



Beetroots



English Cucumber



Sweet Potato



Watermelon



Sweet melon



Lettuce



NAMIBIAN
AGRONOMIC BOARD

HORTICULTURE: PRODUCT PRODUCTION FORECAST

REPORT NO 3

**FORECASTED PERIOD:
01 JULY TO 30 NOVEMBER 2020**

**Agronomy and Horticulture Market Development
Division**

Horticulture Market Development Subdivision

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1. INTRODUCTION

Report no. 3, covers the local production forecast for the five special controlled products i.e. **Beetroot, English Cucumber, Sweet Potato, Watermelon and Sweet melon** as well as one monitored crops i.e. **Lettuce**. The production of the special controlled products is monitored by NAB and involves close border period whenever sufficient local production is expected, and this scheme is implemented in line with the market share promotion scheme. Monitored crops are those horticultural crops whose production is closely monitored, and have the greatest potential to be converted as special controlled products in the future. The production forecast covers a period of five (5) months and it is updated on a monthly basis, while field verifications are carried out on a quarterly basis. The special controlled products in this report are divided into the following categories: Inclusion and Exclusions: Inclusion involves all the specific sub- product types of special controlled products and can only be imported through the Special Import Permit during open border periods (see table 1A). Exclusion involves sub-product type of special controlled products that does not form part of the special controlled product scheme and can be imported using the mixed fruits and vegetable import permit. The objective the special controlled product scheme is stimulate local production of horticultural products in Namibia, as a growth at home strategy implemented by the NAB. This report seeks to discuss the following aspects, production forecast for the abovementioned crops per production area, active producers expecting controlled crops during the reporting season, analysis on the expected local production versus local demand and subsequently, hectares planted and expected average yield per hectare per crop.

Table 1A: Show the inclusions and exclusions of the special controlled products.

Product	Inclusions	Exclusions
1. Tomato	Tomatoes Round (Round shaped, red/partially red colour). Tomatoes Jam (Oval shaped, red / partially red colour), except the “Exclusions”.	All Small size type of tomatoes, i.e. Cherry, Cocktail, Bacio, Romanita, Rigoletto, and Medley mix, etc. All colours.
2. Green Pepper	All size groups and container size of Green Pepper, except the “Exclusions”.	Red Pepper, Yellow Pepper, and Orange Pepper, Peppers mix, etc.
3. Carrot	All size groups and container sizes of Orange fleshed Carrots as well as catering Orange Carrots full size or broken, except the “Exclusions”. -Red, Purple, White, Black, and Yellow Fleshed Carrots. 3. Pumpkins - All types.	Red, Purple, White, Black, and Yellow Fleshed Carrots.
4. Pumpkin	All types, size groups and container size of fresh/chilled whole or cut pumpkins.	All frozen, prepared or preserved pumpkins.

Whole: any fresh fruit or vegetable that have not been altered from its original form.

Cut: any fresh fruit or vegetable that has been physically altered from its original form, but remains in a fresh state.

Dried: any Fresh fruit or vegetable that have been dried or dehydrated, either whole or in pieces/cuts.

Frozen: any fresh fruits or vegetables that have had their temperature reduced and maintained to below their freezing point.

Chilled: any fresh fruit or vegetable with the temperature reduced to around 0C without the products being frozen.

Cooked: Refers to fruit and vegetables that are cooked by steaming or boiling in water, either whole or in pieces/cuts.

Preserved: Refers to fresh fruit and vegetables soaked in brine or vinegar, or other liquids, either whole or in pieces/cuts.

2. PRODUCTION FORECAST PER AREA












The forecasts of production indicated in table 1B below, are based on estimated hectares and probable yield expected by producers on five-months period (01July to 30 November 2020). Assuming average weather, diseases and insect conditions during the remainder of the growing period. Details are shown in table 1B below.

Table 1 B: EXPECTED PRODUCTION PER CROP PER PRODUCTION AREA													
PRODUCTION AREAS	CROPS	Numbers in the table represents the tonnage expected from each area										Total Tonnage Expected	Total Hectares Planted
		Jul-20		Aug-20		Sep-20		Oct-20		Nov-20			
		Local	Export	Local	Export	Local	Export	Local	Export	Local	Export		
ZAMBEZI REGION	Beetroot	0	0	0	0	0	0	0	0	0	0	0	0
	English Cucumber	0	0	0	0	0	0	0	0	0	0	0	0
	Sweet Potato	5	0	0	0	0	0	0	0	0	0	5	0
	Watermelon	0	0	7	0	0	0	0	0	0	0	7	0
	Sweetmelon	0	0	0	0	0	0	0	0	0	0	0	0
KAVANGO REGIONS	Lettuce	0	0	0	0	0	0	0	0	0	0	0	0
	Beetroot	10	0	0	0	0	0	0	0	0	10	1	
	English Cucumber	0	0	0	0	0	0	0	0	0	0	0	0
	Sweet Potato	0	0	0	0	0	0	8	0	0	0	8	0
	Watermelon	0	0	0	0	0	0	0	0	0	0	0	0
NORTH CENTRAL AREA	Sweetmelon	0	0	0	0	0	0	0	0	0	0	0	0
	Lettuce	0	0	0	0	0	0	0	0	0	0	0	0
	Beetroot	0	0	38	0	0	0	0	0	0	38	1	
	English Cucumber	0	0	0	0	0	0	0	0	0	0	0	0
	Sweet Potato	57	0	61	0	71	0	30	0	0	0	219	16
KARSTLAND AREA	Watermelon	135	0	123	0	232	0	378	0	0	0	868	30
	Sweetmelon	7	0	14	0	0	0	42	0	0	0	63	3
	Lettuce	0	0	0	0	0	0	0	0	0	0	0	0
	Beetroot	140	0	160	0	140	0	140	0	140	0	720	25
	English Cucumber	0	0	0	0	0	0	0	0	0	0	0	0
CENTRAL AREA	Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0
	Watermelon	0	0	0	0	30	0	0	0	60	0	90	2
	Sweetmelon	0	0	0	0	80	0	80	0	0	0	160	10
	Lettuce	30	0	30	0	30	0	30	0	30	0	150	6
	Beetroot	0	0	30	0	5	0	0	0	0	0	35	1
SOUTH AND ORANGE RIVER AREAS	English Cucumber	146	0	216	0	216	0	216	0	216	0	1,010	13
	Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0
	Watermelon	0	0	0	0	25	0	0	0	0	0	25	1
	Sweetmelon	0	0	0	0	5	0	0	0	0	0	5	0
	Lettuce	26	0	26	0	28	0	21	0	16	0	117	2
Total expected production per crop per month	Beetroot	0	0	0	0	0	0	0	0	0	0	0	0
	English Cucumber	0	0	0	0	0	0	0	0	0	0	0	0
	Sweet Potato	120	0	0	0	0	0	0	0	0	120	5	
	Watermelon	0	0	0	0	0	0	0	0	180	0	180	6
	Sweetmelon	0	0	0	0	0	0	0	0	180	0	180	6
Total expected production per crop per month	Lettuce	1	0	1	0	1	0	1	0	1	0	5	0
	Beetroot	150	0	228	0	145	0	140	0	140	0	803	28
	English Cucumber	146	0	216	0	216	0	216	0	216	0	1,010	13
	Sweet Potato	182	0	61	0	71	0	38	0	0	0	352	22
	Watermelon	135	0	130	0	287	0	378	0	240	0	1,170	40
Total expected production per crop per month	Sweetmelon	7	0	14	0	85	0	122	0	180	0	408	19
	Lettuce	57	0	57	0	59	0	52	0	47	0	272	8

Source:NAB,2020

3. EXPECTED AVAILABILITY

The expected availability calendar in table 2 below, show's producers that expect to harvest controlled crops covered in this report. The calendar indicates majorities of producers in the north central area expect to harvest sweet potatoes and watermelon during the reporting period. Whereas, English cucumber will be expected in central area only. Details for producers and crop expected to be available per producer in the reporting period are shown in table 2 below.

Table 2: EXPECTED AVAILABILITY OF THE SPECIAL CONTROLLED PRODUCTS																														
KEY : Beetroot =  English Cucumber =  Sweet Potato =  Watermelon =  Sweetmelon =  Lettuce = 																														
ZAMBEZI AREA																														
NAME OF PRODUCER	Local	Export	Jul-20					Aug-20					Sep-20					Oct-20					Nov-20							
			Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweetmelon	Lettuce	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweetmelon	Lettuce	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweetmelon	Lettuce	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweetmelon	Lettuce	Beetroot	English Cucumber	Sweet Potato	Watermelon
1 Clemens Makumbi	√																													
2 Altricks Muhapi	√																													
KAVANGO AREA																														
1 Toini Usiku	√																													
2 Mavuto Mwanza	√																													
NORTH CENTRAL AREA																														
1 Frans Ngaali	√																													
2 Johames Kalenga	√																													
3 Abner Shikongo	√																													
4 Emily Naunyang	√																													
5 Eugene Eugene	√																													
6 Immanuel Hambia	√																													
7 Innocens Kalola	√																													
8 Balbina Mundjele	√																													
9 Victoria Nghilokwa	√																													
10 Maria Paavo	√																													
11 Paulus Titus	√																													
12 Susan Sheehama	√																													
13 Thomas Negonga	√																													
14 Titus Kanyeke	√																													
15 Veiko Imalwa	√																													
16 Wilhelmina Heita	√																													
17 Abel Ashimbanga	√																													
18 Andreas Shihepo	√																													
19 Onesmus Nepembe	√																													
20 Wilhem Nangolo	√																													
21 Toivo Shivute	√																													
22 Johannes Shigwedha	√																													
23 Elifas Keendjele	√																													
24 Elise Auino	√																													
25 Lucas Nakale	√																													
26 Paulus Kapuka	√																													
27 Kahima Embubulu	√																													
28 Hafeni Hango	√																													
29 Marlize Erasmus	√																													
30 Petrus Atilifa	√																													

4. EXPECTED PRODUCTION VS DEMAND ANALYSIS

This section seeks to analyze and determines surplus or shortage for a particular crop during the reporting period and subsequently inform the closing and opening of border decision making.

4.1 TABULATION ANALYSIS

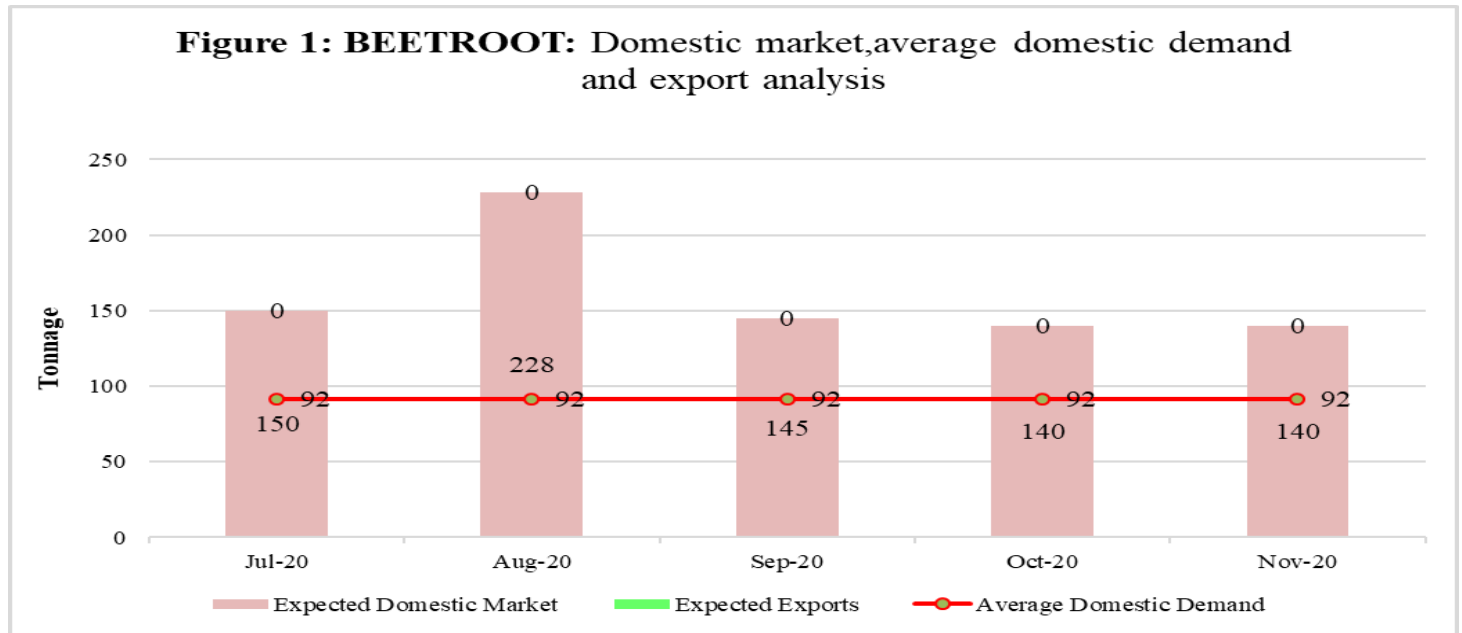
The production forecasts for controlled crops listed in table 3 below such as Watermelon and sweet melon are substantially below domestic use. This could be attributed by seasonality issues (e.g. watermelon and sweet melon). Despite that, beetroot and English cucumber production forecast exceeded domestic use. However, English cucumber availability kicks in end of July, suggesting the border to open on prorata (30%) to supplement local production in the first weeks. Sweet potato appears to be lower than domestic usage, however due to reported carry over stock the border will be closed until the stock is fully utilized. See details shown in table 3 below.

Table 3: EXPECTED PRODUCTION VERSUS DOMESTIC DEMAND ANALYSIS							
		Numbers in this table represents tonnage					
Crops	Expected Surplus or Shortage	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	TOTAL
Beetroot	Expected for domestic market	150	228	145	140	140	803
	Average domestic demand	92	92	92	92	92	458
	Surplus / shortage	58	136	53	48	48	345
English Cucumber	Expected for domestic market	146	216	216	216	216	1,010
	Average domestic demand	89	89	89	89	89	447
	Surplus / shortage	57	127	127	127	127	563
Sweet Potato	Expected for domestic market	172	61	71	38	0	342
	Average domestic demand	196	196	196	196	196	981
	Surplus / shortage	-24	-135	-125	-158	-196	-639
Watermelon	Expected for domestic market	135	130	287	378	240	1,170
	Average domestic demand	154	154	154	154	154	772
	Surplus / shortage	-19	-24	133	224	86	398
Sweetmelon	Expected for domestic market	7	14	85	122	180	408
	Average domestic demand	42	42	42	42	42	212
	Surplus / shortage	-35	-28	43	80	138	196
Lettuce	Expected for domestic market	57	57	59	52	47	272
	Average domestic demand	39	39	39	39	39	195
	Surplus / shortage	18	18	20	13	8	77

Source: NAB, 2020

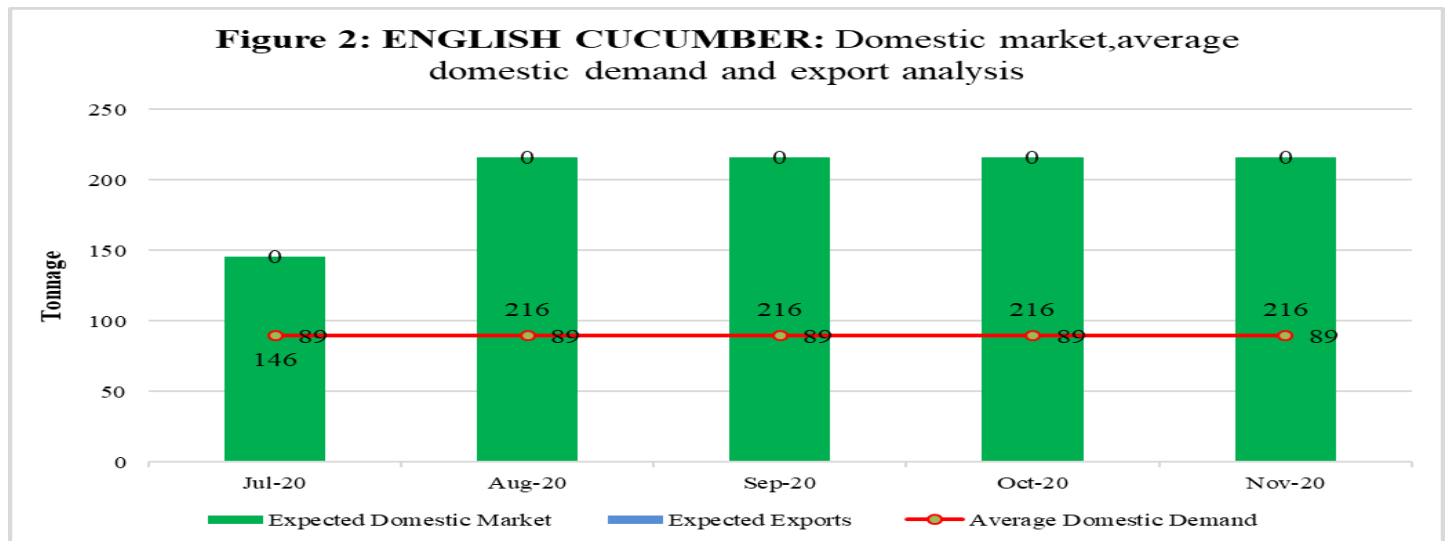
4.2 GRAPHICAL ANALYSIS

Figure 1 confirmed that, beetroots availability will be sufficient for the entire reporting period and the huge surplus is estimated to be noticed in August month. Details on expected local supply versus domestic use on beetroots are shown below in figure1.



Source: NAB, 2020

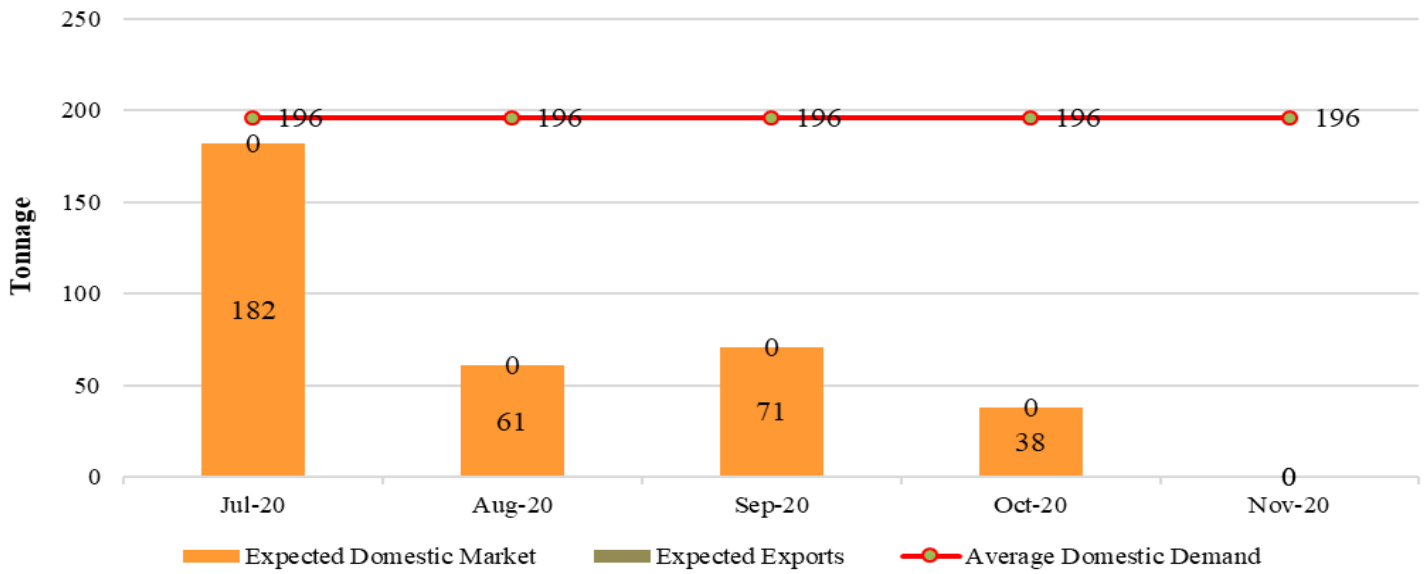
Based on Figure 2, it is evident that English cucumber availability meets the domestic usage for the entire reporting period. However, due to cold weather condition the production is estimated to increase somewhat in the last week of July towards August month. For details see figure 2 below.



Source: NAB,2020

According to Figure 3 the estimated sweet potatoes availability be slightly lower than domestic usage during the reporting season. However, some farmers still have carry over stock from June month. This could be triggered by Covid-19 pandemic market disruptions.

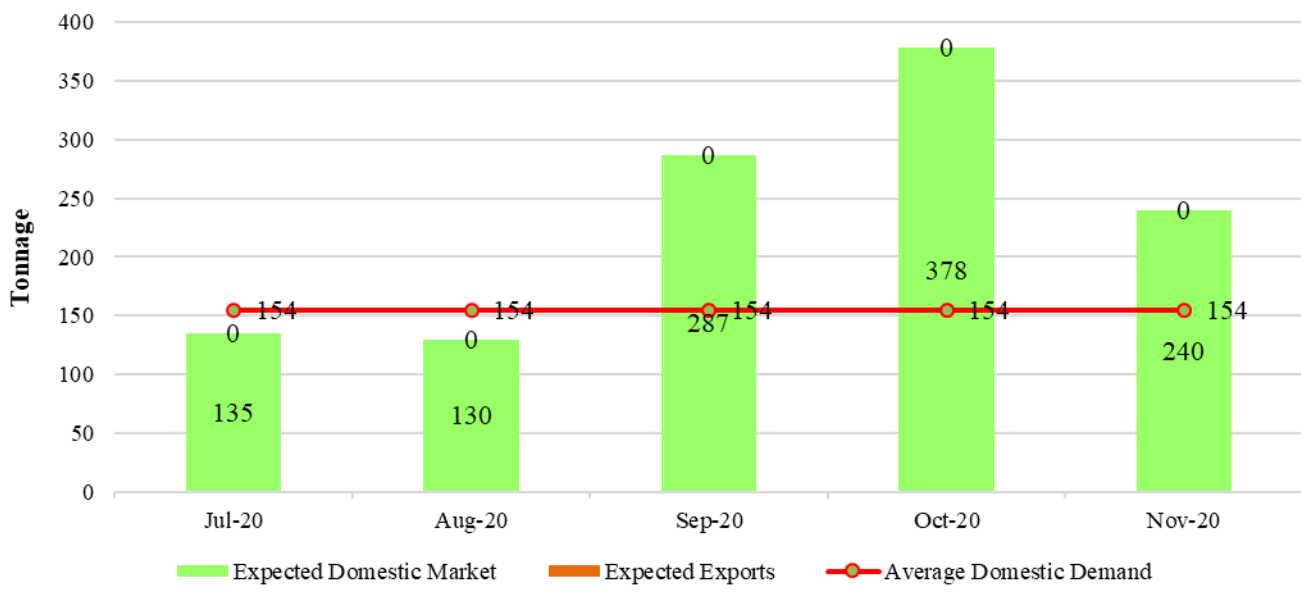
Figure 3: SWEET POTATO: Domestic market, average domestic demand and export analysis



Source: NAB, 2020

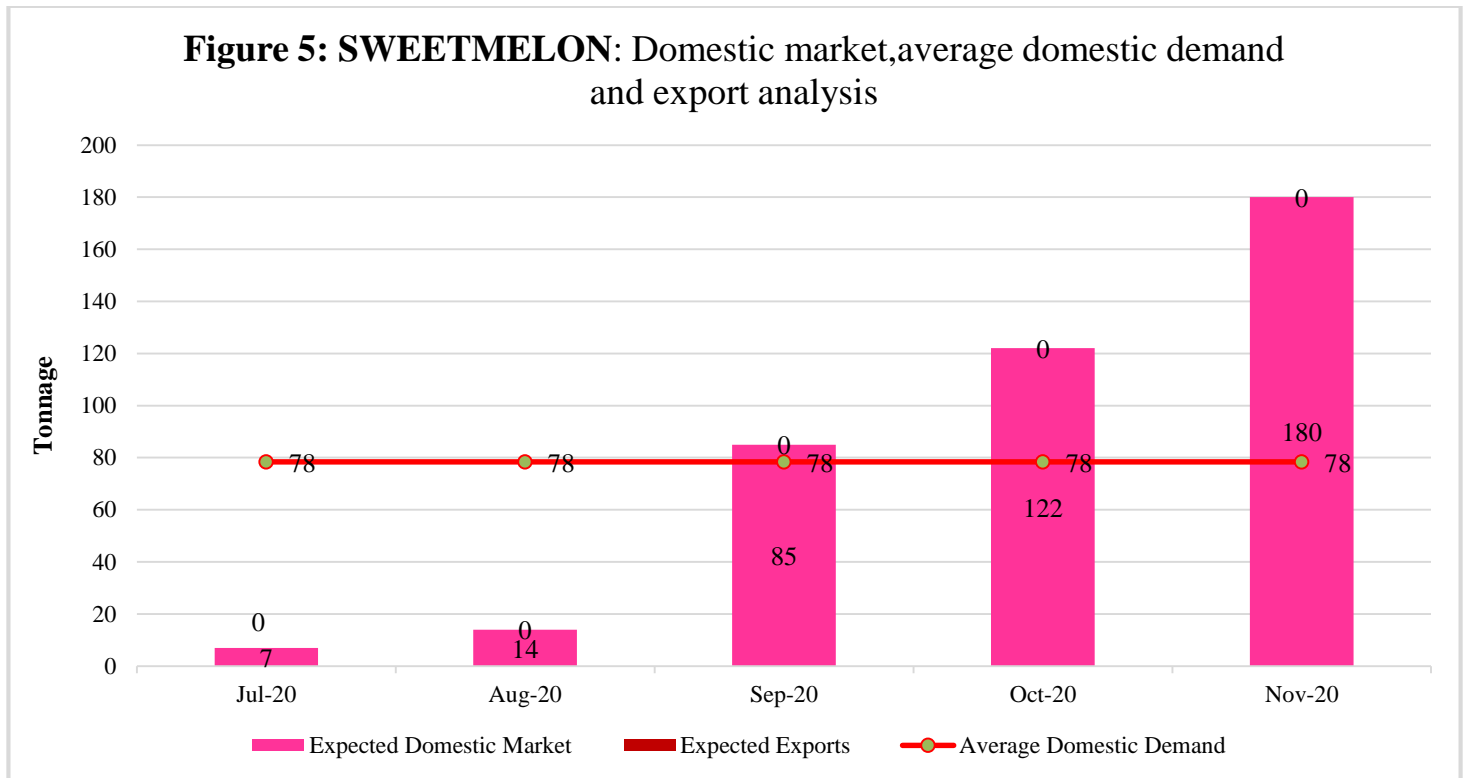
Based on Figure 4 it is evident that, watermelon local availability will reach its peak somewhat in September to November. The lower production is recorded this is because watermelon is a seasonal crop and optimal production can be realized in summer months.

Figure 4: WATERMELON: Domestic market, average domestic demand and export analysis



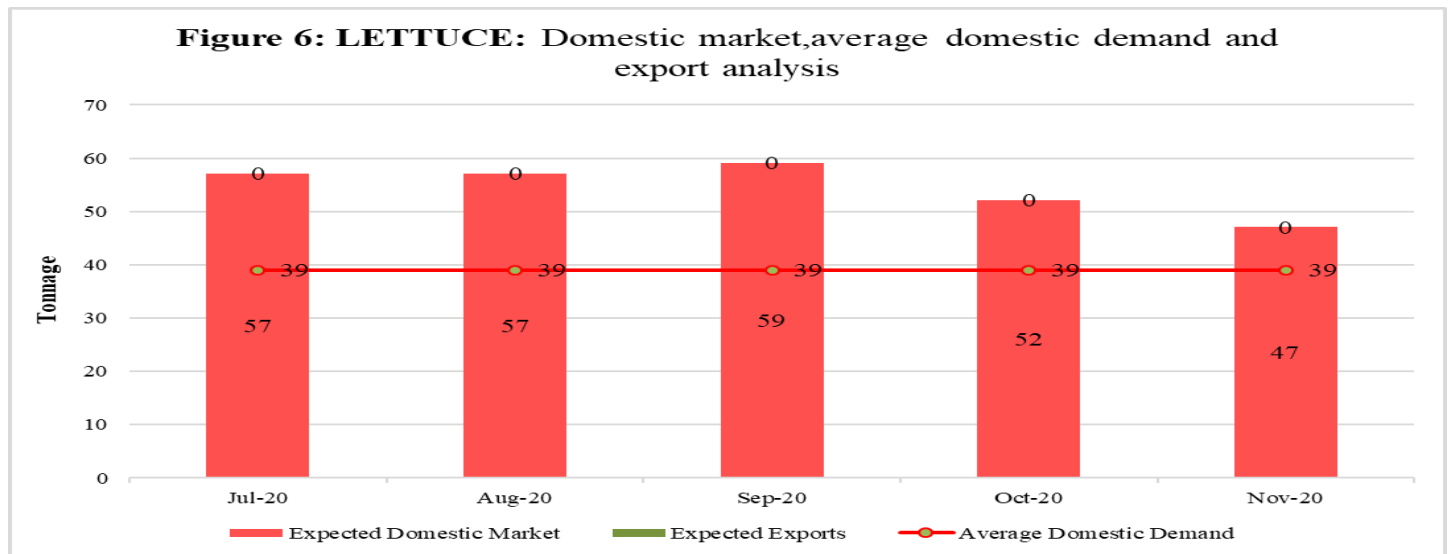
Source: NAB, 2020

Figure 5 confirmed that similarly to watermelon, sweet melon is a seasonal crop and its production increases as from September onwards. See figure 5 below for details.



Source: NAB,2020

According to Figure 6, lettuce local supplies exceeded domestic usage during the entire reporting period. Also, among the crops compiled in this report, lettuce alone is classified as a monitored crop. This implies that, its production is being monitored for possible addition to the controlled product list in future, and which can be justified by the local production trends. See figure 6 below for details.



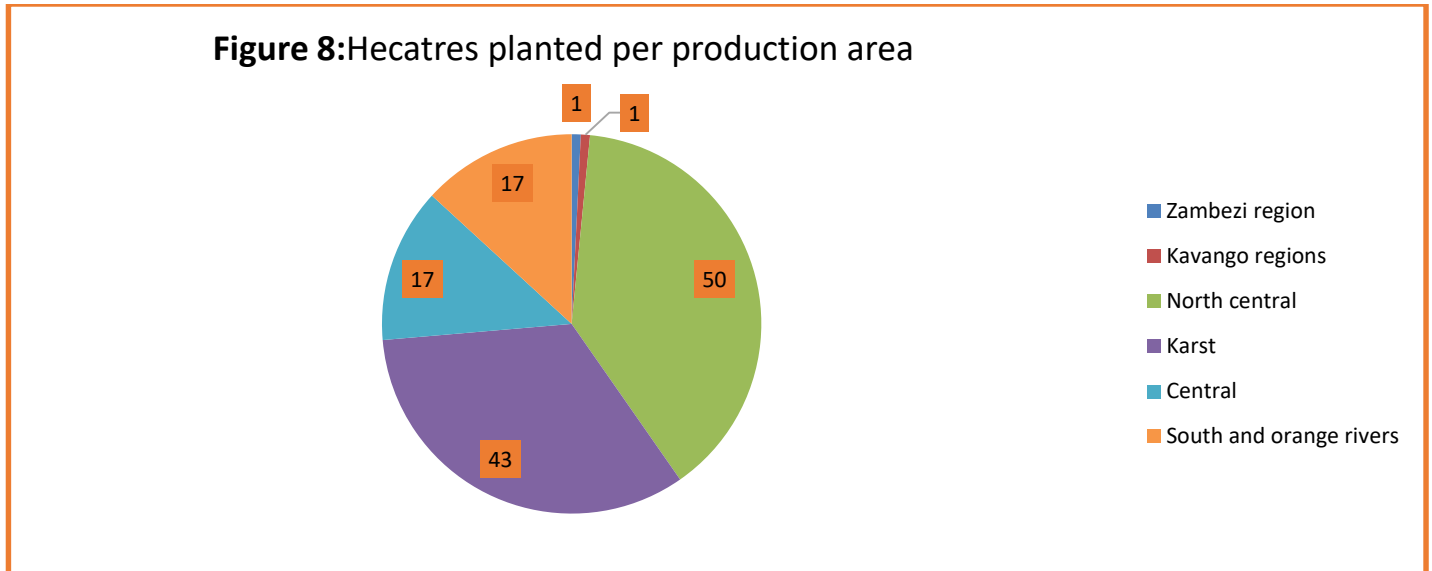
Source: NAB,2020

5. HECTARES PLANTED AND EXPECTED YIELD

This section reveals the hectares planted per production area and per crop. Subsequently, it shows the expected yield per production area and per crop.

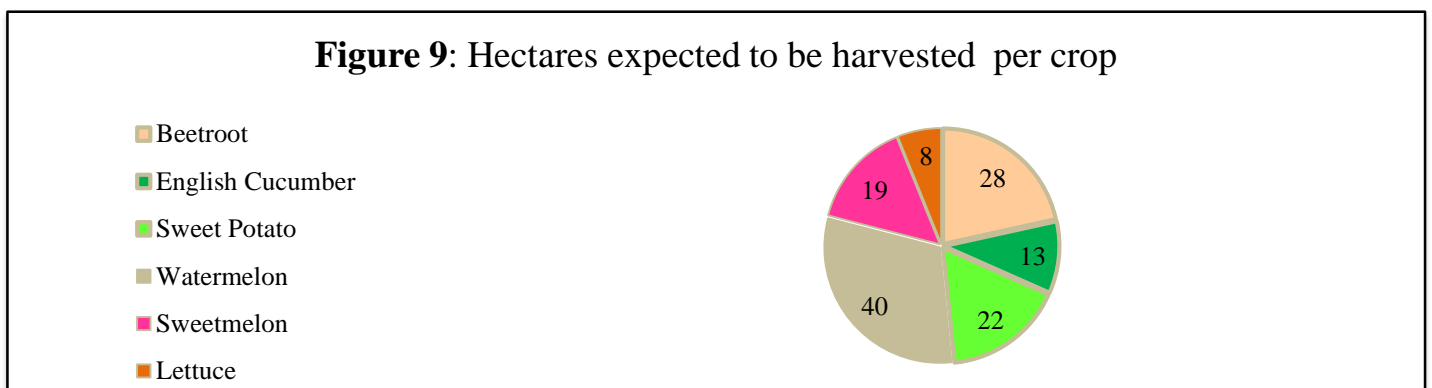
5.1 Hectares planted per production area

Based on figure 8 Central production area makes up the largest hectares planted, followed by North central, KARST and South and Orange rivers areas. Kavango regions and Zambezi region makes up the lowest hectares planted for the reporting period. See details shown in figure 8 below.



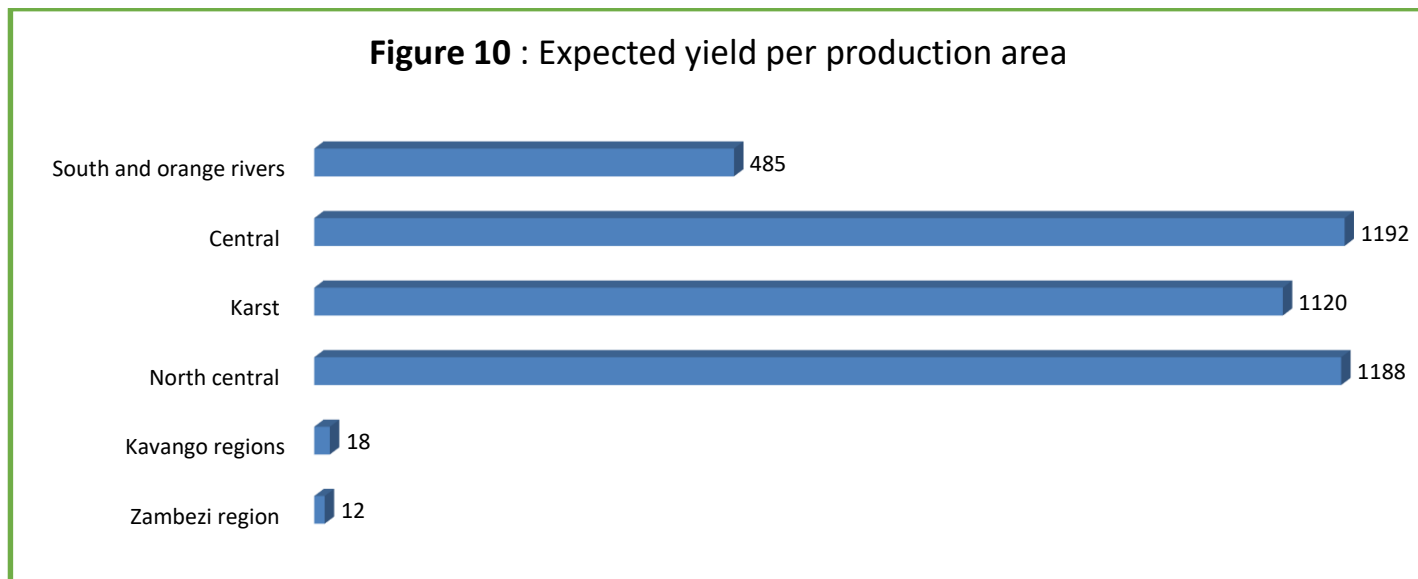
5.2 Hectares planted per crop

Figure 9 confirmed that watermelon takes up the lion share (i.e. 40 ha) of the probable hectares to be planted in the reporting period, followed by beetroots, sweet potatoes and subsequently sweet melon. See figure 9 below for details.



5.3 Expected yield per production area

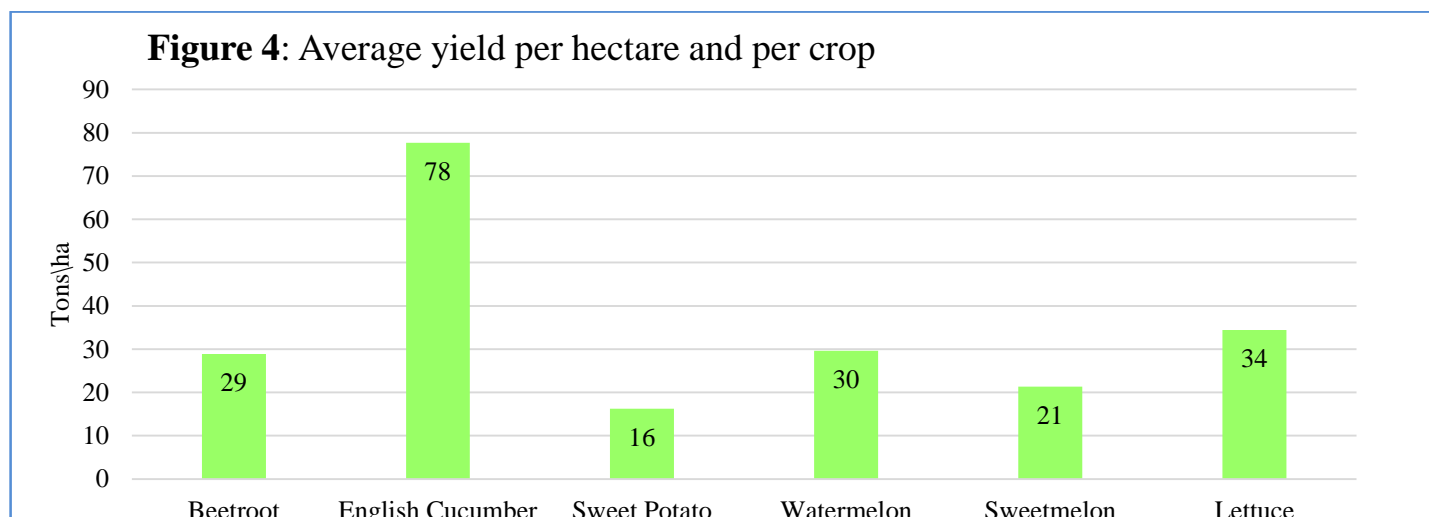
Based on figure 10 Central makes expect high tonnages, followed by North central, KARST and South and Orange rivers areas. The lowest yield will be expected in Kavango regions and Zambezi region. See details shown in figure 10 below.



Source: NAB,2020

5.4 Average yield per crop

Based on Figure 11 below, it is evident that English cucumber has the highest average probable yield per hectare estimated at 78 tons/ha relative to all crops covered in this report. It is worthwhile to note that, there can be very marked differences between yields of different plantings of a crop, and this heavily depends on producer's cultivar choice, management practices applied as well on the environmental conditions prevailing during the growth of the crop. Therefore, figure 11 gives an indication of potential average yield per crop in the reporting season and can aid a producer when making decisions about growing the crop.



Source: NAB,2020

6. CONCLUSIONS AND RECOMMENDATIONS

Overall, it is reported that there will be sufficient local supply of Beetroots and English cucumber in July month, However, English cucumber availability will be sufficient somewhat end of July towards August. Although sweet potato availability appears to be lower than domestic usage, it is reported that some producers they are still having carry over stock from June month. Therefore, it is recommended that;

- The import restriction will be implemented on beetroots and sweet potato (100% border closed), English cucumber (30/70 prorata). No import restrictions will be implemented on watermelon and sweet melon for the special permit period of 01 – 31 July 2020, however, the MSP rules applies at all times.
- Producers are urged to submit accurate monthly updated production forecast data to NAB to ensure effective management of opening and closing of border periods. Also, in the event of crop failure producers are advised to notify NAB as soon as possible.
- Once again, producers planting decision should be determined by the market demand (**refer to table 3**) and take advantage of crops with short supply in the local market. At the same time, Traders are advised to plan for their local purchases accordingly and arrange with producers for offtake agreements in order to achieve their Market Share Promotion (MSP) requirements (**refer to table 2**).