack of cane dropped considerably from 469 hours the previous year to 178 hours in 2021, a decrease of 62%. This is attributed to improved cane supply to the factory, following good rains and the miller's aggressive cane development program, as evidenced by an increase in surface under cane. The area under cane as of 31<sup>st</sup> December, 2021 was 59,048 Ha, up from 48,011 Ha the previous year. This has ensured a steady supply of sugar cane and, as a result, uninterrupted milling. The Factory's capacity utilization increased from 80.21 percent last year to 81.90% in 2021, compared to the industry standard of 80 percent. For more details, refer to Table 33.

### **3.1.5 Transmara Sugar**

During the period under review, the quantity of cane milled by the Transmara Sugar Company was the second highest in the industry. Cane milled in 2021 increased to 1,031,187 MT from 805,627 MT realized in 2020, an increase of 28%. The increase is attributed to improved sugarcane supply to the mill. Consequently, sugar made

significantly increased by 36% from 78,701 tonnes reported in 2020 to 107,347 tonnes in 2021. Transmara Sugar Company came third in terms of cane quality, with a pol% cane of 12.44, up from 11.84 the previous year. The miller cane second in terms of TC/TS ratio at 9.61, an improvement from 10.24 achieved in 2020, attributed to improved cane quality. Actual grinding time in 2021 improved to 6,595 hours, an increase of 22% from 5,388 hours registered last year. Time lost due to factory breakdowns dropped significantly by 46% from 1,936 hours to 1,050 hours in 2021. The miller recorded a capacity utilization of 70.63% against the industry standard of 80%. For more details, refer to Table 37.

### **3.1.6 Sukari Industries**

Sukari Industries came third in terms of sugarcane milled in 2021, crushing 972,556 tonnes up 57% from 617,810 tonnes in 2020. The quantity of sugar made increased 73% from 55,436 tonnes in 2020 to 96,156 tonnes in 2021, attributed to improved sugar recoveries at a TC/TS of 10.11 down from 11.14 recorded in 2020. The improvement is attributed to fewer factory breakdowns compared to the previous year, during which frequent factory interruptions were experienced in October - November 2020, and a complete shutdown in December 2020. The miller attained a capacity utilization of 76.13% in 2021 against an industry standard of 80% (For more details, refer to Table 38)

### **3.1.7 South Nyanza Sugar Company**

In comparison to the previous year, there is an improvement in the South Nyanza Sugar Company's performance. The quantity of cane crushed in the year 430,076 tonnes, a



95% improvement from 220,550 tonnes registered in the previous year. Sugar made was 32,627 tonnes against 14,373 tonnes over the same period. There was an improvement in sugar recoveries with the TC/TS ratio dropping from 15.35 in the preceding year to 13.18 in 2021. The quality of cane milled also improved from a pol% cane of 11.27 registered in 2020 to 12.36 in the review period. Total time lost due to a lack of cane dropped considerably from 1,960 hours in 2020, to 418 hours in 2021, a 79% improvement. Time lost due to factory breakdowns was 2,788 factory hours during the period under review. The actual grinding time in South Nyanza increased by 73% from 2,007 factory hours last year to 3,468 factory hours in 2021, leading to an improved capacity utilization at 39.28% up from a low of 20.07% in 2020. Overall recovery was poor at 54.71%, the lowest recorded in the industry in 2021. For more details, refer to Table 32.

### **3.1.8 Muhoroni Sugar Company**

There was an improvement in overall operations at the Muhoroni Sugar factory in 2021, compared to the previous year. The amount of cane milled was 313,539 tonnes, up from 279,738 tonnes crushed in 2020 an increase of 12%. Sugar made increased by 14% to 20,671 tonnes from 18,060 tonnes in 2020. Sugar recovery improved at TC/TS ratio of 15.17 down from 15.49 in 2020. Time lost due to lack of cane significantly reduced to 380 hours from 2,554 hours lost in the previous year, while time lost due to factory breakdowns increased to 2,919 factory hours from of 2,441 hours in the previous year.

The quality of cane milled deteriorated from a pol % cane of 10.11 recorded last year to 10.43 this year. For more details, refer to Table 29.

### **3.1.9 Nzoia Sugar Company**

During the review period, Nzoia Sugar Company operated with some disruption, resulting in a significant drop in the amount of sugarcane crushed and sugar produced. Capacity utilization dropped from 42.12% recorded in 2020 to 32.26% in 2021. The miller crushed 353,179 tonnes and made 21,578 tonnes of sugar against 424,598 tonnes of cane milled and 27,274 tonnes of sugar made in 2020. Sugar recovery was poor with a TC/TS of 16.37 against industry standard of 10. Time lost due to factory breakdown was 2,328 hours, while actual grinding time was significantly reduced from 3,187 factory hours to 2,782 factory hours during the review period. For more details, refer to Table 31.

### **3.1.10 Mumias Sugar Company**

The factory remained shut throughout 2021 due to administrative issues.

### **3.1.11 Kwale International Sugar Company (KISCOL)**

The Kwale International Sugar Company only operated for two months, February and March 2021, before closing down. Only 30,042 tonnes of cane were milled compared to 264,352 tonnes in the previous year. The total amount of sugar made in 2021 declined by 86% to 1,477 tonnes from 10,877 tonnes the previous year due to a severe shortage in cane supply and the poor state of the sugar plant. The miller registered the lowest sugar recovery at a TC/TS ratio of 20.34, against an industry standard of 10. For more details, refer to Table 39.

### **3.1.12 Olepito Sugar Company**

Olepito Sugar Company improved its performance in both cane milled and sugar made. The amount of cane milled increased by 17% to 176,159 tonnes from 151,093 tonnes in 2020. Similarly, sugar made increased 32% to 15,741 tonnes, up from 11,926 tonnes in 2021. Improved performance is attributed to better cane supply. The actual grinding time increased by 19%, from 5,015 factory hours in 2021 to 5,976 factory hours in the review period. Time lost due to cane shortage decreased from 543 hours to 48 hours in 2021. The miller achieved a capacity utilization of 64%, a significant improvement from 33% in the previous year. Improved capacity utilization was attributed to fewer factory breakdowns, which resulted in a time loss of 1,380 factory hours in 2021, compared to 1,992 factory hours the previous year. Cane quality similarly improved from a pol% cane of 10.59 to pol% cane of 11.73. For more details, refer to Table 40.

### **3.1.13 Busia Sugar Company**

Since its operationalization in 2019, the Busia Sugar Company has recorded continuous improvement in performance. Cane milled by the Busia Sugar Company was 501,393 tonnes compared to 410,036 tonnes milled the previous year, a 22% increase. Similarly, the amount of sugar made increased by 49% to 47,723 tonnes from 31,978 tonnes over the same period. Improved performance was attributed to enhanced cane supply to the mill. Time lost due to lack of cane reduced significantly from 1,196 factory hours in 2020 to 428 hours in 2020, a 64% decrease. The quality of cane milled improved from a pol % cane of 10 in 2020 to 12.55 in 2021, informed by the harvesting of mature cane. The miller registered a capacity utilization of 46% up from 37% reported in 2020. For more details, refer to Table 41.

### **3.5 Factory Time Account**

In 2021, the industry recorded actual total grinding time of 57,602 factory hours against 58,593 factory hours registered in 2020, 1.7% decline attributed to a prolonged closure of the Kwale International sugar company and other minor closures in the other factories.

West Kenya sugar factory registered the highest actual grinding time in the industry at 7,676 factory hours followed by Sukari Industries Ltd at 7,353 hours. The good performance by private millers is mainly attributed to undertaking of regular plant maintenance and timely payment for cane deliveries. Kwale International Sugar company had the lowest actual grinding time, followed by the Nzoia Sugar Company, with 350 and 2,783 factory hours, respectively.

Time lost due to lack of cane decreased significantly from a total of 14,832 hours in 2020 to 11,623 hours in 2021, pointing to improved cane supply. Kwale International recorded the highest factory time lost due to supply of poor quality over mature cane, at 7,646 hours, followed by Nzoia and Transmara Sugar Companies with 1,251 and 528 hours, respectively. At the Nzoia Sugar Company, there was reluctance by farmers to supply cane due to a delay in farmers payment. Kibos, Olepito and Butali had the lowest time loss from lack of cane at 38 ,48 and 53 hours, respectively, attributed to a consistent supply of good quality sugar cane.

In the period under review, the cumulative time lost due to factory breakdowns was 18,819 factory hours, compared to 16,741 factory hours in the period 2020. The high time loss in 2021 was due to a large number of millers shutting down operations due to various factors throughout the year. Chemelil, Muhoroni and South Nyanza factories recorded the highest time lost due to factory breakdowns at 4,011, 2,919 and 2,788 hours, respectively. Government-owned factories suffered high occurrences of unscheduled stoppages, attributed to a lack of regular sugar plant maintenance. In an endeavour to revitalize the sugar sector and as part of the government's post-Covid-19

recovery plan to stimulate the economy, the national government, through the National Treasury, in 2021, set aside Sh1.5 billion to offset debts owed by state owned sugar mills. A portion of that allocation was used to undertake major repairs and maintenance of the sugar factories, an intervention that improved efficiency.

Kibos Sugar & Allied Industries suffered a major setback in September and October 2021 when a major breakdown involving the turbines occurred. Operations however resumed in November 2021.

During the review period, the industry registered an overall Factory Time Efficiency (FTE) of 75.59% against a standard of 92%. Average sugar industry overall time efficiency (OTE) was 58.09% against 57.01% achieved in 2020, an improvement attributed to reduced unscheduled stops due to factory breakdown, and improved sugarcane supply. The most efficient miller in the industry during the review period was West Kenya Sugar with FTE of 93.53% and OTE of 87.69%. For more details, refer to Tables 62 - 75.

## **4 TRADE IN SUGAR AND MOLASSES**

### **4.1 Sugar Production, Sales and Closing Stocks**

**Sugar Production:** The year 2021 saw the highest production in the history of the Kenya sugar sector. Total sugar production (bagged) was 700,241 MT from January to December 2021, up from 603,788 MT in the same period in 2020, a 14% increase, attributed to improved cane supply in all sugar zones. Favorable weather conditions during the review period, supported good sugarcane production

During the year 2021, Chemelil, Nzoia, Kibos, Butali, and Kwale recorded decreases in sugar production. West Kenya and Transmara sugar companies were the best performers, producing 188,512 MT (27%) and 107,233 MT (15%), respectively.

**Sugar Sales:** Total sugar sales from January to December 2021 were 695,348 tonnes, up from 608,389 tonnes in 2020, a 13% increase, attributed to increased sugar production and rising demand for local sugar. 2021 also recorded a reduction in Mill/white sugar imports, a factor that may have supported local sugar sales.

**Closing stocks:** As at 31st December 2021, total sugar closing stock held by all sugar factories was 6,278 tonnes, up from 3,669 tonnes in the same period of 2020. The Transmara Sugar Company accounted for 31% of total sugar closing stock during the time period. For more details, refer to Tables E, F, G, 1, 2,3 and 27- 41 and Figures IV, V(a) and V(b).

#### **4.2 Molasses Production, Sales and Closing Stocks**

Total molasses production in 2021 was 295,574 tonnes, up from 269,772 tonnes in 2020, a 10% increase attributed to improved performance, primarily by private millers, on account of raw material availability.

Total molasses sales in 2021 were 304,088 tonnes, up from 262,792 tonnes in 2020, a 16 percent increase attributed to better sugar production in 2021. Closing stocks of molasses as at 31<sup>st</sup> December 2021 totaled 8,821 tonnes, compared to 17,260 tonnes in 2020. For more details, refer to Tables H, 5, 6 and 27 – 41.

## **5 LOCAL MARKET**

### **Cane Prices**

Sugar cane prices ranged between Kshs. 3,500 and Kshs. 4,112 per tonne in the period January to December 2021. The first quarter of the year recorded the lowest producer price at an average of 3,697 per tonne in the period January to March 2021. Subsequent months saw an increase in sugarcane prices with a weighted average price of Ksh 4,040 per tonne from April to July 2021. The period August to October, saw a slight decrease in price, ending November at Ksh 3,954/tonne. The year ended with a weighted average price of Ksh 4,112 per tonne, the highest price recorded in the review period.

Overall, sugarcane prices in 2021 averaged Kshs 3,911 per tonne, up from Kshs 3,707 per tonne in 2020, a 6% increase. South Nyanza Sugar Company paid the best cane price to farmers, with an annual average price of Kshs 3,989 per tonne. Kibos Sugar Companies followed, with prices averaging Kshs 3,928 per tonne. Kwale International and Busia Sugar Company, on the other hand, offered the lowest cane prices of Kshs 3,700 and Kshs 3,861 per tonne, respectively. It should be noted that cane prices are influenced by ex-factory sugar prices. For more details, refer to Tables N and 4

### **Ex-factory Sugar Prices**

In 2021, the ex-factory sugar price ranged between Ksh 4,200 and Ksh 6,100 per 50kg bag. The year started at a high of Kshs 4,729 and reduced to an average of Kshs 4,500 per 50kg bag in February. March saw a slight increase, to an average price of Ksh 4,536 per 50kg bag. Subsequent months however, saw the price drop steadily to reach a low of Ksh 4,314 in June 2021. In the period July to October there was a trend reversal, which saw ex-factory prices settle at a monthly average of Kshs 4,770 in October. November saw a spike to Ksh 5,518 per 50kg bag, the highest price recorded in the year. This high price was however not sustained, ending the year at a weighted average of Ksh 5,304 per 50kg bag. High prices at the end of the year are typical of the festive season.

Overall, average ex-factory sugar price for the year was Kshs 4,645 per 50kg bag compared to Kshs 4,381 recorded in the same period in 2020, a 6% increase. For more details, refer to Figure VII and Tables L, 4, and 59.

### **Wholesale Sugar Prices**

Wholesale sugar prices in the review period followed the trend of the ex-factory prices. The year began at a monthly average of Kshs 4,962 per 50kg bag, decreasing gradually to end June at 4,560 per bag. Prices increased in the following period, peaking at Kshs 6,125 per 50kg bag in November. Towards the close of the year, there was a slight drop in prices to settle at an average price of Ksh 5,660 per 50kg bag.

During the review period, wholesale prices ranged between Kshs 4,250 to Kshs 7,000 per 50kg bag, leading to an overall average price of Kshs 4,969, 7% higher, from Kshs 4,633 recorded in 2020. For more details, refer to Figures VIII (a) and VIII (b) and Tables L and 60.

### **Retail Sugar Prices**

Retail sugar prices are wholly dependent on the stocking/wholesale prices. The year opened at a monthly average of Kshs 115 per Kg and picked a general downward trend to attain a low price of Kshs 107/kg in July 2021. Thereafter, there was a sustained increase in retail prices to hit a high of Ksh. 135 per Kg in Nov 2021. The end of the year saw a re-correction to an average of Kshs 132 per Kg. The overall average sugar price per Kg in 2021 was Kshs 114 per Kg, 4% higher than Ksh. 110 per Kg in 2020

For more details, refer to Figures IX (a) and IX (b) and Tables L, 4 and 61.



## **FOREIGN TRADE**

### **Sugar Imports**

Total sugar imports in 2021 were 426,334 tonnes, a 4% decrease from 442,393 tonnes imported in the same period in 2020. The decrease in sugar imports is attributed to lower mill/brown sugar shipments in 2021 and improved local sugar production in 2021. Mill white/brown sugar imports totaled 252,180 tonnes, down from 309,408 tonnes the previous year, an 18% decrease. To meet industrial sugar requirements, 174,154 tonnes of white refined sugar were imported, compared to 132,985 tonnes the previous year, a 31% increase. For more details, refer to Table I (b) & I(c).

In 2021, COMESA FTA countries supplied Kenya with 207,601 tonnes, compared to 267,954 tonnes in 2020, a 22% decrease. COMESA NON-FTA member countries contributed 58,509 tonnes in 2021, up from 47,324 tonnes in 2020. Imports from the EAC countries have increased significantly from 28,109 tonnes in 2020 to 70,509 tonnes in 2021. Total sugar imports from the rest of the world in the year 2021 were 89,500 tonnes, a drop from 99,306 tonnes imported in 2020. For more details on sugar imports refer to Tables I (d), J (i) and J (ii).

### **C.I.F Value**

In 2021, the C.I.F Mombasa landed prices for imported mill white/brown sugar averaged Kshs 63,466/tonne, compared to Kshs 56,589/tonne for white refined sugar, a difference of Kshs 6,877 per tonne. White refined sugar is generally cheaper than table sugar because most of it is imported under the Duty Remission Scheme.

Overall, the C.I.F value for both refined and table sugar, averaged Kshs 60,657 per tonne in 2021, up from Kshs 55,307 per tonne in 2020, a 9% increase. For more details, refer to Figures VI and VII and Tables J (iii), M (i) – M (iii).

Madagascar was the cheapest source of mill white/brown sugar in 2021, with an average C.I.F value of Kshs 56,358/tonne, followed by Malawi and Eswatini, at Kshs 56,462 and Ksh 56,704 per tonne, respectively.

The cheapest suppliers of white refined sugar were India and the Netherlands, with C.I.F values of Kshs 49,406 and Kshs 51,872 per tonne, respectively. Saudi Arabia and Mauritius were the main suppliers of refined white sugar, with C.I.F values of Kshs 54,878/MT and Kshs 59,913/MT, respectively. Refer to Tables J (iv) and J (v) for more information.

### **6.3 Sugar Exports**

Despite Kenya being a net sugar importer, there were 1,196 tonnes of sugar exported during the review period. 375 tonnes were exported in the same period in 2020. Most of sugar exports were destined for the neighboring countries mainly, Uganda, Rwanda, and Tanzania. For more details, refer to Table K.

## **7 WORLD SUGAR HIGHLIGHTS**

### **7.1 World Sugar Market, 2021**

In the year 2021, the spot price for raw sugar (the ISA daily price) began the year at a monthly average of 15.2 cents/lb (USD 335.08/tonne), rising to a monthly average of 16.2 cents/lb (USD 357.13/tonne) in February. The following month, March, had a slight drop to a monthly average of 15.54 cents/lb (USD 342.13/tonne). Prices rose steadily between April and September, reaching a high of 19.57 cents per pound (USD 431.42/tonne) in September. Prices dealt on an erratic (up and down) trend in the final quarter of the year, closing December at a monthly average of 18.81 cents/lb (USD 414.67/tonne). The lowest monthly average price was 15.2 cents/lb (USD 335.08/tonne)

in January 2021, while the highest was witnessed in September 2021. Overall, the year ended with an annual average of 17.67 cents/lb (USD 389.44/tonne), a 27 percent increase from the previous year's average of 12.85 cents/lb (USD 283.13/tonne).

The ISO White Sugar Price Index followed a similar pattern to the raw sugar price index. The year 2021 began with a monthly average price of USD 438.74/tonne. The ISO White Sugar Price Index recorded an average price of USD 460.41/tonne in February. Prices began to rise and reached a high of USD 509.50 per tonne in November. In December, the price fell slightly to USD 498.17/tonne, bringing the year to a close. Overall, the annual average price in 2021 was USD 471.10/tonne, up from USD 373.01/tonne the previous year, representing a 21% increase. For more details, refer to the Figure X and Tables 55 – 58.

**TABLE A(I): AREA UNDER SUGAR CANE BY FACTORY ZONES IN JANUARY - DECEMBER 2020 AND 2021 (HECTARES)**

SUGAR ZONE	ITEM	AREA UNDER CANE BY MONTH IN 2021												AREA AS AT 31 <sup>ST</sup> DEC 2021	AREA AS AT 31 <sup>ST</sup> DEC 2020
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
CHEMELIL	NUCLEUS	1,423	1,405	1,377	1,622	1,722	1,658	1,658	1,634	1,610	1,663	1,729	1,729	1,729	1,434
	OUTGROWER	16,446	16,328	16,420	16,175	16,081	16,147	16,173	16,233	16,316	16,247	16,327	16,283	16,283	16,752
	<b>TOTAL</b>	<b>17,869</b>	<b>17,733</b>	<b>17,797</b>	<b>17,797</b>	<b>17,803</b>	<b>17,805</b>	<b>17,831</b>	<b>17,867</b>	<b>17,926</b>	<b>17,910</b>	<b>18,056</b>	<b>18,012</b>	<b>18,012</b>	<b>18,186</b>
MUHORONI	NUCLEUS	942	904	865	944	1,026	1,035	1,132	1,189	1,267	997	1,024	1,043	1,043	965
	OUTGROWER	12,865	12,907	12,963	13,065	13,138	13,830	13,900	13,914	13,922	14,197	14,239	14,239	14,239	12,810
	<b>TOTAL</b>	<b>13,807</b>	<b>13,811</b>	<b>13,828</b>	<b>14,009</b>	<b>14,164</b>	<b>14,865</b>	<b>15,032</b>	<b>15,103</b>	<b>15,189</b>	<b>15,194</b>	<b>15,263</b>	<b>15,282</b>	<b>15,282</b>	<b>13,775</b>
MUMIAS	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	274	274	198
	OUTGROWER	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>274</b>	<b>274</b>	<b>198</b>
NZOIA	NUCLEUS	2,625	2,588	2,604	2,576	2,505	2,426	2,393	2,428	2,439	2,348	2,401	2,400	2,400	2,754
	OUTGROWER	16,165	16,197	16,447	16,668	16,788	16,654	16,793	16,563	16,562	16,089	16,419	16,518	16,518	16,021
	<b>TOTAL</b>	<b>18,790</b>	<b>18,785</b>	<b>19,051</b>	<b>19,244</b>	<b>19,293</b>	<b>19,080</b>	<b>19,186</b>	<b>18,991</b>	<b>19,001</b>	<b>18,437</b>	<b>18,820</b>	<b>18,918</b>	<b>18,918</b>	<b>18,775</b>
SOUTH NYANZA	NUCLEUS	2,269	2,259	2,270	2,331	2,331	2,343	2,239	2,239	2,366	2,414	2,403	2,291	2,291	2,269
	OUTGROWER	6,691	6,762	6,805	6,628	6,602	6,652	6,636	6,712	6,817	6,610	6,651	6,512	6,512	6,690
	<b>TOTAL</b>	<b>8,960</b>	<b>9,021</b>	<b>9,075</b>	<b>8,959</b>	<b>8,933</b>	<b>8,995</b>	<b>8,875</b>	<b>8,951</b>	<b>9,183</b>	<b>9,024</b>	<b>9,054</b>	<b>8,803</b>	<b>8,803</b>	<b>8,959</b>
KIBOS	NUCLEUS	642	645	662	686	686	671	671	668	693	693	651	682	682	635
	OUTGROWER	6,759	6,759	6,759	6,770	6,770	6,770	6,771	6,771	6,798	6,834	7,405	7,405	7,405	6,758
	<b>TOTAL</b>	<b>7,401</b>	<b>7,404</b>	<b>7,421</b>	<b>7,456</b>	<b>7,456</b>	<b>7,441</b>	<b>7,442</b>	<b>7,439</b>	<b>7,491</b>	<b>7,527</b>	<b>8,056</b>	<b>8,087</b>	<b>8,087</b>	<b>7,393</b>
SOIN	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	0
	OUTGROWER	1,921	1,930	1,938	1,952	1,981	1,983	2,008	2,183	2,481	2,595	2,799	2,799	2,799	1,915
	<b>TOTAL</b>	<b>1,921</b>	<b>1,930</b>	<b>1,938</b>	<b>1,952</b>	<b>1,981</b>	<b>1,983</b>	<b>2,008</b>	<b>2,183</b>	<b>2,481</b>	<b>2,595</b>	<b>2,799</b>	<b>2,799</b>	<b>2,799</b>	<b>1,915</b>
BUTALI	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	0
	OUTGROWER	19,382	22,155	21,974	22,528	22,777	22,447	22,599	23,335	23,159	23,705	23,707	24,021	24,021	19,749
	<b>TOTAL</b>	<b>19,382</b>	<b>22,155</b>	<b>21,974</b>	<b>22,528</b>	<b>22,777</b>	<b>22,447</b>	<b>22,599</b>	<b>23,335</b>	<b>23,159</b>	<b>23,705</b>	<b>23,707</b>	<b>24,021</b>	<b>24,021</b>	<b>19,749</b>
WEST KENYA	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	0
	OUTGROWER	48,022	50,404	51,834	53,212	54,486	55,813	55,180	56,053	56,446	58,798	58,926	59,048	59,048	48,011
	<b>TOTAL</b>	<b>48,022</b>	<b>50,404</b>	<b>51,834</b>	<b>53,212</b>	<b>54,486</b>	<b>55,813</b>	<b>55,180</b>	<b>56,053</b>	<b>56,446</b>	<b>58,798</b>	<b>58,926</b>	<b>59,048</b>	<b>59,048</b>	<b>48,011</b>
MIWANI	NUCLEUS	1,885	1,873	1,928	1,928	1,910	1,910	1,838	1,807	1,761	1,774	1,615	1,615	1,615	1,900
	OUTGROWER	-	-	-	-	-	-	-	-	-	-	-	-	-	0
	<b>TOTAL</b>	<b>1,885</b>	<b>1,873</b>	<b>1,928</b>	<b>1,928</b>	<b>1,910</b>	<b>1,910</b>	<b>1,838</b>	<b>1,807</b>	<b>1,761</b>	<b>1,774</b>	<b>1,615</b>	<b>1,615</b>	<b>1,615</b>	<b>1,900</b>
SUKARI	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	0
	OUTGROWER	17,800	17,385	17,813	17,813	18,944	18,944	19,748	19,886	20,066	20,256	20,556	21,251	21,251	17,710
	<b>TOTAL</b>	<b>17,800</b>	<b>17,385</b>	<b>17,813</b>	<b>17,813</b>	<b>18,944</b>	<b>18,944</b>	<b>19,748</b>	<b>19,886</b>	<b>20,066</b>	<b>20,256</b>	<b>20,556</b>	<b>21,251</b>	<b>21,251</b>	<b>17,710</b>
TRANSMARA	NUCLEUS	39	39	39	39	36	33	36	33	35	35	35	24	24	39
	OUTGROWER	15,327	15,850	16,129	16,230	15,952	15,622	16,840	16,725	16,708	16,820	16,760	16,956	16,956	15,269
	<b>TOTAL</b>	<b>15,366</b>	<b>15,888</b>	<b>16,168</b>	<b>16,269</b>	<b>15,988</b>	<b>15,655</b>	<b>16,876</b>	<b>16,758</b>	<b>16,743</b>	<b>16,855</b>	<b>16,795</b>	<b>16,980</b>	<b>16,980</b>	<b>15,308</b>
KWALE	NUCLEUS	3,513	3,513	3,513	3,513	3,756	3,818	3,831	3,853	3,853	3,853	3,853	3,853	3,853	3,501
	OUTGROWER	3,263	3,263	3,263	3,455	3,392	3,416	3,434	3,434	3,434	3,434	3,434	3,434	3,434	3,262
	<b>TOTAL</b>	<b>6,776</b>	<b>6,776</b>	<b>6,776</b>	<b>6,968</b>	<b>7,148</b>	<b>7,234</b>	<b>7,265</b>	<b>7,287</b>	<b>7,287</b>	<b>7,287</b>	<b>7,287</b>	<b>7,287</b>	<b>7,287</b>	<b>6,763</b>
OLEPITO	NUCLEUS	4	6	6	6	6	6	6	6	6	6	6	6	6	5
	OUTGROWER	9,008	9,148	9,303	9,520	9,617	9,746	8,508	9,508	9,495	9,410	9,641	9,606	9,606	9,008
	<b>TOTAL</b>	<b>9,012</b>	<b>9,154</b>	<b>9,309</b>	<b>9,526</b>	<b>9,623</b>	<b>9,752</b>	<b>8,514</b>	<b>9,514</b>	<b>9,501</b>	<b>9,416</b>	<b>9,647</b>	<b>9,612</b>	<b>9,612</b>	<b>9,013</b>
BUSIA	NUCLEUS	93	101	105	108	106	107	114	113	113	118	118	118	118	93
	OUTGROWER	12,646	12,576	15,596	12,625	12,682	12,179	11,393	11,067	11,037	11,067	10,899	10,899	10,899	12,765
	<b>TOTAL</b>	<b>12,739</b>	<b>12,677</b>	<b>15,701</b>	<b>12,733</b>	<b>12,788</b>	<b>12,286</b>	<b>11,507</b>	<b>11,175</b>	<b>11,150</b>	<b>11,185</b>	<b>11,061</b>	<b>11,017</b>	<b>11,017</b>	<b>12,858</b>
ALL COMPANIES	NUCLEUS	13,435	13,332	13,369	13,753	14,084	14,007	13,918	13,970	14,143	14,109	14,035	14,035	14,035	13,793
	OUTGROWER	186,295	191,664	197,244	196,641	199,210	200,203	199,983	202,379	203,241	206,062	207,807	208,971	208,971	186,720
	<b>TOTAL</b>	<b>199,730</b>	<b>204,996</b>	<b>210,613</b>	<b>210,394</b>	<b>213,294</b>	<b>214,210</b>	<b>213,901</b>	<b>216,349</b>	<b>217,384</b>	<b>219,963</b>	<b>221,916</b>	<b>223,006</b>	<b>223,006</b>	<b>200,513</b>

\* Mumias Sugar Companies, only area under cane in the nucleus estate was reported.

**TABLE A(ii): AREA HARVESTED BY FACTORY ZONES IN JANUARY - DECEMBER 2020 AND 2021 (HECTARES)**

COMPANY	ITEM	AREA HARVESTED BY MONTH IN 2021												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
CHEMELIL	NUCLEUS	54	115	107	41	70	76	85	50	129	58	56	83	924	1,092
	OUTGROWER	534	594	635	441	405	648	436	197	542	611	524	643	6,210	5,864
	TOTAL	588	709	742	482	475	724	521	247	671	669	580	726	7,134	6,956
MUHORONI	NUCLEUS	106	191	117	77	41	93	178	45	45	27	38	44	1,002	530
	OUTGROWER	503	432	483	465	334	407	326	262	250	282	347	183	4,274	4,873
	TOTAL	609	623	600	542	375	500	504	307	295	309	385	227	5,276	5,403
MUMIAS	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	OUTGROWER	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NZOIA	NUCLEUS	155	150	172	168	238	124	78	18	145	52	12	59	1,371	1,333
	OUTGROWER	549	341	637	290	382	449	427	372	265	215	425	414	4,766	5,803
	TOTAL	704	491	809	458	620	573	505	390	410	267	437	473	6,137	7,136
SOUTH NYANZA	NUCLEUS	126	128	84	88	104	46	-	118	132	115	119	62	1,122	608
	OUTGROWER	157	145	216	194	217	59	-	229	289	275	279	275	2,127	677
	TOTAL	283	273	300	282	319	105	-	187	361	404	398	337	3,249	1,285
KIBOS	NUCLEUS	36	16	36	5	4	65	56	33	-	-	48	69	368	348
	OUTGROWER	160	428	419	429	217	227	327	320	-	-	216	406	3,149	2,546
	TOTAL	196	444	455	434	221	292	383	353	-	-	264	475	3,517	2,894
SOIN	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	OUTGROWER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUTALI	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	OUTGROWER	1,183	1,116	1,154	1,292	1,107	1,080	1,158	1,081	172	-	707	927	10,977	13,273
	TOTAL	1,183	1,116	1,154	1,292	1,107	1,080	1,158	1,081	172	-	707	927	10,977	13,273
SUKARI	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	OUTGROWER	1,086	1,187	2,521	1,080	1,019	1,102	1,229	1,263	1,004	1,223	1,229	1,215	15,158	12,337
	TOTAL	1,086	1,187	2,521	1,080	1,019	1,102	1,229	1,263	1,004	1,223	1,229	1,215	15,158	12,337
TRANSMARA	NUCLEUS	0	5	3	2	1	1	-	-	-	-	-	-	12	6
	OUTGROWER	367	472	490	442	429	324	519	573	539	492	448	513	5,608	4,555
	TOTAL	367	477	493	444	430	325	519	573	539	492	448	513	5,620	4,561
WEST KENYA	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	OUTGROWER	2,234	2,322	2,436	2,217	2,403	2,300	2,680	2,998	1,993	2,366	2,422	1,778	28,149	21,366
	TOTAL	2,234	2,322	2,436	2,217	2,403	2,300	2,680	2,998	1,993	2,366	2,422	1,778	28,149	21,366
KWALE	NUCLEUS	-	545	320	-	-	-	-	-	-	-	-	-	865	3,627
	OUTGROWER	-	254	212	-	-	-	-	-	-	-	-	-	466	2,205
	TOTAL	-	799	532	-	-	-	-	-	-	-	-	-	1,331	5,833
OLEPITO	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	-	17
	OUTGROWER	236	349	423	328	280	269	257	262	250	287	281	276	3,498	3,213
	TOTAL	236	349	423	328	280	269	257	262	250	287	281	276	3,498	3,229
BUSIA	NUCLEUS	4	5	8	3	1	-	-	4	-	-	-	-	25	13
	OUTGROWER	452	280	223	253	226	263	331	337	173	321	321	142	3,217	5,393
	TOTAL	456	285	231	219	254	226	263	335	337	173	321	142	3,242	5,406
ALL COMPANIES	NUCLEUS	481	1,155	847	384	459	405	397	268	451	252	273	317	5,689	7,574
	OUTGROWER	7,461	7,920	9,849	7,394	7,044	7,091	7,622	7,728	5,581	5,938	7,199	6,772	87,599	82,106
	TOTAL	7,942	9,075	10,696	7,778	7,503	7,496	8,019	7,996	6,032	6,190	7,472	7,089	93,288	89,680

N/A: Not available

**TABLE A(iii): SUGAR CANE DELIVERIES BY FACTORY ZONES IN JANUARY - DECEMBER 2020 AND 2021 (TONNES)**

COMPANY	ITEM	MONTHLY SUGAR CANE DELIVERIES IN 2021												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
CHEMELIL	NUCLEUS	3,858	3,724	4,013	1,265	1,949	3,542	3,281	-	4,749	2,043	2,856	3,147	34,427	42,724
	OUTGROWER	24,640	29,696	30,949	21,246	19,409	31,234	21,383	9,339	26,364	29,515	25,448	30,587	299,810	281,752
	TOTAL	31,666	34,943	36,077	22,999	21,895	35,767	24,923	9,339	33,023	34,527	28,951	33,734	347,844	349,343
MUHORONI	NUCLEUS	1,987	3,243	1,850	1,483	986	964	3,634	1,166	1,129	326	909	733	18,410	16,326
	OUTGROWER	28,442	24,960	28,805	26,890	19,936	23,310	16,050	14,521	14,977	18,340	22,959	10,301	249,491	245,632
	TOTAL	31,743	30,493	34,585	31,685	24,564	28,422	25,126	23,673	24,507	25,233	26,140	11,421	317,592	285,154
MUMIAS	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	OUTGROWER	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	0	0
NZOIA	NUCLEUS	7,564	5,997	3,851	6,533	11,385	3,367	2,275	788	6,058	1,626	153	3,689	53,286	70,607
	OUTGROWER	37,758	20,254	41,206	17,228	24,031	27,364	22,162	24,086	17,003	13,115	26,716	25,924	296,847	362,839
	TOTAL	45,322	26,251	45,057	23,761	35,416	30,731	24,437	24,874	23,061	14,741	26,869	29,613	350,133	433,446
SOUTH NYANZA	NUCLEUS	8,146	8,323	4,061	5,244	6,042	2,327	-	9,355	8,627	6,219	5,565	3,064	66,973	39,399
	OUTGROWER	14,776	15,023	22,596	19,468	22,606	6,461	-	7,680	24,807	29,765	33,048	29,474	225,704	59,871
	TOTAL	44,894	39,174	38,917	34,222	36,710	10,599	-	19,891	46,270	49,684	52,921	49,010	422,292	197,096
KIBOS	NUCLEUS	3,102	1,372	2,770	557	287	5,192	3,567	3,128	-	-	3,566	3,649	27,190	27,303
	OUTGROWER	11,324	31,574	31,072	31,217	14,556	16,115	22,252	21,108	-	-	14,253	23,346	216,817	171,830
	TOTAL	65,289	81,654	90,740	90,210	78,030	81,980	80,444	79,353	-	-	54,566	95,492	797,758	937,925
SOIN	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	OUTGROWER	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	0	0
WEST KENYA	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	OUTGROWER	159,235	166,375	179,264	146,851	159,298	167,638	148,039	181,301	139,140	174,022	178,447	143,589	1,943,199	1,430,999
	TOTAL	159,235	166,375	179,264	146,851	159,298	167,638	148,039	181,301	139,140	174,022	178,447	143,589	1,943,199	1,430,999
BUTALI	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	OUTGROWER	79,748	75,204	79,084	83,811	76,664	75,339	80,198	78,796	7,134	-	50,012	66,018	752,008	895,794
	TOTAL	79,748	75,204	79,084	83,811	76,664	75,339	80,198	78,796	7,134	-	50,012	66,018	752,008	895,794
TRANSMARA	NUCLEUS	23	800	320	159	199	49	-	-	-	-	-	-	1,550	786
	OUTGROWER	57,294	75,310	77,050	70,758	70,784	88,923	86,550	96,341	91,830	85,228	82,496	93,698	976,262	606,538
	TOTAL	57,497	81,056	81,322	75,389	76,824	96,594	90,582	102,561	94,437	90,423	86,064	95,944	1,028,693	826,616
SUKARI	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	0	0
	OUTGROWER	75,995	83,087	88,245	75,609	71,318	77,168	86,058	88,433	70,310	85,734	86,058	85,965	973,980	624,235
	TOTAL CANE	75,995	83,087	88,245	75,609	71,318	77,168	86,058	88,433	70,310	85,734	86,058	85,965	973,980	624,235
KWALE	NUCLEUS	-	16,159	5,666	-	-	-	-	-	-	-	-	-	21,825	192,879
	OUTGROWER	-	4,222	3,995	-	-	-	-	-	-	-	-	-	8,217	75,982
	TOTAL CANE	-	20,381	9,661	-	-	-	-	-	-	-	-	-	30,042	268,861
OLEPITO	NUCLEUS	-	-	-	-	-	-	-	-	-	-	-	-	0	1,282
	OUTGROWER	4,774	19,752	16,720	15,803	17,420	13,141	16,085	16,344	15,626	17,964	17,571	17,268	188,468	149,274
	TOTAL CANE	4,774	19,752	16,720	15,803	17,420	13,141	16,085	16,344	15,626	17,964	17,571	17,268	188,468	150,556
BUSIA	NUCLEUS	139	337	276	30	14	-	-	391	-	-	-	-	1,187	888
	OUTGROWER	26,995	14,591	13,648	11,526	13,875	11,607	13,303	16,656	17,082	9,646	15,211	6,015	170,155	249,788
	TOTAL CANE	51,073	41,256	37,985	43,094	43,041	30,384	45,729	33,722	56,041	44,714	47,247	32,825	507,111	410,871
ALL COMPANIES	NUCLEUS	24,819	39,955	22,807	15,271	20,862	15,441	12,757	14,828	20,563	10,214	13,049	14,282	224,848	392,194
	OUTGROWER	520,981	560,048	612,634	520,407	509,897	538,300	512,080	554,605	424,273	463,329	552,219	532,185	6,300,958	5,154,535
	TOTAL	647,236	699,626	737,657	643,434	641,180	647,763	621,621	658,287	509,549	537,042	654,846	660,879	7,659,120	6,810,898

**NOTES:**

Some factories received cane from non-contracted farmers, mainly from neighbouring factory zones as follows:-

ZONE	MONTHLY NON-CONTRACTED CANE DELIVERIES IN 2021												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
CHEMELIL	3,168	1,523	1,115	488	537	991	259	-	1,910	2,969	647	-	13,607	24,867
MUHORONI	1,314	2,290	3,930	3,312	3,642	4,148	5,442	7,986	8,401	6,567	2,272	387	49,691	23,196
SOUTH NYANZA	21,972	15,828	12,260	9,510	8,062	1,811	-	2,856	12,836	13,700	14,308	16,472	129,615	97,826
NZOIA	-	-	-	-	-	-	-	-	-	-	-	-	0	0
MUMIAS	-	-	-	-	-	-	-	-	-	-	-	-	0	0
KIBOS	50,863	48,708	56,898	58,436	63,187	60,673	54,625	55,117	-	-	36,747	68,497	553,751	738,792
SOIN	-	-	-	-	-	-	-	-	-	-	-	-	0	0
BUTALI	-	-	-	-	-	-	-	-	-	-	-	-	0	0
SUKARI	-	-	-	-	-	-	-	-	-	-	-	-	0	0
TRANSMARA	180	4,946	3,952	4,472	5,841	7,622	4,032	6,220	2,607	5,195	3,568	2,246	50,881	219,292
WEST KENYA	-	-	-	-	-	-	-	-	-	-	-	-	0	0
KWALE	-	-	-	-	-	-	-	-	-	-	-	-	0	0
OLEPITO	-	-	-	-	-	-	-	-	-	-	-	-	0	0
BUSIA	23,939	26,328	24,061	31,538	29,152	18,777	32,426	16,675	38,959	35,068	32,036	26,810	335,769	160,195
<b>TOTAL</b>	<b>101,436</b>	<b>99,623</b>	<b>102,216</b>	<b>107,756</b>	<b>110,421</b>	<b>94,022</b>	<b>96,784</b>	<b>88,854</b>	<b>64,713</b>	<b>63,499</b>	<b>89,578</b>	<b>114,412</b>	<b>1,133,314</b>	<b>1,264,169</b>

**TABLE A(iv): SUGAR CANE YIELD BY FACTORY ZONES IN JANUARY - DECEMBER 2020 AND 2021 (TONNES/HECTARE)**

FACTORY ZONE	ITEM	MONTHLY SUGAR CANE YIELD IN 2021												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
CHEMELIL	NUCLEUS	71.44	32.38	37.50	30.85	27.84	46.61	38.60	-	36.81	35.22	51.00	37.92	37.26	39.12
	OUTGROWER	46.14	49.99	48.74	48.18	47.92	48.20	49.04	47.41	48.64	48.31	48.56	47.57	48.28	48.05
	TOTAL	48.47	47.14	47.12	46.70	44.96	48.03	47.34	37.81	46.37	47.17	48.80	46.47	46.85	46.65
MUHORONI	NUCLEUS	18.75	16.98	15.81	19.26	24.05	10.37	20.42	25.91	25.09	12.07	23.92	16.66	18.37	30.80
	OUTGROWER	56.54	57.78	59.64	57.83	59.69	57.27	49.23	55.42	59.91	65.04	66.16	56.29	58.37	50.41
	TOTAL	49.97	45.27	51.09	52.35	55.79	48.55	39.06	51.10	54.60	60.41	61.99	48.61	50.78	48.48
MUMIAS	NUCLEUS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	OUTGROWER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NZOIA	NUCLEUS	48.80	39.98	22.39	38.89	47.84	27.15	29.17	43.78	41.78	31.27	12.75	62.53	38.87	52.95
	OUTGROWER	68.78	59.40	64.69	59.41	62.91	60.94	51.90	64.75	64.16	61.00	62.86	62.62	62.28	62.53
	TOTAL	64.38	53.46	55.69	51.88	57.12	53.63	48.39	63.78	56.25	55.21	61.49	62.61	57.05	60.74
SOUTH NYANZA	NUCLEUS	64.65	65.02	48.35	59.59	58.10	50.59	N/A	79.28	65.36	54.08	46.76	49.42	59.69	64.79
	OUTGROWER	94.11	103.61	104.61	100.35	105.14	109.51	N/A	111.30	108.33	102.99	118.45	107.18	106.11	88.43
	TOTAL	81.00	85.52	88.86	87.63	89.81	83.70	N/A	91.10	92.61	89.07	97.02	96.55	90.08	77.24
KIBOS	NUCLEUS	86.17	85.75	76.94	111.40	71.75	79.88	63.70	94.79	N/A	N/A	74.29	52.88	73.89	78.46
	OUTGROWER	70.78	73.77	74.16	72.77	67.08	70.99	68.05	65.96	N/A	N/A	65.99	57.50	68.85	67.50
	TOTAL	73.60	74.20	74.38	73.21	67.16	72.97	67.41	68.66	N/A	N/A	67.50	56.83	69.38	68.82
SOIN	NUCLEUS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	OUTGROWER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WEST KENYA	NUCLEUS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	OUTGROWER	71.28	71.65	73.59	66.24	66.29	72.89	55.24	60.47	69.81	73.55	73.68	80.76	69.03	66.97
	TOTAL	71.28	71.65	73.59	66.24	66.29	72.89	55.24	60.47	69.81	73.55	73.68	80.76	69.03	66.97
BUTALI	NUCLEUS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	OUTGROWER	67.41	67.39	68.53	64.87	69.25	69.76	69.26	72.89	41.48	N/A	70.74	71.22	68.51	67.49
	TOTAL	67.41	67.39	68.53	64.87	69.25	69.76	69.26	72.89	41.48	N/A	70.74	71.22	68.51	67.49
TRANSMARA	NUCLEUS	115.00	160.00	106.67	79.50	199.00	49.00	N/A	N/A	N/A	N/A	N/A	N/A	127.05	132.27
	OUTGROWER	156.11	159.56	157.24	160.09	165.00	274.45	166.76	168.13	170.37	173.23	184.14	182.65	174.08	133.16
	TOTAL	156.09	159.56	156.94	159.72	165.08	273.76	166.76	168.13	170.37	173.23	184.14	182.65	173.98	133.16
SUKARI	NUCLEUS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	OUTGROWER	69.98	70.00	35.00	70.01	69.99	70.03	70.02	70.02	70.03	70.10	70.02	70.75	64.26	50.60
	TOTAL CANE	69.98	70.00	35.00	70.01	69.99	70.03	70.02	70.02	70.03	70.10	70.02	70.75	64.26	50.60
KWALE	NUCLEUS	N/A	29.65	17.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.23	53.17
	OUTGROWER	N/A	16.62	18.84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.63	34.45
	TOTAL CANE	N/A	25.51	18.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.57	46.10
OLEPITO	NUCLEUS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	OUTGROWER	20.23	56.60	39.53	48.18	62.21	48.85	62.59	62.38	62.50	62.59	62.53	62.57	53.88	46.46
	TOTAL CANE	20.23	56.60	39.53	48.18	62.21	48.85	62.59	62.38	62.50	62.59	62.53	62.57	53.88	46.62
BUSIA	NUCLEUS	34.75	67.40	34.50	10.00	14.00	N/A	N/A	97.75	N/A	N/A	N/A	N/A	47.48	68.85
	OUTGROWER	59.72	52.11	61.20	53.36	54.84	51.36	50.58	50.32	50.69	55.76	47.39	42.36	52.89	46.32
	TOTAL CANE	59.50	52.38	60.28	52.77	54.68	51.36	50.58	50.89	50.69	55.76	47.39	42.36	52.85	46.37
ALL COMPANIES	NUCLEUS	51.58	34.59	26.93	39.77	45.45	38.13	32.13	55.33	45.59	40.53	47.80	45.05	39.52	51.78
	OUTGROWER	69.83	70.71	62.20	70.38	72.39	75.91	67.18	71.77	76.02	78.03	76.71	78.59	71.93	62.78
	TOTAL	68.72	66.12	59.41	68.87	70.74	73.87	65.45	71.21	73.75	76.50	75.65	77.09	69.95	61.85

**NOTE**

N/A: Not applicable. Soin, West Kenya, Sukari and Butali have no Nucleus estates

**TABLE B: SUGAR CANE YIELDS BY FACTORY ZONE IN 2020 AND 2021 COMPARED TO 10 YEAR AVERAGE (TC/HA)**

FACTORY ZONE	10- YEAR AVERAGE (2010 TO 2019) OR AS APPROPRIATE*	YEAR		YIELDS IMPROVEMENT IN 2021 COMPARED TO 2020
		2020	2021	
CHEMELIL	45.84	46.65	46.85	0.4
MUHORONI	47.96	48.48	50.78	4.7
MUMIAS	41.59	N/A	N/A	N/A
NZOIA	57.50	60.74	57.05	-6.1
SOUTH NYANZA	72.29	77.24	90.08	16.6
KIBOS	64.85	68.82	69.38	0.8
SOIN	64.93	N/A	N/A	N/A
WEST KENYA	63.08	66.97	69.03	3.1
BUTALI	63.97	67.49	68.51	1.5
TRANSMARA	102.82	133.16	173.98	30.7
SUKARI	56.77	50.60	64.26	27.0
KWALE	57.27	46.10	22.57	-51.0
OLEPITO	45.91	46.62	53.88	15.6
BUSIA	45.50	46.37	52.85	14.0
<b>TOTAL</b>	<b>58.92</b>	<b>61.85</b>	<b>69.95</b>	<b>13.1</b>

**NOTE:**

1. Kibos Sugar & Allied Industries co. Ltd started operations in Dec 2007, Butali in January 2011, Transmara, Sukari Industries in December 2011; Kwale International in March 2015 and Olepito in December 2017. Meanwhile, Soin stopped operations in June 2014. Mumias did not produce sugar and molasses in 2019 and 2020.

2. \*Average for the appropriate period of operation as detailed in note 1 above



**TABLE C: CANE CRUSHED, SUGAR MADE AND SUGAR RECOVERIES IN 2020 AND 2021**

(i)

FACTORY	MONTHLY CANE CRUSHED IN 2021 (TONNES)												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
MUHORONI	32,387	30,510	34,265	30,459	22,599	29,120	23,826	22,650	23,797	22,562	25,650	11,714	313,539	279,738
CHEMELIL	31,916	34,493	37,093	21,692	22,944	35,515	25,073	12,140	31,120	35,380	29,301	36,949	353,616	346,841
MUMIAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NZOIA	47,050	25,301	44,178	26,239	35,565	29,367	25,275	25,239	22,565	15,810	28,349	28,241	353,179	424,598
SOUTH NYANZA	49,795	38,011	40,262	30,127	33,593	8,228	-	29,095	46,044	52,101	52,723	50,097	430,076	220,550
WEST KENYA	159,189	166,336	179,249	146,845	159,258	167,705	148,026	181,286	139,103	173,847	178,514	143,841	1,943,199	1,464,241
SOIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KIBOS	63,201	82,036	89,644	89,717	78,170	81,955	80,618	76,094	-	-	54,516	95,292	791,243	1,000,076
BUTALI	79,748	75,204	79,084	83,806	76,959	75,339	80,197	78,796	7,134	-	50,012	64,756	751,035	895,241
TRANSMARA	73,870	77,000	84,048	77,480	80,560	88,540	96,003	97,620	93,601	92,220	85,792	84,453	1,031,187	805,627
SUKARI	65,705	73,620	77,942	67,983	67,397	83,362	94,644	96,261	71,150	93,395	93,247	87,850	972,556	617,810
KWALE	-	19,861	10,181	-	-	-	-	-	-	-	-	-	30,042	264,352
OLEPITO	14,244	12,270	14,724	13,572	15,129	10,849	14,757	14,485	13,633	17,942	16,910	17,644	176,159	151,093
BUSIA	54,470	40,100	34,456	38,521	42,283	25,941	47,190	42,817	56,150	38,761	47,800	32,904	501,393	410,036
<b>TOTAL</b>	<b>671,575</b>	<b>674,742</b>	<b>725,126</b>	<b>626,441</b>	<b>634,457</b>	<b>635,921</b>	<b>635,609</b>	<b>676,483</b>	<b>504,297</b>	<b>546,018</b>	<b>662,814</b>	<b>653,741</b>	<b>7,647,224</b>	<b>6,880,203</b>

(ii)

FACTORY	MONTHLY SUGAR MADE IN 2021 (TONNES)												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
MUHORONI	2,319	2,249	2,249	2,219	1,495	1,908	1,566	1,359	1,522	1,603	1,508	674	20,671	18,060
CHEMELIL	2,208	2,255	2,254	1,285	1,268	2,126	1,622	526	2,063	2,184	1,648	2,614	22,053	25,362
MUMIAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NZOIA	3,249	1,390	2,893	1,897	2,118	1,645	1,515	1,438	1,317	887	1,571	1,658	21,578	27,274
SOUTH NYANZA	4,192	2,600	2,815	1,326	1,779	47	-	2,452	3,540	4,595	4,781	4,500	32,627	14,373
WEST KENYA	15,214	15,723	16,245	14,802	15,982	16,980	14,571	17,958	13,195	16,397	16,497	14,948	188,512	128,786
SOIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KIBOS	5,122	7,311	7,861	7,917	6,322	6,756	6,230	6,447	-	-	4,772	9,142	67,880	85,507
BUTALI	8,096	8,262	9,187	9,018	8,113	7,897	8,098	7,983	853	-	5,148	7,132	79,787	87,226
TRANSMARA	7,184	8,283	9,076	8,078	8,431	9,612	10,277	9,964	9,590	9,590	8,945	8,465	107,347	78,701
SUKARI	5,997	7,504	7,704	6,683	6,744	8,235	9,304	10,046	6,958	9,538	8,983	8,460	96,156	55,436
KWALE	-	860	617	-	-	-	-	-	-	-	-	-	1,477	10,877
OLEPITO	1,240	1,049	1,389	1,342	1,328	1,010	1,242	1,264	1,294	1,658	1,420	1,505	15,741	11,926
BUSIA	3,782	4,408	3,788	4,021	4,099	2,471	3,969	4,594	5,038	3,653	4,767	3,133	47,723	31,978
<b>TOTAL</b>	<b>58,603</b>	<b>61,894</b>	<b>66,078</b>	<b>58,588</b>	<b>57,679</b>	<b>58,687</b>	<b>57,559</b>	<b>64,344</b>	<b>45,744</b>	<b>50,105</b>	<b>60,040</b>	<b>62,231</b>	<b>701,552</b>	<b>575,506</b>

(iii)

FACTORY	MONTHLY SUGAR RECOVERIES IN 2021 (%)												RECOVERY IN JAN - DEC 2021	RECOVERY IN JAN - DEC 2020
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
MUHORONI	7.16	7.37	6.56	7.29	6.62	6.55	6.57	6.00	6.40	6.03	5.88	5.75	6.59	6.46
CHEMELIL	6.92	6.54	6.08	5.92	5.53	5.99	6.47	4.33	6.63	6.17	5.62	7.07	6.24	7.31
MUMIAS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NZOIA	6.91	5.49	6.55	7.23	5.96	5.60	5.99	5.70	5.84	5.61	5.54	5.87	6.11	6.42
SOUTH NYANZA	8.42	6.84	6.99	4.40	5.30	0.57	N/A	8.43	7.69	8.82	9.07	8.98	7.59	6.52
WEST KENYA	9.56	9.45	9.06	10.08	10.04	10.12	9.84	9.91	9.49	9.43	9.24	10.39	9.70	8.80
SOIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KIBOS	8.10	8.91	8.77	8.82	8.09	8.24	7.73	8.47	N/A	N/A	8.75	9.59	8.58	8.55
BUTALI	10.15	10.99	11.62	10.76	10.54	10.48	10.10	10.13	11.96	N/A	10.29	11.01	10.62	9.74
TRANSMARA	9.73	10.76	10.80	10.43	10.47	10.86	9.84	10.53	10.65	10.40	10.43	10.02	10.41	9.77
SUKARI	9.13	10.19	9.88	9.83	10.01	9.88	9.83	10.44	9.78	10.21	9.63	9.63	9.89	8.97
KWALE	N/A	4.33	6.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.92	4.11
OLEPITO	8.71	8.55	9.43	9.89	8.78	9.31	8.42	8.73	9.49	9.24	8.40	8.53	8.94	7.89
BUSIA	6.94	10.99	10.99	10.44	9.69	9.53	8.41	10.73	8.97	9.42	9.97	9.52	9.52	7.80
<b>OVERALL</b>	<b>8.73</b>	<b>9.17</b>	<b>9.11</b>	<b>9.35</b>	<b>9.09</b>	<b>9.23</b>	<b>9.06</b>	<b>9.51</b>	<b>9.07</b>	<b>9.18</b>	<b>9.06</b>	<b>9.52</b>	<b>9.17</b>	<b>8.36</b>

**TABLE D: SUGAR YIELDS BY FACTORY ZONE IN 2020 AND 2021 (TONNES OF SUGAR PER HECTARE)**

FACTORY ZONE	AREA HARVESTED IN HECTARES		CANE PRODUCTION IN TONNES*		CANE TO SUGAR RATIO (TC/TS)**		CALCULATED SUGAR PRODUCTION IN TONNES***		SUGAR YIELD (TONNES PER HECTARE)	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
CHEMELIL	6,956	<b>7,134</b>	324,476	<b>334,237</b>	13.68	<b>16.03</b>	23,727	<b>20,844</b>	3.41	<b>2.92</b>
MUHORONI	5,403	<b>5,276</b>	<b>261,958</b>	<b>267,901</b>	15.49	<b>15.17</b>	16,912	<b>17,662</b>	3.13	<b>3.35</b>
MUMIAS	-	-	-	-	N/A	<b>N/A</b>	N/A	<b>N/A</b>	N/A	<b>N/A</b>
NZOAIA	7,136	<b>6,137</b>	433,446	<b>350,133</b>	15.57	<b>16.37</b>	27,842	<b>21,392</b>	3.90	<b>3.49</b>
SOUTH NYANZA	1,285	<b>3,249</b>	99,270	<b>292,677</b>	15.35	<b>13.18</b>	6,469	<b>22,203</b>	5.03	<b>6.83</b>
KIBOS	2,894	<b>3,517</b>	199,133	<b>244,007</b>	11.70	<b>11.66</b>	17,026	<b>20,933</b>	5.88	<b>5.95</b>
BUTALI	13,273	<b>10,977</b>	895,794	<b>752,008</b>	10.26	<b>9.41</b>	87,280	<b>79,890</b>	6.58	<b>7.28</b>
WEST KENYA	21,366	<b>28,149</b>	1,430,999	<b>1,943,199</b>	11.37	<b>10.31</b>	125,862	<b>188,512</b>	5.89	<b>6.70</b>
TRANSMARA	4,561	<b>5,620</b>	607,324	<b>977,812</b>	10.24	<b>9.61</b>	59,329	<b>101,791</b>	13.01	<b>18.11</b>
SUKARI	12,337	<b>15,158</b>	624,235	<b>973,980</b>	11.14	<b>10.11</b>	56,013	<b>96,297</b>	4.54	<b>6.35</b>
KWALE	5,833	<b>1,331</b>	268,861	<b>30,042</b>	24.30	<b>20.34</b>	11,063	<b>1,477</b>	1.90	<b>1.11</b>
OLEPITO	3,229	<b>3,498</b>	150,556	<b>188,468</b>	12.67	<b>11.19</b>	11,884	<b>16,841</b>	3.68	<b>4.81</b>
BUSIA	5,406	<b>3,242</b>	250,676	<b>171,342</b>	12.82	<b>10.51</b>	19,550	<b>16,308</b>	3.62	<b>5.03</b>
<b>OVERALL</b>	89,680	<b>93,288</b>	5,546,729	<b>6,525,806</b>	11.96	<b>10.90</b>	463,965	<b>598,674</b>	5.17	<b>6.42</b>

\* Represents cane delivered from Nucleus Estates and Outgrower farms (i.e. from known harvested areas)

\*\* Overall TC/TS for the sugar factory listed above.

\*\*\* Calculated based on cane deliveries and actual TC/TS achieved.

**TABLE E: MONTHLY SUGAR PRODUCTION IN 2020 AND 2021 (TONNES)**

MONTH	CHEMELIL		MUHORONI		MUMIAS		NZOIA		SOUTH NYANZA		WEST KENYA		SOIN*		KIBOS		BUTALI		TRANSMARA		SUKARI		KWALE		OLEPITO		BUSIA		TOTAL	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
January	-	1,908	1,419	2,134	-	-	-	3,296	611	4,175	19,047	15,214	-	-	6,594	5,019	7,255	8,096	6,090	7,184	8,118	5,997	1,154	-	1,023	1,240	1,844	4,105	53,155	58,368
February	-	2,295	1,100	2,097	-	-	887	1,001	279	2,779	16,450	15,723	-	-	6,702	7,247	7,582	8,262	6,522	8,283	7,177	7,504	1,098	860	1,045	1,049	2,241	4,408	51,083	61,508
March	1,235	2,275	669	2,499	-	-	2,011	2,974	438	2,633	12,646	16,245	-	-	7,394	7,939	8,101	9,187	8,192	9,076	6,972	7,704	1,237	617	1,001	1,389	2,803	3,788	52,699	66,326
April	1,209	1,209	704	2,183	-	-	2,507	1,878	92	1,486	12,010	14,802	-	-	7,577	7,750	7,554	9,018	4,299	8,072	5,722	6,683	729	-	1,006	1,342	2,059	4,021	45,468	58,444
May	2,218	1,189	590	1,526	-	-	3,355	1,998	29	1,842	10,984	15,982	-	-	7,461	6,418	7,387	8,113	5,670	8,412	4,895	6,744	184	-	847	1,328	2,730	4,099	46,350	57,651
June	2,905	2,251	801	1,753	-	-	2,818	1,924	-	379	12,796	16,980	-	-	7,067	6,739	7,634	7,897	6,501	9,587	5,360	8,235	67	-	998	1,010	2,733	2,471	49,680	59,226
July	3,223	1,518	838	1,372	-	-	3,223	1,548	-	-	11,711	14,571	-	-	7,727	6,255	7,901	8,098	8,213	9,442	6,539	9,304	506	-	1,079	1,242	2,195	3,926	53,155	57,276
August	2,877	654	2,366	1,202	-	-	3,037	1,441	-	1,939	11,507	17,958	-	-	6,396	6,886	7,913	7,983	9,607	10,277	5,222	10,046	813	-	947	1,264	2,749	4,594	53,434	64,244
September	3,092	1,894	2,057	1,405	-	-	2,686	1,060	3,801	3,687	11,733	13,195	-	-	7,690	-	6,817	853	5,925	9,964	5,665	6,958	995	-	1,156	1,294	3,256	5,038	54,873	45,348
October	2,873	2,226	2,483	1,457	-	-	2,207	719	3,528	4,648	10,856	16,397	-	-	7,843	-	7,458	-	7,708	9,573	4,554	9,538	1,678	-	984	1,658	2,658	3,653	54,830	49,869
November	2,203	1,666	2,147	1,424	-	-	1,092	1,501	1,730	4,656	11,921	16,497	-	-	7,156	4,507	6,217	5,148	9,050	8,898	2,922	8,983	1,659	-	870	1,420	3,260	4,767	50,227	59,467
December	2,493	2,596	2,290	659	-	-	3,154	1,675	3,400	4,562	10,191	14,948	-	-	5,732	9,379	5,408	7,132	984	8,465	-	8,460	755	-	977	1,505	3,450	3,133	38,834	62,514
<b>TOTAL</b>	<b>24,328</b>	<b>21,681</b>	<b>17,464</b>	<b>19,711</b>	<b>0</b>	<b>0</b>	<b>26,977</b>	<b>21,015</b>	<b>13,908</b>	<b>32,786</b>	<b>151,852</b>	<b>188,512</b>	<b>0</b>	<b>0</b>	<b>85,339</b>	<b>68,139</b>	<b>87,227</b>	<b>79,787</b>	<b>78,761</b>	<b>107,233</b>	<b>63,146</b>	<b>96,156</b>	<b>10,875</b>	<b>1,477</b>	<b>11,933</b>	<b>15,741</b>	<b>31,978</b>	<b>48,003</b>	<b>603,788</b>	<b>700,241</b>

\*Soin Sugar Company stopped operations in 2014, while Mumias in 2018

TABLE F: MONTHLY SUGAR SALES IN 2020 AND 2021 (TONNES)

MONTH	CHEMELIL		MUHORONI		MUMIAS		NZOIA		SOUTH NYANZA		WEST KENYA		SOIN		KIBOS		TRANSMARA		SUKARI		BUTALI		KWALE		OLEPITO		BUSIA		TOTAL	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
January	-	1,828	1,388	1,353	-	-	-	2,723	544	3,725	15,121	13,067	-	-	6,569	4,339	7,703	5,643	7,241	4,767	7,909	7,116	-	2,047	1,042	664	1,822	3,073	49,339	50,345
February	-	2,223	1,016	2,608	-	-	478	1,747	366	3,023	14,546	16,309	-	-	6,581	7,500	4,958	7,850	7,529	8,176	7,666	8,212	-	750	778	1,587	2,263	5,036	46,181	65,021
March	1,179	2,341	765	2,577	-	-	2,190	2,475	430	2,815	14,930	16,246	-	-	7,383	7,897	7,987	7,908	7,281	7,350	8,615	9,336	-	-	1,596	954	2,795	3,769	55,151	63,668
April	1,154	1,272	737	2,090	-	-	1,170	2,253	102	1,513	12,720	14,001	-	-	7,205	7,173	4,474	6,790	5,555	7,286	6,922	8,387	-	-	895	1,335	2,065	3,524	42,999	55,624
May	2,125	1,195	588	1,634	-	-	2,893	1,998	27	1,767	13,859	16,706	-	-	7,835	7,293	5,812	8,705	4,992	6,400	7,722	8,892	-	-	943	1,238	2,731	4,236	49,527	60,064
June	2,868	2,217	745	1,713	-	-	2,302	2,145	-	477	12,558	16,971	-	-	6,998	6,449	6,611	9,900	5,259	8,362	8,133	7,850	-	-	710	1,584	2,665	2,605	48,849	60,273
July	3,046	1,403	855	1,397	-	-	3,586	1,442	2	5	12,260	15,804	-	-	6,645	6,550	6,448	10,248	6,002	9,577	8,196	8,245	1,225	750	1,043	931	2,223	3,705	51,531	60,057
August	3,176	863	2,371	1,186	-	-	4,725	1,557	-	1,324	14,762	17,488	-	-	7,366	6,629	12,527	10,242	5,951	10,119	8,095	6,531	1,250	478	1,195	1,510	2,723	4,699	64,141	62,626
September	3,091	1,853	1,877	1,406	-	-	2,724	1,095	3,220	4,161	12,263	13,904	-	-	7,915	32	6,272	11,244	5,724	6,962	7,296	2,492	3,991	-	1,189	1,368	3,259	5,016	58,821	49,533
October	2,941	2,183	2,346	1,401	-	-	2,176	708	3,539	4,167	10,652	15,428	-	-	7,949	-	6,024	9,416	4,187	9,411	7,560	538	1,250	-	1,028	1,537	2,636	3,608	52,288	48,397
November	2,178	1,684	2,234	1,467	-	-	1,074	1,037	2,252	5,027	11,416	16,136	-	-	7,113	4,159	6,975	7,440	3,437	8,883	5,229	2,954	1,000	-	881	1,221	3,309	4,238	47,098	54,246
December	2,521	2,549	2,463	705	-	-	309	1,791	3,418	4,722	11,314	15,933	-	-	6,095	9,399	5,037	9,881	-	8,112	6,846	8,477	-	-	992	1,042	3,469	2,883	42,464	65,494
<b>TOTAL</b>	<b>24,279</b>	<b>21,611</b>	<b>17,385</b>	<b>19,537</b>	<b>0</b>	<b>0</b>	<b>23,627</b>	<b>20,971</b>	<b>13,900</b>	<b>32,726</b>	<b>156,401</b>	<b>187,993</b>	<b>0</b>	<b>0</b>	<b>85,654</b>	<b>67,420</b>	<b>80,828</b>	<b>105,267</b>	<b>63,158</b>	<b>95,405</b>	<b>90,189</b>	<b>79,030</b>	<b>8,716</b>	<b>4,025</b>	<b>12,292</b>	<b>14,971</b>	<b>31,960</b>	<b>46,392</b>	<b>608,389</b>	<b>695,348</b>

**TABLE G: MONTHLY SUGAR CLOSING STOCKS IN 2020 AND 2021 (TONNES)**

MONTH	CHEMELIL		MUHORONI		MUMIAS		NZOIA		SOUTH NYANZA		WEST KENYA		SOIN		KIBOS		TRANSMARA		SUKARI		BUTALI		KWALE		OLEPITO		BUSIA		TOTAL	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
January	-	127	30	83	-	-	8	996	89	482	8,883	2,550	-	-	354	695	456	1,540	891	1,231	2,430	1,104	1,502	501	367	594	22	1,049	15,032	10,952
February	-	198	97	82	-	-	409	220	1	238	10,788	1,964	-	-	475	442	2,020	1,972	538	559	2,347	1,153	2,600	611	634	55	-	91	19,909	7,585
March	55	132	31	35	-	-	230	745	9	56	8,505	1,952	-	-	486	484	2,225	3,140	230	913	1,833	1,004	3,837	1,228	38	491	8	109	17,487	10,289
April	110	69	-	110	-	-	1,567	370	1	29	7,794	2,764	-	-	858	1,060	2,050	4,420	397	309	2,465	1,635	4,606	1,228	150	499	1	606	19,999	13,099
May	203	62	2	1	-	-	2,029	370	3	104	4,918	2,040	-	-	484	186	1,907	4,126	301	654	2,130	855	4,790	1,228	53	589	-	255	16,820	10,470
June	240	96	32	51	-	-	2,545	17	2	6	5,156	2,049	-	-	553	476	1,797	3,811	403	526	1,630	903	4,859	1,228	340	15	69	120	17,626	9,298
July	417	211	19	1	-	-	2,182	123	1	1	4,607	816	-	-	1,635	181	3,561	3,004	940	253	1,335	755	4,140	478	375	326	41	341	19,253	6,490
August	117	1	16	32	-	-	494	41	1	616	1,351	1,286	-	-	665	257	641	3,038	210	179	1,154	2,208	3,703	-	127	79	67	236	8,546	7,973
September	118	37	195	37	-	-	456	6	583	142	820	577	-	-	440	224	294	1,757	151	175	675	568	707	-	94	5	64	179	4,597	3,707
October	50	80	241	90	-	-	372	35	572	623	1,041	1,546	-	-	334	224	1,978	1,913	518	303	573	30	1,135	-	50	125	85	224	6,949	5,193
November	75	62	156	46	-	-	258	189	50	252	1,546	1,907	-	-	378	573	4,053	3,369	3	404	1,561	2,224	1,793	-	39	324	36	304	9,948	9,654
December	46	109	45	-	-	-	401	74	31	92	424	921	-	-	15	553	-	1,949	1	752	123	880	2,548	-	18	787	17	161	3,669	6,278
<b>TOTAL</b>	<b>46</b>	<b>109</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>401</b>	<b>74</b>	<b>31</b>	<b>92</b>	<b>424</b>	<b>921</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>553</b>	<b>0</b>	<b>1,949</b>	<b>1</b>	<b>752</b>	<b>123</b>	<b>880</b>	<b>2,548</b>	<b>0</b>	<b>18</b>	<b>787</b>	<b>17</b>	<b>161</b>	<b>3,669</b>	<b>6,278</b>

Note: The figures above reflect stocks held by the sugar factories

**TABLE H: MOLASSES PRODUCTION, SALES AND CLOSING STOCKS 2020 AND 2021 (TONNES)**

(i)

FACTORY	MONTHLY MOLASSES PRODUCTION IN 2021												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
MUHORONI	1,060	1,333	1,756	1,055	672	1,127	905	885	958	1,368	1,141	971	13,231	11,314
CHEMELIL	1,188	1,458	1,347	929	1,017	1,472	1,127	676	1,186	1,248	1,130	1,395	14,173	11,632
MUMIAS													-	-
NZOIA	1,300	1,187	2,271	865	1,510	900	1,451	573	934	352	779	794	12,916	13,719
SOUTH NYANZA	1,828	1,553	1,462	1,123	1,003	874	807	718	2,213	2,140	1,511	1,483	16,715	8,163
WEST KENYA	9,000	5,500	6,000	9,000	7,000	5,000	6,500	7,000	6,500	6,000	8,000	7,700	83,200	64,696
SOIN													-	-
KIBOS	2,250	3,025	3,135	3,333	2,812	2,880	2,588	2,480	-	-	1,768	3,785	28,056	33,614
BUTALI	2,597	2,611	3,075	3,029	2,577	2,377	2,814	2,751	477	-	1,447	2,459	26,214	31,712
SUKARI	2,680	2,995	2,995	2,841	2,809	3,105	3,580	3,933	3,220	3,980	3,825	3,612	39,575	26,829
TRANSMARA	1,508	2,110	3,004	2,665	2,481	2,534	3,305	4,007	3,643	3,206	3,297	3,275	35,035	29,572
KWALE	-	1,131	1,280	-	-	-	-	-	-	-	-	-	2,411	19,791
OLEPITO	685	548	659	601	624	427	653	555	610	796	740	810	7,708	6,693
BUSIA	1,534	1,045	1,011	1,597	1,651	210	1,288	1,652	2,111	1,391	1,668	1,182	16,340	12,037
<b>TOTAL</b>	<b>25,630</b>	<b>24,496</b>	<b>27,995</b>	<b>27,038</b>	<b>24,156</b>	<b>20,906</b>	<b>25,018</b>	<b>25,230</b>	<b>21,852</b>	<b>20,481</b>	<b>25,306</b>	<b>27,466</b>	<b>295,574</b>	<b>269,772</b>

(ii)

FACTORY	MONTHLY MOLASSES SALES IN 2021												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
MUHORONI	1,030	1,447	1,525	1,004	1,550	1,033	958	768	1,026	1,400	1,166	1,040	13,947	11,218
CHEMELIL	1,152	1,416	886	1,089	1,202	1,644	1,031	661	1,044	1,578	1,151	1,343	14,197	11,249
MUMIAS													-	-
NZOIA	1,570	617	31	1,245	1,870	2,380	1,251	613	974	392	659	754	12,356	14,303
SOUTH NYANZA	1,711	959	915	490	722	834	2,292	1,210	2,291	2,078	1,308	998	15,808	8,391
WEST KENYA	6,262	6,535	7,709	7,145	7,693	6,011	4,559	7,568	7,195	5,754	8,970	7,969	83,370	62,465
SOIN													-	-
KIBOS	1,904	2,493	3,323	2,933	2,504	3,132	2,058	2,086	-	1,124	1,212	3,716	26,485	34,421
BUTALI	2,350	2,026	2,890	2,280	4,167	2,477	2,827	2,481	871	-	696	3,007	26,072	33,535
SUKARI	1,281	2,812	1,555	114	1,758	4,770	7,591	4,731	3,394	3,929	3,285	2,720	37,940	30,388
TRANSMARA	1,313	2,535	858	1,633	2,300	3,307	4,410	4,473	3,374	4,099	2,231	3,303	33,836	30,917
KWALE	5,139	600	5,256	-	1,975	681	641	528	525	410	6	10	15,771	7,302
OLEPITO	606	167	650	689	856	433	633	374	800	604	910	906	7,628	7,087
BUSIA	1,675	802	789	1,853	1,943	882	587	1,994	1,724	1,504	1,887	1,038	16,678	11,516
<b>TOTAL</b>	<b>25,993</b>	<b>22,409</b>	<b>26,387</b>	<b>20,475</b>	<b>28,540</b>	<b>27,584</b>	<b>28,838</b>	<b>27,487</b>	<b>23,218</b>	<b>22,872</b>	<b>23,481</b>	<b>26,804</b>	<b>304,088</b>	<b>262,792</b>

(iii)

FACTORY	MONTHLY MOLASSES CLOSING STOCKS IN 2021												TOTAL IN JAN - DEC 2021	TOTAL IN JAN - DEC 2020
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
MUHORONI	715	596	827	878	-	94	41	158	89	96	115	-	-	681
CHEMELIL	350	393	694	534	349	176	271	287	428	99	62	130	130	314
MUMIAS													-	-
NZOIA	190	760	2,300	1,920	1,560	80	280	240	200	160	280	320	320	375
SOUTH NYANZA	256	850	1,397	2,030	2,311	2,350	865	373	295	357	561	1,045	1,045	138
WEST KENYA	3,027	1,992	283	2,138	1,445	434	2,375	1,807	1,112	1,358	388	119	119	290
SOIN													-	-
KIBOS	671	1,203	1,015	1,415	1,723	1,471	2,001	2,395	2,395	1,271	1,827	1,896	1,896	325
BUTALI	381	967	1,152	1,902	312	212	198	468	73	73	824	275	275	134
SUKARI	1,399	1,583	3,023	5,750	6,801	5,136	1,125	327	153	204	744	1,636	1,636	183
TRANSMARA	327	327	2,472	3,505	3,686	2,913	1,807	1,341	1,610	717	1,782	1,754	1,754	557
KWALE	8,557	9,088	5,111	5,111	3,137	2,456	1,815	1,287	762	352	346	336	336	13,696
OLEPITO	125	507	515	428	195	189	209	390	200	391	221	125	125	47
BUSIA	379	623	845	589	625	1,326	1,326	985	1,372	1,259	1,185	1,185	1,185	520
<b>TOTAL</b>	<b>16,377</b>	<b>18,889</b>	<b>19,634</b>	<b>26,200</b>	<b>21,816</b>	<b>16,136</b>	<b>12,313</b>	<b>10,058</b>	<b>8,689</b>	<b>6,337</b>	<b>8,335</b>	<b>8,821</b>	<b>8,821</b>	<b>17,260</b>

TABLE I(I): SUGAR AND SUGAR BY-PRODUCT IMPORTS FOR THE PERIOD JANUARY - DECEMBER 2021 AND 2020 BY TYPE AND COUNTRY OF ORIGIN

1) Sugar By-product i.e Molasses and Jaggery

COUNTRY OF ORIGIN	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	TOTAL JAN - DEC 2021	TOTAL JAN - DEC 2020
India	1.11	4.12	5.55	3.00	1.54	5.31	1.46	1.04	2.58	1.41	6.20	1.52	34.83	49.57
United Arab Emirates	-	-	-	-	-	-	-	-	1.10	-	-	-	1.10	-
<b>TOTAL</b>	<b>1.11</b>	<b>4.12</b>	<b>5.55</b>	<b>3.00</b>	<b>1.54</b>	<b>5.31</b>	<b>1.46</b>	<b>1.04</b>	<b>2.58</b>	<b>1.41</b>	<b>6.20</b>	<b>1.52</b>	<b>35.93</b>	<b>49.57</b>

2) Mill/Brown Sugar (Tonnes)

Country	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	TOTAL JAN - DEC 2021	TOTAL JAN - DEC 2020
Egypt	2,000.00	3,000.00	3,000.00	1,000.00	-	-	-	-	9,000.00	2,000.00	2,000.00	7,972.20	29,972.20	32,025.00
Uganda	10,176.75	5,706.75	3,635.50	5,815.70	2,545.50	3,376.75	1,045.50	2,868.00	2,343.00	4,381.64	28,582.50	31.25	70,508.86	28,108.85
Mauritius	4,000.00	5,000.00	3,000.00	5,903.81	1,000.00	4,500.00	1,500.00	-	2,928.24	5,425.00	3,000.00	3,551.00	39,808.05	41,553.90
Zambia	-	1,499.00	1,812.97	3,483.00	6,993.00	2,020.00	2,414.00	4,485.00	999.00	999.00	1,485.00	-	26,189.97	20,277.00
Zimbabwe	500.00	1,000.00	8,476.00	3,850.00	3,125.00	-	-	-	-	-	-	-	16,951.00	88,558.00
Madagascar	-	2,000.00	-	5,000.00	1,000.00	-	-	-	-	-	-	-	8,000.00	21,000.00
Malawi	-	-	-	1,998.00	-	-	-	-	-	-	-	-	1,998.00	30,548.04
Eswatini	7,796.00	4,000.00	9,504.00	7,982.00	1,944.00	3,500.00	2,500.00	6,500.00	3,500.00	7,498.00	4,000.00	-	58,724.00	47,324.00
Belgium	-	-	-	-	-	0.95	-	-	3.60	2.92	-	-	7.46	2.70
United Kingdom	-	-	0.37	-	-	0.15	-	3.93	-	-	-	-	4.45	3.90
United Arab Emirates	-	-	0.16	-	0.27	-	-	0.21	-	0.01	-	-	0.65	2.16
India	-	-	0.50	-	7.05	-	-	-	0.39	3.50	0.51	-	11.95	3.95
China	-	-	0.02	-	-	0.30	0.08	-	-	-	-	-	0.40	0.67
Germany	-	-	-	-	-	-	-	-	-	-	-	2.70	2.70	-
<b>Sub-total</b>	<b>24,472.75</b>	<b>22,205.75</b>	<b>29,429.52</b>	<b>35,032.51</b>	<b>16,614.82</b>	<b>13,398.15</b>	<b>7,459.58</b>	<b>13,857.14</b>	<b>18,774.23</b>	<b>20,310.09</b>	<b>39,068.01</b>	<b>11,557.15</b>	<b>252,179.69</b>	<b>309,408.19</b>

3) White Refined Sugar (Tonnes)

Country	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	TOTAL JAN - DEC 2021	TOTAL JAN - DEC 2020
Egypt	1,011.00	2,547.00	480.50	1,215.00	3,411.00	2,770.50	688.50	612.00	2,899.50	1,785.00	9,545.00	576.00	27,541.00	9,589.00
Malawi	-	-	-	150.00	-	-	-	-	-	-	-	-	150.00	825.00
Saudi Arabia	4,603.50	7,932.00	6,109.50	4,279.50	3,366.00	7,698.50	4,564.00	4,386.00	4,513.50	4,486.50	5,124.00	5,173.50	62,236.50	34,731.00
United Kingdom	-	-	0.80	1.46	-	0.05	-	-	-	-	-	0.03	2.35	800.73
Mauritius	3,525.00	5,537.00	3,044.00	8,848.08	255.00	2,700.50	2,728.50	4,080.00	2,719.50	6,449.13	5,622.00	11,482.50	56,991.21	23,277.91
China	-	0.24	-	-	-	-	-	-	-	-	-	0.07	0.31	0.94
India	906.00	2,291.50	1,779.00	552.00	-	-	-	-	768.00	1,275.00	591.00	-	8,162.50	36,236.90
Thailand	100.00	-	-	-	-	-	-	-	-	-	-	-	100.00	5,196.00
Netherlands	-	696.00	-	-	-	-	-	-	-	-	-	-	696.00	1,782.00
United Arab Emirates	-	260.00	0.13	360.00	1,088.00	1,839.16	751.32	1,534.00	260.00	751.20	780.12	-	7,623.94	0.88
South Africa	2,566.00	510.00	25.00	-	-	3,429.50	-	2,091.00	-	-	-	586.50	9,208.00	19,534.50
Germany	-	-	0.04	-	-	12.60	0.01	-	-	0.01	-	-	12.65	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-	-	500.00
Bulgaria	-	-	-	-	-	-	-	-	-	-	-	-	-	510.00
Brazil	-	-	-	-	-	-	-	-	-	-	728.00	494.00	1,222.00	-
Ukraine	-	-	-	-	-	-	-	-	-	-	-	208.00	208.00	-
<b>Sub-total</b>	<b>12,711.50</b>	<b>19,773.74</b>	<b>11,438.98</b>	<b>15,406.05</b>	<b>8,120.00</b>	<b>18,450.81</b>	<b>8,732.33</b>	<b>12,703.00</b>	<b>11,160.50</b>	<b>14,746.84</b>	<b>22,390.12</b>	<b>18,520.60</b>	<b>174,154.47</b>	<b>132,984.85</b>
<b>TOTAL SUGAR IMPORTS (2+3)</b>	<b>37,184.25</b>	<b>41,979.49</b>	<b>40,868.49</b>	<b>50,438.56</b>	<b>24,734.82</b>	<b>31,848.95</b>	<b>16,191.91</b>	<b>26,560.14</b>	<b>29,934.73</b>	<b>35,056.93</b>	<b>61,458.13</b>	<b>30,077.75</b>	<b>426,334.16</b>	<b>442,393.04</b>

4) SUGAR IMPORTS FOR THE PERIOD JANUARY - DECEMBER 2021 AND 2020 BY COUNTRY OF ORIGIN (TONNES)

Country of origin	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	TOTAL JAN - DEC 2021	TOTAL JAN - DEC 2020
<b>a) COMESA FTA</b>														
Egypt	3,011.00	5,547.00	3,480.50	2,215.00	3,411.00	2,770.50	688.50	612.00	11,899.50	3,785.00	11,545.00	8,548.20	57,513.20	41,614.00
Zimbabwe	500.00	1,000.00	8,476.00	3,850.00	3,125.00	-	-	-	-	-	-	-	16,951.00	88,558.00
Zambia	-	1,499.00	1,812.97	3,483.00	6,993.00	2,020.00	2,414.00	4,485.00	999.00	999.00	1,485.00	-	26,189.97	20,277.00
Madagascar	-	2,000.00	-	5,000.00	1,000.00	-	-	-	-	-	-	-	8,000.00	21,000.00
Malawi	-	-	-	2,148.00	-	-	-	-	-	-	-	-	2,148.00	31,373.06
Mauritius	7,525.00	10,537.00	6,044.00	14,751.89	1,255.00	7,200.50	4,228.50	4,080.00	5,647.74	11,874.13	8,622.00	15,033.50	96,799.26	64,831.81
<b>Sub-total</b>	<b>11,036.00</b>	<b>20,583.00</b>	<b>19,813.47</b>	<b>31,447.89</b>	<b>15,784.00</b>	<b>11,991.00</b>	<b>7,331.00</b>	<b>9,177.00</b>	<b>18,546.24</b>	<b>16,658.13</b>	<b>21,652.00</b>	<b>23,581.70</b>	<b>207,601.43</b>	<b>267,653.86</b>
<b>b) COMESA NON FTA</b>														
Eswatini	7,796.00	4,000.00	9,504.00	7,982.00	1,944.00	3,500.00	2,500.00	6,500.00	3,500.00	7,498.00	4,000.00	-	58,724.00	47,324.00
<b>Sub-total</b>	<b>7,796.00</b>	<b>4,000.00</b>	<b>9,504.00</b>	<b>7,982.00</b>	<b>1,944.00</b>	<b>3,500.00</b>	<b>2,500.00</b>	<b>6,500.00</b>	<b>3,500.00</b>	<b>7,498.00</b>	<b>4,000.00</b>	<b>-</b>	<b>58,724.00</b>	<b>47,324.00</b>
<b>c) EAST AFRICA COMMUNITY</b>														
Uganda	10,176.75	5,706.75	3,635.50	5,815.70	2,545.50	3,376.75	1,045.50	2,868.00	2,343.00	4,381.66	28,582.50	31.25	70,508.86	28,108.85
<b>Sub-total</b>	<b>10,176.75</b>	<b>5,706.75</b>	<b>3,635.50</b>	<b>5,815.70</b>	<b>2,545.50</b>	<b>3,376.75</b>	<b>1,045.50</b>	<b>2,868.00</b>	<b>2,343.00</b>	<b>4,381.66</b>	<b>28,582.50</b>	<b>31.25</b>	<b>70,508.86</b>	<b>28,108.85</b>
<b>d) NON-COMESA</b>														
Belgium	-	-	-	-	-	0.95	-	-	3.60	2.92	-	-	7.46	2.70
China	-	0.24	0.02	-	-	0.30	0.08	-	-	-	-	0.07	0.71	1.60
Saudi Arabia	4,603.50	7,932.00	6,109.50	4,279.50	3,366.00	7,698.50	4,564.00	4,386.00	4,513.50	4,486.50	5,124.00	5,173.50	62,236.50	34,731.00
India	906.00	2,291.50	1,779.50	552.00	7.05	-	-	-	788.39	1,278.50	591.51	-	8,174.45	36,240.85
Thailand	100.00	-	-	-	-	-	-	-	-	-	-	-	100.00	5,196.00
Netherlands	-	696.00	-	-	-	-	-	-	-	-	-	-	696.00	1,782.00
United Kingdom	-	-	1.18	1.46	-	0.20	-	3.93	-	-	-	0.03	6.80	804.64
United Arab Emirates	-	260.00	0.29	360.00	1,088.27	1,839.16	751.32	1,534.21	260.00	751.21	780.12	-	7,624.59	3.04
South Africa	2,566.00	510.00	25.00	-	-	3,429.50	-	2,091.00	-	-	-	586.50	9,208.00	19,534.50
Germany	-	-	0.04	-	-	12.60	0.01	-	-	0.01	-	2.70	15.35	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-	-	500.00
Bulgaria	-	-	-	-	-	-	-	-	-	-	-	-	-	510.00
Brazil	-	-	-	-	-	-	-	-	-	-	728.00	494.00	1,222.00	-
Ukraine	-	-	-	-	-	-	-	-	-	-	-	208.00	208.00	-
<b>Sub-total</b>	<b>8,175.50</b>	<b>11,689.74</b>	<b>7,915.53</b>	<b>5,192.96</b>	<b>4,461.32</b>	<b>12,981.20</b>	<b>5,315.41</b>	<b>8,015.14</b>	<b>5,545.49</b>	<b>6,519.14</b>	<b>7,223.63</b>	<b>6,464.80</b>	<b>89,499.87</b>	<b>99,306.33</b>
<b>TOTAL SUGAR IMPORTS (a+b+c+d)</b>	<b>37,184.25</b>	<b>41,979.49</b>	<b>40,868.49</b>	<b>50,438.56</b>	<b>24,734.82</b>	<b>31,848.95</b>	<b>16,191.91</b>	<b>26,560.14</b>	<b>29,934.73</b>	<b>35,056.93</b>	<b>61,458.13</b>	<b>30,077.75</b>	<b>426,334.16</b>	<b>442,393.04</b>



**TABLE J (i): MONTHLY SUGAR IMPORTS IN 2012 TO 2021 ( METRIC TONNES)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>JANUARY</b>	20,567	13,983	11,818	33,676	24,343	38,829	21,982	36,674	46,796	37,184
<b>FEBRUARY</b>	16,299	26,423	7,357	29,800	21,795	35,170	9,907	27,375	51,423	41,979
<b>MARCH</b>	26,465	20,855	9,717	16,556	17,418	33,623	17,555	49,466	54,646	40,868
<b>APRIL</b>	14,644	15,559	12,146	22,250	33,764	25,845	12,071	36,786	31,812	50,439
<b>MAY</b>	25,662	27,096	4,917	18,496	31,295	30,089	19,081	21,911	23,137	24,735
<b>JUNE</b>	29,119	16,262	9,102	6,990	16,333	74,431	18,548	28,229	29,767	31,849
<b>JULY</b>	17,781	36,712	11,095	13,603	16,585	137,867	32,052	35,134	19,025	16,192
<b>AUGUST</b>	17,916	19,826	12,637	16,870	17,373	523,542	23,029	50,308	19,682	26,560
<b>SEPTEMBER</b>	10,312	18,412	21,598	23,390	40,212	34,451	35,859	38,172	35,734	29,935
<b>OCTOBER</b>	26,115	12,652	18,701	15,084	33,952	18,173	23,412	31,422	47,420	35,057
<b>NOVEMBER</b>	18,454	11,742	31,197	17,725	37,186	19,192	39,752	42,565	31,642	61,458
<b>DECEMBER</b>	15,255	18,524	41,836	32,951	43,853	18,407	30,921	60,589	51,309	30,078
<b>TOTAL</b>	<b>238,589</b>	<b>238,046</b>	<b>192,121</b>	<b>247,389</b>	<b>334,109</b>	<b>989,619</b>	<b>284,169</b>	<b>458,631</b>	<b>442,393</b>	<b>426,334</b>

**TABLE J (ii): SUMMARY OF THE SUGAR IMPORTS BY COUNTRY OF ORIGIN IN 2012 TO 2021 (TONNES)**

<b>COUNTRY OF ORIGIN</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>(a) COMESA FTA* countries</b>										
Zimbabwe	-	250	1,350	-	14,700	29,650	14,775	52,957	88,558	16,951
Malawi	5,480	43	-	-	2,970	27	5,224	35,143	31,373	2,148
Sudan	-	15,000	-	-	-	1,999	-	-	-	-
Zambia	2,321	14,782	7,504	19,625	14,300	23,622	19,666	34,445	20,277	26,190
Egypt	79,932	60,337	30,545	26,672	139,156	103,189	31,098	39,188	41,614	57,513
Madagascar	4,945	9,998	10,366	41,685	9,294	15,200	2,000	19,800	21,000	8,000
Mauritius	1,073	6,425	0	30,211	27,047	92,302	60,457	89,169	64,832	96,799
<b>Sub-total</b>	<b>93,751</b>	<b>106,835</b>	<b>49,764</b>	<b>118,192</b>	<b>207,467</b>	<b>265,989</b>	<b>133,221</b>	<b>270,701</b>	<b>267,654</b>	<b>207,601</b>
<b>(b) COMESA Non-FTA* countries</b>										
Mozambique	-	-	-	-	-	15,250	-	-	-	-
Eswatini	-	-	908	1,644	-	66,774	11,738	38,115	47,324	58,724
Ethiopia	-	-	-	-	-	4,400	-	-	-	-
<b>Sub-total</b>	<b>-</b>	<b>-</b>	<b>908</b>	<b>1,644</b>	<b>-</b>	<b>86,424</b>	<b>11,738</b>	<b>38,115</b>	<b>47,324</b>	<b>58,724</b>
<b>(c) EAST AFRICA COMMUNITY</b>										
Uganda	30,800	1,731	40,188	30,289	39,109	26,700	62,622	61,652	28,109	70,509
Tanzania	1,122	3,090	-	-	-	-	25	-	-	-
<b>Sub-total</b>	<b>31,922</b>	<b>4,821</b>	<b>40,188</b>	<b>30,289</b>	<b>39,109</b>	<b>26,700</b>	<b>62,647</b>	<b>61,652</b>	<b>28,109</b>	<b>70,509</b>
<b>(d) REST OF THE WORLD countries</b>										
South Africa	11,598	25,519	29,229	12,105	-	10,575	5,256	2,573	19,535	9,208
Brazil	-	832	-	4,100	2,100	403,071	-	-	-	1,222
Saudi Arabia	47,069	38,099	45,774	39,849	23,453	15,976	11,994	33,334	34,731	62,237
United Arab Emirates	2,590	8	6	1	401	45,631	1	2	3	7,625
Germany	2,001	414	500	0	-	2,500	0	0	-	15
Thailand	28,025	57,425	17,920	9,950	800	72,882	3,069	17,210	5,196	100
United Kingdom	26	1,144	22	1,100	192	1	5,836	122	805	7
India	14,087	1,561	5,808	28,462	56,807	42,053	29,707	28,693	36,241	8,174
Netherlands	-	0	1	0	-	1,066	4,867	4,092	1,782	696
Belgium	1,198	552	2,000	937	-	2,000	6,550	2,002	3	7
China	1	260	1	0	6	0	0	2	2	1
Pakistan	-	430	-	-	-	-	1,560	-	-	-
Italy	9	0	-	-	-	-	-	-	-	-
France	1,012	-	-	759	-	1,516	7,632	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-
Lebanon	-	21	-	-	500	434	-	-	-	-
Japan	-	-	-	-	-	-	1	-	-	-
United States of America	0	-	0	0	-	11	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Denmark	-	0	-	-	-	44	89	133	-	-
Switzerland	-	0	-	-	-	0	0	0	-	-
Botswana	-	-	-	-	-	590	-	-	-	-
Malaysia	-	-	-	-	1,400	-	-	-	500	-
Spain	5,000	-	-	-	-	-	-	-	-	-
Hong Kong	100	-	-	-	-	-	-	-	-	-
Cuba	200	-	-	-	-	-	-	-	-	-
Algeria	-	125	-	-	-	-	-	-	-	-
Greece	-	-	-	-	2	-	-	-	-	-
Guatemala	-	-	-	-	-	5,206	-	-	-	-
Czech Republic	-	-	-	-	1,872	-	-	-	-	-
Vietnam	-	-	-	-	-	4,500	-	-	-	-
El Salvador	-	-	-	-	-	250	-	-	-	-
Mexico	-	-	-	-	-	1,000	-	-	-	-
Morocco	-	-	-	-	-	1,200	-	-	-	-
Korea Republic	-	-	-	-	-	-	0	-	-	-
Bulgaria	-	-	-	-	-	-	-	-	510	-
Ukraine	-	-	-	-	-	-	-	-	-	208
<b>sub-total</b>	<b>112,916</b>	<b>126,391</b>	<b>101,262</b>	<b>97,263</b>	<b>87,533</b>	<b>610,506</b>	<b>76,563</b>	<b>88,163</b>	<b>99,306</b>	<b>89,500</b>
<b>OVERALL TOTAL (a+b+c+d)</b>	<b>238,589</b>	<b>238,046</b>	<b>192,121</b>	<b>247,389</b>	<b>334,109</b>	<b>989,619</b>	<b>284,169</b>	<b>458,631</b>	<b>442,393</b>	<b>426,334</b>

**NOTES**

i) \* FTA - Free Trade Area

ii) "Zero" imports could be a factor of rounding off

**TABLE J(iii): SUGAR IMPORTS BY TYPE AND VALUES, 2012 -2021**

YEAR	MILL WHITE/BROWN SUGAR			WHITE REFINED SUGAR			TOTAL IMPORTS		
	QUANTITY (METRIC TONNES)	C.I.F VALUE (KSHS)	C.I.F UNIT VALUE (KSHS/MT)	QUANTITY (METRIC TONNES)	C.I.F VALUE (KSHS)	C.I.F UNIT VALUE (KSHS/MT)	QUANTITY (METRIC TONNES)	C.I.F VALUE (KSHS)	C.I.F UNIT VALUE (KSHS/MT)
<b>2012</b>	84,991	6,344,069,533	<b>74,644</b>	153,598	9,625,213,286	<b>62,665</b>	238,589	15,969,282,819	<b>66,932</b>
<b>2013</b>	103,793	7,366,577,760	<b>70,974</b>	134,253	7,789,858,867	<b>58,024</b>	238,046	15,156,436,626	<b>63,670</b>
<b>2014</b>	62,708	3,422,008,573	<b>54,570</b>	129,412	6,899,693,851	<b>53,316</b>	192,121	10,321,702,424	<b>53,725</b>
<b>2015</b>	99,600	5,556,543,833	<b>55,789</b>	147,789	7,996,463,129	<b>54,107</b>	247,389	13,553,006,962	<b>54,784</b>
<b>2016</b>	172,888	10,905,044,138	<b>63,076</b>	161,221	8,722,861,297	<b>54,105</b>	334,109	19,627,905,435	<b>58,747</b>
<b>2017</b>	829,871	46,283,240,394	<b>55,772</b>	159,748	10,305,883,498	<b>64,513</b>	989,619	56,589,123,893	<b>57,183</b>
<b>2018</b>	122,121	7,574,813,604	<b>62,027</b>	162,048	8,075,860,121	<b>49,836</b>	284,169	15,650,673,725	<b>55,075</b>
<b>2019</b>	285,093	15,913,322,848	<b>55,818</b>	173,538	7,887,642,173	<b>45,452</b>	458,631	23,800,965,021	<b>51,896</b>
<b>2020</b>	309,408	17,947,527,049	<b>58,006</b>	132,985	6,519,788,209	<b>49,027</b>	442,393	24,467,315,258	<b>55,307</b>
<b>2021</b>	252,180	16,004,911,150	<b>63,466</b>	174,154	9,855,287,039	<b>56,589</b>	426,334	25,860,198,189	<b>60,657</b>

**TABLE J(iv): MILL WHITE/BROWN SUGAR IMPORTS BY ORIGIN AND UNIT CIF VALUE, 2012 -2021 (KSHS /TONNE)**

COUNTRY OF ORIGIN	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>a) COMESA FTA COUNTRIES</b>										
EGYPT	76,387	75,397	58,432	52,798	60,820	70,374	63,595	56,461	60,720	65,252
MALAWI	77,030	-	-	-	62,492	66,834	52,936	53,984	56,918	56,462
ZAMBIA	71,311	65,280	56,975	58,697	53,577	66,067	53,250	54,457	55,599	59,407
MADAGASCAR	116,181	70,896	50,873	54,013	53,948	84,174	54,197	54,879	56,911	56,358
ZIMBABWE	-	70,000	64,400	-	67,560	74,637	51,331	55,431	58,652	63,889
SUDAN	-	60,744	-	-	-	78,201	-	-	-	-
MAURITIUS	71,094	74,501	-	-	62,904	54,692	53,119	57,073	59,145	58,744
<b>SUB-AVERAGE</b>	<b>79,850</b>	<b>71,139</b>	<b>54,825</b>	<b>55,199</b>	<b>60,567</b>	<b>66,612</b>	<b>53,522</b>	<b>55,225</b>	<b>58,861</b>	<b>60,989</b>
<b>b) COMESA NON-FTA</b>										
MOZAMBIQUE	-	-	-	-	-	59,532	-	-	-	-
ESWATINI	-	-	-	-	-	52,013	47,334	50,947	53,985	56,704
ETHIOPIA	-	-	-	-	-	67,267	-	-	-	-
<b>SUB-AVERAGE</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>54,057</b>	<b>47,334</b>	<b>50,947</b>	<b>53,985</b>	<b>56,704</b>
<b>c) EAST AFRICA COMMUNITY</b>										
TANZANIA	68,945	65,999	-	-	-	-	70,894	-	-	-
UGANDA	65,919	70,349	54,414	57,137	71,658	84,130	71,260	61,439	63,060	73,255
<b>SUB-AVERAGE</b>	<b>66,025</b>	<b>67,560</b>	<b>54,414</b>	<b>57,137</b>	<b>71,658</b>	<b>84,130</b>	<b>71,260</b>	<b>61,439</b>	<b>63,060</b>	<b>73,255</b>
<b>d) REST OF THE WORLD</b>										
AUSTRALIA	-	-	-	-	-	-	-	-	-	-
BELGIUM	-	-	-	-	-	-	-	219,375	162,323	766,579
BRAZIL	-	-	-	-	-	49,064	-	-	-	-
BOTSWANA	-	-	-	-	-	64,229	-	-	-	-
CHINA	-	-	-	-	-	-	43,205	108,456	135,388	224,582
CUBA	71,245	-	-	-	-	-	-	-	-	-
DENMARK	-	-	-	-	-	-	-	-	-	-
EL SALVADOR	-	-	-	-	-	65,176	-	-	-	-
FRANCE	-	-	-	-	-	-	-	-	-	-
GERMANY	-	-	-	-	-	-	95,193	-	-	1,829,606
GREECE	-	-	-	-	23,374	-	-	-	-	-
GUATEMALA	-	-	-	-	-	67,151	-	-	-	-
INDIA	71,012	-	-	43,355	-	58,998	58,993	56,643	93,239	106,513
ITALY	118,891	-	-	-	-	-	-	-	-	-
MEXICO	-	-	-	-	-	52,866	-	-	-	-
NETHERLAND	-	82,720	-	-	-	61,420	-	-	-	-
SOUTH AFRICA	-	-	-	-	-	57,495	-	-	-	-
SWITZERLAND	-	60,394	-	-	-	74,559	103,254	72,001	-	-
THAILAND	-	-	-	-	-	60,612	-	-	-	-
UNITED ARAB EMIRATES	-	-	359,130	-	-	50,938	337,418	321,681	359,324	403,619
JAPAN	-	-	-	-	-	-	54,290	-	-	-
VIETNAM	-	-	-	-	-	52,081	-	-	-	-
UNITED KINGDOM	-	-	-	-	-	-	47,881	323,902	332,890	200,769
<b>SUB-AVERAGE</b>	<b>73,524</b>	<b>80,205</b>	<b>359,130</b>	<b>43,355</b>	<b>23,374</b>	<b>51,100</b>	<b>86,291</b>	<b>174,950</b>	<b>202,146</b>	<b>477,370</b>
<b>OVERALL AVERAGE</b>	<b>74,644</b>	<b>70,974</b>	<b>54,570</b>	<b>55,789</b>	<b>63,076</b>	<b>55,772</b>	<b>62,027</b>	<b>55,818</b>	<b>58,006</b>	<b>63,466</b>

*NB: Overall average and sub-average are weighted*

**TABLE J(v): WHITE REFINED SUGAR IMPORTS BY ORIGIN AND UNIT CIF VALUE, 2012 - 2021 (KSHS/TONNE)**

COUNTRY OF ORIGIN	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>a) COMESA FTA Countries</b>										
Egypt	65,459	59,816	56,728	57,044	57,809	60,672	50,480	47,964	48,869	57,193
Mauritius	-	-	-	55,969	55,503	63,152	53,437	46,533	51,070	59,913
Malawi	107,262	94,666	-	-	-	-	-	49,894	51,876	53,297
Madagascar	-	-	-	-	-	-	-	-	-	-
Zimbabwe	-	-	-	-	-	-	-	-	-	-
Sudan	-	-	-	-	-	-	-	-	-	-
Zambia	82,074	-	-	-	-	-	-	-	-	-
<b>SUB-AVERAGE</b>	<b>65,497</b>	<b>60,005</b>	<b>56,728</b>	<b>56,380</b>	<b>57,405</b>	<b>61,613</b>	<b>52,500</b>	<b>47,277</b>	<b>50,331</b>	<b>59,017</b>
<b>b) COMESA Non FTA</b>										
Eswatini	-	-	57,585	56,407	-	-	-	-	-	-
Mozambique	-	-	-	-	-	-	-	-	-	-
<b>SUB-AVERAGE</b>	<b>-</b>	<b>-</b>	<b>57,585</b>	<b>56,407</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>c) REST OF THE WORLD</b>										
South Africa	65,924	57,518	49,236	51,491	-	54,702	43,976	43,368	46,948	52,168
Saudi Arabia	60,047	59,351	55,170	57,957	53,391	57,334	51,459	46,982	51,768	54,878
Algeria	-	52,349	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Belgium	67,065	67,479	51,161	51,124	-	49,138	52,094	48,243	-	-
Brazil	-	57,899	-	53,784	54,396	70,010	-	-	-	55,737
Canada	-	-	-	-	-	-	-	-	-	-
China	-	47,491	155,461	-	79,679	-	151,251	65,735	89,483	76,686
Czech Republic	-	-	-	-	54,370	-	-	-	-	-
Denmark	-	-	-	-	-	54,955	39,576	37,986	-	-
France	70,479	-	-	46,450	-	53,835	45,759	-	-	-
Germany	69,555	86,089	50,721	-	-	-	232,203	265,426	-	147,157
Greece	-	-	-	-	-	-	-	-	-	-
Hong Kong	60,914	-	-	-	-	-	-	-	-	-
India	61,389	54,735	44,478	47,083	50,077	56,204	44,919	41,463	46,164	49,406
Iran	20,331	-	-	-	-	-	-	-	-	-
Italy	-	34,652	-	-	-	-	344,338	-	-	-
Japan	64,224	-	-	-	-	-	-	-	-	-
Korea Republic	-	-	-	-	-	-	77,335	-	-	-
Lebanon	-	62,667	-	-	47,580	27,717	-	-	-	-
Malaysia	-	-	-	-	51,222	-	-	-	50,922	-
Morocco	-	-	-	-	-	56,446	-	-	-	-
Netherland	-	-	148,011	-	-	60,009	41,269	38,780	38,519	51,872
Pakistan	-	67,483	-	-	-	-	43,701	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Spain	59,706	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	11,316	-	-	-
Thailand	61,194	56,792	52,939	50,836	63,835	58,265	44,619	41,529	47,378	61,585
United Arab Emirate	68,986	252,866	199,099	473,027	58,856	57,987	346,238	235,000	437,516	56,308
United Kingdom	66,572	61,305	68,624	58,934	46,968	-	52,211	165,668	274,798	747,828
United States of America	-	-	43,305	-	-	46,589	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-	43,248	-
Ukraine	-	-	-	-	-	-	-	-	-	73,085
<b>SUB-AVERAGE</b>	<b>61,634</b>	<b>57,900</b>	<b>52,359</b>	<b>52,925</b>	<b>51,326</b>	<b>56,177</b>	<b>46,862</b>	<b>43,225</b>	<b>48,465</b>	<b>54,291</b>
<b>OVERALL AVERAGE</b>	<b>62,665</b>	<b>58,024</b>	<b>53,316</b>	<b>54,107</b>	<b>54,105</b>	<b>59,235</b>	<b>49,836</b>	<b>45,452</b>	<b>49,027</b>	<b>56,589</b>

*NB: Overall average and sub-average are weighted*

TABLE K: SUGAR AND SUGAR BY-PRODUCT EXPORTS FOR THE PERIOD JANUARY - DECEMBER 2020 AND 2021 BY TYPE AND DESTINATION

**i) SUGAR BY-PRODUCTS IE JAGGERY & MOLASSES(MT)**

COUNTRY OF DESTINATION	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	TOTAL JAN - DEC 2021	TOTAL JAN - DEC 2020
AIRCRAFT & SHIPSTORES	0.000	0.000	0.000	0.070	0.003	0.005	0.035	0.055	0.030	0.012	0.002	0.032	0.244	0.165
SOUTH SUDAN	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.000	0.000	0.000	0.000	0.040	0.048
AUSTRALIA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
RWANDA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.710	0.000	3.710	0.000
DEMOCRATIC REP OF CONGO	0.000	0.000	0.000	0.010	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.000
<b>TOTAL</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.080</b>	<b>0.004</b>	<b>0.005</b>	<b>0.045</b>	<b>0.085</b>	<b>0.030</b>	<b>0.012</b>	<b>3.712</b>	<b>0.032</b>	<b>4.005</b>	<b>0.213</b>

**ii) BROWN / MILL WHITE SUGAR (MT)**

COUNTRY OF DESTINATION	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	TOTAL JAN - DEC 2021	TOTAL JAN - DEC 2020
AIRCRAFT & SHIP STORES	0.015	0.000	0.090	0.010	0.140	0.020	0.135	0.128	0.040	0.000	0.040	0.065	0.683	1.355
SOUTH SUDAN	0.000	1.000	0.010	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	2.560	4.795
UNITED ARAB EMIRATES	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025
SOUTH AFRICA	0.030	0.040	0.000	0.000	0.000	0.015	0.020	0.000	0.000	0.000	0.000	0.000	0.105	0.000
DEMOCRATIC REP OF CONGO	0.000	0.000	0.000	0.050	0.010	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.070	3.000
BOTSWANA	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.025	0.000
BURUNDI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.570
UGANDA	0.000	7.200	5.400	3.710	12.228	10.343	0.000	3.710	0.000	1.855	4.724	1.113	50.282	53.843
RWANDA	0.000	0.990	13.832	14.353	0.594	14.583	13.761	18.470	0.000	21.684	25.734	3.708	127.709	133.973
TANZANIA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.330
MOZAMBIQUE	0.062	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.062	0.000
ALGERIA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.030	0.000
INDONESIA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.000	0.000	0.000	0.025	0.000
JAPAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.020	0.000	0.000	0.045	0.000
GERMANY	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.550	0.000	0.550	0.000
INDIA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.020	0.000
NIGER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	0.000	0.000	0.000	0.080	0.000
<b>TOTAL</b>	<b>0.107</b>	<b>9.230</b>	<b>19.332</b>	<b>19.623</b>	<b>12.972</b>	<b>24.961</b>	<b>13.941</b>	<b>22.308</b>	<b>0.200</b>	<b>23.559</b>	<b>31.128</b>	<b>4.886</b>	<b>182.246</b>	<b>200.890</b>

**iii) REFINED WHITE SUGAR (MT)**

COUNTRY OF DESTINATION	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	TOTAL JAN - DEC 2021	TOTAL JAN - DEC 2020
AIRCRAFT & SHIP STORES	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.097	0.097	0.080
TANZANIA	0.000	0.000	0.000	250.775	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	250.775	0.000
SOUTH SUDAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025
UGANDA	3.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	502.663	506.263	0.000
OMAN	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.335	0.000	0.000	0.500	1.835	0.000
EPZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	160.000
CONGO, BRAZZAVILLE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
RWANDA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	254.408	254.408	14.087
DJIBOUTI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
<b>TOTAL</b>	<b>3.600</b>	<b>0.000</b>	<b>0.000</b>	<b>251.775</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.335</b>	<b>0.000</b>	<b>0.000</b>	<b>757.669</b>	<b>1013.379</b>	<b>174.202</b>
<b>TOTAL SUGAR EXPORTS (i-iii)</b>	<b>3.707</b>	<b>9.230</b>	<b>19.332</b>	<b>271.398</b>	<b>12.972</b>	<b>24.961</b>	<b>13.941</b>	<b>22.308</b>	<b>0.535</b>	<b>23.559</b>	<b>31.128</b>	<b>762.555</b>	<b>1195.625</b>	<b>375.092</b>

**TABLE L: AVERAGE MONTHLY SUGAR PRICES FOR JANUARY - DECEMBER 2020 AND 2021**

MONTH	EX-FACTORY SUGAR PRICES (KSHS/50-KG BAG)				WHOLESALE SUGAR PRICES (KSHS/50-KG BAG)				RETAIL SUGAR PRICES (KSHS/KG)			
	RANGE		MEAN*		RANGE		MEAN		RANGE		MEAN	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
<b>January</b>	4000 - 4600	<b>4600 - 4850</b>	4,235	<b>4,729</b>	4170 - 5250	<b>4700 - 5300</b>	4,419	<b>4,962</b>	90 - 150	<b>95 - 170</b>	109.62	<b>114.55</b>
<b>February</b>	4000 - 4700	<b>4400 - 4700</b>	4,294	<b>4,500</b>	4250 - 5000	<b>4500 - 5200</b>	4,532	<b>4,858</b>	90 - 150	<b>99 - 170</b>	108.81	<b>112.00</b>
<b>March</b>	4100 - 4500	<b>4400 - 4650</b>	4,215	<b>4,536</b>	4450 - 4850	<b>4620 - 4800</b>	4,644	<b>4,721</b>	94 - 130	<b>99 - 130</b>	109.13	<b>109.00</b>
<b>April</b>	4150 - 4600	<b>4400 - 4650</b>	4,417	<b>4,512</b>	4350 - 4750	<b>4500 - 4850</b>	4,477	<b>4,686</b>	90 - 140	<b>99 - 120</b>	108.15	<b>108.00</b>
<b>May</b>	4100 - 4500	<b>4200 - 4650</b>	4,263	<b>4,427</b>	4250 - 4600	<b>4450 - 5000</b>	4,433	<b>4,639</b>	90 - 140	<b>93 - 145</b>	107.35	<b>109.00</b>
<b>June</b>	4100 - 4300	<b>4200 - 4410</b>	4,228	<b>4,314</b>	4250 - 4700	<b>4250 - 4900</b>	4,449	<b>4,560</b>	94 - 130	<b>90 - 150</b>	105.91	<b>107.35</b>
<b>July</b>	4100 - 5200	<b>4200 - 4400</b>	4,536	<b>4,342</b>	4350 - 5450	<b>4400 - 4850</b>	4,717	<b>4,585</b>	90 - 160	<b>95 - 150</b>	114.18	<b>106.99</b>
<b>August</b>	4100 - 4850	<b>4200 - 4500</b>	4,310	<b>4,349</b>	4420 - 4950	<b>4350 - 5000</b>	4,635	<b>4,579</b>	95 - 160	<b>90 - 150</b>	110.00	<b>107.00</b>
<b>September</b>	4300 - 5442	<b>4200 - 4800</b>	4,422	<b>4,485</b>	4430 - 4900	<b>4500 - 5500</b>	4,639	<b>5,032</b>	95 - 160	<b>97 - 150</b>	109.39	<b>112.81</b>
<b>October</b>	4300 - 5442	<b>4300 - 5100</b>	4,389	<b>4,770</b>	4300 - 5050	<b>4250 - 6100</b>	4,574	<b>5,384</b>	95 - 145	<b>100 - 160</b>	108.41	<b>117.73</b>
<b>November</b>	4300 - 5200	<b>4300 - 6100</b>	4,513	<b>5,518</b>	4650 - 5500	<b>5550 - 7000</b>	4,990	<b>6,125</b>	99 - 190	<b>110 - 180</b>	112.75	<b>135.16</b>
<b>December</b>	4400 - 5000	<b>5087 - 5600</b>	4,745	<b>5,304</b>	4850 - 5300	<b>5200 - 6400</b>	5,084	<b>5,660</b>	100 - 170	<b>110 - 163</b>	115.21	<b>131.65</b>
<b>OVERALL</b>	<b>4000 - 5442</b>	<b>4200 - 6100</b>	<b>4,381</b>	<b>4,645</b>	<b>4170 - 5500</b>	<b>4250 - 7000</b>	<b>4,633</b>	<b>4,969</b>	<b>90 - 190</b>	<b>90 - 180</b>	<b>109.91</b>	<b>114.27</b>

\* Weighted average

**TABLE M(i): C.I.F. MOMBASA LANDED PRICE OF IMPORTED SUGAR (BOTH BROWN/MILL WHITE & REFINED WHITE)  
IN 2012 - 2021 (KSHS. PER TONNE)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>JANUARY</b>	80,290	64,555	55,340	56,981	53,795	73,318	55,426	52,022	51,387	58,785
<b>FEBRUARY</b>	67,043	66,680	52,363	55,459	51,695	67,868	51,121	53,810	53,961	57,815
<b>MARCH</b>	68,897	67,261	53,415	53,398	52,936	93,886	53,452	51,027	53,717	57,961
<b>APRIL</b>	62,936	59,436	46,893	54,678	54,187	72,447	53,072	51,698	57,203	58,841
<b>MAY</b>	65,069	61,157	47,957	54,382	52,773	75,380	51,311	51,146	54,832	57,473
<b>JUNE</b>	66,924	64,095	53,322	51,787	53,971	60,150	52,229	49,408	56,240	56,601
<b>JULY</b>	66,719	65,001	55,574	51,349	52,523	55,897	57,664	52,626	57,536	56,392
<b>AUGUST</b>	67,110	66,821	52,034	52,344	57,124	50,751	61,524	51,924	56,631	57,612
<b>SEPTEMBER</b>	63,529	62,964	55,251	55,921	60,307	60,557	63,441	53,047	56,856	58,536
<b>OCTOBER</b>	62,468	59,353	55,177	56,874	64,305	58,297	50,397	52,102	55,993	60,168
<b>NOVEMBER</b>	67,384	60,654	55,262	55,667	66,439	59,581	51,766	51,383	56,389	72,279
<b>DECEMBER</b>	61,818	61,082	53,767	53,988	67,603	55,174	52,434	52,293	56,705	64,480
<b>ANNUAL WEIGHTED AVERAGE</b>	<b>66,932</b>	<b>63,670</b>	<b>53,725</b>	<b>54,784</b>	<b>58,747</b>	<b>57,183</b>	<b>55,075</b>	<b>51,896</b>	<b>55,307</b>	<b>60,657</b>



**TABLE M(ii): C.I.F. MOMBASA LANDED PRICE OF IMPORTED MILL WHITE/BROWN SUGAR, 2012 -2021 (KSHS PER TONNE)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
JANUARY	96,878	76,743	–	56,704	54,171	76,516	52,906	58,330	55,512	62,772
FEBRUARY	91,830	71,564	–	56,316	53,891	73,244	56,765	58,105	56,158	62,292
MARCH	73,604	77,108	–	52,609	51,394	76,894	61,542	54,533	55,800	59,723
APRIL	68,601	65,782	–	54,988	56,910	77,490	59,732	55,558	59,292	60,011
MAY	71,988	65,087	–	54,158	55,942	81,346	58,089	55,752	60,117	59,124
JUNE	71,186	74,801	–	51,997	57,128	59,976	57,609	55,304	60,686	59,472
JULY	70,707	68,992	63,785	52,097	53,732	55,295	64,029	56,001	61,504	58,094
AUGUST	71,375	74,382	50,535	51,740	63,724	50,618	69,932	56,562	61,267	58,676
SEPTEMBER	70,332	69,947	53,419	59,957	62,279	63,199	69,721	57,017	59,654	60,024
OCTOBER	71,901	73,226	56,150	63,412	67,993	57,242	57,077	58,516	57,184	60,852
NOVEMBER	76,035	74,615	54,677	61,180	70,236	74,193	56,274	55,396	59,904	78,244
DECEMBER	73,950	70,871	54,536	54,194	76,906	42,137	55,511	53,934	58,755	67,514
<b>ANNUAL WEIGHTED AVERAGE</b>	<b>74,644</b>	<b>70,974</b>	<b>54,570</b>	<b>55,789</b>	<b>63,076</b>	<b>55,772</b>	<b>62,027</b>	<b>55,818</b>	<b>58,006</b>	<b>63,466</b>

**TABLE M(iii): C.I.F. MOMBASA LANDED PRICE OF IMPORTED WHITE REFINED SUGAR, 2012 -2021 (KSHS PER TONNE)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
JANUARY	69,200	59,757	55,340	57,515	53,500	67,462	55,547	48,624	41,778	51,110
FEBRUARY	64,646	60,177	52,363	54,254	49,053	58,181	49,782	47,972	44,840	52,787
MARCH	66,803	60,411	53,415	53,804	53,395	115,380	52,519	42,641	45,231	53,430
APRIL	59,613	57,140	46,893	54,513	51,091	64,591	51,418	43,928	48,747	56,179
MAY	60,621	56,712	47,957	54,404	50,385	58,546	48,400	44,747	46,692	54,095
JUNE	61,491	56,572	53,322	51,659	52,241	60,771	48,794	45,733	50,223	54,515
JULY	61,719	58,017	54,332	51,150	50,726	59,995	48,982	42,492	52,097	54,937
AUGUST	65,628	58,027	52,945	52,700	53,618	58,243	45,949	45,850	49,985	56,451
SEPTEMBER	59,431	57,909	56,036	53,974	57,272	55,541	49,997	45,122	52,700	56,032
OCTOBER	58,357	56,392	54,441	54,020	58,677	58,712	47,613	45,743	51,906	59,227
NOVEMBER	61,744	56,585	55,761	55,175	58,438	55,553	48,067	45,683	48,754	61,870
DECEMBER	60,203	58,084	52,277	53,683	57,282	55,735	47,291	41,646	53,204	62,586
<b>ANNUAL WEIGHTED AVERAGE</b>	<b>62,665</b>	<b>58,024</b>	<b>53,316</b>	<b>54,107</b>	<b>54,105</b>	<b>64,513</b>	<b>49,836</b>	<b>45,452</b>	<b>49,027</b>	<b>56,589</b>

TABLE N: SUGAR CANE PRICES IN 2020 AND 2021 ( KSHS/TONNE)

PERIOD	CHEMELIL		MUHORONI		MUMIAS		NZOIA		SOUTH NYANZA		WEST KENYA		SOIN		KIBOS		BUTALI		SUKARI		TRANSMARA		KWALE		OLEPITO		BUSIA		WEIGHT AVERAGE	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
JANUARY	N/A	3,750	3,700	3,700	N/A	N/A	3,700	3,700	4,310	4,010	3,900	3,700	N/A	N/A	3,700	3,700	3,900	3,700	3,600	3,600	3,710	3,710	3,700	N/A	3,700	3,700	3,500	3,500	3,771	3,697
FEBRUARY	N/A	3,750	3,700	3,700	N/A	N/A	3,700	3,700	4,310	4,010	3,800	3,700	N/A	N/A	3,700	3,700	3,700	3,700	3,600	3,600	3,710	3,710	3,700	3,700	3,700	3,700	3,500	3,500	3,692	3,697
MARCH	3,750	3,750	3,700	3,700	N/A	N/A	3,700	3,700	4,310	4,010	3,700	3,700	N/A	N/A	3,700	3,700	3,700	3,700	3,600	3,600	3,710	3,710	3,700	3,700	3,700	3,700	3,500	3,500	3,691	3,698
APRIL	3,750	4,040	3,700	4,040	N/A	N/A	3,700	4,040	4,310	4,040	3,700	4,040	N/A	N/A	3,700	4,040	3,700	4,040	3,600	4,040	3,710	4,040	3,700	N/A	3,700	4,040	3,500	4,040	3,691	4,040
MAY	3,750	4,040	3,700	4,040	N/A	N/A	3,700	4,040	4,310	4,040	3,700	4,040	N/A	N/A	3,700	4,040	3,700	4,040	3,600	4,040	3,710	4,040	3,700	N/A	3,700	4,040	3,500	4,040	3,694	4,040
JUNE	3,750	4,040	3,700	4,040	N/A	N/A	3,700	4,040	N/A	4,040	3,700	4,040	N/A	N/A	3,700	4,040	3,700	4,040	3,600	4,040	3,710	4,040	3,700	N/A	3,700	4,040	3,500	4,040	3,682	4,040
JULY	3,750	4,040	3,700	4,040	N/A	N/A	3,700	4,040	N/A	4,040	3,700	4,040	N/A	N/A	3,700	4,040	3,700	4,040	3,600	4,040	3,710	4,040	3,700	N/A	3,700	4,040	3,500	4,040	3,684	4,040
AUGUST	3,750	3,940	3,700	3,940	N/A	N/A	3,700	3,940	N/A	3,940	3,700	3,940	N/A	N/A	3,700	3,951	3,700	3,940	3,600	3,940	3,710	3,940	3,700	N/A	3,700	3,940	3,500	3,940	3,685	3,941
SEPTEMBER	3,850	3,833	3,700	3,833	N/A	N/A	3,700	3,833	4,310	3,833	3,700	3,833	N/A	N/A	3,700	N/A	3,700	3,833	3,600	3,833	3,710	3,833	3,700	N/A	3,700	3,833	3,500	3,833	3,721	3,833
OCTOBER	3,850	3,833	3,700	3,833	N/A	N/A	3,700	3,833	4,310	3,833	3,700	3,833	N/A	N/A	3,700	N/A	3,700	N/A	3,600	3,833	3,710	3,833	3,700	N/A	3,700	3,833	3,500	3,833	3,722	3,833
NOVEMBER	3,750	3,954	3,700	3,954	N/A	N/A	3,700	3,954	4,010	3,954	3,700	3,954	N/A	N/A	3,700	3,954	3,700	3,954	3,600	3,954	3,710	3,954	3,700	N/A	3,700	3,954	3,500	3,954	3,701	3,954
DECEMBER	3,750	4,112	3,700	4,112	N/A	N/A	3,700	4,112	4,010	4,112	3,700	4,112	N/A	N/A	3,700	4,112	3,700	4,112	N/A	4,112	3,710	4,112	3,700	N/A	3,700	4,112	3,500	4,112	3,715	4,112
OVERALL	3,770	3,911	3,700	3,892	N/A	N/A	3,700	3,897	4,243	3,977	3,725	3,910	N/A	N/A	3,700	3,933	3,717	3,922	3,600	3,885	3,710	3,922	3,700	3,700	3,919	3,500	3,850	3,707	3,909	

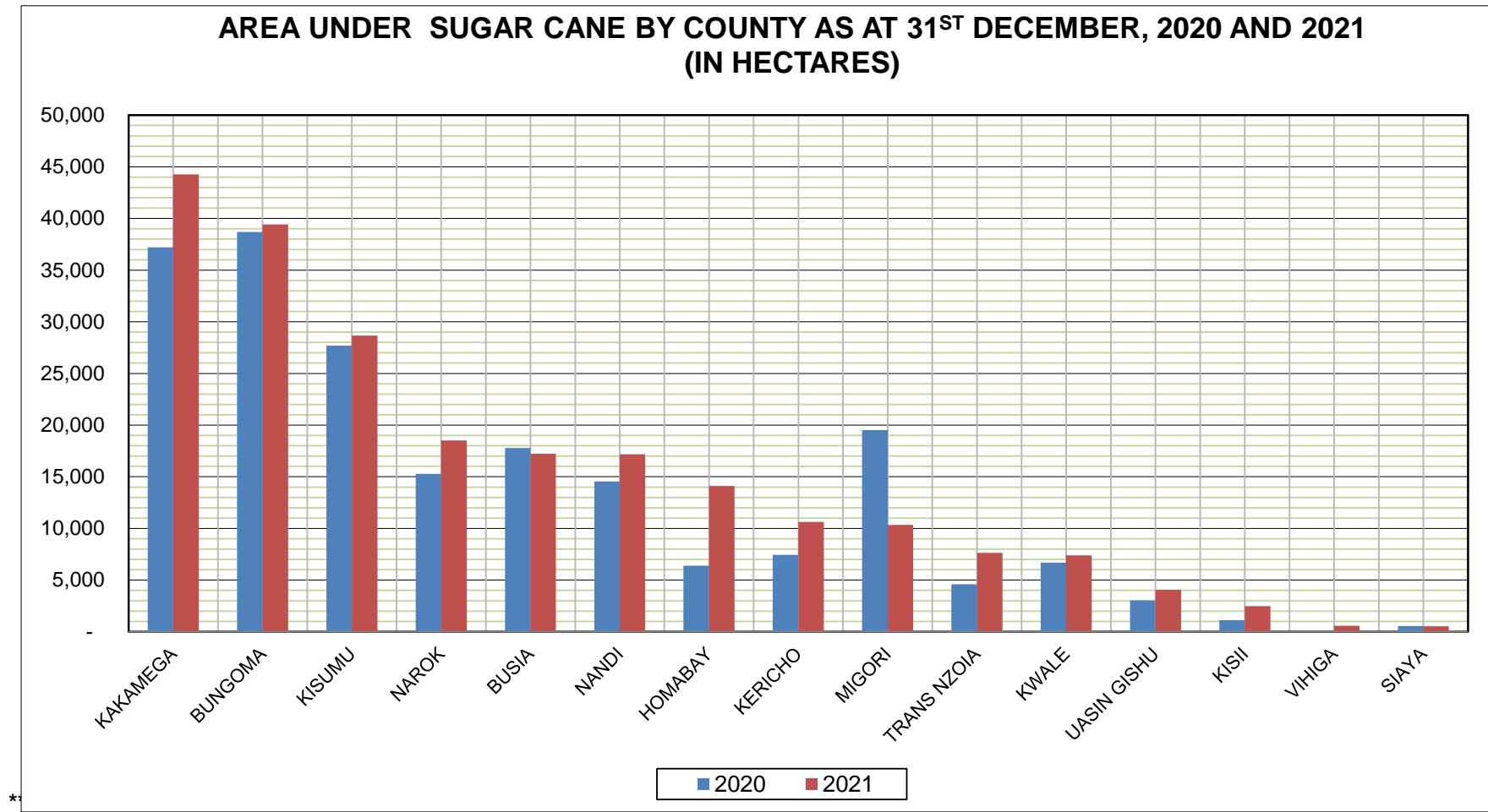
**TABLE O: EX-FACTORY MOLASSES PRICES IN 2020 AND 2021 (KSHS PER TONNE)**

MONTH	CHEMELIL		MUHORONI		MUMIAS*		NZOIA		SOUTH NYANZA		WEST KENYA		SOIN		KIBOS		BUTALI		SUKARI		TRANSMARA		KWALE		OLEPITO		BUSIA		AVERAGE**	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
JANUARY	-	9,000	6,000	8,000	N/A	N/A	-	9,922	7,666	8,000	5,000	7,999	N/A	N/A	5,500	N/A	7,000	6,000	6,628	7,500	6,645	8,000	-	6,000	7,243	10,000	8,500	9,847	5,419	7,139
FEBRUARY	-	7,780	6,000	8,000	N/A	N/A	9,750	10,161	7,500	7,750	5,000	7,026	N/A	N/A	5,500	N/A	7,000	5,000	6,124	7,500	7,155	7,000	-	6,000	7,847	9,000	8,030	8,164	5,942	6,374
MARCH	-	4,150	6,000	5,000	N/A	N/A	9,500	7,425	7,500	6,700	6,000	4,803	N/A	N/A	5,500	N/A	7,000	5,000	2,193	6,000	6,742	6,000	-	6,000	5,364	5,500	7,650	6,468	5,579	4,693
APRIL	5,652	2,715	3,000	4,000	N/A	N/A	6,000	5,488	4,718	4,250	7,000	3,746	N/A	N/A	5,500	N/A	6,000	5,000	4,706	3,000	5,267	5,000	-	N/A	5,408	4,500	6,400	4,188	5,587	3,586
MAY	5,500	2,720	6,000	4,000	N/A	N/A	6,000	5,035	4,500	3,900	8,000	3,088	N/A	N/A	5,500	N/A	6,000	5,000	4,005	3,032	5,000	4,000	-	6,000	5,619	4,000	5,525	4,538	5,795	3,676
JUNE	6,595	4,000	6,000	4,000	N/A	N/A	7,750	5,229	3,341	3,900	7,000	4,399	N/A	N/A	5,500	N/A	6,000	5,000	4,595	3,088	5,600	3,000	-	6,000	5,910	5,000	7,580	6,233	5,899	3,684
JULY	6,245	4,000	6,000	5,000	N/A	N/A	6,884	5,847	1,792	3,650	7,000	5,556	N/A	N/A	5,500	N/A	6,000	5,000	4,542	3,138	6,677	3,000	-	6,000	7,601	6,000	8,150	7,692	5,978	3,928
AUGUST	6,000	3,519	8,000	5,000	N/A	N/A	6,884	6,034	-	3,200	7,500	3,788	N/A	N/A	5,500	N/A	6,000	5,000	4,514	3,020	7,000	3,000	-	6,000	7,976	4,500	7,700	5,626	6,140	3,587
SEPTEMBER	6,000	3,151	9,000	5,000	N/A	N/A	7,750	6,034	7,072	4,000	6,063	3,523	N/A	N/A	5,500	N/A	6,000	5,000	4,596	3,013	5,929	3,500	-	6,000	9,000	4,000	8,700	5,869	6,069	3,948
OCTOBER	6,000	3,554	9,000	5,000	N/A	N/A	7,794	6,014	6,815	4,000	7,525	5,271	N/A	N/A	5,500	N/A	6,000	5,000	5,000	3,124	6,758	4,000	6,000	6,000	9,000	6,500	8,500	8,870	6,713	4,460
NOVEMBER	6,000	4,000	10,000	5,000	N/A	N/A	7,208	6,358	6,673	6,500	8,514	5,400	N/A	N/A	5,500	N/A	6,000	5,000	5,000	3,500	6,619	5,000	-	6,000	9,558	7,000	9,580	8,500	6,833	5,117
DECEMBER	6,000	4,000	10,000	5,000	N/A	N/A	11,519	6,250	7,775	6,500	8,328	5,350	N/A	N/A	5,500	N/A	6,000	5,000	4,000	4,500	8,228	5,000	-	6,000	9,655	6,500	10,030	6,882	7,155	4,525
OVERALL	5,999	4,451	7,083	5,276	N/A	N/A	7,913	6,387	5,941	5,067	6,911	4,927	N/A	N/A	5,500	N/A	6,250	5,090	4,659	3,816	6,468	4,232	6,000	6,000	7,515	5,859	8,029	6,751	6,361	4,535

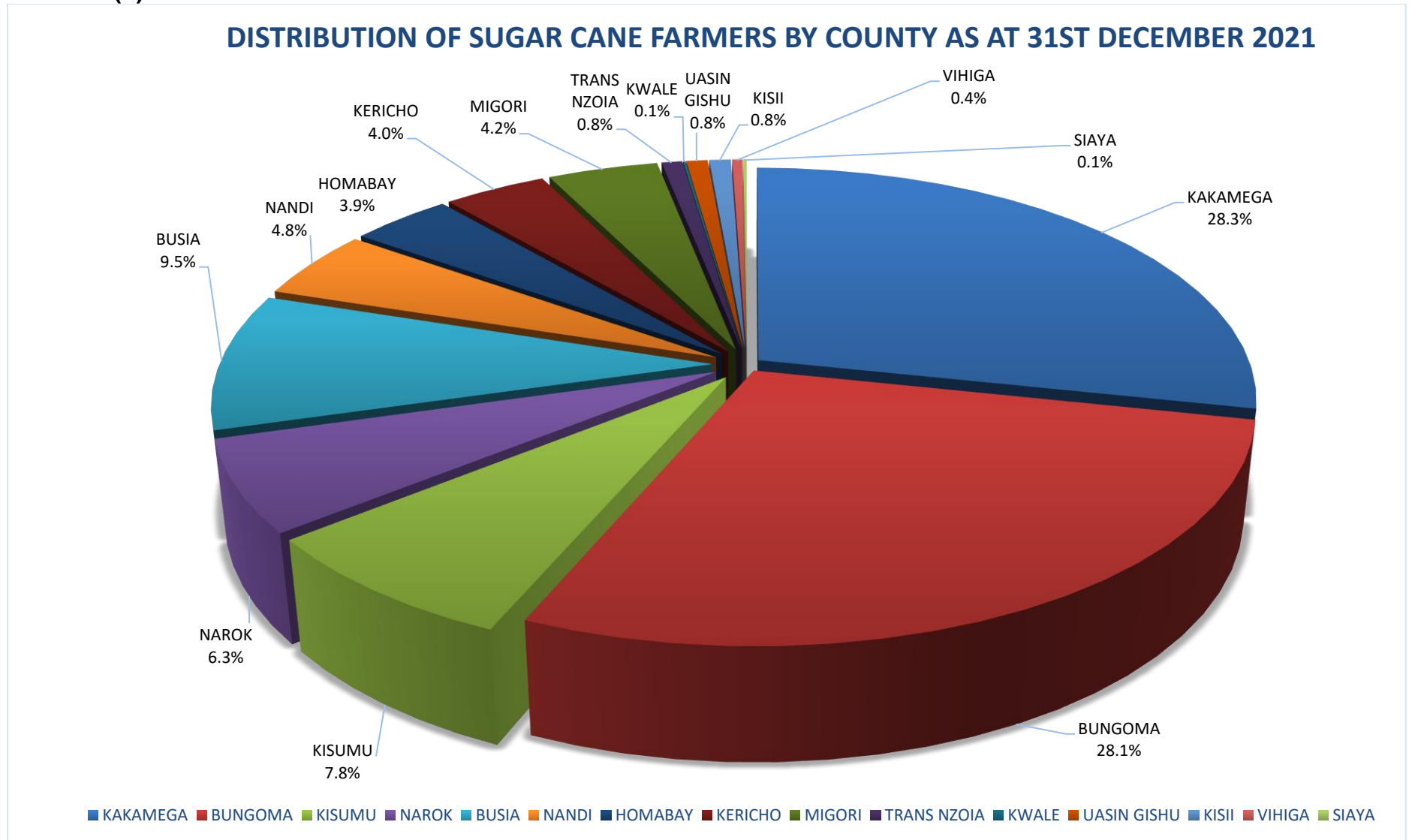
\* Mumias and Kibos used molasses produced for own consumption

\*\* Weighted molasses prices

**FIGURE I(a)**



**FIGURE I(b)**



*Total number of farmers at the end of 2021 were 262, 667*

**FIGURE II (a)**

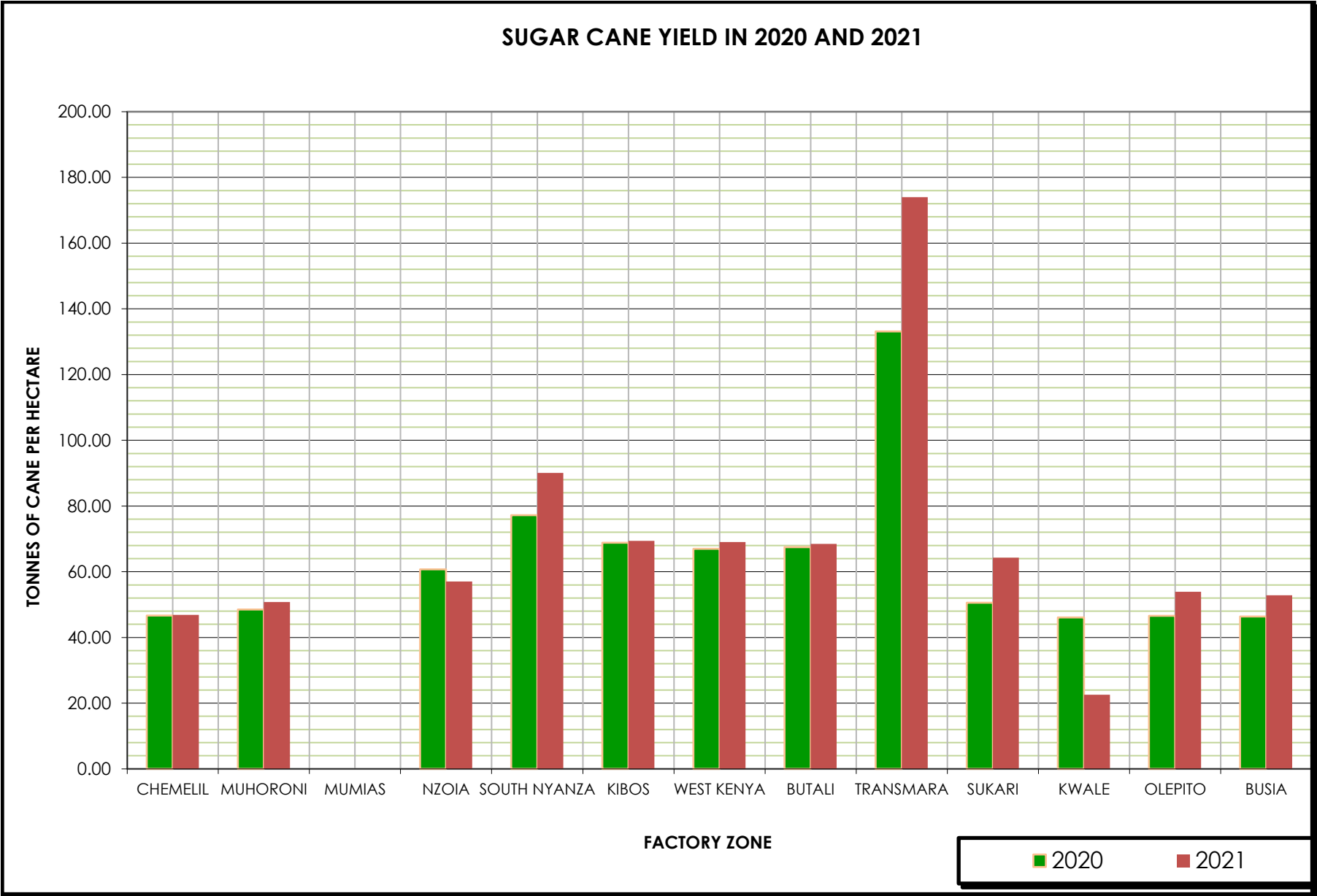
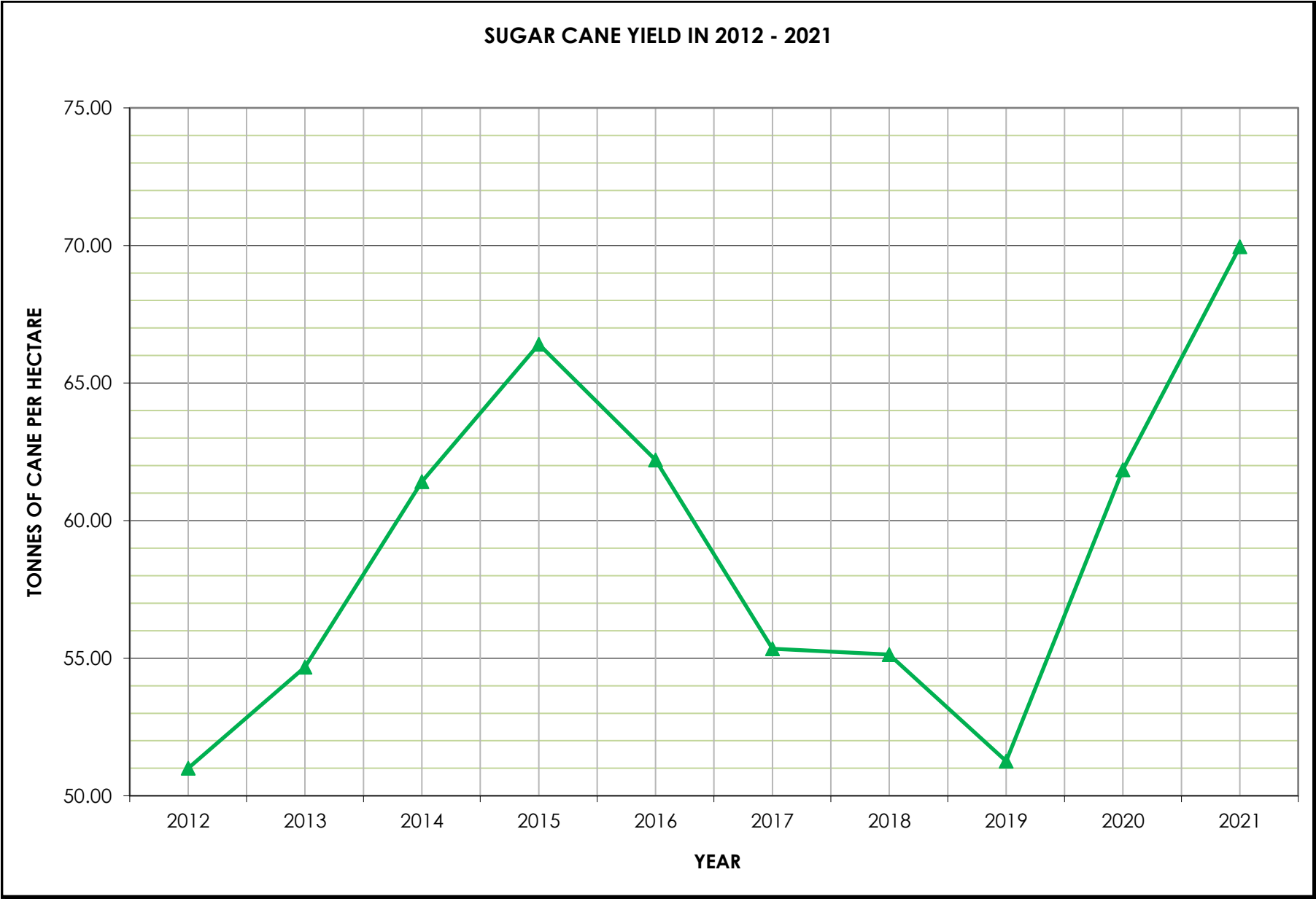
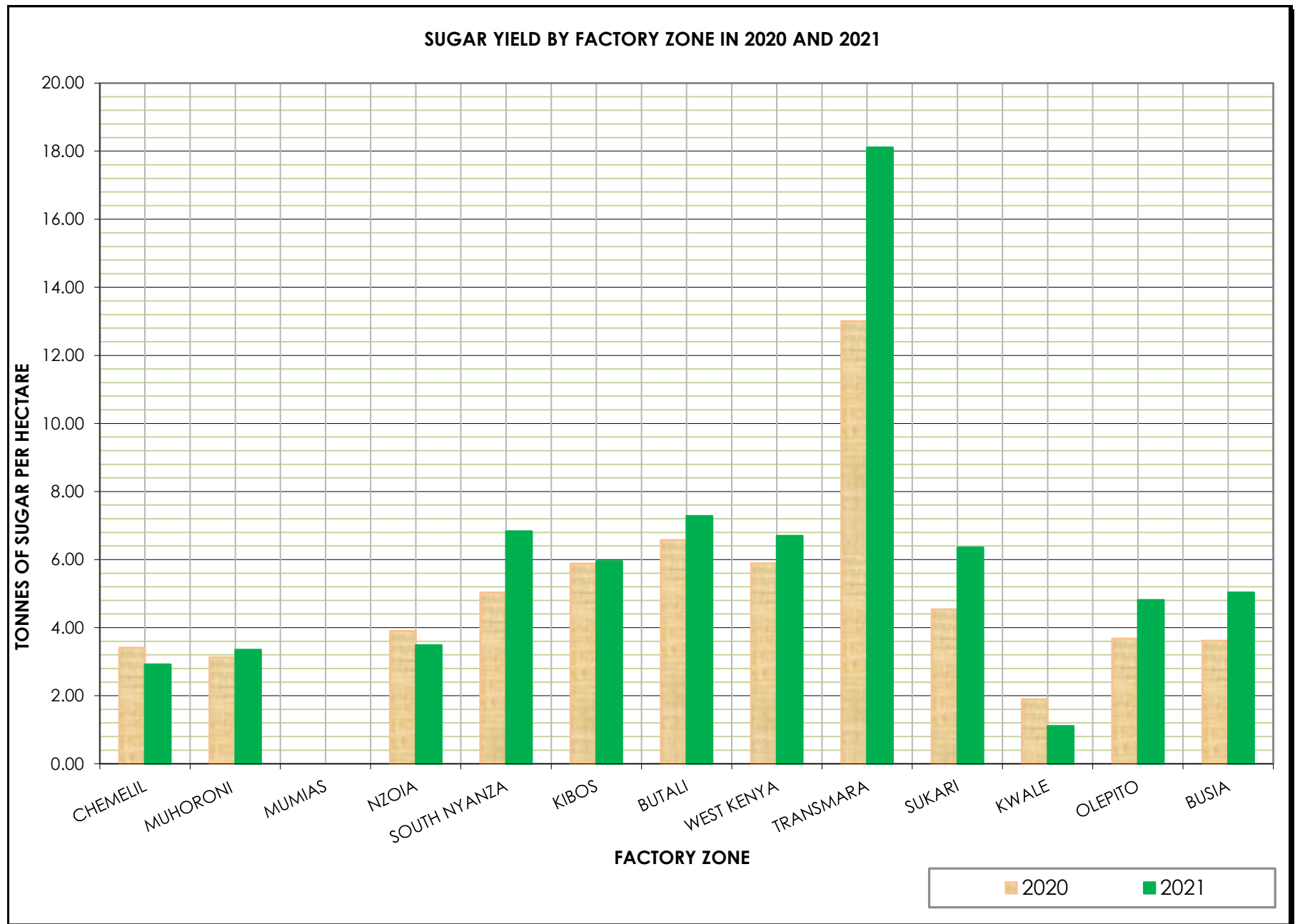


FIGURE II(b)

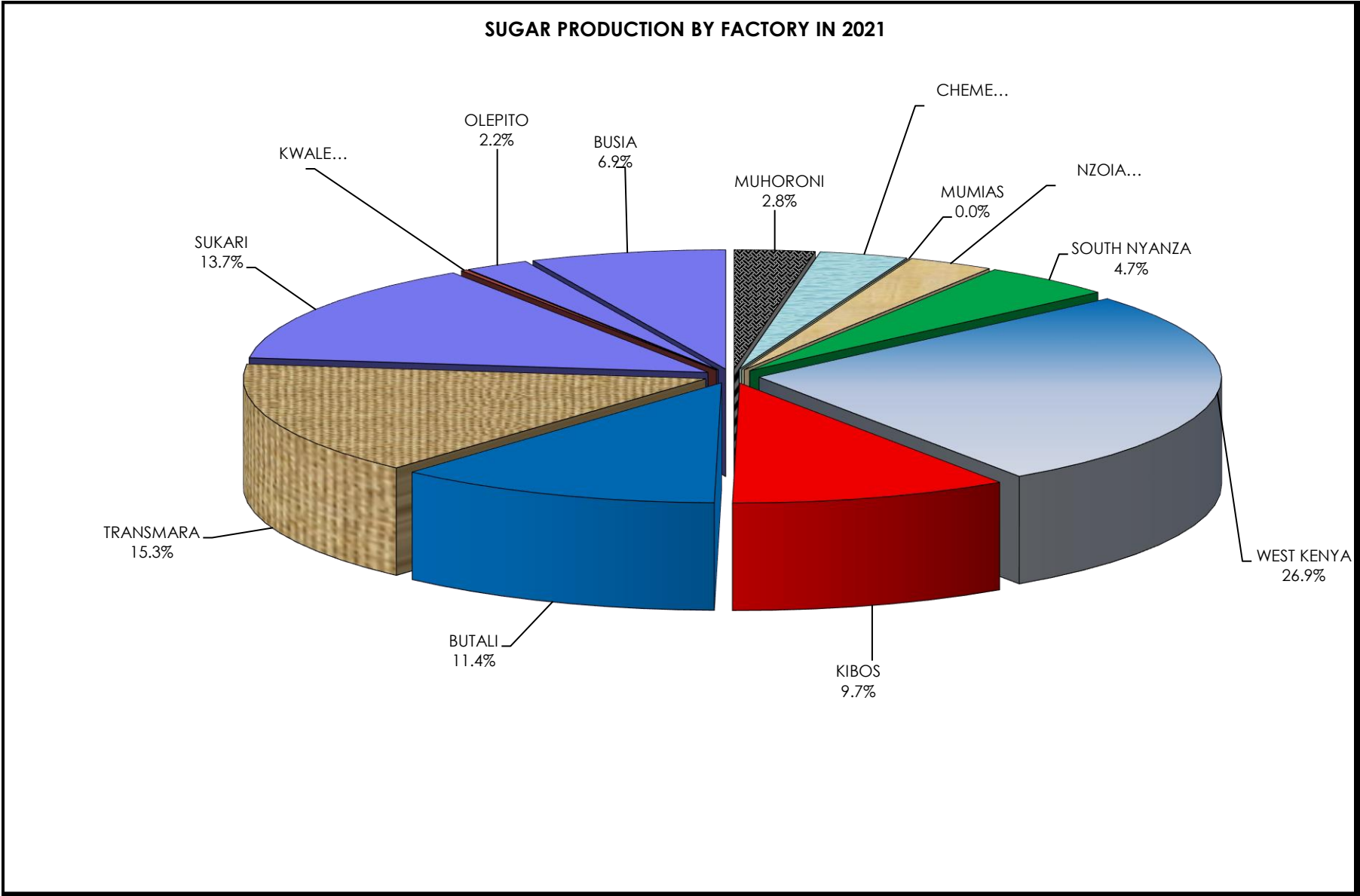




**FIGURE III**

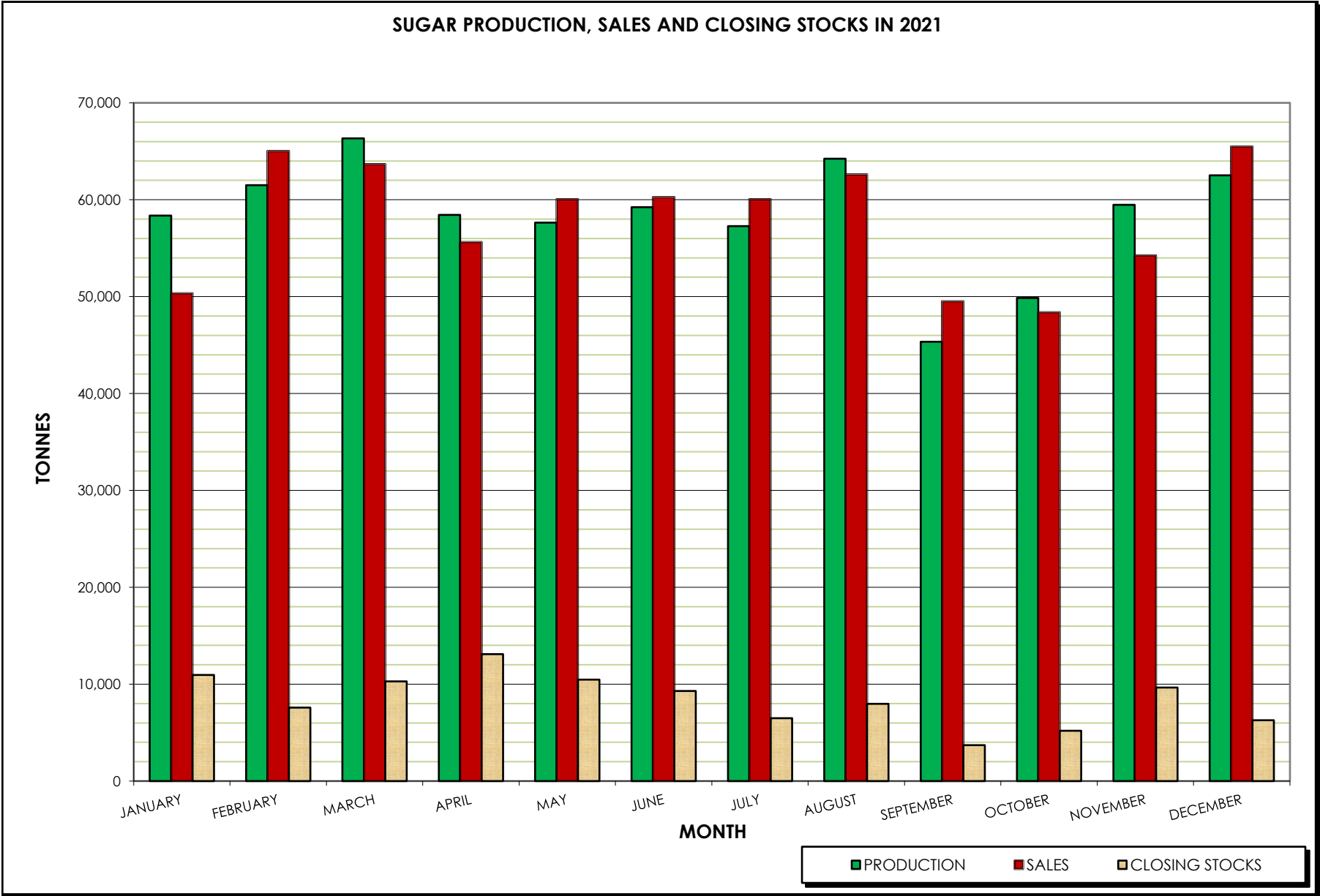


**FIGURE IV**

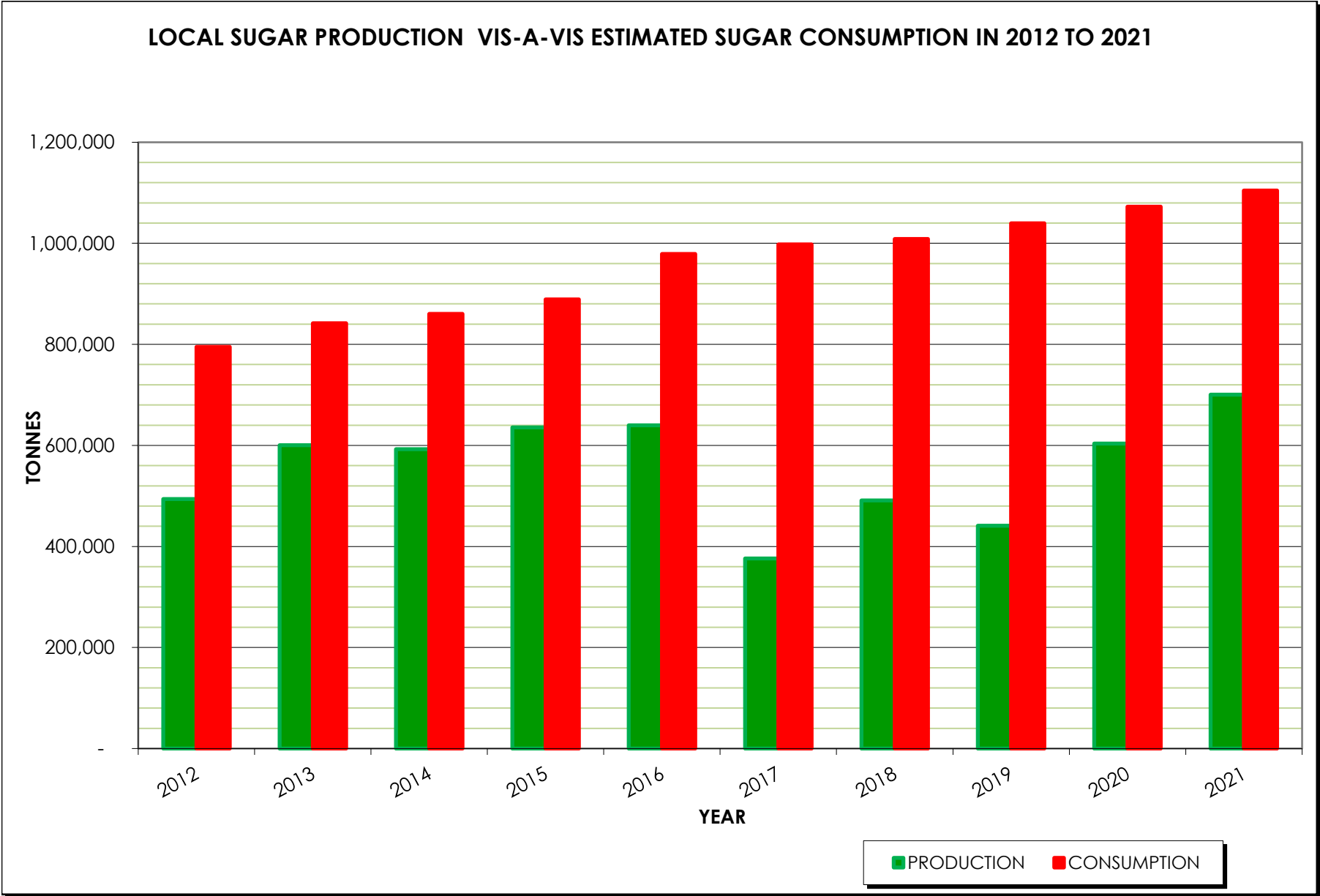


Total sugar production in 2021 was 700,241 tonnes

FIGURE V(a)

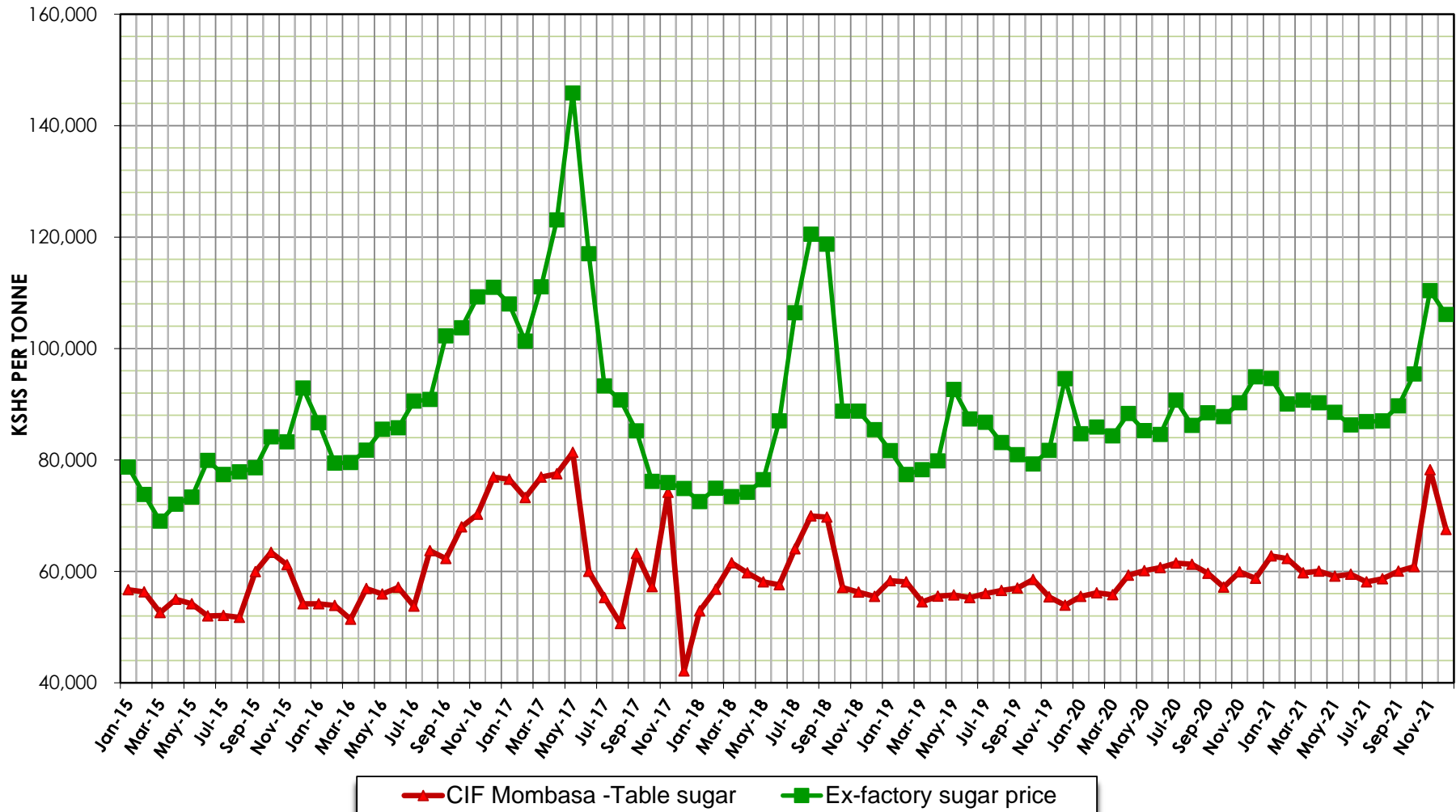


**FIGURE V(b)**



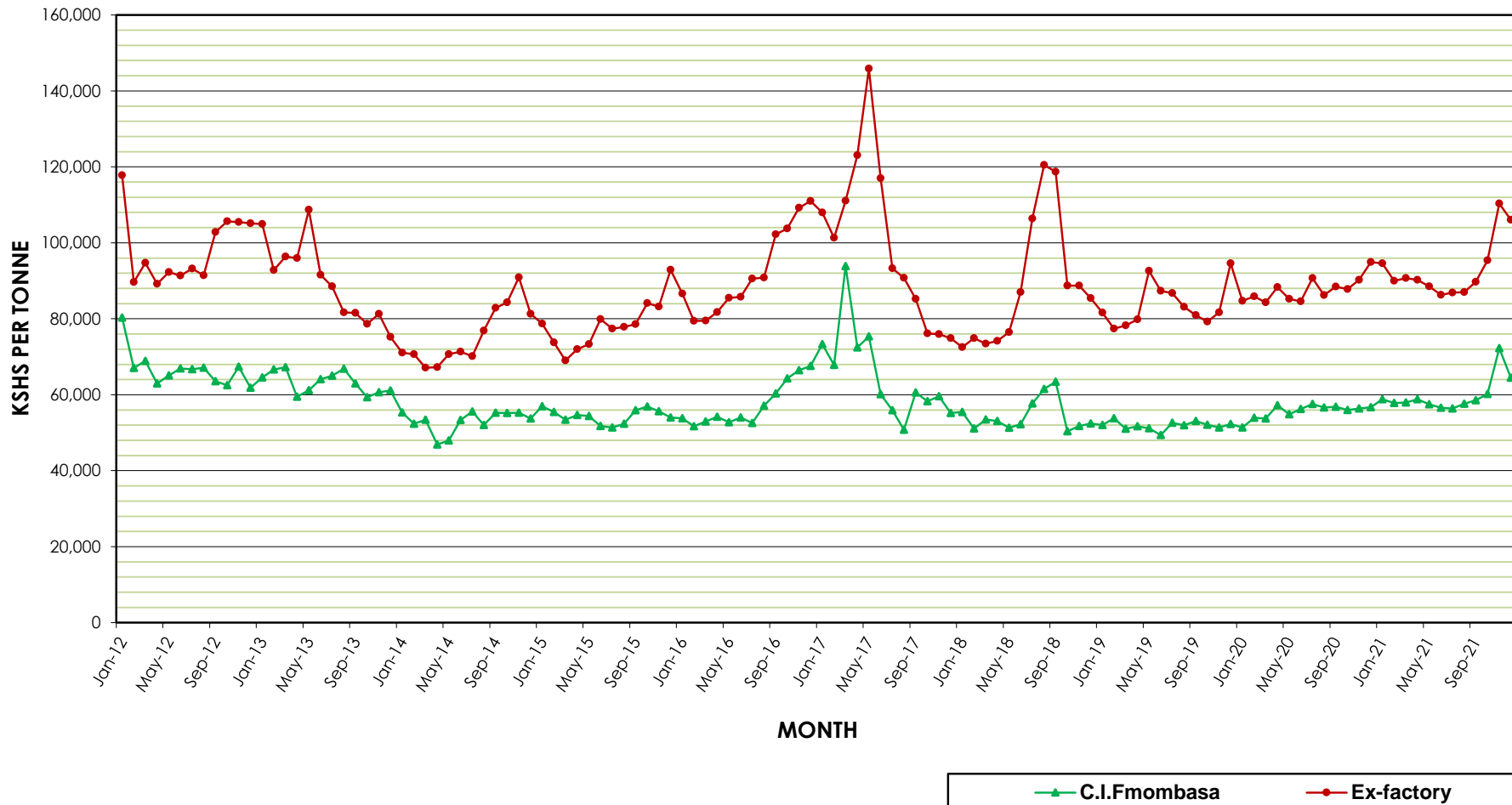
**FIGURE VI**

**C.I.F VALUE OF IMPORTED MILL WHITE/BROWN SUGAR (MOMBASA) AGAINST EX-FACTORY PRICES IN 2015- 2021**



**FIGURE VII**

**MONTHLY UNIT C.I.F VALUE OF IMPORTED MILL WHITE/BROWN AND WHITE REFINED SUGAR (MOMBASA)  
AGAINST EX-FACTORY PRICES IN 2012 - 2021**



**FIGURE VIII (a)**

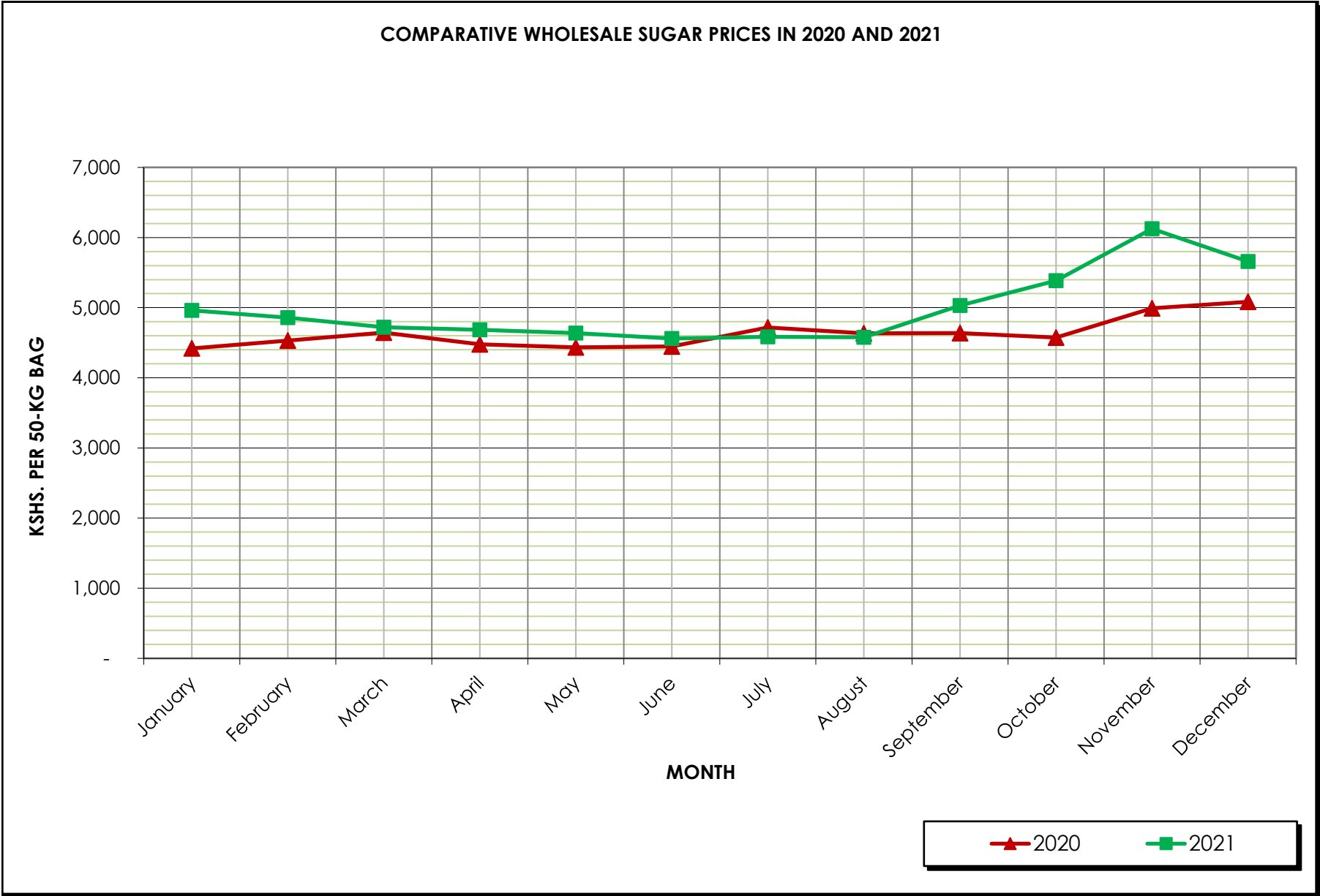
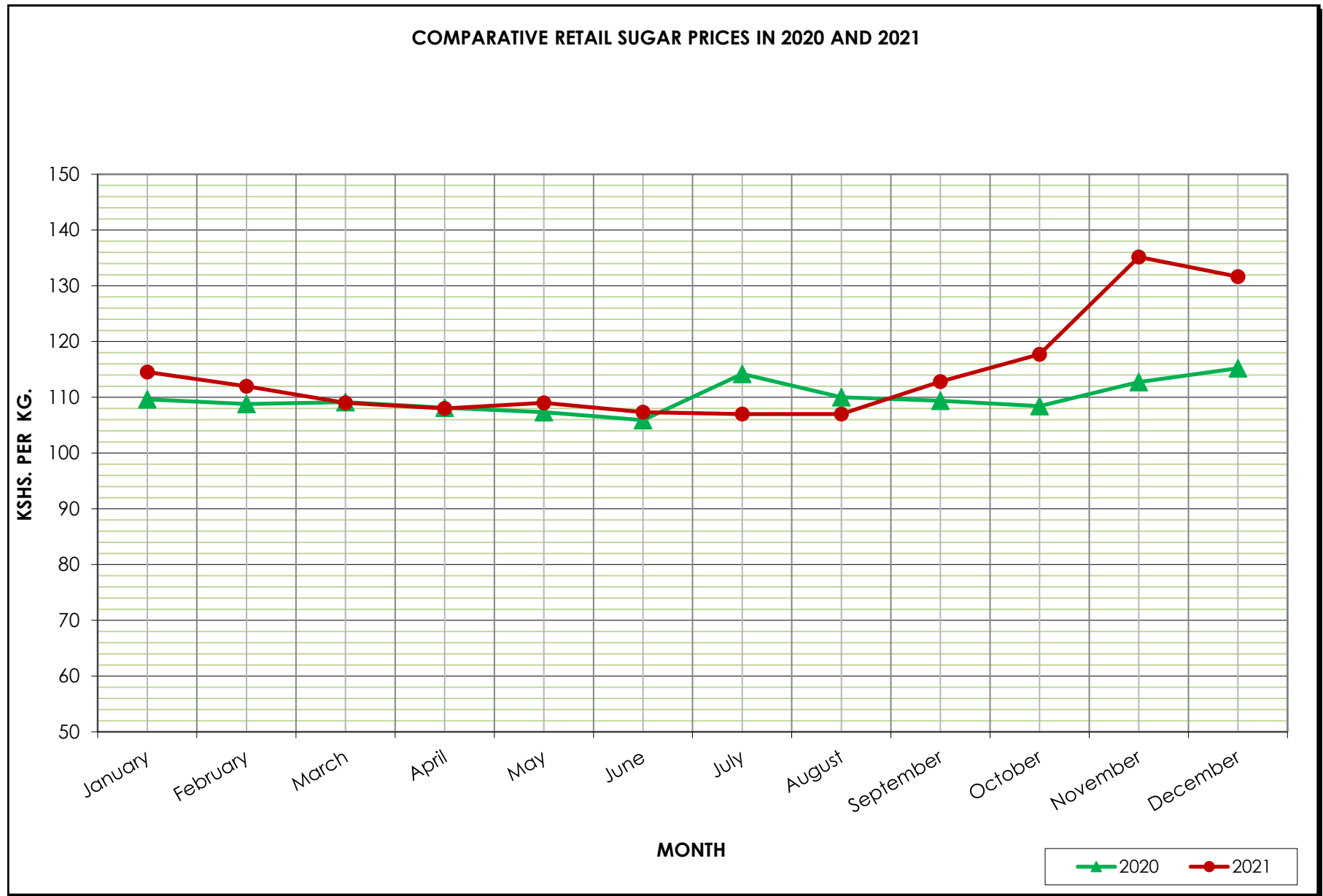


FIGURE VIII (b)





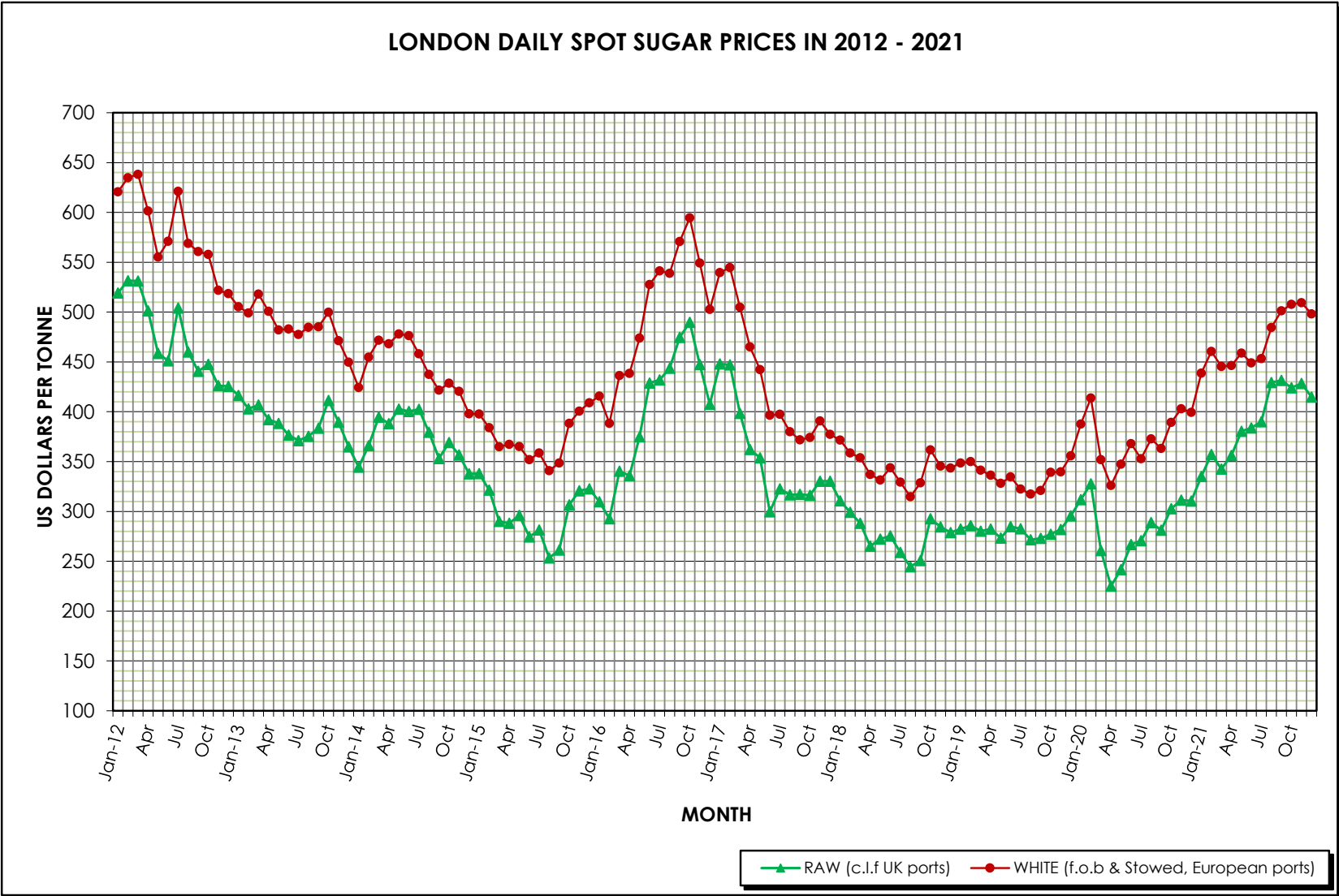
**FIGURE IX (a)**



**FIGURE IX (b)**



FIGURE X



**TABLE 1: SUGAR PRODUCTION, CONSUMPTION, IMPORTS AND EXPORTS ; 2005 - 2021 (METRIC TONNES)**

<b>YEAR</b>	<b>PRODUCTION</b>	<b>CONSUMPTION</b>	<b>IMPORTS</b>	<b>EXPORTS</b>
2005	488,997	695,622	167,235	21,760
2006	475,670	718,396	166,280	13,533
2007	520,404	741,190	229,999	20,842
2008	517,667	751,523	218,598	44,332
2009	548,207	762,027	184,531	1,952
2010	523,652	772,731	258,578	47
2011	490,210	783,660	139,076	16,716
2012	493,937	794,844	238,589	434
2013	600,179	841,957	238,046	104
2014	592,668	860,084	192,121	356
2015	635,674	889,233	247,389	54
2016	639,741	978,746	334,109	98
2017	376,111	997,944	989,619	406
2018	491,097	1,008,703	284,169	1,966
2019	440,935	1,039,729	458,631	775
2020	603,788	1,072,414	442,393	375
2021	700,241	1,104,443	426,334	1,196

**NB: All the Consumption figures are estimates**

**TABLE 2: SUGAR BALANCE 2012 - 2021 (METRIC TONNES)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. INITIAL STOCKS HELD BY SUGAR FACTORIES	9,539	7,493	19,386	12,562	7,772	2,876	11,670	8,114	11,703	3,669
2. PRODUCTION	493,937	600,179	592,668	635,674	639,741	376,111	491,097	440,935	603,788	700,241
3. IMPORTS	238,589	238,046	192,121	247,389	334,109	989,619	284,169	458,631	442,393	426,334
4. TOTAL AVAILABILITY (1+2+3)	742,065	845,718	804,175	895,625	981,622	1,368,606	786,936	907,680	1,057,884	1,130,244
5. CONSUMPTION	794,844	841,957	860,084	889,233	978,746	997,944	1,008,703	1,039,729	1,072,414	1,104,443
6. EXPORTS	434	104	356	54	98	406	1,966	775	375	1,196
7. TOTAL DISPOSAL (5+6)	795,278	842,061	860,440	889,287	978,844	998,350	1,014,365	1,039,492	1,040,966	1,105,639
8. CLOSING STOCKS HELD BY SUGAR FACTORIES	7,493	19,386	12,562	7,772	2,876	11,670	8,114	11,703	3,669	6,278

**NOTE***Sugar Consumption figures are provisional*

**TABLE 3: COMPARATIVE SUGAR PRODUCTION AND DISPOSAL IN 2020 AND 2021 (TONNES)**

FACTORY	PRODUCTION				DISPOSAL					
	QUANTITY		% OF TOTAL		SALES		WASTAGE		TOTAL	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
MUHORONI	17,464	19,711	2.89	2.81	17,385	19,537	0	0	17,385	19,537
CHEMELIL	24,328	21,681	4.03	3.10	24,279	21,611	0	0	24,279	21,611
MUMIAS	-	-	0.00	0.00	0	0	0	0	-	-
NZOA	26,977	21,015	4.47	3.00	23,627	20,971	0	0	23,627	20,971
SOUTH NYANZA	13,908	32,786	2.30	4.68	13,900	32,726	0	0	13,900	32,726
WEST KENYA	151,852	188,512	25.15	26.92	156,401	187,993	0	0	156,401	187,993
KIBOS	85,339	68,139	14.13	9.73	85,654	67,420	0	0	85,654	67,420
BUTALI	87,227	79,787	14.45	11.39	90,189	79,030	0	0	90,189	79,030
TRANSMARA	78,761	107,233	13.04	15.31	80,828	105,267	0	0	80,828	105,267
SUKARI	63,146	96,156	10.46	13.73	63,158	95,405	0	0	63,158	95,405
KWALE	10,875	1,477	1.80	0.21	8,716	4,025	0	0	8,716	4,025
OLEPITO	11,933	15,741	1.98	2.25	12,292	14,971	0	0	12,292	14,971
BUSIA	31,978	48,003	5.30	6.86	31,960.00	46,392	0	0	31,960	46,392
<b>TOTAL</b>	<b>603,788</b>	<b>700,241</b>	<b>100</b>	<b>100</b>	<b>608,389</b>	<b>695,348</b>	<b>-</b>	<b>-</b>	<b>608,389</b>	<b>695,348</b>

**TABLE 4: CANE AND SUGAR PRICES IN 2005 - 2021**

YEAR	CANE PRICE (KSHS / TONNE)	BROWN/MILL WHITE SUGAR	
		EX-FACTORY PRICE (KSHS / TONNE)	CONSUMER PRICE (KSHS / KG)
2005	Range (1,750-2,342): mean 1,910	Range (46,400 - 61,000): Mean 50,900	Range (50 - 100): Mean 64.80
2006	Range (1,900-2,711): mean 2,002	Range (49,500 - 61,560): Mean 53,540	Range (49 - 110): Mean 64.40
2007	Range (2,000-2,500): mean 2,250	Range (54,000-66,000): Mean 57,063	Range (58-105): Mean 71.22
2008	Range (2,102-2,712): mean 2,400	Range (49,160-62,220): Mean 55,240	Range (50-95): Mean 69.35
2009	Range (2,000 - 3,213): mean 2,739	Range (54,000 - 90,000): Mean 72,920	Range (60 - 120): Mean 89.35
2010	Range (2,525 - 3,360): mean 3,094	Range (73,000 - 86,000): Mean 79,580	Range (80 - 120): Mean 97.43
2011	Range (2,600 - 4,500): mean 3,487	Range (70,000 - 190,000): Mean 104,060	Range (78 - 250): Mean 135.00
2012	Range (3,193 - 4,800): mean 3,792	Range (78,000 - 155,000): Mean 98,220	Range (94 - 190): Mean 122.44
2013	Range (3,200 - 3,900): mean 3,685	Range (74,000 - 122,000): Mean 89,780	Range (90 - 160): Mean 122.85
2014	Range (2,900 - 3,585): mean 3,133	Range (58,000 - 102,000): Mean 75,360	Range (75 - 140): Mean 108.63
2015	Range (2,700 - 3,275): mean 3,125	Range (80,000 - 100,000): Mean 92,900	Range (98 - 140): Mean 113.30
2016	Range (2,700 - 4,200): mean 3,387	Range (70,000 - 116,000): Mean 92,180	Range (85 - 170): Mean 115.60
2017	Range (3,500 - 4,700): mean 4,237	Range (72,000 - 170,000): Mean 100,200	Range (80 - 255): Mean 132
2018	Range (3,700 - 4,310): mean 3,988	Range (68,000 - 132,000): Mean 88,920	Range (75 - 200): Mean 118
2019	Range (3,500 - 4,310): mean 3,815	Range (72,000 - 100,000): Mean 83,620	Range (85 - 170): Mean 110
2020	Range (3,500 - 4,310): mean 3,707	Range (80,000 - 108,840): Mean 87,612	Range (90 - 190): Mean 110
2021	Range (3,500 - 4,112): mean 3,910	Range (84,000 - 122,000): Mean 92,900	Range (90 - 180): Mean 114

**TABLE 5: MOLASSES PRODUCTION AND DISPOSAL; 2012 - 2021 (TONNES)**

YEAR	PRODUCTION	DISPOSAL		
		DOMESTIC SALES	EXPORTS	TOTAL
2012	222,836	217,704	-	217,704
2013	241,561	204,384	-	204,384
2014	227,135	187,636	-	187,636
2015	251,642	215,399	-	215,399
2016	264,732	240,738	-	240,738
2017	192,717	184,116	-	184,116
2018	211,064	193,694	-	193,694
2019	186,257	189,038	-	189,038
2020	269,772	262,792	-	262,792
2021	295,574	304,088	-	304,088



**TABLE 6: COMPARATIVE MOLASSES PRODUCTION AND DISPOSAL IN 2020 AND 2021 (TONNES)**

FACTORY	PRODUCTION		DISPOSAL							
			DOMESTIC SALES		EXPORTS		WASTAGES		TOTAL	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
MUHORONI	11,314	13,231	11,218	13,947	0	0	0	0	11,218	13,947
CHEMELIL	11,632	14,173	11,249	14,197	0	0	0	0	11,249	14,197
MUMIAS	-	-	-	-	0	0	0	0	0	0
NZOIA	13,719	12,916	14,303	12,356	0	0	0	0	14,303	12,356
SOUTH NYANZA	8,163	16,715	8,391	15,808	0	0	0	0	8,391	15,808
WEST KENYA	64,696	83,200	62,465	83,370	0	0	0	0	62,465	83,370
SOIN	-	-	-	-	0	0	0	0	0	0
KIBOS	33,614	28,056	34,421	26,485	0	0	0	0	34,421	26,485
BUTALI	31,712	26,214	33,535	26,072	0	0	0	0	33,535	26,072
SUKARI	26,829	39,575	30,388	37,940	0	0	0	0	30,388	37,940
TRANSMARA	29,572	35,035	30,917	33,836	0	0	0	0	30,917	33,836
KWALE	19,791	2,411	7,302	15,771	0	0	0	0	7,302	15,771
OLEPITO	6,693	7,708	7,087	7,628	0	0	0	0	7,087	7,628
BUSIA	12,037	16,340	11,516	16,678	0	0	0	0	11,516	16,678
<b>TOTAL</b>	<b>269,772</b>	<b>295,574</b>	<b>262,792</b>	<b>304,088</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>262,792</b>	<b>304,088</b>

**TABLE 7: WAGE EMPLOYMENT IN SUGAR INDUSTRY; 2012 - 2021**

<b>YEAR</b>	<b>SUGAR PLANTATION</b>	<b>SUGAR FACTORIES</b>	<b>TOTAL</b>
2012	2,305	6,056	8,361
2013	2,289	5,718	8,007
2014	2,289	5,718	8,007
2015	1,973	5,767	7,740
2016	1,955	6,431	8,386
2017	1,922	5,870	7,792
2018	2,009	6,043	8,052
2019	1,463	5,239	6,702
2020	1,463	5,239	6,702
2021	1,463	5,239	6,702

*NB. In addition to the regular employees, there were casual workers as indicated below:-*

<u>YEAR</u>	<u>NO.</u>	<u>YEAR</u>	<u>NO.</u>	<u>YEAR</u>	<u>NO.</u>	<u>YEAR</u>	<u>NO.</u>
2011	5,098	2014	6,902	2017	14,603	2020**	8,288
2012	7,909	2015	8,948	2018	8,894	2021**	8,289
2013	6,891	2016	10,798	2019	8,288		

**\*\* provisional**

**TABLE 8: AREA UNDER SUGARCANE BY VARIETY AS AT 31<sup>ST</sup> DECEMBER, 2021**

<b>SN</b>	<b>VARIETY</b>	<b>OUTGROWERS' FARMS (HA)</b>	<b>NUCLEUS ESTATE (HA)</b>	<b>TOTAL (HA)</b>	<b>% COVERAGE</b>
1	CO 421	88,968	2,196	91,163	40.88
2	CO 945	57,027	2,416	59,443	26.66
3	CO 617	32,904	2,295	35,199	15.78
4	OTHERS	7,331	1,068	8,399	3.77
5	N 14	5,573	411	5,984	2.68
6	D 84 84	4,715	516	5,231	2.35
7	MIXED	3,968	236	4,204	1.89
8	KEN 83-737	2,847	993	3,840	1.72
9	CB 38/22	1,680	1,916	3,596	1.61
10	KEN 82 808	651	1,256	1,908	0.86
11	FR 95 2345	1,301	73	1,374	0.62
12	KEN 82 472	1,096	21	1,117	0.50
13	EAK 90 97	7	361	368	0.17
14	CO 331	297	-	297	0.13
15	CO 1148	250	30	279	0.13
16	EAK 73 335	83	143	227	0.10
17	MS 98 21	7	180	187	0.08
18	EAK 70 76	58	52	110	0.05
19	KEN 82 601	-	30	30	0.01
20	KEN 82 493	14	-	14	0.01
21	KEN 82 216	5	3	8	0.00
22	MS 2001 1100	-	7	7	0.00
23	KEN 98 533	4	3	7	0.00
24	KEN 82 062	-	3	3	0.00
	<b>TOTAL</b>	<b>208,788</b>	<b>14,209</b>	<b>222,997</b>	<b>100.00</b>

**TABLE 9: AREA UNDER SUGARCANE AS AT 31ST DECEMBER; 2012 - 2021 (HECTARES)**

COMPANY	FARMS	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
CHEMELIL	NUCLEUS ESTATE	1,597	1,526	1,544	1,597	1,541	1,591	1,611	1,494	1,434	1,729
	OUTGROWERS	15,635	14,731	16,972	16,604	16,188	15,929	15,394	15,411	16,752	16,283
	TOTAL	17,232	16,257	18,516	18,201	17,729	17,520	17,005	16,905	18,186	18,012
MUHORONI	NUCLEUS ESTATE	1,600	1,733	2,035	1,893	1,812	1,574	1,415	1,179	965	1,043
	OUTGROWERS	13,916	16,573	16,864	16,043	14,621	13,440	12,435	12,005	12,810	14,239
	TOTAL	15,516	18,306	18,899	17,936	16,433	15,014	13,850	13,184	13,775	15,282
MUMIAS	NUCLEUS ESTATE	3,471	3,245	3,387	3,385	3,112	1,244	2,377	1,925	198	274
	OUTGROWERS	49,175	43,726	36,300	33,546	40,145	20,294	10,657	-	-	-
	TOTAL	52,646	46,971	39,687	36,931	43,257	21,538	13,034	1,925	198	274
NZOIA	NUCLEUS ESTATE	3,229	3,304	3,369	3,360	3,124	3,158	3,007	2,788	2,754	2,400
	OUTGROWERS	23,781	25,124	25,252	25,815	21,057	21,517	17,077	15,258	16,021	16,518
	TOTAL	27,010	28,428	28,621	29,175	24,181	24,675	20,084	18,046	18,775	18,918
SOUTH NYANZA	NUCLEUS ESTATE	2,244	2,063	2,347	2,360	2,364	2,386	2,327	2,236	2,269	2,291
	OUTGROWERS	15,837	16,129	15,590	16,183	11,105	10,840	9,270	7,877	6,690	6,512
	TOTAL	18,081	18,192	17,937	18,543	13,469	13,226	11,597	10,113	8,959	8,803
MIWANI	NUCLEUS ESTATE	1,099	1,513	1,663	1,826	2,122	1,982	1,944	1,938	1,900	1,615
	OUTGROWERS	3,564	3,833	2,175	2,464	1,586	1,669	2,073	-	-	-
	TOTAL	4,663	5,346	3,838	4,290	3,708	3,651	4,017	1,938	1,900	1,615
KIBOS	NUCLEUS ESTATE	576	646	675	710	721	727	719	694	635	682
	OUTGROWERS	4,349	4,394	5,683	6,142	4,469	5,219	5,558	7,319	6,758	7,405
	TOTAL	4,925	5,040	6,358	6,852	5,190	5,946	6,277	8,013	7,393	8,087
BUTALI	NUCLEUS ESTATE	-	-	-	-	-	-	-	-	-	-
	OUTGROWERS	25,360	27,515	26,011	29,604	29,446	18,487	15,526	14,913	19,749	24,021
	TOTAL	25,360	27,515	26,011	29,604	29,446	18,487	15,526	14,913	19,749	24,021
SOIN	NUCLEUS ESTATE	-	-	-	-	-	-	-	-	-	-
	OUTGROWERS	1,421	1,430	1,545	1,813	1,773	1,744	1,825	1,822	1,915	2,799
	TOTAL	1,421	1,430	1,545	1,813	1,773	1,744	1,825	1,822	1,915	2,799
WEST KENYA	NUCLEUS ESTATE	-	-	-	-	-	-	-	-	-	-
	OUTGROWERS	21,215	24,871	24,871	28,178	28,686	29,721	38,868	46,716	48,011	59,048
	TOTAL	21,215	24,871	24,871	28,178	28,686	29,721	38,868	46,716	48,011	59,048
BUSIA	NUCLEUS ESTATE	-	-	-	-	-	-	83	77	93	118
	OUTGROWERS	-	-	-	-	-	7,501	15,860	14,901	12,765	10,899
	TOTAL	-	-	-	-	-	7,501	15,943	14,978	12,858	11,017
TRANSMARA	NUCLEUS ESTATE	324	93	93	93	93	30	12	31	39	24
	OUTGROWERS	9,257	11,960	15,121	16,499	17,216	11,317	14,946	15,044	15,269	16,956
	TOTAL	9,581	12,053	15,214	16,592	17,310	11,347	14,958	15,075	15,308	16,980
SUKARI	NUCLEUS ESTATE	-	-	-	-	-	-	297	130	-	-
	OUTGROWERS	6,424	9,511	9,845	9,154	10,873	6,419	11,689	15,317	17,710	21,251
	TOTAL	6,424	9,511	9,845	9,154	10,873	6,419	11,986	15,447	17,710	21,251
KWALE	NUCLEUS ESTATE	-	-	-	3,710	4,532	4,791	4,791	4,791	3,501	3,853
	OUTGROWERS	-	-	-	2,626	4,239	4,686	4,697	4,697	3,262	3,434
	TOTAL	-	-	-	6,336	8,771	9,477	9,488	9,488	6,763	7,287
OLEPITO	NUCLEUS ESTATE	-	-	-	-	-	-	-	28	5	6
	OUTGROWERS	-	-	-	-	-	4,949	7,942	8,847	9,008	9,606
	TOTAL	-	-	-	-	-	4,949	7,942	8,875	9,013	9,612
ALL COMPANIES	NUCLEUS ESTATE	14,140	14,123	15,113	18,934	19,422	17,483	18,583	17,311	13,793	14,035
	OUTGROWERS	189,934	199,797	196,229	204,671	201,405	173,732	183,817	180,127	186,720	208,971
	TOTAL	204,074	213,920	211,342	223,605	220,827	191,215	202,400	197,438	200,513	223,006

**NB:**

1. Olepita Sugar Company started operations in December 2017.
2. Busia Sugar Co. is a new factory established in 2017 and begin operations in March 2019.
3. Transmara and Sukari Industries began operations in December 2011

**TABLE 10: AREA UNDER SUGAR CANE BY COUNTY AND NUMBER OF CANE FARMERS; DECEMBER 2020 AND 2021**

COUNTY	AREA UNDER CANE (HA)		NUMBER OF FARMERS, DECEMBER 2020	NUMBER OF FARMERS, DECEMBER 2021	% AREA UNDER CANE CONTRIBUTION		% INCREASE IN NUMBER OF FARMERS IN 2021 VS 2020
	2020	2021			2020	2021	
KAKAMEGA	37,207	44,268	66,421	74,422	18.56	19.85	12.05
BUNGOMA	38,688	39,430	69,378	73,731	19.29	17.68	6.27
KISUMU	27,702	28,673	19,097	20,412	13.82	12.86	6.89
NAROK	15,275	18,524	17,017	16,637	7.62	8.31	-2.23
BUSIA	17,777	17,221	26,802	24,954	8.87	7.72	-6.90
NANDI	14,538	17,175	11,161	12,696	7.25	7.70	13.75
HOMABAY	6,386	14,104	8,042	10,199	3.18	6.32	26.82
KERICHO	7,443	10,625	8,963	10,385	3.71	4.76	15.87
MIGORI	19,514	10,326	22,757	11,143	9.73	4.63	-51.03
TRANS NZOIA	4,604	7,638	555	2,077	2.30	3.43	274.23
KWALE	6,693	7,382	246	245	3.34	3.31	-0.41
UASIN GISHU	3,040	4,049	1,323	2,155	1.52	1.82	62.89
KISII	1,103	2,475	2,203	2,190	0.55	1.11	-0.59
VIHIGA	0	569		1,051	0.00	0.26	N/A
SIAYA	543	539	457	370	0.27	0.24	-19.04
<b>TOTAL</b>	<b>200,513</b>	<b>222,997</b>	<b>254,422</b>	<b>262,667</b>	<b>100.00</b>	<b>100.00</b>	<b>3.24</b>

**TABLE 11: AREA HARVESTED, CANE DELIVERED AND YIELDS BY FACTORY ZONES; 2012- 2021**

COMPANY	ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
CHEMELIL	AREA HARVESTED (HA)	5,324	5,057	8,927	7,148	4,967	4,220	4,971	1,143	6,956	7,134
	CANE DELIVERED (TC)	294,423	251,450	466,754	368,678	268,438	198,105	226,481	42,587	349,343	347,844
	YIELDS (TC / HA)	49.89	44.60	48.77	48.75	49.52	43.69	43.44	43.44	36.27	46.65
MUHORONI	AREA HARVESTED (HA)	5,319	5,497	7,174	5,763	4,902	5,217	2,641	4,294	5,403	5,274
	CANE DELIVERED (TC)	437,172	329,001	492,998	339,631	305,682	307,301	215,325	210,514	285,154	317,592
	YIELDS (TC / HA)	56.47	49.99	59.00	48.80	49.68	46.50	30.87	38.98	48.48	50.78
MUMIAS	AREA HARVESTED (HA)	41,109	36,043	20,327	10,130	10,979	5,951	2,175	0	0	0
	CANE DELIVERED (TC)	1,938,681	1,825,743	1,243,433	1,298,329	822,843	314,093	136,586	0	0	0
	YIELDS (TC / HA)	42.66	45.52	46.75	49.03	34.97	34.43	37.79	N/A	N/A	N/A
NZOIA	AREA HARVESTED (HA)	13,062	13,111	9,655	9,137	13,290	9,891	8,230	4,191	7,136	6,137
	CANE DELIVERED (TC)	738,433	742,057	695,988	685,930	786,117	464,832	393,429	184,254	433,446	350,133
	YIELDS (TC / HA)	56.19	55.96	72.09	75.07	59.15	46.99	47.80	43.96	60.74	57.05
SOUTH NYANZA	AREA HARVESTED (HA)	6,773	7,756	7,545	5,214	7,437	6,845	6,464	2,780	1,285	3,249
	CANE DELIVERED (TC)	553,858	673,120	627,218	550,236	670,136	460,160	490,442	204,701	197,096	422,292
	YIELDS (TC / HA)	70.54	70.62	67.23	81.09	79.86	57.32	63.31	65.64	77.24	90.08
MIWANI	AREA HARVESTED (HA)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CANE DELIVERED (TC)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	YIELDS (TC / HA)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KIBOS	AREA HARVESTED (HA)	2,207	2,081	1,133	3,253	2,789	2,631	2,717	1,916	2,894	3,517
	CANE DELIVERED (TC)	435,947	618,404	469,799	904,508	814,594	677,086	826,404	657,898	937,925	797,758
	YIELDS (TC / HA)	64.62	65.86	62.92	67.93	63.37	59.05	63.03	63.48	68.82	69.38
SOIN	AREA HARVESTED (HA)	632	753	257	-	-	-	-	-	-	-
	CANE DELIVERED (TC)	41,227	48,738	16,661	-	-	-	-	-	-	-
	YIELDS (TC / HA)	65.23	64.73	64.83	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUTALI	AREA HARVESTED (HA)	6,217	6,680	7,072	6,729	11,427	7,510	11,204	8,656	13,273	10,977
	CANE DELIVERED (TC)	412,982	418,367	596,929	489,968	842,422	474,868	703,633	562,141	895,794	752,008
	YIELDS (TC / HA)	59.06	60.45	68.45	69.56	65.89	59.74	58.73	61.83	67.49	68.51
WEST KENYA	AREA HARVESTED (HA)	N/A	N/A	-	15,737	14,152	14,121	18,000	22,977	21,366	28,149
	CANE DELIVERED (TC)	593,329	1,022,030	852,046	1,267,331	1,054,964	882,887	934,042	1,054,505	1,430,999	1,943,199
	YIELDS (TC / HA)	N/A	N/A	N/A	74.62	70.95	62.17	51.89	45.89	66.97	69.03
TRANSMARA	AREA HARVESTED (HA)	2,374	4,503	5,584	4,943	4,868	3,255	3,909	4,587	4,561	5,620
	CANE DELIVERED (TC)	178,001	402,480	550,835	525,627	825,342	423,977	576,588	731,840	826,616	1,028,693
	YIELDS (TC / HA)	74.58	84.51	98.65	106.28	102.25	76.06	83.30	95.47	133.16	173.98
SUKARI	AREA HARVESTED (HA)	4,323	4,376	4,504	8,284	6,474	5,357	9,378	12,951	12,337	15,158
	CANE DELIVERED (TC)	199,911	342,335	397,268	614,033	467,216	345,421	533,988	633,230	624,235	973,980
	YIELDS (TC / HA)	45.14	68.86	66.10	51.26	55.01	60.84	56.78	48.89	50.60	64.26
KWALE	AREA HARVESTED (HA)	N/A	N/A	-	1,492.48	4,476.31	2,710.00	2,390.00	319.00	5,832.60	1,331.00
	CANE DELIVERED (TC)	N/A	N/A	-	120,519.00	293,915.85	202,875	179,914	18,878	268,861	30,042
	YIELDS (TC / HA)	N/A	N/A	N/A	80.75	65.66	74.86	75.28	59.18	46.10	22.57
OLEPITO	AREA HARVESTED (HA)	N/A	N/A	-	-	-	-	1,000.00	3,422.40	3,229	3,498
	CANE DELIVERED (TC)	N/A	N/A	-	-	-	-	45,325.00	130,520.00	150,556	188,468
	YIELDS (TC / HA)	N/A	N/A	N/A	N/A	N/A	N/A	45.33	37.83	46.62	53.88
BUSIA	AREA HARVESTED (HA)	N/A	N/A	-	-	-	-	-	4,287.80	5,405.90	3,242
	CANE DELIVERED (TC)	N/A	N/A	-	-	-	-	-	174,034.00	410,871.20	507,111
	YIELDS (TC / HA)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	37.27	46.37	52.85
ALL COMPANIES	AREA HARVESTED (HA)	87,340	85,857	72,180	77,830	85,761	67,709	73,080	71,525	89,680	93,288
	CANE DELIVERED (TC)	5,823,964	6,673,725	6,409,929	7,164,790	7,151,670	4,751,605	5,262,157	4,605,102	6,810,898	7,659,120
	YIELDS (TC / HA)	51.00	54.67	61.41	66.41	62.21	55.34	55.13	51.26	61.85	69.95

**NOTE 1** Some factories received cane from non-contracted farmers, mainly from neighbouring factory zones as follows:-

ZONE	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
CHEMELIL	28,806	25,924	31,414	20,237	22,504	13,725	10,531	1,135	24,867	13,607
MUHORONI	136,804	54,205	69,599	58,382	62,137	64,688	133,782	43,112	23,196	49,691
MIWANI	0	0	0	0	0	0	0	0	0	0
SOUTH NYANZA	76,109	125,416	119,972	127,417	76,240	67,836	81,234	22,232	97,826	129,615
NZOIA	4,492	8,369	-	-	-	-	-	-	-	-
MUMIAS	185,021	184,973	293,144	801,674	438,923	109,206	54,400	0	0	0
KIBOS	293,337	481,343	398,511	683,518	637,828	521,714	655,145	536,284	738,792	553,751
SOIN	-	-	-	-	-	-	-	-	-	-
BUTALI	45,827	14,588	112,834	21,899	89,533	26,214	45,595	26,906	-	-
WEST KENYA	593,329	1,022,030	852,046	92,992	50,842	5,020	-	-	-	-
SUKARI	4,762	41,003	99,548	189,388	111,084	19,506	1,489	-	-	-
TRANSMARA	957	21,951	-	270	327,634	176,395	250,961	293,916	219,292	50,881
KWALE	-	-	N/A	-	-	-	-	-	-	-
OLEPITO	-	-	-	-	-	-	-	1,038	-	-
BUSIA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14,215	160,195	335,769
<b>TOTAL</b>	<b>1,369,444</b>	<b>1,979,802</b>	<b>1,977,068</b>	<b>1,995,777</b>	<b>1,816,726</b>	<b>1,004,304</b>	<b>1,233,137</b>	<b>938,838</b>	<b>1,264,169</b>	<b>1,133,314</b>

**NOTE 2** a) Transmara and Sukari Industries began operations in December 2011

b) Olepito began operations in December 2017, while Busia Sugar Co. in March 2019

c) West Kenya data on cane deliveries for the years yield is not established is equated to cane crushed as actual statistics on deliveries and area harvested were not obtained.

**TABLE 12: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT CHEMELIL SUGAR CO. LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	17,232	16,257	18,516	18,201	17,729	17,520	17,005	16,905	18,186	18,012
1.1 NUCLEUS ESTATE	1,597	1,526	1,544	1,597	1,541	1,591	1,611	1,494	1,434	1,729
1.2 OUTGROWERS	15,635	14,731	16,972	16,604	16,188	15,929	15,394	15,411	16,752	16,283
2. AREA HARVESTED (HA)	5,324	5,057	8,927	7,148	4,967	4,220	4,971	1,143	6,956	7,134
2.1 NUCLEUS ESTATE	1,057	930	890	1,238	915	1,184	1,051	522	1,092	924
2.2 OUTGROWERS	4,267	4,127	8,037	5,910	4,052	3,036	3,920	621	5,864	6,210
3. PERCENTAGE HARVESTED (%)	30.90	31.11	48.21	39.27	28.02	24.09	29.23	6.76	38.25	39.61
3.1 NUCLEUS ESTATE	66.19	60.94	57.64	77.52	59.34	74.42	65.23	34.94	76.15	53.44
3.2 OUTGROWERS	27.29	28.02	47.35	35.59	25.03	19.06	25.46	4.03	35.00	38.14
4. SUGARCANE DELIVERIES (TC)	294,423	251,450	466,754	368,678	268,438	198,105	226,481	42,587	349,343	347,844
4.1 NUCLEUS ESTATE	50,350	37,371	36,635	51,407	42,541	40,045	33,916	11,709	42,724	34,427
4.2 OUTGROWERS	244,073	214,079	430,119	317,271	225,897	158,060	192,565	30,878	306,619	313,417
5. YIELDS (TC / HA)	49.89	44.60	48.77	48.75	49.52	43.69	43.44	36.27	46.65	46.85
5.1 NUCLEUS ESTATE	47.63	40.18	41.16	41.52	46.52	33.82	32.28	22.43	39.12	37.26
5.2 OUTGROWERS	50.45	45.59	49.61	50.26	50.19	47.54	46.44	47.90	48.05	48.28

**NB. Outgrower cane supply includes deliveries from non-contracted farmers as given below;**

YEAR	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
QUANTITY (Tonnes)	28,806	25,924	31,414	20,237	22,504	13,725	10,531	1,135	24,867	13,607

**TABLE 13: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT MUHORONI SUGAR CO. LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	15,516	18,306	18,899	17,936	16,433	15,014	13,850	13,184	13,775	15,282
1.1 NUCLEUS ESTATE	1,600	1,733	2,035	1,893	1,812	1,574	1,415	1,179	965	1,043
1.2 OUTGROWERS	13,916	16,573	16,864	16,043	14,621	13,440	12,435	12,005	12,810	14,239
2. AREA HARVESTED (HA)	5,319	5,497	7,176	5,763	4,902	5,217	2,641	4,294	5,403	5,276
2.1 NUCLEUS ESTATE	839	963	1,343	891	1,036	788	791	735	530	1,002
2.2 OUTGROWERS	4,480	4,534	5,833	4,872	3,866	4,429	1,850	3,559	4,873	4,274
3. PERCENTAGE HARVESTED (%)	34.28	30.03	37.97	32.13	29.83	34.75	19.07	32.57	39.22	34.52
3.1 NUCLEUS ESTATE	52.44	55.57	66.00	47.07	57.18	50.06	55.90	62.36	54.92	96.07
3.2 OUTGROWERS	32.19	27.36	34.59	30.37	26.44	32.95	14.88	29.65	38.04	30.02
4. SUGARCANE DELIVERIES (TC)	437,172	329,001	492,998	339,631	305,682	307,301	215,325	210,514	285,154	317,592
4.1 NUCLEUS ESTATE	32,295	32,963	49,475	34,025	43,082	23,778	24,225	14,481	16,326	18,410
4.2 OUTGROWERS	404,877	296,038	443,523	305,606	262,600	283,523	191,100	196,033	268,828	299,182
5. YIELDS (TC / HA)	56.47	49.99	59.00	48.80	49.68	46.50	30.87	38.98	48.48	50.78
5.1 NUCLEUS ESTATE	38.49	34.23	36.84	38.19	41.58	30.18	30.63	19.69	30.80	18.37
5.2 OUTGROWERS	59.84	53.34	64.10	50.74	51.85	49.41	30.98	42.96	50.41	58.37

*Outgrower cane supply includes deliveries from non-contracted farmers. The details are given below:*

YEAR	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
QUANTITY (T)	136,804	54,205	69,599	58,382	62,137	64,688	133,782	43,112	23,196	49,691



**TABLE 14: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT MUMIAS SUGAR CO. LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	52,646	46,971	39,687	36,931	43,257	21,538	13,034	1,925	198	274
1.1 NUCLEUS ESTATE	3,471	3,245	3,387	3,385	3,112	1,244	2,377	1,925	198	274
1.2 OUTGROWERS	49,175	43,726	36,300	33,546	40,145	20,294	10,657	0	0	0
2. AREA HARVESTED (HA)	41,109	36,043	20,327	10,130	10,979	5,951	2,175	-	-	-
2.1 NUCLEUS ESTATE	2,844	2,470	1,911	1,465	2,241	1,936	86	0	0	0
2.2 OUTGROWERS	38,265	33,573	18,416	8,665	8,738	4,015	2,089	0	0	0
3. PERCENTAGE HARVESTED (%)	78.09	76.73	51.22	27.43	25.38	27.63	16.69	-	-	-
3.1 NUCLEUS ESTATE	81.94	76.12	56.42	43.28	72.01	155.63	3.62	-	-	-
3.2 OUTGROWERS	77.81	76.78	50.73	25.83	21.77	19.78	19.60	N/A	N/A	N/A
4. SUGARCANE DELIVERIES (TC)	1,938,681	1,825,743	1,243,433	1,298,329	822,843	314,093	136,586	0	0	0
4.1 NUCLEUS ESTATE	152,971	129,515	90,717	66,142	68,124	60,893	2,073	0	0	0
4.2 OUTGROWERS	1,785,710	1,696,228	1,152,716	1,232,187	754,719	253,200	134,513	0	0	0
5. YIELDS (TC / HA)	42.66	45.52	46.75	49.03	34.97	34.43	37.79	N/A	N/A	N/A
5.1 NUCLEUS ESTATE	53.79	52.44	47.47	45.14	30.40	31.45	24.10	N/A	N/A	N/A
5.2 OUTGROWERS	41.83	45.01	46.68	49.69	36.14	35.86	38.35	N/A	N/A	N/A

**NB. Outgrower cane supply includes deliveries from non-contracted farmers and the Busia zone. The break down is shown below:-**

YEAR	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
QUANTITY (T)	185,021	184,973	293,144	801,674	438,923	109,206	54,400	-	0	-

**TABLE 15: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT NZOIA SUGAR CO. LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	27,010	28,428	28,621	29,175	24,181	24,675	20,084	18,046	18,775	18,918
1.1 NUCLEUS ESTATE	3,229	3,304	3,369	3,360	3,124	3,158	3,007	2,788	2,754	2,400
1.2 OUTGROWERS	23,781	25,124	25,252	25,815	21,057	21,517	17,077	15,258	16,021	16,518
2. AREA HARVESTED (HA)	13,062	13,111	9,655	9,137	13,290	9,891	8,230	4,191	7,136	6,137
2.1 NUCLEUS ESTATE	2,645	1,520	1,651	1,271	2,405	2,008	2,043	1,755	1,333	1,371
2.2 OUTGROWERS	10,417	11,591	8,004	7,866	10,885	7,884	6,187	2,436	5,803	4,766
3. PERCENTAGE HARVESTED (%)	48.36	46.12	33.73	31.32	54.96	40.09	40.98	23.22	38.01	32.44
3.1 NUCLEUS ESTATE	81.91	46.00	49.01	37.83	76.98	63.57	67.94	62.95	48.42	57.13
3.2 OUTGROWERS	43.80	46.14	31.70	30.47	51.69	36.64	36.23	15.97	36.22	28.85
4. SUGARCANE DELIVERIES (TC)	738,433	742,057	695,988	685,930	786,117	464,832	393,429	184,254	433,446	350,133
4.1 NUCLEUS ESTATE	159,738	103,836	117,605	95,391	146,388	106,796	93,962	63,296	70,607	53,286
4.2 OUTGROWERS	578,695	638,221	578,383	590,539	639,730	358,037	299,467	120,958	362,839	296,847
5. YIELDS (TC / HA)	56.19	55.96	72.09	75.07	59.15	46.99	47.80	43.96	60.74	57.05
5.1 NUCLEUS ESTATE	60.39	68.31	71.23	75.05	60.87	53.20	45.99	36.07	52.95	38.87
5.2 OUTGROWERS	55.12	54.34	72.26	75.07	58.77	45.41	48.40	49.65	62.53	62.28

**NB: Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-**

YEAR	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
QUANTITY (T)	4,492	8,369	-	-	-	-	-	-	-	-

**TABLE 16: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT SOUTH NYANZA SUGAR CO. LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	18,081	18,192	17,937	18,543	13,469	13,226	11,597	10,113	8,959	8,803
1.1 NUCLEUS ESTATE	2,244	2,063	2,347	2,360	2,364	2,386	2,327	2,236	2,269	2,291
1.2 OUTGROWERS	15,837	16,129	15,590	16,183	11,105	10,840	9,270	7,877	6,690	6,512
2. AREA HARVESTED (HA)	6,773	7,756	7,545	5,214	7,437	6,845	6,464	2,780	1,285	3,249
2.1 NUCLEUS ESTATE	1,323	1,333	1,063	1,051	1,113	1,577	1,508	1,357	608	1,122
2.2 OUTGROWERS	5,450	6,423	6,482	4,163	6,323	5,268	4,956	1,423	677	2,127
3. PERCENTAGE HARVESTED (%)	37.46	42.63	42.06	28.12	55.21	51.75	55.74	27.49	14.35	36.91
3.1 NUCLEUS ESTATE	58.96	64.61	45.29	44.53	47.09	66.09	64.80	60.69	26.80	48.97
3.2 OUTGROWERS	34.41	39.82	41.58	25.72	56.94	48.60	53.46	18.07	10.12	32.66
4. SUGARCANE DELIVERIES (TC)	553,858	673,120	627,218	550,236	670,136	460,160	490,442	204,701	197,096	422,292
4.1 NUCLEUS ESTATE	85,079	94,263	78,354	81,118	84,356	105,002	100,168	91,892	39,399	66,973
4.2 OUTGROWERS	468,779	578,857	548,864	469,118	585,780	355,158	390,274	112,809	157,697	355,319
5. YIELDS (TC / HA)	70.54	70.62	67.23	81.09	79.86	57.32	63.31	65.64	77.24	90.08
5.1 NUCLEUS ESTATE	64.31	70.71	73.71	77.18	75.78	66.58	66.42	67.72	64.79	59.69
5.2 OUTGROWERS	72.05	70.60	66.17	82.08	80.58	54.54	62.36	63.65	88.43	106.11

**NB: Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-**

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Quantity (T)	76,109	125,416	119,972	127,417	76,240	67,836	81,234	22,232	97,826	129,615

**TABLE 17: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT MIWANI SUGAR CO. LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	4,663	5,346	3,838	4,290	3,708	3,651	4,017	1,938	1,900	1,615
1.1 NUCLEUS ESTATE	1,099	1,513	1,663	1,826	2,122	1,982	1,944	1,938	1,900	1,615
1.2 OUTGROWERS	3,564	3,833	2,175	2,464	1,586	1,669	2,073	-	-	-
2. AREA HARVESTED (HA)	-	-	-	-	-	-	-	-	-	-
2.1 NUCLEUS ESTATE	-	-	-	-	-	-	-	-	-	-
2.2 OUTGROWERS	-	-	-	-	-	-	-	-	-	-
3. PERCENTAGE HARVESTED (%)	-	-	-	-	-	-	-	-	-	-
3.1 NUCLEUS ESTATE	-	-	-	-	-	-	-	-	-	-
3.2 OUTGROWERS	-	-	-	-	-	-	-	-	-	-
4. SUGARCANE DELIVERIES (TC)	-	-	-	-	-	-	-	-	-	-
4.1 NUCLEUS ESTATE	-	-	-	-	-	-	-	-	-	-
4.2 OUTGROWERS	-	-	-	-	-	-	-	-	-	-
5. YIELDS (TC / HA)	-	-	-	-	-	-	-	-	-	-
5.1 NUCLEUS ESTATE	-	-	-	-	-	-	-	-	-	-
5.2 OUTGROWERS	-	-	-	-	-	-	-	-	-	-

**NOTE:**

1. *Miwani sugar factory was closed indefinitely in February 2001*

**TABLE 18: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT KIBOS SUGAR & ALLIED INDUSTRIES LTD;  
2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	4,925	5,040	6,358	6,852	5,190	5,946	6,277	8,013	7,393	8,087
1.1 NUCLEUS ESTATE	576	646	675	710	721	727	719	694	635	682
1.2 OUTGROWERS	4,349	4,394	5,683	6,142	4,469	5,219	5,558	7,319	6,758	7,405
2. AREA HARVESTED (HA)	2,207	2,081	1,133	3,253	2,789	2,631	2,717	1,916	2,894	3,517
2.1 NUCLEUS ESTATE	204	282	211	357	422	341	462	322	348	368
2.2 OUTGROWERS	2,003	1,799	922	2,896	2,367	2,290	2,255	1,594	2,546	3,149
3. PERCENTAGE HARVESTED (%)	44.81	41.29	17.82	47.48	53.74	44.25	43.29	23.91	39.14	43.49
3.1 NUCLEUS ESTATE	35.42	43.65	31.26	50.28	58.58	46.89	64.26	46.38	54.80	53.96
3.2 OUTGROWERS	46.06	40.94	16.22	47.15	52.97	43.88	40.57	21.78	37.67	42.53
4. SUGARCANE DELIVERIES (TC)	435,947	618,404	469,799	904,508	814,594	677,086	826,404	657,898	937,925	797,758
4.1 NUCLEUS ESTATE	12,872	23,392	17,251	29,487	31,854	24,352	24,337	18,573	27,303	27,190
4.2 OUTGROWERS	423,075	595,012	452,548	875,021	782,741	652,734	802,067	639,325	910,622	770,568
5. YIELDS (TC / HA)	64.62	65.86	62.92	67.93	63.37	59.05	63.03	63.48	68.82	69.38
5.1 NUCLEUS ESTATE	63.10	82.95	81.76	82.60	75.46	71.43	52.68	57.70	78.46	73.89
5.2 OUTGROWERS	64.77	63.18	58.61	66.13	61.22	57.21	65.15	64.64	67.50	68.85

**Notes.**

**1. Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-**

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Quantity (T)</b>	293,337	481,343	398,511	683,518	637,828	521,714	655,145	536,284	738,792	553,751

**TABLE 19: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT SOIN SUGAR COMPANY; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	1,421	1,430	1,545	1,813	1,773	1,744	1,825	1,822	1,915	2,799
1.1 NUCLEUS ESTATE	-	-	0	0	0	0	0	0	0	0
1.2 OUTGROWERS	1,421	1,430	1,545	1,813	1,773	1,744	1,825	1,822	1,915	2,799
2. AREA HARVESTED (HA)	632	753	257	-	-	-	-	-	-	-
2.1 NUCLEUS ESTATE	-	-	0	0	0	0	0	0	0	0
2.2 OUTGROWERS	632	753	257	0	0	0	0	0	0	0
3. PERCENTAGE HARVESTED (%)	44.48	52.66	16.63	-	-	-	-	-	-	-
3.1 NUCLEUS ESTATE	-	-	-	-	-	-	-	-	-	-
3.2 OUTGROWERS	44.48	52.66	16.63	-	-	-	-	-	-	-
4. SUGARCANE DELIVERIES (TC)	41,227	48,738	16,661	-	-	-	-	-	0	-
4.1 NUCLEUS ESTATE	-	-	0	0	0	0	0	0	0	0
4.2 OUTGROWERS	41,227	48,738	16,661	0	0	0	0	0	0	0
5. YIELDS (TC / HA)	65.23	64.73	64.83	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5.1 NUCLEUS ESTATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5.2 OUTGROWERS	65.23	64.73	64.83	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Note**

***The factory shut down in June 2014, awaiting finances for factory modernization***

**TABLE 20: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT BUTALI SUGAR COMPANY; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	25,360	27,515	26,011	29,604	29,446	18,487	15,526	14,913	19,749	24,021
1.1 NUCLEUS ESTATE	-	-	0	0	0	0	0	0	0	0
1.2 OUTGROWERS	25,360	27,515	26,011	29,604	29,446	18,487	15,526	14,913	19,749	24,021
2. AREA HARVESTED (HA)	6,217	6,680	7,072	6,729	11,427	7,510	11,204	8,656	13,273	10,977
2.1 NUCLEUS ESTATE	-	-	0	0	0	0	0	0	0	0
2.2 OUTGROWERS	6,217	6,680	7,072	6,729	11,427	7,510	11,204	8,656	13,273	10,977
3. PERCENTAGE HARVESTED (%)	24.51	24.28	27.19	22.73	38.81	40.62	72.16	58.04	67.21	45.70
3.1 NUCLEUS ESTATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3.2 OUTGROWERS	24.51	24.28	27.19	22.73	38.81	40.62	72.16	58.04	67.21	45.70
4. SUGARCANE DELIVERIES (TC)	412,982	418,367	596,929	489,968	842,422	474,868	703,633	562,141	895,794	752,008
4.1 NUCLEUS ESTATE	-	-	0	0	0	0	0	0	0	0
4.2 OUTGROWERS	412,982	418,367	596,929	489,968	842,422	474,868	703,633	562,141	895,794	752,008
5. YIELDS (TC / HA)	59.06	60.45	68.45	69.56	65.89	51.31	58.73	61.83	67.49	68.51
5.1 NUCLEUS ESTATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5.2 OUTGROWERS	59.06	60.45	68.45	69.56	65.89	51.31	58.73	61.83	67.49	68.51

**Notes.**

**1. Butali Sugar company started operations in January 2011**

**2. Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-**

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Quantity (T)</b>	45,827	14,588	112,834	21,899	89,533	26,214	45,595	26,906	0	0

**TABLE 21: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT TRANSMARA SUGAR COMPANY; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	9,581	12,053	15,214	16,592	17,310	11,347	14,958	15,075	15,308	16,980
1.1 NUCLEUS ESTATE	324	93	93	93	93	30	12	31	39	24
1.2 OUTGROWERS	9,257	11,960	15,121	16,499	17,216	11,317	14,946	15,044	15,269	16,956
2. AREA HARVESTED (HA)	2,374	4,503	5,584	4,943	4,868	3,255	3,909	4,587	4,561	5,620
2.1 NUCLEUS ESTATE	222	4	3	25	5	3	7	4	6	12
2.2 OUTGROWERS	2,152	4,499	5,581	4,918	4,863	3,252	3,902	4,583	4,555	5,608
3. PERCENTAGE HARVESTED (%)	25	37.36	36.70	29.79	28.12	28.69	26.13	30.43	29.79	33.10
3.1 NUCLEUS ESTATE	69	4.30	3.23	26.88	5.35	10.00	56.67	13.00	15.23	50.83
3.2 OUTGROWERS	23	37.62	36.91	29.81	28.25	28.74	26.11	30.46	29.83	33.07
4. SUGARCANE DELIVERIES (TC)	178,001	402,480	550,835	525,627	825,342	423,977	576,588	731,840	826,616	1,028,693
4.1 NUCLEUS ESTATE	14,600	-	208	3,075	426	172	362	230	786	1,550
4.2 OUTGROWERS	163,401	402,480	550,627	522,552	824,915	423,805	576,226	731,610	825,830	1,027,143
5. YIELDS (TC / HA)	75	84.51	98.65	106.28	102.25	76.06	83.30	95.47	133.16	173.98
5.1 NUCLEUS ESTATE	66	-	69.33	123.00	85.29	57.33	53.24	57.05	132.27	127.05
5.2 OUTGROWERS	75	84.58	98.66	106.20	102.26	76.08	83.35	95.50	133.16	174.08

**Notes.**

1. Transmara Sugar company started operations in December 2011

2. Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Quantity (T)	957	21,951	0	270	327,634	176,395	250,961	293,916	219,292	50,881



**TABLE 22: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT SUKARI SUGAR COMPANY; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	6,424	9,511	9,845	9,154	10,873	6,419	11,986	15,447	17,710	21,251
1.1 NUCLEUS ESTATE	-	-	-	-	-	0	297	130	0	0
1.2 OUTGROWERS	6,424	9,511	9,845	9,154	10,873	6,419	11,689	15,317	17,710	21,251
2. AREA HARVESTED (HA)	4,323	4,376	4,504	8,284	6,474	5,357	9,378	12,951	12,337	15,158
2.1 NUCLEUS ESTATE	-	-	-	-	-	-	66	275	0	0
2.2 OUTGROWERS	4,323	4,376	4,504	8,284	6,474	5,357	9,312	12,676	12,337	15,158
3. PERCENTAGE HARVESTED (%)	67	46.01	45.75	90.50	59.55	83.46	78.24	83.84	69.66	71.33
3.1 NUCLEUS ESTATE	N/A	N/A	N/A	N/A	N/A	N/A	22.22	211.54	N/A	N/A
3.2 OUTGROWERS	67	46.01	45.75	90.50	59.55	83.46	79.66	82.76	69.66	71.33
4. SUGARCANE DELIVERIES (TC)	306,094	342,335	397,268	614,033	467,216	345,421	533,988	633,230	624,235	973,980
4.1 NUCLEUS ESTATE	-	-	-	-	-	-	3,679	23,206	0	0
4.2 OUTGROWERS	306,094	342,335	397,268	614,033	467,216	345,421	530,309	610,024	624,235	973,980
5. YIELDS (TC / HA)	70	69	66	51.26	55.01	60.84	56.78	48.89	50.60	64.26
5.1 NUCLEUS ESTATE	N/A	N/A	N/A	N/A	N/A	N/A	55.74	84.39	N/A	N/A
5.2 OUTGROWERS	70	68.86	66.10	51.26	55.01	60.84	56.79	48.12	50.60	64.26

**Notes.**

1. Sukari Sugar company started operations in December 2011

2. Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Quantity (T)	4,762	41,003	99,548	189,388	111,084	19,506	1,489	0	0	0

**TABLE 23: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT KWALE SUGAR COMPANY; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	-	-	-	6,336	8,771	9,477	9,488	9,488	6,763	7,287
1.1 NUCLEUS ESTATE	-	-	-	3,710	4,532	4,791	4,791	4,791	3,501	3,853
1.2 OUTGROWERS	-	-	-	2,626	4,239	4,686	4,697	4,697	3,262	3,434
2. AREA HARVESTED (HA)	-	-	-	1,492	4,476	2,710	2,390	319	5,833	1,331
2.1 NUCLEUS ESTATE	-	-	-	662	2,732	2,313	1,522	212	3,627	865
2.2 OUTGROWERS	-	-	-	830	1,744	397	868	107	2,205	466
3. PERCENTAGE HARVESTED (%)	-	-	-	24	51.03	28.60	25.19	3.36	86.24	18.27
3.1 NUCLEUS ESTATE	-	-	-	18	60.29	48.28	31.77	4.42	103.61	22.45
3.2 OUTGROWERS	-	-	-	32	41.14	8.47	18.48	2.28	67.61	13.57
4. SUGARCANE DELIVERIES (TC)	-	-	-	120,519	293,916	202,875	179,914	18,878	268,861	30,042
4.1 NUCLEUS ESTATE	-	-	-	56,523	189,513	180,825	128,294	15,646	192,879	21,825
4.2 OUTGROWERS	-	-	-	63,996	104,403	22,050	51,620	3,232	75,982	8,217
5. YIELDS (TC / HA)	-	-	-	81	66	74.86	75.28	59.18	46.10	22.57
5.1 NUCLEUS ESTATE	-	-	-	85	69	78.18	84.29	73.80	53.17	25.23
5.2 OUTGROWERS	-	-	-	77	59.87	55.54	59.47	30.21	34.45	17.63

**Notes.**

1. Kwale Sugar company started operations in March 2015

2. Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Quantity (T)	0	0	N/A	0	0	0	0	0	0	0

**TABLE 24: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT WEST KENYA SUGAR COMPANY; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	21,215	24,871	24,871	28,178	28,686	29,721	38,868	46,716	48,011	59,048
1.1 NUCLEUS ESTATE	-	-	-	-	-	-	-	-	0	-
1.2 OUTGROWERS	21,215	24,871	24,871	28,178	28,686	29,721	38,868	46,716	48,011	59,048
2. AREA HARVESTED (HA)	0.00	-	-	15,737	14,152	14,121	18,000	22,977	21,366	28,149
2.1 NUCLEUS ESTATE	0.00	-	-	-	-	-	-	-	0	-
2.2 OUTGROWERS			0	15,737	14,152	14,121	18,000	22,977	21,366	28,149
3. PERCENTAGE HARVESTED (%)	0.00	-	-	55.85	49.33	47.51	46.31	49.18	44.50	47.67
3.1 NUCLEUS ESTATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3.2 OUTGROWERS	0.00	-	-	55.85	49.33	47.51	46.31	49.18	44.50	47.67
4. SUGARCANE DELIVERIES (TC)	593,329	1,022,030	852,046	1,267,331	1,054,964	882,887	934,042	1,054,505	1,430,999	1,943,199
4.1 NUCLEUS ESTATE	0	-	-	-	-	-	-	-	0	0
4.2 OUTGROWERS	593,329	1,022,030	852,046	1,174,339	1,004,122	877,867	934,042	1,054,505	1,430,999	1,943,199
5. YIELDS (TC / HA)	N/A	N/A	N/A	74.62	70.95	62.17	51.89	45.89	66.97	69.03
5.1 NUCLEUS ESTATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5.2 OUTGROWERS	N/A	N/A	N/A	74.62	70.95	62.17	51.89	45.89	66.97	69.03

**Notes.**

**1. Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-**

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Quantity (T)</b>	593,329	1,022,030	852,046	92,992	50,842	5,020	0	0	0	0

**TABLE 25: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT OLEPITO SUGAR COMPANY; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	-	-	-	-	-	4,949	7,942	8,875	9,013	9,612
1.1 NUCLEUS ESTATE	-	-	-	-	-	-	-	28	5	6
1.2 OUTGROWERS	-	-	-	-	-	4,949	7,942	8,847	9,008	9,606
2. AREA HARVESTED (HA)	-	-	-	-	-	-	1,000	3,422	3,229	3,498
2.1 NUCLEUS ESTATE	-	-	-	-	-	-	0	58	17	0
2.2 OUTGROWERS	-	-	-	-	-	-	1,000	3,364	3,213	3,498
3. PERCENTAGE HARVESTED (%)	-	-	-	-	-	-	0.13	0.39	0.36	0.36
3.1 NUCLEUS ESTATE	-	-	-	-	-	-	N/A	N/A	N/A	N/A
3.2 OUTGROWERS	-	-	-	-	-	-	0.13	0.38	0.36	0.36
4. SUGARCANE DELIVERIES (TC)	-	-	-	-	-	-	45,325	130,520	150,556	188,468
4.1 NUCLEUS ESTATE	-	-	-	-	-	-	0	5,052	1,282	0
4.2 OUTGROWERS	-	-	-	-	-	-	45,325	124,430	149,274	188,468
5. YIELDS (TC / HA)	-	-	-	-	-	-	45.33	37.83	46.62	53.88
5.1 NUCLEUS ESTATE	-	-	-	-	-	-	-	87	77	N/A
5.2 OUTGROWERS	-	-	-	-	-	-	45.33	37.83	46.62	53.88

**Notes.**

1. *Olepito Sugar company started operations in November 2017*

2. *Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-*

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Quantity (T)	-	-	-	-	-	-	-	1,038	-	0

**TABLE 26: AREA UNDER CANE, HARVESTED, CANE DELIVERED AND YIELDS AT BUSIA SUGAR COMPANY; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1. AREA UNDER CANE (HA)	-	-	N/A	N/A	N/A	N/A	N/A	14,978	12,858	11,017
1.1 NUCLEUS ESTATE	-	-	N/A	N/A	N/A	0	83	77	93	118
1.2 OUTGROWERS	-	-	N/A	N/A	N/A	7,501	15,860	14,901	12,765	10,899
2. AREA HARVESTED (HA)	-	-	N/A	N/A	N/A	N/A	N/A	4,288	5,406	3,242
2.1 NUCLEUS ESTATE	-	-	N/A	N/A	N/A	N/A	N/A	29	13	25
2.2 OUTGROWERS	-	-	N/A	N/A	N/A	N/A	N/A	4,259	5,393	3,217
3. PERCENTAGE HARVESTED (%)	-	-	N/A	N/A	N/A	N/A	N/A	0.29	0.42	0.29
3.1 NUCLEUS ESTATE	-	-	N/A	N/A	N/A	N/A	N/A	0.37	0.14	0.21
3.2 OUTGROWERS	-	-	N/A	N/A	N/A	N/A	N/A	0.29	0.42	0.30
4. SUGARCANE DELIVERIES (TC)	-	-	N/A	N/A	N/A	N/A	N/A	174,034	410,871	507,111
4.1 NUCLEUS ESTATE	-	-	N/A	N/A	N/A	N/A	N/A	1,187	888	1,187
4.2 OUTGROWERS	-	-	N/A	N/A	N/A	N/A	N/A	158,632	249,788	170,155
5. YIELDS (TC / HA)	-	-	N/A	N/A	N/A	N/A	N/A	37.27	46.37	52.85
5.1 NUCLEUS ESTATE	-	-	N/A	N/A	N/A	N/A	N/A	41.22	68.85	47.48
5.2 OUTGROWERS	-	-	N/A	N/A	N/A	N/A	N/A	37.25	46.32	52.89

**Notes.**

**1. Busia Sugar company started operations in March 2019**

**2. Outgrowers cane supply includes non-contracted cane delivered from other zones as detailed below:-**

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Quantity (T)</b>	0	0	0	N/A	N/A	N/A	N/A	14,215	160,195	335,769

**TABLE 27: FACTORY PERFORMANCE OF ALL SUGAR COMPANIES; 2012 - 2021**

<b>ITEM</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>1. PRODUCTION</b>										
Sugarcane Crushed (TC)	5,830,058	6,810,338	6,596,994	7,266,023	7,411,303	4,640,771	5,383,759	4,604,712	6,880,203	7,647,224
Sugar Made (TS)	502,563	602,151	590,150	642,278	638,653	375,012	440,805	378,117	575,506	701,552
Sugar Bagged (TS)	493,937	600,179	592,668	635,674	639,742	376,111	491,097	440,935	603,788	700,241
Sugar Sold (TS)	492,150	583,735	603,593	626,121	635,851	371,311	482,338	433,804	608,389	695,348
TC/TS Ratio	11.60	11.31	11.18	11.31	11.60	12.37	12.21	12.18	11.96	10.90
Rendement (sugar % cane)	8.62	8.84	8.95	8.84	8.62	8.08	8.19	8.21	8.36	9.17
Molasses Produced (T)	222,836	241,561	227,135	250,892	264,733	192,717	211,064	186,257	269,772	295,574
Molasses Sales (T)	217,704	204,384	187,636	213,190	240,739	184,116	193,694	189,038	262,792	304,088
Molasses % Cane	3.82	3.55	3.44	3.45	3.57	4.15	3.92	4.04	3.92	3.87
Bagasse Production (T)	2,185,212	2,468,338	2,422,898	2,608,776	2,738,548	1,705,148	1,973,574	1,611,011	2,423,424	2,721,865
Bagasse % Cane	37.48	36.24	36.73	35.90	36.95	36.74	36.66	34.99	35.22	35.59
<b>2. CANE QUALITY</b>										
Pol % cane	11.16	11.16	11.35	11.46	11.25	10.50	10.55	10.56	10.88	11.80
Fibre % cane	17.18	16.99	17	16.94	17.3	16.96	17.08	16.52	17.02	16.94
<b>3. MILLING DATA</b>										
Pol Extraction (%)	90.87	90.87	91.45	90.68	91.05	91.40	91.68	92.40	92.36	91.51
<b>4. TIME ACCOUNT</b>										
Gross Grinding Time (Hrs)	8,760	8,760	8,760	8,760	8,760	8,760	8,760	8,760	8,760	8,760
Average Actual Grinding time (Hrs)	5,000	5,482	5,111	5,077	5,172	3,724	4,019	3,600	4,883	4,800
Factory Time Efficiency (%)	81.36	82.29	82.91	80.54	81.23	78.00	78.21	73.91	75.84	75.38
Overall Time Efficiency (%)	66.80	73.57	74.71	68.75	68.44	48.78	51.58	48.21	57.01	58.22
<b>5. BAGASSE</b>										
% Cane	37.40	36.37	36.45	36.03	37.19	36.77	36.71	34.75	35.22	35.59
Pol %	2.71	2.55	2.56	2.47	2.66	2.56	2.61	2.69	2.64	2.81
Moisture %	49.57	49.66	49.66	49.63	50.76	50.61	50.82	50.36	49.84	50.70
Fibre %	47.72	47.79	47.78	47.90	46.58	46.83	46.57	46.96	47.51	46.49
<b>6. % POL LOSSES IN</b>										
Bagasse	9.35	8.79	8.77	10.03	9.12	9.36	8.74	9.78	8.99	11.20
Filter Cake	1.1	1.27	1.21	1.12	0.93	0.86	0.79	1.02	1.04	1.20
Molasses	10.31	9.37	9.27	9.25	9.79	12.89	12.46	13.42	12.04	11.12
Undertemined	4.18	3.88	5.13	4.70	6.12	6.51	4.82	7.88	6.71	4.50
Total Losses	24.94	23.31	24.38	25.10	25.96	29.62	26.81	32.10	28.78	28.02
Overall Recovery %	76.73	76.69	75.62	74.90	76.29	74.38	76.32	77.03	77.62	78.18

**Note: Data for cane quality, milling, time account, bagasse and sucrose losses are weighted averages**

**TABLE 27 CONTD.**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>7. CONSUMABLES</b>										
Furnace Oil (M3)	0	0.00	0.00	0.00	0.00	0.00	0.04	9,505.85	16.50	0.00
Firewood (T)	1,697	801	397	0	452	8,757	102	104	417	405.50
Lime Consumed (T)	6,281	7,066	6,801	7,570	7,281	5,554	7,870	8,172	11,070	9,068
Lime Consumed (Kg/TC)	1.08	1.04	1.03	1.04	0.98	1.20	1.46	1.77	1.61	1.19
Sulphur Consumed (T)	254	181	93	84	56	25	43	85	7	0.3
Sulphur Consumed (Kg/TC)	0.08	0.05	0.05	0.03	0.04	0.02	0.04	0.11	0.01	0.00
<b>8. CAPACITY UTILIZATION (%)</b>	55.73	66.46	73.93	62.74	60.59	38.08	44.29	45.71	55.45	55.94

**TABLE 28: FACTORY PERFORMANCE OF CHEMELIL SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	140	140	140	140	125	125	125	125	125	125
Actual (TCH)	100.2	106.2	116.9	98.22	108.97	96.47	105.24	94.13	103.32	118.98
Cane Crushed (MT)	294,088	279,050	466,670	341,999	264,675	195,993	228,052	43,487	346,841	353,616
Sugar Made (MT)	15,977	22,797	37,709	23,144	16,509	12,309	15,089	2,606	25,362	22,053
Sugar Bagged (MT)	16,107	22,461	37,720	22,924	16,579	11,951	14,598	2,863	24,328	21,681
Sugar sold (MT)	16,197	20,519	39,561	23,008	16,522	12,018	14,548	2,926	24,279	21,611
Cane/Sugar (TC/TS)	18.41	12.24	12.38	14.78	16.03	15.92	15.11	16.69	13.68	16.03
Rendement (%)	5.43	8.17	8.08	6.77	6.24	6.28	6.62	5.99	7.31	6.24
Molasses Produced (T)	12,480	10,940	17,285	13,672	9,888	8,478	9,229	1,538	11,632	14,173
Molasses Sales (T)	12,543	10,395	17,616	13,775	8,845	7787	8,781	1,889	11,249	14,197
Molasses % Cane	4.24	3.92	3.70	4.00	3.74	4.33	4.05	3.54	3.35	4.01
Bagasse Produced (Tonnes)	135,463	115,391	192,939	159,289.00	112,922	84,625	97,834	19,232	148,242	161,449
Bagasse % Cane	46.06	41.35	41.34	46.58	42.66	43.18	42.90	44.23	42.74	45.66
Pol % Cane	10.21	11.74	11.66	11.25	10.77	10.79	11.08	11.29	11.66	10.98
Fibre % Cane	19.29	19.19	18.96	19.22	18.69	18.63	18.74	19.27	18.87	18.07
Pol % Bagasse	4.77	3.36	2.88	3.08	3.64	4.09	3.71	3.91	3.49	4.78
Red Boiling House Recovery (%)	74.17	79.71	81.91	79.64	75.14	73.73	74.35	63.67	77.40	77.22
Red Mill Extraction (%)	87.11	93.45	93.76	91.35	90.93	89.77	91.07	90.74	92.12	87.32
Reduced Overall Recovery (%)	64.69	74.48	76.79	74.01	68.38	66.18	67.72	57.83	71.32	67.41
Actual Grinding Time (Hrs)	2,976.00	2,626.00	3,994.00	3520.00	2,429	1,978	2,167	462	3,357	2,972
Stoppage Due To No Cane (Hrs)	929.00	198.00	1,255.00	358.00	1,610	2,243	4,455	1,094	1,821	327
Stoppage Due to Factory (Hrs)	2,532.00	2,112.00	729.00	673.00	1,516	1,582	1,306	478	2,600	4,011
Capacity Utilization %	29.50	38.30	41.27	39.17	40.88	25.1	36.41	16.43	37.77	32.30
Lime (Kg/TC)	1.34	1.13	1.86	1.04	1.26	1.48	1.36	1.13	1.05	1.08
Sulphur (Kg/TC)	0.00	0.00	0.00	0	0	0	0	0	-	0
Sugar colour (ICUMSA) Units Brown	1,727	1,500	1,503.25	1,758.00	1,755.00	1,674	1,634	1,659	1,482	1,419
Banker oil (M3)	-	-	-	0	0	0	0	0	0	0
Wood Fuel (Tonnes)	126.0	44.1	-	0	349.58	8671	6.54	0	-	0



**TABLE 29: FACTORY PERFORMANCE OF MUHORONI SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	100.00	100.00	100.00	100.00	91.67	91.67	91.67	91.67	92.00	91.67
Actual (TCH)	100.88	101.04	105.12	102	104.67	106.02	98.54	95.85	93.21	91.37
Cane Crushed (MT)	445,438	366,433	493,371	388,452	323,093	321,727	225,094	187,957	279,738	313,539
Sugar Made (MT)	30,536	29,578	39,713	30,556	23,964	21,074	15,981	11,964	18,060	20,671
Sugar Bagged (MT)	31,684	28,891	38,864	29,678	24,127	20,942	14,886	10,601	17,464	19,711
Sugar sold (MT)	30,377	27,829	39,757	29,999	23,940	20,845	14,781	10,736	17,385	19,537
Cane/Sugar (TC/TS)	14.59	12.39	12.42	12.71	13.48	15.27	14.09	15.71	15.49	15.17
Rendement (%)	6.86	8.07	8.05	7.87	7.42	6.55	7.10	6.37	6.46	6.59
Molasses Produced (T)	18,955	13,802	17,200	15,293	12,686	14,512	10,738	7,847	11,314	13,231
Molasses Sales (T)	18,142	12,560	15,891	15,915	12,584	14,843	13,922	8,940	11,218	13,947
Molasses % Cane	4.26	3.77	3.49	3.94	3.93	4.51	4.77	4.17	4.04	4.22
Bagasse Produced (Tonnes)	172,836	149,914	201,625	158,403	133,060	124,444	89,113	73,166	110,271	130,291
Bagasse % Cane	38.80	40.91	40.87	40.78	41.18	38.68	39.59	38.93	39.42	41.55
Pol % Cane	10.38	10.99	11.31	11.4	10.86	9.94	10.24	9.75	10.11	10.43
Fibre % Cane	17.62	18.16	18.19	18.26	18.2	16.97	16.94	17.47	17.48	17.86
Pol % Bagasse	3.06	3.09	3.18	3.29	3.28	2.85	3.11	3.175	3.22	3.53
Red Boiling House Recovery (%)	80.80	84.25	80.83	86.00	81.73	80.53	83.15	77.70	78.61	79.68
Red Mill Extraction %	92.36	92.52	92.59	89.66	89.28	92.31	91.7	91.20	91.54	90.72
Reduced Overall Recovery %	73.90	77.36	74.83	77.11	75.18	74.32	76.28	70.95	71.96	71.43
Actual Grinding Time (Hrs)	4,042	3,627	4,693	3,811	3,087	3,096	2,283	1,961	3,001	3,432
Stoppage Due To No Cane (Hrs)	335	747	898	1,033	1,117	2,333	2,063	4,967	2,554	380
Stoppage Due to Factory (Hrs)	2,471	2,151	2,425	1,960	2,500	1,923	1,459	1,441	2,441	2,919
Capacity Utilization %	50.85	45.92	56.31	44.41	43.92	40.88	37.59	23.41	34.59	39.05
Lime (Kg/TC)	1.10	0.77	0.92	1.5	1.01	1.06	1.35	17.15	13.17	3.50
Sulphur (Kg/TC)	0.03	0.00	0.02	0.05	0.03	0.03	0.02	0.45	0	0.00
Sugar colour (ICUMSA) Units- brown	976	893	957	1,117	1,082	1,120	1,114	1,569	0	1,245
Banker oil (M3)	0.00	0.00	0.00	0	0	0	0	9506	0	-
Wood Fuel (Tonnes)	-	-	-	0	0	0	0	0	0	-

**TABLE 30: FACTORY PERFORMANCE OF MUMIAS SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	370	370	370	370	333	333	333	0	0	-
Actual (TCH)	325.76	310.21	309.71	278	270.35	243.67	242.18	-	-	-
Cane Crushed (MT)	1,960,258	1,847,653	1,392,438	1,264,717	933,068	280,536	88,201	-	-	-
Sugar Made (MT)	181,372	164,246	116,735	86,792	48,530	15,083	4,751	-	-	-
Sugar Bagged (MT)	179,497	164,215	117,966	77,720	49,351	13,575	4,768	-	-	-
Sugar sold (MT)	178,631	159,694	125,984	74,787	50,666	12,361	6,252	-	-	-
Cane/Sugar (TC/TS)	10.81	11.25	11.93	14.57	19.23	18.60	18.56	N/A	N/A	N/A
Rendement (%)	9.25	8.89	8.38	6.86	5.20	5.38	5.39	N/A	N/A	N/A
Molasses Produced (T)	79,576	62,364	45,927	39,991	30,459	13,875	7,741	0	0	0
Molasses Sales (T)	72,933	29,718	4,802	11,036	1	0	0	0	0	0
Molasses % Cane	4.06	3.38	3.30	3.16	3.26	4.95	8.78	N/A	N/A	N/A
Bagasse Produced (Tonnes)	751,100	696,525	539,116	511,902	395,343	109,642	35,785	0	0	-
Bagasse % Cane	38.32	37.70	38.72	40.48	42.37	39.08	40.57	N/A	N/A	N/A
Pol % Cane	11.44	10.72	10.22	9.8	9.44	5.34	9.25	-	-	-
Fibre % Cane	17.44	17.59	17.58	17.87	17.55	10.22	17.53	-	-	-
Pol % Bagasse	2.11	1.72	1.66	3.31	3.03	2.66	2.97	-	-	-
Red Boiling House Recovery (%)	87.87	88.27	87.86	87.61	98.42	93.55	98.01	-	-	-
Red Mill Extraction (%)	95.34	95.96	95.77	93.47	30.55	30.47	15.74	-	-	-
Reduced Overall Recovery (%)	83.78	84.71	84.16	82.88	30.2	27.85	15.60	-	-	-
Actual Grinding Time (Hrs)	6,072.00	5,750.00	4,524.00	4484	3,523	1,139	358	-	-	-
Stoppage Due To No Cane (Hrs)	995.00	1,208.00	1,194.00	828	3,571	2,583	8,225	-	-	-
Stoppage Due to Factory (Hrs)	807.00	733.00	688.00	1589	1,183	353	105	-	-	-
Capacity Utilization %	63.24	55.01	51.05	38.09	32.09	15.99	6.47	-	-	-
Lime (Kg/TC)	0.79	0.97	0.93	0.93	0.86	1.06	0.54	-	-	-
Sulphur (Kg/TC)	0.08	0.09	0.06	0.04	0.05	0.04	0.04	-	-	-
Sugar colour (ICUMSA) - Mill White	-	-	-	-	823	672	746	-	-	-
Sugar colour (ICUMSA) - Brown	585	552	543	612	1,906	1,618	1,800	-	-	-
Banker oil (M3)	0.10	0.00	0.00	0	0	0	-	-	-	-
Wood Fuel (Tonnes)	-	-	-	0	0	0	-	-	-	-

**Note**

*Mumias Sugar Company began ethanol production in 2012. The balance in Molasses produced after sales is used in the production of ethanol.*

*Mumias Sugar Company stopped sugar and molasses production in 2019.*

**TABLE 31: FACTORY PERFORMANCE OF NZOIA SUGAR COMPANY LTD; 2011 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	125	125	125	125	125	125	125	125	125	125
Actual (TCH)	124.00	129.59	142.74	130.47	130.26	129.3	132.73	119.18	133.23	126.95
Cane Crushed (MT)	727,921	762,491	707,302	699,907	829,093	441,114	393,118	185,844	424,598	353,179
Sugar Made (MT)	67,003	60,846	64,214	61,172	73,459	29,757	27,541	13,003	27,274	21,578
Sugar Bagged (MT)	66,884	60,350	66,462	60,861	71,913	29,394	28,195	12,582	26,977	21,015
Sugar sold (MT)	68,394	60,556	64,484	64,024	67,324	28,324	28,766	13,110	23,627	20,971
Cane/Sugar (TC/TS)	10.86	12.53	11.01	11.44	11.29	14.82	14.27	14.29	15.57	16.37
Rendement (%)	9.20	7.98	9.08	8.74	8.86	6.75	7.01	7.00	6.42	6.11
Molasses Produced (T)	26,613	29,970	24,480	26,476	31,301	23,600	17,930	7,956	13,719	12,916
Molasses Sales (T)	29,020	29,656	24,862	25,616	29,935	22,592	18,679	9,117	14,303	12,356
Molasses % Cane	3.66	3.93	3.46	3.78	3.78	5.35	4.56	4.28	3.23	3.66
Bagasse Produced (Tonnes)	269,206	286,439	263,671	266,143	305,921	154,213	135,630	79,265	156,895	129,116
Bagasse % Cane	36.98	37.57	37.28	38.03	36.90	34.96	34.50	42.65	36.95	36.56
Pol % Cane	12.34	11.70	12.56	12.29	11.82	9.42	8.7	9.15	9.72	9.25
Fibre % Cane	16.85	16.85	16.98	17.12	17.23	16.38	16.04	16.38	16.80	16.53
Pol % Bagasse	3.46	3.59	2.57	2.41	2.51	2.49	2.42	2.85	3.61	3.87
Red Boiling House Recovery (%)	79.04	74.21	76.07	68.89	74.59	76.37	78.88	76.69	74.97	79.28
Red Mill Extraction (%)	92.73	91.94	95.00	94.93	94.61	93.14	92.55	92.10	90.25	88.92
Reduced Overall Recovery (%)	73.77	68.18	72.27	66.13	70.57	70.51	74.56	70.92	67.99	70.60
Actual Grinding Time (Hrs)	5,845.00	5,914.00	5087.00	5533.00	6,331	3,395	2,975	1,559	3,187	2,782
Stoppage Due To No Cane (Hrs)	189.00	551.00	409.00	449.00	764	3,629	5067	1,733	765	1,252
Stoppage Due to Factory (Hrs)	899.00	1,385.00	401.00	1,138.00	870	654	503	1,002	1,428	2,328
Capacity Utilization %	75.78	70.11	82.69	70.92	73.63	44.66	36.19	33.31	42.12	32.27
Lime (Kg/TC)	1.35	1.17	0.49	0.74	0.5	0.71	5.71	0.61	0.52	0.55
Sulphur (Kg/TC)	0.00	0.01	0.00	0.02	0	0.01	0	0	0	0
Sugar colour (ICUMSA) Units- Brown	1,049	917	834	812	783	1,691	1,290	1,220	965	981
Banker oil (M3)	-	-	0.00	0	0	0	0	0	0	0
Wood Fuel (Tonnes)	-	-	-	0	0	0	0	0	0	0

**TABLE 32: FACTORY PERFORMANCE OF SOUTH NYANZA SUGAR COMPANY LTD; 2012 -2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	135	135	135	135	125	125	125	125	125	125
Actual (TCH)	113.65	116.42	118.34	120.22	122.71	123.32	123.96	114.66	109.89	124.01
Cane Crushed (MT)	536,838	680,077	633,182	651,560	698,774	435,046	508,623	233,722	220,550	430,076
Sugar Made (MT)	52,470	66,994	60,387	60,044	61,341	35,162	40,726	12,448	14,373	32,627
Sugar Bagged (MT)	51,984	67,442	60,028	60,180	61,343	35,060	40,149	12,573	13,908	32,786
Sugar sold (MT)	52,952	62,352	60,974	59,571	59,506	35,194	38,482	12,675	13,900	32,726
Cane/Sugar (TC/TS)	10.23	10.15	10.49	10.85	11.39	12.37	12.49	18.78	15.35	13.18
Rendement (%)	9.77	9.85	9.54	9.22	8.78	8.08	8.01	5.33	6.52	7.59
Molasses Produced (T)	17,785	23,935	19,454	21,687	29,849	14,977	13,983	9,581	8,163	16,715
Molasses Sales (T)	17,713	23,736	19,892	19,534	33,893	14,004	10,078	9,860	8,391	15,808
Molasses % Cane	3.31	3.52	3.07	3.33	4.27	3.44	2.75	4.10	3.70	3.89
Bagasse Produced (Tonnes)	181,307	239,439	224,785	264,974	262,029	163,121	180,079	83,094	78,260	159,016
Bagasse % Cane	33.77	35.21	35.50	40.67	37.50	37.50	35.41	35.55	35.48	36.97
Pol % Cane	12.48	12.89	12.55	12.48	12.32	11.87	11.91	11.34	11.27	12.36
Fibre % Cane	16.61	17.14	17.05	17.92	18	17.56	17.32	16.59	16.48	17.65
Pol % Bagasse	3.62	3.82	4.25	4.06	3.76	4.52	3.57	5.02	4.91	3.88
Red Boiling House Recovery (%)	84.45	83.44	82.60	81.47	79.07	73.37	75.1	66.79	56.88	69.59
Red Mill Extraction (%)	92.92	92.77	92.11	92.06	92.54	90.44	92.7	88.61	88.49	92.23
Reduced Overall Recovery (%)	78.48	77.01	76.81	75.44	72.21	66.55	69.63	59.21	50.87	64.33
Actual Grinding Time (Hrs)	4,724	5,841	5,366	5,956	5,695	3,528	4,073	2,038	2,007	3,468
Stoppage Due To No Cane (Hrs)	1,406	965	693	140	287	2,542	958	3,254	1,960	418
Stoppage Due to Factory (Hrs)	893	1,142	1,005	1,022	1,599	1,608	2,592	2,757	2,322	2,788
Capacity Utilization %	54.42	60.35	56.63	66.73	64.44	41.17	46.69	21.34	20.07	39.27
Lime (Kg/TC)	0.84	0.91	1.05	0.98	1.01	1.06	1.04	1.10	1.28	1.29
Sulphur (Kg/TC)	0.01	0.01	0.00	0	0	0	0	0.00	0	0
Sugar colour (ICUMSA) Units- Mill White	599	603	592	586	571	582	646	652	943	592
Sugar colour (ICUMSA) Units- Brown	-	-	-	-	931	1,002	1,156	1,276	1,430	1,776
Banker oil (M3)	0	0	0	0	0	0	0	0	0	0
Wood Fuel (Tonnes)	107.34	97.00	118.00	0	102.00	86.00	94	104.00	270.06	398

**TABLE 33: FACTORY PERFORMANCE OF WEST KENYA SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	125	145	145	167	175	175	188	208	208	271
Actual (TCH)	97.91	142.39	143.46	181.06	173.53	157.42	155.78	167.57	202.49	253.13
Cane Crushed (MT)	593,329	1,022,030	852,046	1,253,331	988,639	862,744	925,894	1,048,270	1,464,241	1,943,199
Sugar Made (MT)	49,565	84,046	73,435	118,432	89,242	75,270	71,283	85,085	128,786	188,512
Sugar Bagged (MT)*	49,565	84,046	73,696	118,432	89,356	74,770	107,350	136,305	151,852	188,512
Sugar sold (MT)	49,010	80,904	76,680	117,711	92,233	77,665	108,844	132,292	156,401	187,993
Cane/Sugar (TC/TS)	11.97	12.16	11.60	10.58	11.08	11.46	12.99	12.32	11.37	10.31
Rendement (%)	8.35	8.22	8.62	9.45	9.03	8.72	7.70	8.12	8.80	9.70
Molasses Produced (T)	26,728	40,298	33,972	42,562	35,565	38,985	47,700	56,571	64,696	83,200
Molasses Sales (T)	26,728	40,298	33,972	42,562	35,577	44,160	47,175	55,568	62,465	83,370
Molasses % Cane	4.50	3.94	3.99	3.40	3.60	4.52	5.15	5.40	4.42	4.28
Bagasse Produced (Tonnes)	206,658	341,687	295,690	410,869	326,935	305,800	315,699	327,586	430,068	682,062
Bagasse % Cane	34.83	33.43	34.70	32.78	33.07	35.45	34.10	31.25	29.37	35.10
Pol % Cane	10.73	9.97	10.42	11.31	10.77	10.23	9.54	10.43	11.13	12.08
Fibre % Cane	15.94	15.73	15.59	15.43	15.77	15.57	15.80	15.66	15.93	17.41
Pol % Bagasse	2.44	2.17	2.50	2.27	2.29	1.23	1.54	1.55	1.47	2.10
Red Boiling House Recovery (%)	90.36	91.39	91.47	91.10	91.92	89.70	90.40	87.36	88.98	88.90
Red Mill Extraction (%)	94.11	94.41	93.61	94.78	94.55	96.96	96.27	96.42	96.91	95.96
Reduced Overall Recovery (%)	85.03	86.24	85.51	86.34	86.93	87.65	87.06	84.89	86.23	85.32
Actual Grinding Time (Hrs)	5,957	7,177	5,962	6,768	5,500	5,480	5,939	6,256	7,231	7,677
Stoppage Due To No Cane (Hrs)	1,200	203	262	189	119	434	964	988	469	178
Stoppage Due to Factory (Hrs)	830	788	673	1,023	359	1,590	1,175	1,198	532	528
Capacity Utilization (%)	60.50	79.96	77.55	89.63	82.84	56.77	56.39	57.27	80.21	81.90
Lime (Kg/TC)	0.97	0.90	0.96	0.93	0.97	1.43	1.22	0.93	1.04	1.06
Sulphur (Kg/TC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sugar colour (ICUMSA) Units - Mill White	-	-	207	356	550	670	494	288	527	498
Sugar colour (ICUMSA) Units- Brown	659	621	-	-	691	717	679	344	887	639
Banker oil (M3)	0	0	0	0	0	0	0	0	0	0
Wood Fuel (Tonnes)	0	0	0	0	0	0	0	0	0	0

\* Sugar bagged in 2018, 2019 and 2020 include imported bulk processed sugar.

\*\*The Company did not provide data on sugar colour (ICUMSA) for most of the months under the review in 2019 and therefore the data for this year is treated as provisional.

**TABLE 34: FACTORY PERFORMANCE OF SOIN SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	12.5	12.5	12.5	-	0	0	-	-	-	-
Actual (TCH)	10.78	12.40	10.49	0	0.00	0.00	-	-	-	-
Cane Crushed (MT)	41,297	48,378	16,677	-	-	-	-	-	-	-
Sugar Made (MT)	2,551	2,943	941	-	-	-	-	-	-	-
Sugar Bagged (MT)	2,048	2,076	634	-	-	-	-	-	-	-
Sugar sold (MT)	2,050	2,064	637	-	-	-	-	-	-	-
Cane/Sugar (TC/TS)	16.19	16.44	17.72	0.00	0.00	0.00	-	-	-	-
Rendement (%)	6.18	6.08	5.64	0.00	0.00	0.00	-	-	-	-
Molasses Produced (T)	-	1,639.00	1,446.00	-	-	0	0	0	0	0
Molasses Sales (T)	-	1,478	795	-	-	-	-	-	-	-
Molasses % Cane	0.00	3.39	8.67	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bagasse Produced (Tonnes)	6,763	7,500	3,293	-	-	0	-	-	-	-
Bagasse % Cane	16.38	15.50	19.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pol % Cane	-	-	10.9	-	-	-	-	-	-	-
Fibre % Cane	-	-	16.0	-	-	-	-	-	-	-
Pol % Bagasse	-	-	-	-	-	-	-	-	-	-
Red Boiling House Recovery (%)	-	-	-	-	-	-	-	-	-	-
Red Mill Extraction (%)	-	-	-	-	-	-	-	-	-	-
Reduced Overall Recovery (%)	-	-	-	-	-	-	-	-	-	-
Actual Grinding Time (Hrs)	3,830	3,979	2,039	-	-	-	-	-	-	-
Stoppage Due To No Cane (Hrs)	945	707	770	-	-	-	-	-	-	-
Stoppage Due to Factory (Hrs)	2,575	2,423	602	-	-	-	-	-	-	-
Capacity Utilization %	41.4	49.54	44.17	0	0	0	-	-	-	-
Lime (Kg/TC)	1.17	0.88	0.71	0	0	-	-	-	-	-
Sulphur (Kg/TC)	-	-	-	-	-	-	-	-	-	-
Sugar colour (ICUMSA) Units	-	-	-	-	-	-	-	-	-	-
Banker oil (M3)	-	-	-	-	-	-	-	-	-	-
Wood Fuel (Tonnes)	1,343.69	539.75	278.87	-	0	-	-	-	-	-

**Notes.**

*Soin Sugar Company has no laboratory and does sample testing from neighbouring factories. However, the factory close down in June 2014.*

**TABLE 35: FACTORY PERFORMANCE OF KIBOS SUGAR & ALLIED INDUSTRIES LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	75	75	75	145	125	125	125	125	125	125
Actual (TCH)	70.12	88.54	86.97	131.5	126.74	111.19	123.89	120.26	137.75	142.57
Cane Crushed (MT)	433,291	624,633	471,389	908,915	864,194	671,426	832,272	653,443	1,000,076	791,243
Sugar Made (MT)	26,179	49,688	39,428	77,870	69,347	52,260	66,751	53,568	85,507	67,880
Sugar Bagged (MT)	19,528	49,696	39,415	77,801	69,467	52,110	66,599	53,249	85,339	68,139
Sugar sold (MT)	17,567	50,550	36,808	72,305	68,802	52,190	67,235	52,977	85,654	67,420
Cane/Sugar (TC/TS)	16.55	12.57	11.96	11.67	12.46	12.85	12.47	12.20	11.70	11.66
Rendement (%)	6.04	7.95	8.36	8.57	8.02	7.78	8.02	8.20	8.55	8.58
Molasses Produced (T)	12,206	17,530	12,782	30,756	23,845	23,046	17,677	12,725	33,614	28,056
Molasses Sales (T)	13,391	17,523	12,158	31,453	22,027	24,389	17,219	12,581	34,421	26,485
Molasses % Cane	2.82	2.81	2.71	3.38	2.76	3.43	2.12	1.95	3.36	3.55
Bagasse Produced (Tonnes)	179,487	251,125	192,815	350,088	338,320	254,125	355,113	255,914	397,105	335,326
Bagasse % Cane	41.42	40.20	40.90	38.52	39.15	37.85	42.67	39.16	39.71	42.38
Pol % Cane	8.68	10.21	10.51	10.86	10.27	10.04	10.26	10.1327273	10.64	10.59
Fibre % Cane	19.41	18.15	18.46	17.91	17.42	17.32	19.1	18.6609091	18.83	19.58
Pol % Bagasse	2.76	2.78	2.87	2.8	2.71	2.42	2.57	1.92818182	1.84	1.95
Red Boiling House Recovery (%)	89.76	90.96	90.77	90.03	90.43	88.84	90.73	90.0763636	90.17	90.05
Red Mill Extraction (%)	92.51	91.95	88.46	91.18	92.09	93.67	93.96	95.18	95.82	95.47
Reduced Overall Recovery (%)	82.92	83.56	80.32	82.08	83.28	82.91	85.24	85.8872727	86.41	85.97
Actual Grinding Time (Hrs)	6,242	7,055	5,418	6,881	6,819	6,039	6,717	5,433	7,260	5,550
Stoppage Due To No Cane (Hrs)	549	519	980	525	960	1,288	789	896	79	38
Stoppage Due to Factory (Hrs)	467	700	364	712	548	210	440	275	625	726
Capacity Utilization %	79.50	101.81	82.95	70.14	80.65	61.59	80.11	65.02	91.16	72.24
Lime (Kg/TC)	1.39	1.08	1.06	1.09	1.21	1.3	1.22	1.36	1.14	1.16
Sulphur (Kg/TC)	0.00	0.00	0.00	0	0	0	0	0	0	0
Sugar colour (ICUMSA) Units-Mill white	0.00	-	-	-	-	-	-	-	-	-
Sugar colour (ICUMSA) Units- Brown	821.8	760.00	760.00	760	760	765	760	760	783	851
Banker oil (M3)	0.00	0.00	0.00	0	0	0	0	0	0	0
Wood Fuel (Tonnes)	120.00	120.00	0.00	0	0	0	0	0	0	0

**TABLE 36: FACTORY PERFORMANCE OF BUTALI SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	69.0	69.0	69.0	104.0	104.0	104.1	104.17	104.17	104	104
Actual (TCH)	57.0	64.1	80.84	87.31	106.06	92.17	88.56	89.94	113.49	118.26
Cane Crushed (MT)	415,546.0	429,547	591,469	496,602	853,708	483,931	707,301	574,338	895,241	751,035
Sugar Made (MT)	42,671.0	42,853	56,617	56,815	91,985	47,053	65,468	53,577	87,226	79,787
Sugar Bagged (MT)	42,671.0	42,763	56,853	56,815	91,991	47,053	65,292	53,577	87,227	79,787
Sugar sold (MT)	42,903.0	43,414	56,875	56,694	88,043	45,519	66,309	50,905	90,189	79,030
Cane/Sugar (TC/TS)	9.7	10.0	10.45	8.74	9.28	10.28	10.80	10.72	10.26	9.41
Rendement (%)	10.3	10.0	9.57	11.44	10.77	9.72	9.26	9.33	9.74	10.62
Molasses Produced (T)	14,363.00	13,551	17,801	14,009	27,871	18,513	26,113	21,905	31,712	26,214
Molasses Sales (T)	14,324	13,673	19,111	14,098	27,583	17,732	25,142	22,122	33,535	26,072
Molasses % Cane	3.5	3.15	3.01	2.82	3.26	3.83	3.69	3.81	3.54	3.49
Bagasse Produced (Tonnes)	147,857.0	141,760	200,103	182,273	300,862	182,097	262,596	209,659	308,193	237,989
Bagasse % Cane	35.6	33.00	33.83	36.70	35.24	37.63	37.13	36.50	34.43	31.69
Pol % Cane	12.1	11.8	11.48	13.15	12.46	11.34	11.09	10.83	11.64	12.73
Fibre % Cane	16.9	16.4	17.09	17.2	18.45	19.37	18.70	18.51	17.69	18.02
Pol % Bagasse	2.4	2.4	2.68	2.59	2.23	2.15	1.96	2.05	1.97	2.54
Red Boiling House Recovery (%)	91.7	91.0	90.72	90.09	89.82	90.06	89.08	88.71	89.08	88.09
Red Mill Extraction (%)	92.7	94.4	94.33	95.39	95.66	95.17	95.77	95.62	95.70	95.59
Reduced Overall Recovery (%)	86.7	85.8	85.32	85.92	85.91	85.88	85.5	84.91	85.97	84.22
Actual Grinding Time (Hrs)	7,287	6,713	7,317	6,292	7,723	5,198	7,964	6,386	7,888	6,351
Stoppage Due To No Cane (Hrs)	667	490	511	137	326	813	147	352	35	52
Stoppage Due to Factory (Hrs)	504	285	352	388	343	322	270	365	352	505
Capacity Utilization %	80.0	80.3	103.6	76.96	89.59	63.28	77.33	68.78	98.03	82.30
Lime (Kg/TC)	1.0	1.0	0.86	0.66	0.94	0.95	0.95	1.053	1.16	1.18
Sulphur (Kg/TC)	-	-	0.00	0	0	0	0.05	0	0.00	0
Sugar colour (ICUMSA) Units - Brown	820	771	694	655	705	833	775	693	720	589
Banker oil (M3)	-	-	0.00	0	0	0	0.04	0	0	0
Wood Fuel (Tonnes)	-	-	0.00	0	0	0	1	0	0	0

**Note*****Butali Sugar Company Ltd began operations in January 2011***



**TABLE 37: FACTORY PERFORMANCE OF TRANSMARA SUGAR COMPANY S LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	52	52	113	125	167	167	167	167	167	167
Actual (TCH)	49.3	62.9	83.2	72.3	128.42	95.44	116.13	128.05	149.52	156.36
Cane Crushed (MT)	183,059.0	404,735	549,194	525,210	851,708	415,340	730,632	760,179	805,627	1,031,187
Sugar Made (MT)	16,458.0	43,127	58,888	57,104	87,206	42,019	67,275	72,504	78,701	107,347
Sugar Bagged (MT)	16,770.0	43,126	58,887	57,107	88,819	42,025	67,040	72,011	78,761	107,233
Sugar sold (MT)	16,741.0	43,083	58,036	57,923	88,646	41,310	67,864	70,515	80,828	105,267
Cane/Sugar (TC/TS)	11.1	9.4	9.33	9.20	9.77	9.88	10.86	10.48	10.24	9.61
Rendement (%)	9.0	10.7	10.72	10.87	10.24	10.12	9.21	9.54	9.77	10.41
Molasses Produced (T)	6,785	15,917	22,055	19,444	32,446	17,928	28,966	29,211	29,572	35,035
Molasses Sales (T)	6,481	15,642	22,240	20,991	32,493	16,760	27,320	27,474	30,917	33,836
Molasses % Cane	3.7	3.93	4.02	3.70	3.81	4.32	3.96	3.84	3.67	3.40
Bagasse Produced (Tonnes)	60,680.0	129,705.0	177,023	178,687	282,105	138,800	241,516	244,697	257,711	325,969
Bagasse % Cane	33.1	32.0	32.2	34.0	33.1	33.4	33.1	32.2	32.0	31.6
Pol % Cane	11.2	12.4	12.77	12.5	12.31	11.78	11.30	11.55	11.84	12.44
Fibre % Cane	15.7	15.1	15.27	15.58	15.61	15.91	15.52	15.08	14.85	14.6
Pol % Bagasse	1.8	1.8	1.85	1.8	1.95	1.68	2.11	2.44	2.68	2.88
Red Boiling House Recovery (%)	91.6	90.8	89.82	91.06	92.1	91.3	91.46	91.62	91.45	91.12
Red Mill Extraction (%)	95.9	90.2	96.30	96.33	95.94	96.45	95.22	94.52	94.04	93.08
Reduced Overall Recovery (%)	87.8	82.0	86.50	87.72	88.37	88.06	87.08	86.59	85.99	85.53
Actual Grinding Time (Hrs)	3,334.0	6,434.0	6,599.0	6616	6,632	4,436	6,293	5,936	5,388	6,595
Stoppage Due To No Cane (Hrs)	3,759.0	1,028.0	34.0	143	234	1,294	428	428	284	528
Stoppage Due to Factory (Hrs)	65.0	228.0	173.0	74	974	585	1,351	1,413	1,936	1,050
Capacity Utilization %	39.2	81.5	128.6	57.18	58.18	31.49	50	52.07	54.95	70.63
Lime (Kg/TC)	2.1	1.0	0.8	1.1	1.08	1.28	1.27	1.405	1.28	1.18
Sulphur (Kg/TC)	0.4	-	-	0.00	0	0	0	0	0	0
Sugar colour (ICUMSA) Units- Mill white	-	336	358	344	327	306	269	-	310	411
Sugar colour (ICUMSA) Units - Brown	882	-	-	-	368	578	605	751	734	665
Banker oil (M3)	-	-	-	0	0	0	0	0	0	0
Wood Fuel (Tonnes)	-	-	-	0	0	0	0	0	0	0

**Note****Transmara Sugar Company began operations in December 2011**

**TABLE 38: FACTORY PERFORMANCE OF SUKARI INDUSTRIES LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	63	63	63	104	125	125	125	117	117	146
Actual (TCH)	48.9	66.5	77.7	102.86	76.97	70.24	83.1	96.34	100.16	132.26
Cane Crushed (MT)	198,993.0	345,311	423,256	615,683	510,436	331,271	518,534	633,229	617,810	972,556
Sugar Made (MT)	17,781.0	35,033	42,083	60,727	48,617	25,337	44,383	54,067	55,436	96,156
Sugar Bagged (MT)*	17,199.0	35,113	42,143	60,717	48,343	29,542	60,401	68,657	63,146	96,156
Sugar sold (MT)	17,328.0	32,770	43,797	60,823	47,658	28,978	59,732	64,306	63,158	95,405
Cane/Sugar (TC/TS)	11.2	9.9	10.06	10.14	10.50	13.07	11.68	11.71	11.14	10.11
Rendement (%)	8.9	10.1	9.94	9.86	9.52	7.65	8.56	8.54	8.97	9.89
Molasses Produced (T)	7,345	11,615	14,733	21,345	17,755	13215	22,909	28,235	26,829	39,575
Molasses Sales (T)	6,429	9,705	16,297	18,086	15,615	11,674	17,821	31,427	30,388	37,940
Molasses % Cane	3.7	3.36	3.48	3.47	3.48	3.99	4.42	4.46	4.34	4.07
Bagasse Produced (Tonnes)	73,855.0	108,853.0	131,838.0	126,148	166,330	118,151	180,267	217,342	230,351	323,195
Bagasse % Cane	37.1	31.5	31.15	20.49	32.59	35.67	34.76	34.32	37.29	33.23
Pol % Cane	10.6	11.7	11.77	11.61	11.27	9.70	10.67	10.72	11.09	11.96
Fibre % Cane	17.7	15.5	14.90	14.89	16.17	15.94	16.00	15.73	16.96	15.41
Pol % Bagasse	-	2.0	2.01	2.03	2.17	2.37	2.24	2.51	2.33	2.20
Red Boiling House Recovery (%)	90.5	90.5	90.36	90.56	91.54	89.73	90.59	90.24	92.69	89.85
Red Mill Extraction (%)	95.4	95.8	95.65	95.37	94.78	93.61	94.46	93.92	94.49	95.25
Reduced Overall Recovery (%)	86.2	86.7	86.43	86.37	87.13	85.98	87.89	86.95	87.58	85.59
Actual Grinding Time (Hrs)	4,694	5,182	5,447	5,986	6,370	4,716	6,240	6,573	6,168	7,353
Stoppage Due To No Cane (Hrs)	3,753	2,073	479	654	1,617	2,526	1,501	669	289	327
Stoppage Due to Factory (Hrs)	561	1,027	981	965	331	225	548	664	1,129	759
Capacity Utilization %	38.7	68.2	88.4	74.15	47.66	30.27	50.69	61.96	65.63	76.13
Lime (Kg/TC)	1.9	2.0	2.1	2.01	1.04	1.39	1.16	1.00	1.04	0.90
Sulphur (Kg/TC)	-	-	-	0	0	0	0	0	0	0
Sugar colour (ICUMSA) Units- Mill white	0	0	0	0	0	0	0	354	368	373
Sugar colour (ICUMSA) Units- Brown	0	0	800+	800	581	583	446	551	689	373
Banker oil (M3)	-	-	-	0	0	0	0	0	0	0
Wood Fuel (Tonnes)	-	-	-	0	0	0	0	0	0	0

\* Sugar bagged in 2018, 2019 and 2020 include imported bulk processed sugar.

**Note**

Sukari Industries Ltd began operations in December 2011

**TABLE 39: FACTORY PERFORMANCE OF KWALE INTERNATIONAL SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	-	-	-		112.5	125.0	125	125	125	125
Actual (TCH)	-	-	-		115.5	101.7	132.44	91.94	86.36	85.65
Cane Crushed (MT)	-	-	-	119,647.0	293,915.0	201,643	172,312	18,020	264,352	30,042
Sugar Made (MT)	-	-	-	9,622.0	28,453.0	19,688	17,506	339	10,877	1,477
Sugar Bagged (MT)	-	-	-	13,439.0	28,453.0	19,689	17,570	339	10,875	1,477
Sugar sold (MT)	-	-	-	9,276.0	32,511.0	16,907	4,724	5,415	8,716	4,025
Cane/Sugar (TC/TS)	-	-	-	12.4	10.3	10.2	9.84	53.13	24.30	20.34
Rendement (%)	-	-	-	8.0	9.7	9.8	10.16	1.88	4.11	4.92
Molasses Produced (T)	-	-	-	5,657	13,068	5,588	5,884	559	19,791	2,411
Molasses Sales (T)	-	-	-	124.00	22,186.00	10,175	5,388	72	7,302	15,771
Molasses % Cane	-	-	-	4.7	4.4	2.77	3.41	3.10	7.49	8.03
Bagasse Produced (Tonnes)	-	-	-	-	114,720.0	70,129.6	61857	6,141	109,887	11,464
Bagasse % Cane	-	-	-	-	39.0	34.8	35.90	34.08	41.57	38.16
Pol % Cane	-	-	-		11.4	11.7	11.94	6.99	7.23	8.76
Fibre % Cane	-	-	-		17.2	17.4	17.13	16.68	19.79	18.27
Pol % Bagasse	-	-	-		1.7	1.7	1.73	1.66	1.58	1.52
Red Boiling House Recovery (%)	-	-	-		91.3	91.7	91.56	81.71	78.99	80.67
Red Mill Extraction (%)	-	-	-		96.3	96.3	96.39	94.09	94.83	95.78
Reduced Overall Recovery (%)	-	-	-		87.9	88.3	88.26	76.83	74.93	77.26
Actual Grinding Time (Hrs)	-	-	-		2,781	1,952	1,302	196	3,061	351
Stoppage Due To No Cane (Hrs)	-	-	-		155	724	824	87	4,837	7,646
Stoppage Due to Factory (Hrs)	-	-	-		179	565	28	56	162	11
Capacity Utilization %	-	-	-		89.9	47.1	63.76	19.38	24.09	2.74
Lime (Kg/TC)	-	-	-		1.5	1.5	0.09	0	1.61	1.21
Sulphur (Kg/TC)	-	-	-		-	-	0	0	0.03	0.01
Sugar colour (ICUMSA) Units - Brown	-	-	-		754.0	722.0	748	1070	958	925
Banker oil (M3)	-	-	-		-	-	0	0	16.5	0
Wood Fuel (Tonnes)	-	-	-		-	-	0	0	147.1	8

**Note**

*Kwale International Sugar Company Ltd began operations in March 2015*

**TABLE 40: FACTORY PERFORMANCE OF OLEPITO SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	-	-	-	-	-	-	29.2	52	52	31
Actual (TCH)	-	-	-	-	-	-	28.1	33.2	30.1	29.48
Cane Crushed (MT)	-	-	-	-	-	-	53,726	97,603	151,093	176,159
Sugar Made (MT)	-	-	-	-	-	-	4,051	8,044	11,926	15,741
Sugar Bagged (MT)	-	-	-	-	-	-	4,249	8,043	11,933	15,741
Sugar sold (MT)	-	-	-	-	-	-	4,801	7,812	12,292	14,971
Cane/Sugar (TC/TS)	-	-	-	-	-	-	13.3	12.1	12.7	11.19
Rendement (%)	-	-	-	-	-	-	7.5	8.2	7.9	8.94
Molasses Produced (T)	-	-	-	-	-	-	2,194	4,088	6,693	7,708
Molasses Sales (T)	-	-	-	-	-	-	2,169	3,888	7,087	7,628
Molasses % Cane	-	-	-	-	-	-	4.1	4.2	4.43	4.38
Bagasse Produced (Tonnes)	-	-	-	-	-	-	18,086	37,238	53,085	61,460
Bagasse % Cane	-	-	-	-	-	-	33.7	38.2	35.13	34.89
Pol % Cane	-	-	-	-	-	-	11.3	11.0	10.59	11.73
Fibre % Cane	-	-	-	-	-	-	15.9	15.7	16.41	15.83
Pol % Bagasse	-	-	-	-	-	-	3.4	2.7	2.44	3.23
Red Boiling House Recovery (%)	-	-	-	-	-	-	77.3	82.3	87.67	90.04
Red Mill Extraction (%)	-	-	-	-	-	-	77.2	92.0	94.50	93.14
Reduced Overall Recovery (%)	-	-	-	-	-	-	69.6	75.8	82.85	83.85
Actual Grinding Time (Hrs)	-	-	-	-	-	-	1,915	2,941	5,015	5,976
Stoppage Due To No Cane (Hrs)	-	-	-	-	-	-	4,871	932	543	48
Stoppage Due to Factory (Hrs)	-	-	-	-	-	-	1,580	1,764	1,992	1,380
Capacity Utilization %	-	-	-	-	-	-	42.5	31.1	33.1	64.35
Lime (Kg/TC)	-	-	-	-	-	-	1.4	1.2	1.1	1.14
Sulphur (Kg/TC)	-	-	-	-	-	-	-	-	-	-
Sugar colour (ICUMSA) Units - Brown	-	-	-	-	-	-	1,090.9	958.1	-	-
Banker oil (M3)	-	-	-	-	-	-	-	-	-	-
Wood Fuel (Tonnes)	-	-	-	-	-	-	-	-	-	-

**Note**

*Olepito Sugar Company Ltd began operations in November 2017*

**TABLE 41: FACTORY PERFORMANCE OF BUSIA SUGAR COMPANY LTD; 2012 - 2021**

ITEM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Rated Capacity (TCH)	-	-	-	-	-	-	-	125.0	125.0	125
Actual (TCH)	-	-	-	-	-	-	-	48.7	81.5	98.33
Cane Crushed (MT)	-	-	-	-	-	-	-	168,620	410,036	501,393
Sugar Made (MT)	-	-	-	-	-	-	-	10,912	31,978	47,723
Sugar Bagged (MT)	-	-	-	-	-	-	-	10,135	31,978	48,003
Sugar sold (MT)	-	-	-	-	-	-	-	10,135	31,960	46,392
Cane/Sugar (TC/TS)	-	-	-	-	-	-	-	15.5	12.8	10.51
Rendement (%)	-	-	-	-	-	-	-	6.5	7.8	9.52
Molasses Produced (T)	-	-	-	-	-	-	-	6,041	12,037	16,340
Molasses Sales (T)	-	-	-	-	-	-	-	6,100	11,516	16,678
Molasses % Cane	-	-	-	-	-	-	-	3.6	2.9	3.26
Bagasse Produced (Tonnes)	-	-	-	-	-	-	-	57,677	143,359	164,529
Bagasse % Cane	-	-	-	-	-	-	-	34.2	35.0	32.81
Pol % Cane	-	-	-	-	-	-	-	8.7	10.0	12.55
Fibre % Cane	-	-	-	-	-	-	-	15.0	16.4	15.78
Pol % Bagasse	-	-	-	-	-	-	-	2.5	2.2	1.23
Red Boiling House Recovery (%)	-	-	-	-	-	-	-	89.8	90.9	91.17
Red Mill Extraction (%)	-	-	-	-	-	-	-	92.3	94.2	95.30
Reduced Overall Recovery (%)	-	-	-	-	-	-	-	82.9	85.7	86.59
Actual Grinding Time (Hrs)	-	-	-	-	-	-	-	3,460	5,030	5,099
Stoppage Due To No Cane (Hrs)	-	-	-	-	-	-	-	3,427	1,196	428
Stoppage Due to Factory (Hrs)	-	-	-	-	-	-	-	380	1,222	1,812
Capacity Utilization %	-	-	-	-	-	-	-	18.4	37.2	45.79
Lime (Kg/TC)	-	-	-	-	-	-	-	1.4	1.3	1.29
Sulphur (Kg/TC)	-	-	-	-	-	-	-	-	-	-
Sugar colour (ICUMSA) Units - Brown	-	-	-	-	-	-	-	-	-	-
Banker oil (M3)	-	-	-	-	-	-	-	-	-	-
Wood Fuel (Tonnes)	-	-	-	-	-	-	-	-	-	-

**Note**

*Busia Sugar Company Ltd began operations in March 2019*

**TABLE 42: MONTHLY PRECIPITATION FOR CHEMELIL SUGAR COMPANY LTD.; 2012 - 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE</b>
JANUARY	0	15	54	1	118	64	40	12	N/A	79	42
FEBRUARY	24	17	87	34	29	108	87	73	N/A	93	61
MARCH	51	201	162	103	88	78	237	91	N/A	75	121
APRIL	292	297	90	282	256	191	N/A	N/A	N/A	131	220
MAY	152	126	193	200	253	173	214	N/A	176	215	189
JUNE	65	62	137	124	130	94	N/A	N/A	124	52	98
JULY	78	71	95	34	77	56	N/A	N/A	114	82	76
AUGUST	102	134	156	102	68	90	116	N/A	64	192	114
SEPTEMBER	136	210	131	101	112	144	106	N/A	126	91	129
OCTOBER	112	114	194	104	57	154	104	N/A	153	111	123
NOVEMBER	117	96	136	260	79	74	55	N/A	146	76	115
DECEMBER	395	122	69	158	23	33	147	N/A	91	64	122
<b>TOTAL</b>	<b>1,524</b>	<b>1,465</b>	<b>1,504</b>	<b>1,503</b>	<b>1,290</b>	<b>1,259</b>	<b>1,106</b>	<b>176</b>	<b>994</b>	<b>1,261</b>	<b>1,411</b>

**TABLE 43: MONTHLY PRECIPITATION FOR MUHORONI SUGAR COMPANY LTD.; 2012 - 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10YEAR AVERAGE</b>
JANUARY	-	134	36	-	292	53	17	15	85	133	77
FEBRUARY	-	235	9	62	73	141	68	80	88	106	86
MARCH	65	235	155	100	68	140	268	76	248	108	146
APRIL	357	383	64	276	227	55	438	109	333	137	238
MAY	252	197	158	203	253	196	324	391	180	136	229
JUNE	88	65	74	199	65	93	50	253	100	46	103
JULY	82	97	85	19	67	94	N/A	58	211	69	87
AUGUST	138	152	155	82	65	81	N/A	62	126	102	107
SEPTEMBER	137	174	90	69	119	113	113	208	102	200	133
OCTOBER	137	115	68	198	107	110	110	292	173	108	142
NOVEMBER	167	100	61	228	125	112	121	354	213	93	157
DECEMBER	217	92	68	249	13	55	14	313	82	54	116
<b>TOTAL</b>	<b>1,640</b>	<b>1,979</b>	<b>1,023</b>	<b>1,685</b>	<b>1,475</b>	<b>1,243</b>	<b>1,524</b>	<b>2,210</b>	<b>1,940</b>	<b>1,292</b>	<b>1,620</b>

**TABLE 44: MONTHLY PRECIPITATION FOR MUMIAS SUGAR COMPANY LTD., 2012 - 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE</b>
JANUARY	2	47	58	4	141	N/A	46	N/A	N/A	N/A	50
FEBRUARY	26	24	32	71	40	N/A	57	N/A	N/A	N/A	42
MARCH	38	263	178	123	105	N/A	230	N/A	N/A	N/A	156
APRIL	363	352	165	386	382	N/A	N/A	N/A	N/A	N/A	330
MAY	294	252	309	294	168	N/A	N/A	N/A	N/A	N/A	263
JUNE	214	94	154	278	106	N/A	N/A	N/A	N/A	N/A	169
JULY	120	49	89	103	65	N/A	N/A	N/A	N/A	N/A	85
AUGUST	147	154	194	111	120	N/A	N/A	N/A	N/A	N/A	145
SEPTEMBER	179	193	207	116	140	N/A	N/A	N/A	N/A	N/A	167
OCTOBER	282	209	185	244	155	N/A	N/A	N/A	N/A	N/A	215
NOVEMBER	190	140	233	272	134	170	N/A	N/A	N/A	N/A	190
DECEMBER	257	118	81	234	34	46	N/A	N/A	N/A	N/A	128
<b>TOTAL</b>	<b>2,112</b>	<b>1,895</b>	<b>1,885</b>	<b>2,236</b>	<b>1,589</b>	<b>216</b>	<b>333</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,940</b>



**TABLE 45: MONTHLY PRECIPITATION FOR NZOIA SUGAR COMPANY LTD.; 2012 - 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE</b>
JANUARY	0	30	94	4	104	80	17	33	209	88	66
FEBRUARY	79	10	32	18	22	68	23	85	110	95	54
MARCH	26	277	171	66	61	118	203	93	282	71	137
APRIL	367	502	95	410	372	204	548	174	485	363	352
MAY	240	185	411	181	330	279	446	391	261	212	294
JUNE	188	92	78	134	92	163	185	184	235	1	135
JULY	117	50	100	129	88	114	132	180	157	40	111
AUGUST	172	176	162	153	136	114	127	268	197	177	168
SEPTEMBER	282	185	173	101	117	193	177	228	290	298	204
OCTOBER	217	135	208	242	142	199	167	310	262	229	211
NOVEMBER	237	135	145	272	115	115	84	291	192	173	176
DECEMBER	124	138	40	106	19	24	68	244	34	41	84
<b>TOTAL</b>	<b>2,049</b>	<b>1,915</b>	<b>1,709</b>	<b>1,816</b>	<b>1,598</b>	<b>1,671</b>	<b>2,177</b>	<b>2,481</b>	<b>2,715</b>	<b>1,788</b>	<b>1,992</b>

**TABLE 46: MONTHLY PRECIPITATION FOR SOUTH NYANZA SUGAR COMPANY LTD.; 2012 - 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE</b>
JANUARY	11	76	51	3	92	71	62.4	44	165	84	66
FEBRUARY	79	7	40	44	32	56	28.8	63.26	152	85	59
MARCH	86	211	106	99	112	129	195.26	94	248	109	139
APRIL	279	332	147	232	175	144	233	168	322	253	229
MAY	271	166	113	186	194	98	223	214	251	145	186
JUNE	142	42	102	86	52	61	61	84	74	52	76
JULY	26	26	34	51	21	42	29	183	46	57	52
AUGUST	84	98	95	64	49	66	81	149	68	62	82
SEPTEMBER	138	139	94	112	316	112	81	130	99	152	137
OCTOBER	151	76	176	208	162	59	206	181	176	150	155
NOVEMBER	395	128	169	253	113	136	149	237	226	135	194
DECEMBER	177	139	90	203	54	124	155	209	117	117	139
<b>TOTAL</b>	<b>1,839</b>	<b>1,440</b>	<b>1,217</b>	<b>1,541</b>	<b>1,372</b>	<b>1,098</b>	<b>1,504</b>	<b>1,756</b>	<b>1,944</b>	<b>1,401</b>	<b>1,511</b>

**TABLE 47: MONTHLY PRECIPITATION FOR SUGAR RESEARCH INSTITUTE (KIBOS); 2012 - 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE</b>
JANUARY	0	50	95	2	9	71	58	0	302	205	79
FEBRUARY	6	83	109	22	34	133	105	96	28	86	70
MARCH	101	235	160	111	206	158	256	70	265	218	178
APRIL	358	259	74	551	618	124	421	127	418	317	327
MAY	227	137	131	215	255	124	184	112	202	252	184
JUNE	102	46	141	50	52	47	166	53	92	50	80
JULY	64	53	92	71	26	112	31	64	99	65	68
AUGUST	69	114	173	40	45	78	72	36	131	59	82
SEPTEMBER	141	188	148	491	152	80	44	143	305	62	175
OCTOBER	102	92	163	432	47	246	156	188	230	84	174
NOVEMBER	241	84	89	407	99	178	75	105	319	66	166
DECEMBER	305	129	125	201	6	54	133	408	143	0	150
<b>TOTAL</b>	<b>1,714</b>	<b>1,470</b>	<b>1,497</b>	<b>2,593</b>	<b>1,549</b>	<b>1,405</b>	<b>1,701</b>	<b>1,400</b>	<b>2,534</b>	<b>1,464</b>	<b>1,733</b>

NB.

*Sugar Research Institute is former defuncted Kenya Sugar Rearch Fundation (KESREF)*

**TABLE 48: MONTHLY PRECIPITATION FOR WEST KENYA SUGAR COMPANY LTD.; 2012 - 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>9 YEAR AVERAGE</b>
JANUARY	N/A	92	18	0	102	58	30	31	142	36	57
FEBRUARY	N/A	12	40	8	20	81	26	46	68	87	43
MARCH	N/A	168	64	84	105	97	218	36	238	60	119
APRIL	N/A	236	76	240	291	134	453	90	235	226	220
MAY	N/A	95	170	209	358	144	200	220	234	203	204
JUNE	N/A	110	173	178	134	96	216	259	155	76	155
JULY	N/A	87	73	101	53	88	191	155	155	99	111
AUGUST	N/A	181	160	112	139	201	122	170	119	111	146
SEPTEMBER	N/A	181	83	73	106	162	70	150	216	236	142
OCTOBER	N/A	83	118	140	91	125	128	184	159	91	124
NOVEMBER	N/A	64	83	250	54	88	13	205	67	39	96
DECEMBER	N/A	82	37	99	4	26	120	197	62	0	70
<b>TOTAL</b>	<b>-</b>	<b>1,392</b>	<b>1,095</b>	<b>1,494</b>	<b>1,457</b>	<b>1,300</b>	<b>1,787</b>	<b>1,743</b>	<b>1,850</b>	<b>1,264</b>	<b>1,487</b>

N/A: Data not available

**TABLE 49: MONTHLY PRECIPITATION FOR KWALE INTERNATIONAL SUGAR COMPANY ; 2012- 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>6 YEAR AVERAGE</b>
JANUARY	N/A	N/A	N/A	N/A	3	1	5	16	54	24	17
FEBRUARY	N/A	N/A	N/A	N/A	2	1	1	10	4	20	6
MARCH	N/A	N/A	N/A	N/A	6	29	131	2	158	42	61
APRIL	N/A	N/A	N/A	N/A	93	175	162	75	298	145	158
MAY	N/A	N/A	N/A	N/A	352	577	293	708	307	123	393
JUNE	N/A	N/A	N/A	N/A	346	95	347	101	128	87	184
JULY	N/A	N/A	N/A	N/A	280	40	175	42	56	61	109
AUGUST	N/A	N/A	N/A	N/A	37	44	158	67	30	18	59
SEPTEMBER	N/A	N/A	N/A	N/A	14	56	157	96	141	23	81
OCTOBER	N/A	N/A	N/A	N/A	16	113	127	419	100	10	131
NOVEMBER	N/A	N/A	N/A	N/A	97	320	47	95	150	10	120
DECEMBER	N/A	N/A	N/A	N/A	13	40	74	169	37	156	81
<b>TOTAL</b>	-	-	-	-	<b>1,259</b>	<b>1,491</b>	<b>1,677</b>	<b>1,800</b>	<b>1,463</b>	<b>719</b>	<b>1,401</b>

NB.

*Kwale Sugar Company began operations in 2015*

**TABLE 50: MONTHLY PRECIPITATION FOR SUKARI INDUSTRIES LTD ; 2012- 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>6 YEAR AVERAGE</b>
JANUARY	N/A	N/A	N/A	N/A	103	5	38	47	218	15	71
FEBRUARY	N/A	N/A	N/A	N/A	35	115	32	29	107	28	58
MARCH	N/A	N/A	N/A	N/A	94	178	121	130	283	79	148
APRIL	N/A	N/A	N/A	N/A	264	212	245	154	191	177	207
MAY	N/A	N/A	N/A	N/A	168	223	287	206	112	38	172
JUNE	N/A	N/A	N/A	N/A	76	32	30	119	64	31	59
JULY	N/A	N/A	N/A	N/A	16	53	36	96	42	5	41
AUGUST	N/A	N/A	N/A	N/A	58	39	140	127	81	22	78
SEPTEMBER	N/A	N/A	N/A	N/A	59	117	169	101	86	64	99
OCTOBER	N/A	N/A	N/A	N/A	83	165	151	243	153	96	149
NOVEMBER	N/A	N/A	N/A	N/A	139	233	116	218	282	89	180
DECEMBER	N/A	N/A	N/A	N/A	47	35	190	174	32	69	91
<b>TOTAL</b>	-	-	-	-	<b>1,142</b>	<b>1,407</b>	<b>1,555</b>	<b>1,644</b>	<b>1,651</b>	<b>713</b>	<b>1,352</b>

**TABLE 51: MONTHLY PRECIPITATION FOR TRANSMARA SUGAR COMPANY ; 2012 - 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>6 YEAR AVERAGE</b>
JANUARY	N/A	N/A	N/A	N/A	275	108	87	59	244	174	158
FEBRUARY	N/A	N/A	N/A	N/A	59	180	54	90	136	117	106
MARCH	N/A	N/A	N/A	N/A	225	274	237	112	392	126	228
APRIL	N/A	N/A	N/A	N/A	242	214	232	245	315	257	251
MAY	N/A	N/A	N/A	N/A	189	110	395	152	232	228	218
JUNE	N/A	N/A	N/A	N/A	81	117	133	136	142	54	111
JULY	N/A	N/A	N/A	N/A	4	38	62	70	54	56	47
AUGUST	N/A	N/A	N/A	N/A	73	170	153	165	130	100	132
SEPTEMBER	N/A	N/A	N/A	N/A	253	167	68	158	208	160	169
OCTOBER	N/A	N/A	N/A	N/A	192	144	153	153	142	183	161
NOVEMBER	N/A	N/A	N/A	N/A	186	174	66	255	265	173	186
DECEMBER	N/A	N/A	N/A	N/A	128	195	155	248	110	116	159
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,906</b>	<b>1,891</b>	<b>1,796</b>	<b>1,843</b>	<b>2,370</b>	<b>1,744</b>	<b>1,925</b>

**TABLE 52: MONTHLY PRECIPITATION FOR OLEPITO SUGAR COMPANY; 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>YEAR AVERAGE</b>
JANUARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	83	83
FEBRUARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	156	156
MARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120	120
APRIL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	105	105
MAY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98
JUNE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	59	59
JULY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	9
AUGUST	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	68	68
SEPTEMBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	85	85
OCTOBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94	94
NOVEMBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	91	91
DECEMBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	5
<b>TOTAL</b>	-	-	-	-	-	-	-	-	-	<b>973</b>	<b>973</b>



**TABLE 53: MONTHLY PRECIPITATION FOR KIBOS SUGAR AND ALLIED INDUSTRIES LIMITED ; 2021 (MM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>YEAR AVERAGE</b>
JANUARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	89	89
FEBRUARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	84	84
MARCH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	107	107
APRIL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	242	242
MAY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	232	232
JUNE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76	76
JULY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	70	70
AUGUST	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	134	134
SEPTEMBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	160	160
OCTOBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	121	121
NOVEMBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	89	89
DECEMBER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	69	69
<b>TOTAL</b>	-	-	-	-	-	-	-	-	-	<b>1,473</b>	<b>1,473</b>

**TABLE 54: WORLD PRODUCTION, CONSUMPTION AND FINAL STOCKS OF CENTRIFUGAL SUGAR;  
2008/09 - 2021/2022 ("000" TONNES)**

YEAR	PRODUCTION	CONSUMPTION	FINAL STOCK	STOCK % OF CONSUMPTION
2008/2009	142,961	151,525	70,692	47
2009/2010	148,391	151,965	67,114	44
2010/2011	156,177	153,101	70,195	46
2011/2012	163,597	157,989	75,807	48
2012/2013	171,804	163,708	83,953	51
2013/2014	174,145	165,491	92,994	56
2014/2015	169,556	165,938	96,489	58
2015/2016	164,253	169,093	91,414	54
2016/2017	168,373	171,478	88,211	51
2017/2018	182,966	175,193	92,706	53
2018/2019	175,888	174,217	95,089	52
2019/2020	171,156	170,274	97,608	57
2020/2021	169,032	171,326	96,550	56
2021/2022	170,512	172,440	94,425	55

Source: International Sugar Organization - World Sugar Balances, 2005/2006 - 2017/18; Quarterly Market Outlook and various Market Reports, February 2022.

**TABLE 55: INTERNATIONAL SUGAR AGREEMENT DAILY PRICE FOR RAW SUGAR - QUARTERLY AND ANNUAL;  
2012 - 2021 (F.O.B and Stowed Caribbean Port in bulk, in US cents/lb)**

<b>YEAR</b>	<b>FIRST QUARTER</b>	<b>SECOND QUARTER</b>	<b>THIRD QUARTER</b>	<b>FOURTH QUARTER</b>	<b>ANNUAL AVERAGE</b>
2012	23.93	21.34	21.25	19.65	21.54
2013	18.54	17.50	17.09	17.63	17.69
2014	16.71	18.02	17.17	16.09	17.00
2015	14.36	12.99	12.04	14.37	13.44
2016	14.26	17.23	20.42	20.33	18.06
2017	19.56	15.37	14.47	14.55	15.99
2018	13.58	12.29	11.4	12.92	12.55
2019	12.83	12.71	12.51	12.92	12.74
2020	13.62	11.09	12.71	13.98	12.85
2021	15.65	16.94	18.91	19.16	17.67

*Source: International Sugar Organisation*

**TABLE 56: MONTHLY AND ANNUAL INTERNATIONAL SUGAR AGREEMENT (ISA) DAILY PRICES FOR RAW SUGAR; 2012- 2021**  
**(f.o.b & stowed Caribbean port, in bulk, in US cents/lb)**

<b>MONTH</b>	<b>10 YEAR AVERAGE 2011 - 2020</b>	<b>5 YEAR AVERAGE 2017- 2021</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
JANUARY	16.41	15.32	23.56	18.89	15.63	15.34	14.05	20.33	14.09	12.81	14.15	15.20
FEBRUARY	16.48	15.58	24.12	18.28	16.61	14.59	13.28	20.28	13.57	12.96	14.87	16.20
MARCH	16.03	14.25	24.10	18.46	17.90	13.16	15.44	18.08	13.07	12.71	11.83	15.54
APRIL	15.41	13.53	22.75	17.80	17.61	13.08	15.23	16.44	12.03	12.81	10.21	16.16
MAY	15.62	13.81	20.81	17.62	18.27	13.43	17.01	16.06	12.35	12.40	10.96	17.26
JUNE	15.62	13.71	20.47	17.09	18.17	12.46	19.45	13.60	12.50	12.92	12.10	17.41
JULY	15.95	13.83	22.88	16.84	18.26	12.77	19.60	14.64	11.74	12.82	12.28	17.69
AUGUST	15.71	14.07	20.88	17.03	17.22	11.50	20.13	14.37	11.09	12.32	13.10	19.48
SEPTEMBER	15.73	14.10	19.99	17.40	16.02	11.86	21.53	14.39	11.37	12.39	12.76	19.57
OCTOBER	16.50	14.63	20.31	18.66	16.75	13.91	22.22	14.34	13.28	12.57	13.73	19.24
NOVEMBER	16.17	14.72	19.34	17.68	16.19	14.55	20.29	14.34	12.91	12.79	14.13	19.43
DECEMBER	15.83	14.79	19.31	16.55	15.33	14.64	18.49	14.98	12.65	13.41	14.08	18.81
<b>ANNUAL AVERAGE</b>	<b>15.95</b>	<b>14.36</b>	<b>21.54</b>	<b>17.69</b>	<b>17.00</b>	<b>13.44</b>	<b>18.06</b>	<b>15.99</b>	<b>12.55</b>	<b>12.74</b>	<b>12.85</b>	<b>17.67</b>

Source: International Sugar Organization

**TABLE 57: MONTHLY AND ANNUAL LONDON DAILY SPOT RAW SUGAR PRICES; 2012 - 2021\***  
**(C.I.F UK ports , in bulk ,in US \$ per tonne )**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE 2012- 2021</b>
JANUARY	519.22	416.34	344.49	338.09	309.75	448.07	310.63	282.41	311.94	335.08	361.60
FEBRUARY	531.56	402.89	366.08	321.56	292.77	446.97	299.16	285.72	327.81	357.13	363.17
MARCH	531.12	406.86	394.52	290.05	340.39	398.48	288.14	280.20	260.79	342.58	353.31
APRIL	501.36	392.31	388.12	288.28	335.76	362.34	265.21	282.41	225.08	356.25	339.71
MAY	458.61	388.34	402.67	296.00	375.00	353.96	272.27	273.37	241.61	380.50	344.23
JUNE	451.12	376.66	400.47	274.62	428.79	299.74	275.58	284.83	266.74	383.80	344.24
JULY	504.23	371.15	402.45	281.45	432.10	322.67	258.82	282.63	270.71	389.98	351.62
AUGUST	460.15	375.34	379.53	253.46	443.79	316.71	244.49	271.61	288.79	429.44	346.33
SEPTEMBER	440.54	383.50	353.08	261.39	474.65	317.16	250.66	273.15	281.29	431.42	346.68
OCTOBER	447.59	411.27	369.17	306.58	489.86	316.14	292.77	277.12	302.68	424.15	363.73
NOVEMBER	426.21	389.67	356.83	320.68	447.31	316.14	284.61	281.97	311.50	428.33	356.33
DECEMBER	425.59	364.76	337.87	322.67	407.63	330.25	278.88	295.64	310.39	414.67	348.84
<b>ANNUAL AVERAGE</b>	<b>474.78</b>	<b>389.92</b>	<b>374.61</b>	<b>296.24</b>	<b>398.15</b>	<b>352.39</b>	<b>276.77</b>	<b>280.92</b>	<b>283.28</b>	<b>389.44</b>	<b>351.65</b>

**Source: International Sugar Organization**

**NOTE:** \* The London Daily Price (LDP) for both raw and white sugar ceased to be fixed or published from 1 July 2006. To keep the consistency of the long-term series of the ISA daily prices, the ISO calculates the ISA daily price as a simple average of the close quotes for the first three future positions of New York Board of Trade Sugar Contract No. 11.

**TABLE 58: MONTHLY AND ANNUAL LONDON DAILY SPOT WHITE SUGAR PRICES; 2012 - 2021\***  
*(f.o.b. & Stowed, European ports, in 50-kg. Bags - US\$ per tonne)*

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE 2012 - 2021</b>
JANUARY	620.66	505.36	424.34	397.60	415.73	539.72	371.55	348.56	387.73	438.74	445.00
FEBRUARY	634.83	499.06	454.76	384.16	388.39	544.62	358.67	349.93	413.87	460.41	448.87
MARCH	638.24	518.01	471.84	364.76	436.29	504.76	353.76	341.27	352.02	445.32	442.63
APRIL	601.56	500.88	468.19	367.19	438.45	465.07	337.07	336.46	326.15	446.37	428.74
MAY	555.14	482.20	478.00	365.20	474.05	442.24	331.65	328.26	347.47	458.95	426.32
JUNE	571.02	483.03	476.27	351.98	527.53	396.54	343.84	334.67	368.07	449.10	430.20
JULY	621.14	477.42	458.03	358.59	541.33	397.45	329.44	322.50	352.96	453.30	431.22
AUGUST	568.77	484.63	437.52	340.96	538.80	380.05	314.70	317.48	372.76	484.38	424.00
SEPTEMBER	560.66	485.20	421.61	348.67	570.76	371.92	328.59	320.97	363.28	501.23	427.29
OCTOBER	557.85	499.90	428.59	388.34	594.49	374.28	361.85	339.13	389.41	507.72	444.16
NOVEMBER	521.88	471.25	420.59	400.69	549.10	390.78	345.43	339.70	403.04	509.50	435.20
DECEMBER	518.54	449.61	397.97	409.06	502.67	377.44	343.58	355.67	399.31	498.17	425.20
<b>ANNUAL AVERAGE</b>	<b>580.86</b>	<b>488.05</b>	<b>444.81</b>	<b>373.10</b>	<b>498.13</b>	<b>432.07</b>	<b>343.34</b>	<b>336.22</b>	<b>373.01</b>	<b>471.10</b>	<b>434.07</b>

**Source: International Sugar Organization**

**NOTE:** \* The London Daily Price (LDP) for both raw and white sugar ceased to be fixed or published from 1 July 2006. To keep the consistency of the long-term series, White Sugar Price Index is a simple average of the close quotes for the first two future positions of White Sugar Contract in Euronext liffe, UK.

**TABLE 59: EX-FACTORY SUGAR PRICES IN 2012 - 2021 (KSHS. PER TONNE)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE 2012 - 2021</b>
JANUARY	117,800	104,960	71,060	78,700	86,640	107,960	72,520	81,640	84,700	94,586	90,057
FEBRUARY	89,640	92,840	70,640	73,780	79,420	101,300	74,900	77,360	85,880	90,008	83,577
MARCH	94,720	96,400	67,120	69,020	79,520	111,040	73,420	78,240	84,300	90,720	84,450
APRIL	89,160	96,000	67,260	72,020	81,740	123,080	74,160	79,800	88,340	90,243	86,180
MAY	92,300	108,720	70,640	73,320	85,520	145,840	76,460	92,640	85,260	88,532	91,923
JUNE	91,380	91,540	71,300	79,920	85,760	117,000	86,980	87,320	84,560	86,274	88,203
JULY	93,180	88,500	70,120	77,400	90,540	93,268	106,400	86,740	90,720	86,848	88,372
AUGUST	91,417	81,680	76,860	77,840	90,840	90,740	120,480	83,120	86,200	86,982	88,616
SEPTEMBER	102,800	81,560	82,840	78,580	102,260	85,200	118,700	80,940	88,440	89,697	91,102
OCTOBER	105,640	78,620	84,320	84,120	103,720	76,120	88,740	79,260	87,780	95,407	88,373
NOVEMBER	105,440	81,280	90,900	83,220	109,240	75,920	88,740	81,700	90,260	110,360	91,706
DECEMBER	105,120	75,220	81,300	92,900	110,980	74,860	85,420	94,580	94,900	106,080	92,136
<b>ANNUAL AVERAGE*</b>	<b>98,216</b>	<b>89,777</b>	<b>75,363</b>	<b>78,402</b>	<b>92,182</b>	<b>100,194</b>	<b>88,910</b>	<b>83,612</b>	<b>87,612</b>	<b>92,900</b>	<b>88,725</b>

\* Weighted

**TABLE 60: WHOLESALE SUGAR PRICES IN 2012 - 2021 (KSHS PER 50KG BAG)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE 2012 - 2021</b>
JANUARY	5,920	5,426	3,538	4,050	4,529	5,672	3,877	4,305	4,419	4,962	4,670
FEBRUARY	4,544	5,120	3,567	3,950	4,432	5,352	3,889	4,173	4,532	4,858	4,442
MARCH	4,810	5,330	3,495	3,691	4,145	6,174	3,959	4,131	4,644	4,721	4,510
APRIL	5,225	5,350	3,650	4,021	4,407	7,228	3,925	4,591	4,477	4,686	4,756
MAY	5,140	4,960	3,740	3,955	4,921	7,583	3,951	4,643	4,433	4,639	4,797
JUNE	4,822	4,840	3,750	4,365	4,599	5,870	5,138	4,744	4,449	4,560	4,714
JULY	4,891	4,680	3,650	4,098	4,853	4,567	5,498	4,441	4,717	4,585	4,598
AUGUST	4,827	4,321	4,347	4,060	4,913	4,624	6,723	4,379	4,635	4,579	4,741
SEPTEMBER	5,250	4,280	4,599	4,094	5,762	4,351	6,178	4,218	4,639	5,032	4,840
OCTOBER	5,356	4,260	4,675	4,376	5,545	4,182	4,781	4,246	4,574	5,384	4,738
NOVEMBER	5,558	4,250	4,916	4,362	5,965	4,107	4,691	4,444	4,990	6,125	4,941
DECEMBER	5,575	4,225	4,703	5,219	5,858	4,046	4,556	5,098	5,084	5,660	5,002
<b>ANNUAL AVERAGE</b>	<b>5,160</b>	<b>4,754</b>	<b>4,053</b>	<b>4,187</b>	<b>4,994</b>	<b>5,313</b>	<b>4,764</b>	<b>4,451</b>	<b>4,633</b>	<b>4,983</b>	<b>4,729</b>



**TABLE 61: RETAIL SUGAR PRICES IN 2012 - 2021 (KSHS PER KILOGRAM)**

<b>MONTH</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>10 YEAR AVERAGE 2012 - 2021</b>
JANUARY	151.11	127.00	110.00	110.00	112.00	130.32	106.94	112.20	109.62	114.55	118.37
FEBRUARY	121.44	125.00	100.00	100.00	107.24	127.71	104.65	108.15	108.81	112.00	111.50
MARCH	120.00	127.00	104.00	99.40	105.55	136.32	103.95	106.60	109.13	109.00	112.09
APRIL	122.50	130.00	104.00	107.50	105.70	153.67	101.65	108.37	108.15	108.00	114.95
MAY	125.30	125.80	108.00	100.69	110.73	178.90	100.79	114.85	107.35	109.00	118.14
JUNE	115.94	123.63	108.00	105.00	108.90	148.92	115.00	115.92	105.91	107.35	115.46
JULY	114.00	122.70	107.90	103.00	109.64	126.39	127.27	109.05	114.18	106.99	114.11
AUGUST	112.00	115.50	110.30	103.00	110.92	123.42	152.00	109.35	110.00	107.00	115.35
SEPTEMBER	114.70	119.30	103.00	105.00	128.65	120.31	146.21	105.98	109.39	112.81	116.53
OCTOBER	118.00	118.50	112.50	103.30	125.97	115.17	124.28	105.09	108.41	117.73	114.89
NOVEMBER	127.00	120.30	117.10	103.70	130.96	111.18	120.38	106.10	112.75	135.16	118.46
DECEMBER	127.34	119.50	118.70	113.30	130.94	111.70	117.34	114.15	115.21	131.65	119.98
<b>ANNUAL AVERAGE</b>	<b>122.44</b>	<b>122.85</b>	<b>108.63</b>	<b>104.49</b>	<b>115.60</b>	<b>132.00</b>	<b>118.37</b>	<b>109.65</b>	<b>109.91</b>	<b>114.27</b>	<b>115.82</b>

**TABLE 62: TIME UTILIZATION BY ALL SUGAR FACTORIES IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)						FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY				TOTAL TIME			
		SCHEDULED	NO CANE	FACTORY	OTHER				
CHEMELIL	2,972	1,202	327	4,011	248	8,760	42.47	33.93	45.70
MUHORONI	3,432	1,959	380	2,919	70	8,760	53.80	39.18	34.14
MUMIAS	0	0	0	0	0	0	N/A	N/A	N/A
NZOIA	2,783	684	1,251	2,328	1,714	8,760	53.88	31.77	39.52
SOUTH NYANZA	3,467	2,083	419	2,788	3	8,760	54.25	39.58	22.83
WEST KENYA	7,676	330	178	528	48	8,760	93.53	87.63	82.39
KIBOS	5,549	2,423	38	727	23	8,760	88.28	63.34	82.72
BUTALI	6,350	1,851	53	506	0	8,760	92.50	72.49	89.83
TRANSMARA	6,595	573	528	1,050	14	8,760	86.66	75.29	61.37
SUKARI	7,353	273	327	759	48	8,760	90.63	83.94	76.66
KWALE	350	744	7,646	11	9	8,760	96.92	4.00	34.87
OLEPITO	5,976	1,356	48	1,380	0	8,760	81.19	68.22	57.11
BUSIA	5,099	1,421	428	1,812	0	8,760	72.93	58.21	57.00
<b>TOTAL</b>	<b>57,602</b>	<b>14,899</b>	<b>11,623</b>	<b>18,819</b>	<b>2,177</b>	<b>105,120</b>	<b>75.59</b>	<b>54.80</b>	<b>57.01</b>

**TABLE 63: MONTHLY TIME UTILIZATION BY CHEMELIL SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)					TOTAL TIME	FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY							
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	272.00	57.00	8.00	400.00	7.00	744	40.48	<b>36.56</b>	<b>N/A</b>
FEBRUARY	294	53	12	291	22	672	50.26	<b>43.75</b>	<b>N/A</b>
MARCH	317	67	28	319	13	744	49.84	<b>42.61</b>	<b>40.19</b>
APRIL	188	58	9	448	17	720	29.56	<b>26.11</b>	<b>27</b>
MAY	189	76	103	314	62	744	37.57	<b>25.40</b>	<b>44</b>
JUNE	302	72	4	337	5	720	47.26	<b>41.94</b>	<b>58</b>
JULY	213	88	0	443	0	744	32.47	<b>28.63</b>	<b>56</b>
AUGUST	99	363	84	173	25	744	36.40	<b>13.31</b>	<b>50.54</b>
SEPTEMBER	256	129	50	281	4	720	47.67	<b>35.56</b>	<b>52.92</b>
OCTOBER	291	64	4	377	8	744	43.56	<b>39.11</b>	<b>47.18</b>
NOVEMBER	242	66	6	384	22	720	38.66	<b>33.61</b>	<b>40.28</b>
DECEMBER	309	109	19	244	63	744	55.88	<b>41.53</b>	<b>40.46</b>
<b>TOTAL</b>	<b>2,972</b>	<b>1,202</b>	<b>327</b>	<b>4,011</b>	<b>248</b>	<b>8,760</b>	<b>42.47</b>	<b>33.93</b>	<b>45.70</b>

**TABLE 64: MONTHLY TIME UTILIZATION BY MUHORONI SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)						FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY				TOTAL TIME			
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	355	105	-	282	2	744	55.73	<b>47.72</b>	<b>36.96</b>
FEBRUARY	326	119	-	227	-	672	58.95	<b>48.51</b>	<b>30.32</b>
MARCH	365	113	5	260	1	744	58.40	<b>49.06</b>	<b>19.22</b>
APRIL	319	140	4	248	9	720	56.26	<b>44.31</b>	<b>21.53</b>
MAY	244	249	28	222	1	744	52.36	<b>32.80</b>	<b>17.88</b>
JUNE	309	157	-	234	20	720	56.91	<b>42.92</b>	<b>23.06</b>
JULY	260	191	42	251	-	744	50.88	<b>34.95</b>	<b>21.37</b>
AUGUST	245	73	135	287	4	744	46.05	<b>32.93</b>	<b>46.10</b>
SEPTEMBER	257	160	85	202	16	720	55.99	<b>35.69</b>	<b>46.53</b>
OCTOBER	333	141	75	194	1	744	63.19	<b>44.76</b>	<b>51.08</b>
NOVEMBER	293	47	-	367	13	720	44.39	<b>40.69</b>	<b>45.97</b>
DECEMBER	126	464	6	145	3	744	46.49	<b>16.94</b>	<b>49.73</b>
<b>TOTAL</b>	<b>3,432</b>	<b>1,959</b>	<b>380</b>	<b>2,919</b>	<b>70</b>	<b>8,760</b>	<b>53.80</b>	<b>39.18</b>	<b>34.14</b>

**TABLE 65: MONTHLY TIME UTILIZATION BY MUMIAS SUGAR CO. LTD IN 2020 AND 2021\***

MONTH	TIME UTILIZATION IN 2021 (HOURS)					TOTAL TIME	FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY							
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
FEBRUARY	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
MARCH	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
APRIL	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
MAY	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
JUNE	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
JULY	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
AUGUST	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
SEPTEMBER	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
OCTOBER	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
NOVEMBER	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
DECEMBER	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
<b>TOTAL</b>	-	0	0	0	0	0	N/A	N/A	N/A

\* The factory did not produce sugar in 2020 & 2021

**TABLE 66: MONTHLY TIME UTILIZATION BY NZOIA SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)					TOTAL TIME	FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY							
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	355	40	123	174	52	744	67.11	<b>47.72</b>	<b>N/A</b>
FEBRUARY	194	136	50	239	53	672	44.80	<b>28.87</b>	<b>15.80</b>
MARCH	345	62	-	221	116	744	60.95	<b>46.37</b>	<b>36.16</b>
APRIL	213	92	73	185	157	720	53.52	<b>29.58</b>	<b>50.97</b>
MAY	266	56	31	195	196	744	57.70	<b>35.75</b>	<b>46.91</b>
JUNE	224	64	200	171	61	720	56.71	<b>31.11</b>	<b>46.81</b>
JULY	198	142	57	182	165	744	52.11	<b>26.61</b>	<b>48.39</b>
AUGUST	195	7	151	173	218	744	52.99	<b>26.21</b>	<b>43.15</b>
SEPTEMBER	172	-	99	240	209	720	41.75	<b>23.89</b>	<b>44.72</b>
OCTOBER	126	-	348	126	144	744	50.00	<b>16.94</b>	<b>37.63</b>
NOVEMBER	237	85	34	167	197	720	58.66	<b>32.92</b>	<b>21.67</b>
DECEMBER	258	-	85	255	146	744	50.29	<b>34.68</b>	<b>42.47</b>
<b>TOTAL</b>	<b>2,783</b>	<b>684</b>	<b>1,251</b>	<b>2,328</b>	<b>1,714</b>	<b>8,760</b>	<b>53.88</b>	<b>31.77</b>	<b>39.52</b>

**TABLE 67: MONTHLY TIME UTILIZATION BY SOUTH NYANZA SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)						FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY				TOTAL TIME			
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	400	77	32	235	-	744	62.99	53.76	18.55
FEBRUARY	330	75	14	253	-	672	56.60	49.11	15.37
MARCH	366	80	19	279	-	744	56.74	49.19	16.67
APRIL	243	85	68	324	-	720	42.86	33.75	10.42
MAY	269	19	54	402	-	744	40.09	36.16	5.64
JUNE	75	488	4	153	-	720	32.89	10.42	0.00
JULY	-	744	-	-	-	744	N/A	0.00	0.00
AUGUST	246	278	52	168	-	744	59.42	33.06	9.68
SEPTEMBER	372	51	18	279	-	720	57.14	51.67	54.03
OCTOBER	400	54	45	245	-	744	62.02	53.76	52.02
NOVEMBER	382	69	38	228	3	720	62.62	53.06	36.67
DECEMBER	384	63	75	222	-	744	63.37	51.61	54.97
<b>TOTAL</b>	<b>3,467</b>	<b>2,083</b>	<b>419</b>	<b>2,788</b>	<b>3</b>	<b>8,760</b>	<b>54.25</b>	<b>39.58</b>	<b>22.83</b>

**TABLE 68: MONTHLY TIME UTILIZATION BY WEST KENYA SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)					TOTAL TIME	FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY			SCHEDULED				
		NO CANE	FACTORY	OTHER					
JANUARY	677	8	20	39	0	744	94.55	<b>90.99</b>	<b>87.50</b>
FEBRUARY	626	0	3	43	0	672	93.57	<b>93.15</b>	<b>82.76</b>
MARCH	656	8	12	68	0	744	90.61	<b>88.17</b>	<b>76.61</b>
APRIL	637	11	26	46	0	720	93.27	<b>88.47</b>	<b>88.19</b>
MAY	656	0	48	40	0	744	94.25	<b>88.17</b>	<b>80.91</b>
JUNE	670	7	17	26	0	720	96.26	<b>93.06</b>	<b>89.58</b>
JULY	590	83	3	68	0	744	89.67	<b>79.30</b>	<b>79.30</b>
AUGUST	706	0	5	33	0	744	95.53	<b>94.89</b>	<b>81.18</b>
SEPTEMBER	620	35	20	45	0	720	93.23	<b>86.11</b>	<b>86.39</b>
OCTOBER	690	0	9	45	0	744	93.88	<b>92.74</b>	<b>76.34</b>
NOVEMBER	657	17	7	39	0	720	94.40	<b>91.25</b>	<b>89.44</b>
DECEMBER	491	161	8	36	48	744	93.17	<b>65.99</b>	<b>70.43</b>
<b>TOTAL</b>	<b>7,676</b>	<b>330</b>	<b>178</b>	<b>528</b>	<b>48</b>	<b>8,760</b>	<b>93.53</b>	<b>87.63</b>	<b>82.39</b>



**TABLE 69: MONTHLY TIME UTILIZATION BY KIBOS SUGAR & ALLIED INDUSTRIES LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)						FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY				TOTAL TIME			
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	481	204	-	57	2	744	89.41	<b>64.65</b>	<b>85.35</b>
FEBRUARY	570	28	-	73	1	672	88.65	<b>84.82</b>	<b>88.65</b>
MARCH	629	53	8	50	4	744	92.64	<b>84.54</b>	<b>79.97</b>
APRIL	647	32	2	35	4	720	94.87	<b>89.86</b>	<b>89.03</b>
MAY	575	65	15	87	2	744	86.86	<b>77.28</b>	<b>84.68</b>
JUNE	576	16	-	127	1	720	81.93	<b>80.00</b>	<b>87.08</b>
JULY	577	96	-	69	2	744	89.32	<b>77.55</b>	<b>85.89</b>
AUGUST	530	131	-	78	5	744	87.17	<b>71.24</b>	<b>76.21</b>
SEPTEMBER	-	720	-	-	-	720	N/A	<b>N/A</b>	<b>87.08</b>
OCTOBER	-	744	-	-	-	744	N/A	<b>N/A</b>	<b>87.63</b>
NOVEMBER	408	211	9	92	-	720	81.60	<b>56.67</b>	<b>80.28</b>
DECEMBER	556	123	4	59	2	744	90.41	<b>74.73</b>	<b>60.75</b>
<b>TOTAL</b>	<b>5,549</b>	<b>2,423</b>	<b>38</b>	<b>727</b>	<b>23</b>	<b>8,760</b>	<b>88.28</b>	<b>63.34</b>	<b>82.72</b>

**TABLE 70: MONTHLY TIME UTILIZATION BY BUTALI SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)						FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY				TOTAL TIME			
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	675	27	-	42	-	744	94.14	<b>90.73</b>	<b>96.24</b>
FEBRUARY	623	11	1	37	-	672	94.39	<b>92.71</b>	<b>96.41</b>
MARCH	630	51	1	62	-	744	91.04	<b>84.68</b>	<b>96.10</b>
APRIL	665	13	-	42	-	720	94.06	<b>92.36</b>	<b>94.72</b>
MAY	658	31	-	55	-	744	92.29	<b>88.44</b>	<b>94.49</b>
JUNE	611	-	46	63	-	720	90.65	<b>84.86</b>	<b>92.64</b>
JULY	650	14	-	80	-	744	89.04	<b>87.37</b>	<b>93.41</b>
AUGUST	672	19	-	53	-	744	92.69	<b>90.32</b>	<b>93.41</b>
SEPTEMBER	85	626	-	9	-	720	90.43	<b>11.81</b>	<b>88.33</b>
OCTOBER	-	744	-	-	-	744	N/A	<b>N/A</b>	<b>88.17</b>
NOVEMBER	497	179	-	44	-	720	91.87	<b>69.03</b>	<b>79.86</b>
DECEMBER	584	136	5	19	-	744	96.85	<b>78.49</b>	<b>64.11</b>
<b>TOTAL</b>	<b>6,350</b>	<b>1,851</b>	<b>53</b>	<b>506</b>	<b>-</b>	<b>8,760</b>	<b>92.50</b>	<b>72.49</b>	<b>89.83</b>

**TABLE 71: MONTHLY TIME UTILIZATION BY TRANSMARA SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)					TOTAL TIME	FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY			SCHEDULED				
		NO CANE	FACTORY	OTHER					
JANUARY	524	-	28	191	1	744	73.29	<b>70.43</b>	<b>61.69</b>
FEBRUARY	511	40	80	40	1	672	92.74	<b>76.04</b>	<b>65.80</b>
MARCH	573	48	31	89	3	744	86.56	<b>77.02</b>	<b>76.75</b>
APRIL	503	43	113	60	1	720	89.34	<b>69.86</b>	<b>53.06</b>
MAY	542	48	105	48	1	744	91.86	<b>72.85</b>	<b>57.53</b>
JUNE	573	70	52	24	1	720	95.98	<b>79.58</b>	<b>63.19</b>
JULY	571	11	16	146	-	744	79.64	<b>76.75</b>	<b>75.54</b>
AUGUST	580	68	21	74	1	744	88.69	<b>77.96</b>	<b>76.75</b>
SEPTEMBER	566	46	43	64	1	720	89.84	<b>78.61</b>	<b>54.17</b>
OCTOBER	606	38	6	92	2	744	86.82	<b>81.45</b>	<b>65.46</b>
NOVEMBER	525	36	25	134	-	720	79.67	<b>72.92</b>	<b>78.33</b>
DECEMBER	521	125	8	88	2	744	85.55	<b>70.03</b>	<b>8.20</b>
<b>TOTAL</b>	<b>6,595</b>	<b>573</b>	<b>528</b>	<b>1,050</b>	<b>14</b>	<b>8,760</b>	<b>86.66</b>	<b>75.29</b>	<b>61.37</b>

**TABLE 72: MONTHLY TIME UTILIZATION BY SUKARI INDUSTRIES LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)					TOTAL TIME	FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY			SCHEDULED				
		NO CANE	FACTORY	OTHER					
JANUARY	586	-	23	135	-	744	81.28	<b>78.76</b>	<b>81.99</b>
FEBRUARY	580	-	33	59	-	672	90.77	<b>86.31</b>	<b>77.01</b>
MARCH	598	1	30	115	-	744	83.87	<b>80.38</b>	<b>78.49</b>
APRIL	553	10	105	52	-	720	91.40	<b>76.81</b>	<b>77.08</b>
MAY	545	56	85	58	-	744	90.38	<b>73.25</b>	<b>82.66</b>
JUNE	642	19	19	40	-	720	94.13	<b>89.17</b>	<b>81.94</b>
JULY	685	10	8	39	2	744	94.61	<b>92.07</b>	<b>87.77</b>
AUGUST	691	21	1	28	3	744	96.11	<b>92.88</b>	<b>79.03</b>
SEPTEMBER	529	76	-	72	43	720	88.02	<b>73.47</b>	<b>78.75</b>
OCTOBER	672	18	2	52	-	744	92.82	<b>90.32</b>	<b>70.30</b>
NOVEMBER	647	17	5	51	-	720	92.69	<b>89.86</b>	<b>48.19</b>
DECEMBER	625	45	16	58	-	744	91.51	<b>84.01</b>	<b>N/A</b>
<b>TOTAL</b>	<b>7,353</b>	<b>273</b>	<b>327</b>	<b>759</b>	<b>48</b>	<b>8,760</b>	<b>90.63</b>	<b>83.94</b>	<b>76.66</b>

**TABLE 73: MONTHLY TIME UTILIZATION BY KWALE SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)						FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY				TOTAL TIME			
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	0	744	0	0	0	744	N/A	N/A	50.27
FEBRUARY	228	0	432	7	5	672	97.02	33.93	46.26
MARCH	122	0	614	4	4	744	96.83	16.40	42.07
APRIL	0	0	720	0	0	720	N/A	N/A	37.22
MAY	0	0	744	0	0	744	N/A	N/A	7.12
JUNE	0	0	720	0	0	720	N/A	N/A	9.72
JULY	0	0	744	0	0	744	N/A	N/A	34.68
AUGUST	0	0	744	0	0	744	N/A	N/A	45.97
SEPTEMBER	0	0	720	0	0	720	N/A	N/A	40.28
OCTOBER	0	0	744	0	0	744	N/A	N/A	42.34
NOVEMBER	0	0	720	0	0	720	N/A	N/A	38.19
DECEMBER	0	0	744	0	0	744	N/A	N/A	24.33
<b>TOTAL</b>	<b>350</b>	<b>744</b>	<b>7,646</b>	<b>11</b>	<b>9</b>	<b>8,760</b>	<b>96.92</b>	<b>4.00</b>	<b>34.87</b>

**TABLE 74: MONTHLY TIME UTILIZATION BY OLEPITO SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)						FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY				TOTAL TIME			
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	487	121.00	13.00	123.00	-	744	79.84	<b>65.46</b>	<b>56.18</b>
FEBRUARY	434	127	3	108	-	672	80.07	<b>64.58</b>	<b>59.34</b>
MARCH	536	82	-	126	-	744	80.97	<b>72.04</b>	<b>58.20</b>
APRIL	501	84	-	135	-	720	78.77	<b>69.58</b>	<b>57.08</b>
MAY	528	90.00	11.00	115.00	-	744	82.12	<b>70.97</b>	<b>49.87</b>
JUNE	412	203.00	-	105.00	-	720	79.69	<b>57.22</b>	<b>55.28</b>
JULY	548	93	-	103	-	744	84.18	<b>73.66</b>	<b>65.32</b>
AUGUST	498	163	-	83	-	744	85.71	<b>66.94</b>	<b>56.45</b>
SEPTEMBER	449	135	13	123	-	720	78.50	<b>62.36</b>	<b>63.61</b>
OCTOBER	565	69	8	102	-	744	84.71	<b>75.94</b>	<b>55.65</b>
NOVEMBER	510	93.00	-	117.00	-	720	81.34	<b>70.83</b>	<b>53.75</b>
DECEMBER	508	96	-	140	-	744	78.40	<b>68.28</b>	<b>54.57</b>
<b>TOTAL</b>	<b>5,976</b>	<b>1,356</b>	<b>48</b>	<b>1,380</b>	<b>-</b>	<b>8,760</b>	<b>81.19</b>	<b>68.22</b>	<b>57.11</b>

**TABLE 75: MONTHLY TIME UTILIZATION BY BUSIA SUGAR CO. LTD IN 2020 AND 2021**

MONTH	TIME UTILIZATION IN 2021 (HOURS)						FACTORY TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2021 (%)	OVERALL TIME EFFICIENCY IN 2020 (%)
	ACTUAL GRINDING TIME	STOPPAGES CAUSED BY				TOTAL TIME			
		SCHEDULED	NO CANE	FACTORY	OTHER				
JANUARY	507	107	47	83	-	744	85.93	68.15	53.63
FEBRUARY	411	179	8	74	-	672	84.74	61.16	64.08
MARCH	366	20	28	330	-	744	52.59	49.19	68.55
APRIL	439	32	130	119	-	720	78.67	60.97	51.11
MAY	422	79	100	143	-	744	74.69	56.72	62.37
JUNE	291	258	23	148	-	720	66.29	40.42	61.67
JULY	437	108	24	175	-	744	71.41	58.74	51.48
AUGUST	458	81	24	181	-	744	71.67	61.56	51.61
SEPTEMBER	490	28	8	194	-	720	71.64	68.06	55.69
OCTOBER	449	110	-	185	-	744	70.82	60.35	45.83
NOVEMBER	480	67	-	173	-	720	73.51	66.67	62.92
DECEMBER	349	352	36	7	-	744	98.03	46.91	58.74
<b>TOTAL</b>	<b>5,099</b>	<b>1,421</b>	<b>428</b>	<b>1,812</b>	<b>-</b>	<b>8,760</b>	<b>72.93</b>	<b>58.21</b>	<b>57.00</b>



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