

## NUTS AND OIL CROPS STATISTICAL REPORT 2018/2019

### a) Macadamia

**Table 1: Area under macadamia, production and the value 2018-2019**

COUNTY	Area (Ha)		Quantity in Metric tons (MT)		Values (Kshs) millions	
	2018	2019	2018	2019	2018	2019
BARINGO	198	202	544.6	480.8	81,691.5	67,312.0
BUSIA	182	184	0.8	0.7	101.4	91.0
EMBU	2,806	2,811	7,704.1	6,802.1	924,489.9	884,273.0
KIRINYAGA	1,722	1,731	4,484.7	3,959.6	717,548.8	593,940.0
MACHAKOS	331	335	916.9	809.5	119,202.2	109,282.5
NYANDARUA	320	322	822.4	726.1	98,696.4	90,762.5
MERU	2,714	2,823	7,601.2	6,711.2	1,064,177.8	973,124.0
MURANGA	4,661	4,670	12,523.2	11,057	1,628,018.6	1,547,980.0
KIAMBU	2,031	2,046	5,641.9	4981.3	789,859.0	757,157.6
NYERI	943	1002	2,342.4	2,068.1	316,219.2	285,397.8
TAITA TAVETA	177	179	486.3	429.4	64,672.1	69,054.6
THARAKA NITHI	589	594	1600.5	1,413.1	216,065.3	203,486.4
MAKUENI	-	101	-	42	-	5,502.0
TRANZ- NZOIA	-	121	-	56	-	7,168.0

ELGEYO MARAKWET	-	106	-	39	-	5,070.0
UASIN- GISHU	-	92	-	37	-	5,106.0
OTHERS	262	270	214.0	202	29,953.4	26,866.0
<b>TOTAL</b>	<b>16,936</b>	<b>17,589</b>	<b>44,883</b>	<b>39,814.9</b>	<b>6,052,714</b>	<b>5,633.592.4</b>

*Source: AFA-Nuts and Oil Crops Directorate*

The annual production of raw nuts in shell (RNI) of macadamia decreased by 11.3% from 41,614MT recorded in 2018 to 39,814.9 MT recorded in the year 2019. The reduced production is majorly attributed to losses across the various stages of the value chain including insect damage, premature harvesting (Picking or forcing nuts to fall) before maturity and inappropriate storage conditions resulting in mold infection. It is estimated that Kenya may have lost between 35% to 40% of the its harvest due to the reasons enumerated above.

Major losses were experienced in the traditional growing zone of Central Kenya. In the emerging production frontiers however minimal losses were recorded, with some counties recording increased production as new crop planted in the last four years starting bearing upon attaining maturity albeit in smaller quantities.

Productivity (yield per tree) averaged 40kg per tree per year from the mature bearing trees and 20kgs per tree per year from the recently established trees, this is still very low relative to the yield potential of about 70-100 kg/tree per year depending on the clone. The low productivity point to poor agronomic practices at farm level

The area currently covered by the macadamia crop estimated to have increased by 3.9% from 16,936 reported in 2018 to 17,589 hectares reported in 2019. This increment is as a result of expansion reported in the emerging growing counties in the Rift valley and western Regions such as Bungoma, Kakamega, Trans-Nzoia, Elgeyo Marakwet and Uasin Gishu. More macadamia growing expansion is also being reported the Eastern region such as Makueni and Machakos in addition to increased intercropping in the central region.

There were serious farm gate price fluctuations reported during the year under review, ranging between Ksh 50/Kg at the beginning of the harvesting season to an average of Ksh 200 per Kg at the peak of the harvesting season when buyers compete to acquire enough stocks to satisfy their needs. These fluctuations have been partly blamed on the Presence of a large number of intermediaries resulting poor a marketing structure which eats into the farmer's revenue.

The sound kernel recovery (i.e. the recovery of useful kernel from in-shell nuts) in Kenya averaged 15% during the year 2019 compared to over 35% recovery rate in Australia, South Africa and Hawaii. This has consistently affected Kenya's ranking as a global macadamia nut producer.

In terms of exports, Kenya has increased its competitiveness in terms of macadamia nut exports which account for 93% of its total production to USA, Netherlands, Germany, Hong Kong, Japan, Israel, Vietnam.

## b) Coconut

**Table 2: Area under coconut, Production and Value 2018-2019**

COUNTY	AREA (Ha)		Quantity(MT)		Value (Ksh.) Millions	
	2018	2019	2018	2019	2018	2019
KILIFI	40,225	41,432	44,044.32	52,853.2	2,402	2,219.8
KWALE	30,895	31,358	39,175.23	46,226.8	1,919.6	2,126.4
LAMU	10,503	10,713	5,887.40	6,770.5	282.6	304.7
MOMBASA	151	156	1,953.2	2,343.8	93.8	103.1
TAITA TAVETA	97	99	759.06	872.9	37.95	37.5
TANA RIVER	1,050	1,066	740.57	822.1	36.3	37.
<b>TOTAL</b>	<b>82,921</b>	<b>86,843</b>	<b>92,569</b>	<b>109,889.3</b>	<b>4,772</b>	<b>6,847.5</b>

Source: AFA-Nuts and Oil Crops Directorate

Coconut is predominant in the Coastal Counties of Mombasa, Kilifi, Kwale, Lamu, Tana River and Taita Taveta County. Currently the area under coconut is approximated at 86,843 which is a marginal increment from the 82,921 hectares reported in the year 2019. The acreage increased as a result of new plantings being undertaken by farmers on their own initiative in response to favorable prices for coconut products. Additionally, the increased acreage can also be attributed to the subsidy seedling program implemented by AFA through the nuts and oil crops Directorate through which farmers receive high quality planting material. Under the programme farmers receive seedlings at no cost save for transport, planting and land preparation costs. This coupled with the favorable weather conditions experienced last year motivated farmers to dedicate more land for coconut expansion.

The tree coconut tree population is estimated at over 10.2 million trees which are in bearing stage other than the newly established orchards. It is estimated that over 251.8 million pieces of mature coconuts were produced in the year 2019 alongside other products such as immature/tender nuts (25.6 million pieces), wine (159.2 Million liters) and brooms among others.

The average yield in 2019 was reported to be of 34 nuts per tree and increase from 28 nuts per tree reported in 2018. Generally, the improved yield resulted in an overall increased total quantity produced. The increased productivity is attributed to the above average rainfall received in the coastal region during throughout last year. It's Imperative to note however that the yield is still much lower than recommended resulting from poor agronomic practices.

As a result of the higher nuts supply, farm gate prices registered a major decline from an average of KES 15 in 2018 to an average of KES 10 reported in 2019 at farm gate. The quantities reported are a sum of three major coconut products which are toddy, mature nuts and tender nuts.

## a) Cashewnuts

**Table 3: Area under cashew nuts, production and value trends 2018 -2019**

COUNTY	Area (Ha)		Quantity ( MT)		Values (Ksh) Millions	
	2018	2019	2018	2019	2018	2019
KILIFI	9,412	9,460	4,344.92	4,779.4	244.62	244.36
KWALE	7,090	7,020	3,448.98	3,759.4	216.83	292.81
LAMU	5,384	5,438	3,422	3,754.0	252.75	18.62
TANA RIVER	195	185	156.33	173.5	10.78	15.78
TAITA TAVETA	428	430.14	235.1	258.6	15.27	5.76
Others	145.92	153.22	70.07	76.8	4.904	5.76
<b>Total</b>	<b>22,655</b>	<b>22,686</b>	<b>13,852</b>	<b>12,801.7</b>	<b>518.172</b>	<b>583.08</b>

*Source: AFA-Nuts and Oil Crops Directorate*

The Cashewnuts industry in Kenya has been experiencing a decline over the years resulting from general neglect, bush fires during the dry season and tree felling for fuel and wood, however in the last two years there has been renewed efforts for its revival. The major cashew nut producing counties include Kilifi, Kwale, Lamu, Tana River and Tharaka Nithi. In the year 2019 the total estimated area under cashew was reported to be 22,686 ha, which is a marginal improvement from the 22,655 ha reported in the year 2018.

The slight increment is attributed to efforts by industry stakeholders to supply free seedlings to farmers as part of the Cashewnuts industry revival strategy. This is aimed at increasing the raw material base for local processors. Additionally, the increased acreage can also be attributed to the subsidy seedling program implemented by AFA through the nuts and oil crops Directorate whereby high quality planting material are supplied to farmers at no cost save for transport, planting and land preparation costs. Kilifi has the highest area under the crop but with a relative similar productivity per unit area across all the counties.

Farm gate prices for raw cashew nuts(RCN) remained stable during most part of last year only recording an upsurge towards the end of the season due to increased competition and scarcity of the produce. The prices averaged Ksh 75 in Kwale county, Ksh 75 in Kilifi and Ksh 80 in Lamu during the harvest season. The market price for Kernel averaged Ksh 1000/Kg at cottage factory level across the production belt. It is however important to note that the farm gate prices are in most instances lower than those reported due to the high number of intermediaries who tend to share profits which would otherwise be available to farmers. Farmers also suffer losses resulting from faulty weigh scales which have been tampered with by the marking agents(brokers)

Most processors reported poor quality nut deliveries which were mostly under grade as a result of being discolored and moldy having overstayed on the ground before picked coupled with poor storage conditions and the higher rainfall received. Consequently, exports have been on a decline due to low nut quality.

### **Peanuts (Ground nuts)**

**Table 4: Area, Area under Peanuts, production and the value 2018-2019**

COUNTY	Area ( Ha)		Quantity(MT)		Value (Ksh) Million	
	2018	2019	2018		2018	2019
BARINGO	82	75	144	66.8	18.7	
BUNGOMA	678	644	941	716.2	125.1	
BUSIA	1,025	670	1136	745	147.7	
ELGEYO MARAKWET	4,025	5,109	4,692	5,679	600.5	
HOMABAY	5,958	4,132	5,810	3,677	790.2	
KAKAMEGA	1,624	1,322	2,006	1,176.6	250.7	
KISII	250	201	226	124.1	29.1	

KISUMU	1,421	932	1,991	690.6	248.8	
KWALE	69	53	104	47.17	14.3	
LAMU	83	89	85	87.9	9.7	
MERU	612	529	1,009	522.6	10	
MIGORI	995	814	1,161	804.2	161.4	
SIAYA	711	520	855	467.4	112	
TAITA TAVETA	41	26	62	19.3	8.6	
TANA RIVER	14	11	18	10	2.5	
THARAKA NITHI	106	96	129	94.8	16.7	
TRANS-NZOIA	39	56	51	49.8	7.14	
VIHIGA	614	560	771	346	98.7	
WEST POKOT	69	72	94	77.7	12.6	
Others	33	54	48	61	6.5	
<b>TOTAL</b>	<b>18,449</b>	<b>15,965</b>	<b>21,333</b>	<b>15,463</b>	<b>2,672.3</b>	

*Source: AFA-Nuts and Oil Crops Directorate*

In Kenya, peanuts(groundnuts) are the most popular among other types of nuts. Whereas the demand for peanut has been on the increase, production on the other hand has dived in the last decade. During the 2018/19 season overall production reduced by more than 5.3 Metric tons which translates to a 25% drop. The reduction was registered in the traditional producing belt comprising of Migori, Homa bay, Siaya, Busia and Vihiga Counties in Western and Nyanza region. On the converse, higher production was registered in the emerging producing counties of Elgeyo Marakwet, Trans-Nzoia and West Pokot.

Acreage under the crop is currently estimated at 15,965 hectares which is a significant drop from 18,449 hectares reported in 2018. The reduction is attributed to Soil degradation and nutrient depletion due to continuous cultivation on diminishing land sizes, inadequate use of fertilizers and minimal use of certified seed as farmers source their planting seed from the previous season's harvest.

Prices for Local Varieties remained stable during the year 2019 at Ksh 130/Kg (farm gate) and Ksh 180/Kg (Market), on the other hand the prices for improved varieties such as Kenya Fedha and Homa Bay Red averaged Ksh 150/Kg (farm gate) and Ksh 200/Kg(Market)

### **b) Bambara Groundnuts**

**Table 5: Area under Bambara, Production and Value 2018-2019**

COUNTY	Area (Ha)		Quantity (Mt)		Value (Ksh.) Millions	
	2018	2019	2018	2019	2018	2019
KWALE	7.5	4.9	53	35	15.9	12.2
BUNGOMA	7.7	7.3	68	63	19.04	19.5
VIHIGA	10.2	8.4	49	66.3	17.15	21
KAKAMEGA	77.6	67.2	801	597.5	264.33	173.1
LAMU	6.21	8.1	49	80	14.21	16.8
BUSIA	259.68	201.21	2,389	1,887.2	800.31	610
<b>Total</b>	<b>368.89</b>	<b>297.11</b>	<b>3,409</b>	<b>2,729</b>	<b>1,130</b>	<b>852.6</b>

*Source: AFA-Nuts and Oil Crops Directorate*

Bambara groundnuts production has been on the decline of the last three years and currently the are under the crop is estimated at 297 hectares down from 368.8 hectares reported in the year 2018 from the few counties where the crop is being produced in the western region. During the year2018/2019 season, the yield realized reduced by more



than 680 tons attributed mainly to the diminishing total area under the crop and productivity per unit area. The farm gate prices ranged between Ksh 250/Kg and Ksh 320/Kg in most parts of Western Kenya producing counties. The market prices were reported to be between Ksh 300/Kg and Ksh 400/Kg across various market outlets across the country.

**c) Sesame (Sim sim)**

**Table 6: Area under Sesame, production and value 2018 -2019**

COUNTY	Area (Ha)		Quantity ( MT)		Values (Ksh) Millions	
	2018	2019	2018	2019	2018	2019
BUNGOMA	16	12	14.2	10.2	1.04	0.99
BUSIA	720	490	418	363	47.9	39.9
HOMABAY	6	5	4	3.7	0.52	0.51
KAKAMEGA	5	7	3.6	5.7	0.46	0.77
LAMU	11,200	11,480	7,840	9,924	428.11	541.3
MANDERA	160	230	96	204	10.33	22.3
SIAYA	101	98	69	70.1	7.01	7.12
TANA RIVER	113	138	51.2	77.1	0.86	0.91
<b>Total</b>	<b>12,321</b>	<b>12,460</b>	<b>10,514</b>	<b>10,657.8</b>	<b>496.225</b>	<b>613.8</b>

*Source: AFA-Nuts and Oil Crops Directorate*

Generally, Sesame production has had an upward trajectory in the two years with major production taking place in Lamu county where farmers are producing targeting the export market. Acreage under the crop increased marginally by more than 100 hectares from 12,321ha reported in 2019 to 12,460 ha reported in 2018. The production volumes also grew marginally to 10,657.8 tons valued at KES 613.8 million up from 10514 tons valued at 613.8 tons reported the previous year. To a large extent the exponential growth in value was as a result of the improved farm gate prices in Lamu and Mandera Counties which account for a good chunk of Kenya's production.

## Highlight of Nuts and Oil Crops Exports

**Table 7: Exports of nuts and oil crops**

Product	Year – 2018		Year – 2019		Destination Countries
	Export Volume in (tons)	Exports Value in million (KES)	Export Volume in (tons)	Exports Value in million (KES)	
Macadamia	6,978.25	7,259.02	5,189.47	6,365.19	U.S.A, Germany, Netherlands, Japan, China, U.K, U.A.E
Coconut	798.69	628.54	832.12	589.21	Tanzania, Egypt, Rwanda, USA,
Cashewnuts	1,158	1,024	854	827	U.S.A Canada, U.K, Nigeria, Japan, U.S.A and U.A.E
Groundnuts	38.9	5.32	35.2	3.19	Uganda, Tanzania, South Sudan
Sesame	1,648	246.735	1,712	261.73	China, Japan, Yemen, Somalia
<b>Total</b>	<b>9,621.84</b>	<b>9,163.615</b>	<b>8,622.79</b>	<b>8,046.32</b>	

Source: Nuts and Oil Crops Directorate

The export volume for nuts and oil crops reduced by 1,667 tons from 9,621.84 tons recorded in the year 2017 to 9,163 tons recorded in 2018. The drop in volume was brought about by depressed macadamia kernel export volumes being the major export product in this category, the lower export volumes originated from losses across the various stages of the value chain including insect damage, premature harvesting (Picking or forcing nuts to fall) before maturity and inappropriate storage conditions resulting in mold infection.

Export performance has generally been good over the years especially for the macadamia subsector which is emerging as a promising export product. Globally, Kenya is ranked as the third largest exporter of Macadamias after Australia and South Africa respectively.

**Table 8: Imports of nuts and oil crops**

Product	Year – 2018		Year – 2019		Country of Origin
	Import Volume in (tons)	Imports Value in million (KES)	Import Volume in (tons)	Imports Value in million (KES)	
Cashewnuts	689	589.24	432	394.9	India, Tanzania, Mozambique, Brazil
Groundnuts	1,985	267.91	2,013	261.17	Malawi, Uganda
Macadamia	821	1,328.9	543	1,123.5	Australia, Zambia, South Africa
Coconut Products	3,069.11	689.21	3,721	732.89	India, Thailand, Malaysia, Philippines
<b>Total</b>	<b>6,564.11</b>	<b>2,875.26</b>	<b>6,709</b>	<b>2,512.46</b>	

Source: Nuts and Oil Crops Directorate

Although Kenya is a net exporter of nuts, the country imports some nuts for local consumption and also to bridge the raw materials deficit in her processing facilities.

The year 2019 registered increased imports in terms of volume and also in value from 6,564 tons valued at KES 3,346 Million to 6,709 tons valued at KES 2,512 Million realized in 2018. This increase in imports was brought about by peanuts imports from Uganda and Malawi as raw material for processing to complement the county's local production which has been experiencing a decline over the years. It should be note that groundnuts are the most consumed in the edible nuts category. Another contributor to the increased imports are manufactured edible and cosmetic coconuts products from Malaysia, India and Thailand to satisfy the country's demand.