



Potatoes



Cabbage



Onions



Butternuts



Gem Squash



Broccoli



Cauliflower



NAMIBIAN  
AGRONOMIC BOARD

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## HORTICULTURE: PRODUCTS PRODUCTION FORECAST

### REPORT NO 1

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**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. 1**, covers the local production forecast for the five special controlled products i.e. **Potato, Onion, Butternut, Cabbage and Gem Squash** as well as the two monitored crops i.e. **Broccoli and Cauliflower**. 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 of the special controlled product scheme is to stimulate local production of horticultural products in Namibia, as a growth at home strategy implemented by the NAB. Thus, this report discusses the production forecasted per area, Crops that are expected to be available per particular producer, tabulation and graphical analysis on expected production versus local demand and subsequently the hectares planted and average yield expected per hectares for this reporting period.

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

Product	Inclusions	Exclusions
1.Potatoes	All types, size groups and container sizes of fresh, chilled, Whole or Cut Potato Irish, except the “Exclusions”.	Washed white “loose sell” and / or “pre-pack” types of potato; Washed baby potato. Red fleshed potatoes. All frozen, dried, cooked and preserved Irish Potato (Whole or Cut).
2. Onions	All types, size groups and container sizes of fresh, chilled, Whole or Cut Onion, except the “Exclusions”.	White Salad Onions and Red Onions. All frozen, dried, cooked and preserved Onions (Whole or Cut).
3. Cabbage	All types, size groups and container sizes of fresh, chilled, Whole or Cut Green Cabbage, except the “Exclusions”.	Chinese cabbage, Baby Green Cabbage, Baby Red Cabbage, Mixed Baby Red & Green Cabbage, Large red cabbage, Savoy Cabbage. All frozen, dried, cooked and preserved Cabbage (Whole or Cut).
4. Butternuts	All types, size groups and container sizes of fresh, chilled, Whole or Cut Butternut, except the “Exclusions”.	Zebra Butternut and Baby Butternut. All frozen, dried, cooked and preserved Butternuts (Whole or Cut).
5. Gem Squash	All types, size groups and container size of fresh, chilled, Whole or Cut Gem Squash, except the “Exclusions”.	-All frozen, dried, cooked and preserved Gem Squash (Whole or Cut).

**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 0°C 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

It is evident that, onions, potatoes and cabbage are among the top commodities with high tonnage expected for the reporting period. Whereas the production forecasts for butternut, gem squash, broccoli and cauliflower will be lower than domestic usage. Detailed expected production per crop per area are shown in table1 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	Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
	Onion	0	0	35	0	20	0	20	0	20	0	95	2	
	Cabbage	32	0	20	0	20	0	20	0	20	0	112	2	
	Butternut	0	0	14	0	0	0	0	0	0	0	14	1	
	Gem Squash	0	0	0	0	0	0	0	0	0	0	0	0	
	Broccoli	0	0	0	0	0	0	0	0	0	0	0	0	
KAVANGO REGIONS	Potato	0	0	0	0	0	0	0	0	0	0	0	0	
	Onion	0	0	0	0	20	0	0	0	200	0	220	7	
	Cabbage	36	0	126	0	18	0	0	0	0	0	180	5	
	Butternut	0	0	0	0	0	0	0	0	0	0	0	0	
	Gem Squash	0	0	0	0	0	0	0	0	0	0	0	0	
	Broccoli	0	0	0	0	0	0	0	0	0	0	0	0	
NORTH CENTRAL AREA	Potato	0	0	0	0	0	0	0	0	0	0	0	0	
	Onion	19	0	191	0	71	0	81	0	0	0	362	9	
	Cabbage	246	0	458	0	238	0	45	0	0	0	987	18	
	Butternut	76	0	32	0	47	0	50	0	0	0	205	21	
	Gem Squash	0	0	0	0	0	0	5	0	5	0	10	1	
	Broccoli	0	0	0	0	0	0	0	0	0	0	0	0	
KARSTLAND AREA	Potato	800	100	800	100	550	0	550	0	571	180	3,651	51	
	Onion	1,151	723	240	333	240	333	398	30	195	0	3,643	98	
	Cabbage	635	0	510	0	605	0	225	0	120	0	2,095	32	
	Butternut	30	0	30	0	30	0	60	0	30	0	180	6	
	Gem Squash	0	0	0	0	0	0	20	0	20	0	40	2	
	Broccoli	4	0	4	0	4	0	4	0	4	0	18	3	
CENTRAL AREA	Potato	16	0	16	0	16	0	16	0	16	0	80	3	
	Onion	825	0	1,110	0	1,665	0	555	0	695	0	4,850	112	
	Cabbage	360	450	360	450	395	450	435	450	435	450	4,235	85	
	Butternut	415	0	100	0	54	0	60	0	0	0	629	10	
	Gem Squash	200	0	0	0	0	0	0	0	1	0	201	20	
	Broccoli	2	0	2	0	3	0	2	0	2	0	11	1	
SOUTH AND ORANGE RIVER AREAS	Potato	0	0	0	0	0	0	0	0	0	0	0	0	
	Onion	0	0	75	0	75	0	120	0	120	0	390	9	
	Cabbage	114	0	114	0	234	0	143	0	98	0	703	13	
	Butternut	0	0	0	0	0	0	45	0	0	0	45	6	
	Gem Squash	88	120	88	120	88	120	80	120	80	120	1,024	43	
	Broccoli	10	0	10	0	10	0	10	0	9	0	47	7	
<b>Total expected production per crop per month</b>	Potato	1,625	100	1,910	100	2,215	0	1,105	0	1,266	180	8,501	163	
	Onion	1,530	1,173	901	783	821	783	1,054	480	970	450	8,945	209	
	Cabbage	1,478	0	1,328	0	1,169	0	493	0	238	0	4,706	79	
	Butternut	306	0	76	0	77	0	155	0	31	0	645	55	
	Gem Squash	88	120	88	120	88	120	105	120	105	120	1,074	45	
	Broccoli	15	0	15	0	16	0	15	0	15	0	76	10	
	Cauliflower	18	0	18	0	20	0	18	0	18	0	94	4	

Source : NAB,2020

### 3. EXPECTED AVAILABILITY

Table 2 shows producers that expect to harvest controlled and monitored crops per production area. This serve as the guiding tool for buyers to be able to plan their local purchases and eventually achieve their Market Share Promotion (MSP) requirements. Details on the crops available per producer are shown in table 2 below.












































































Table 2: EXPECTED AVAILABILITY OF THE SPECIAL CONTROLLED PRODUCTS																																		
KEY : Potatoes =  Onions =  Cabbage=  Butternuts =  Gem Squash=  Broccoli =  Cauliflower = 																																		
ZAMBEZI AREA																																		
NAME OF PRODUCER	Local	Export	Jul-20						Aug-20						Sep-20						Oct-20						Nov-20							
			Potatoes	Onion	Cabbage	Butternuts	Gem Squash	Broccoli	Cauliflower	Potatoes	Onion	Cabbage	Butternuts	Gem Squash	Broccoli	Cauliflower	Potatoes	Onion	Cabbage	Butternuts	Gem Squash	Broccoli	Cauliflower	Potatoes	Onion	Cabbage	Butternuts	Gem Squash	Broccoli	Cauliflower				
1 Clemens Makumbi	√																																	
2 Rector Mutelo	√																																	
3 Altricks Muhapi	√																																	
KAVANGO AREA																																		
1 Nangolo Katanga	√																																	
3 Kampanza Raphael	√																																	
4 Toini Usiku	√																																	
5 Mavuto Mwanza	√																																	
NORTH CENTRAL AREA																																		
1 Frans Ngaali	√																																	
2 Johannes Kalenga	√																																	
3 Abner Shikongo	√																																	
4 Andreas Ashimbanga	√																																	
5 Asser Moses	√																																	
6 Elifas Nuuyoma	√																																	
7 Emily Naunyango	√																																	
8 Emilie Marais	√																																	
9 Erastus Mumbala	√																																	
12 Immanuel Hambia	√																																	
16 Maria Paavo	√																																	
17 Paulus Titus	√																																	
18 Shapaka Katangala	√																																	
20 Thomas Negonga	√																																	
21 Titus Kanyeke	√																																	
22 Veiko Imalwa	√																																	
23 Wilhelmina Heita	√																																	
24 Ipinge Philipus	√																																	
25 Abel Ashimbanga	√																																	
26 Andreas Shihepo	√																																	
27 Onesmus Nepembe	√																																	
30 Johannes Shigwedha	√																																	
31 Elifas Keendjele	√																																	
32 Elise Atino	√																																	
33 Lucas Nakale	√																																	
34 Paulus Kapuka	√																																	
35 Protasius Moongela	√																																	

Table 2 continued.





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
Potato	Expected for domestic market	1,625	1,910	2,215	1,105	1,266	8,121
	Average domestic demand	3,829	3,829	3,829	3,829	3,829	19,144
	Surplus / shortage	-2,204	-1,919	-1,614	-2,724	-2,563	-11,023
Onion	Expected for domestic market	1,530	901	821	1,054	970	5,276
	Average domestic demand	685	685	685	685	685	3,427
	Surplus / shortage	845	216	136	369	285	1,849
Cabbage	Expected for domestic market	1,478	1,328	1,169	493	238	4,706
	Average domestic demand	657	657	657	657	657	3,283
	Surplus / shortage	821	671	512	-164	-419	1,423
Butternut	Expected for domestic market	306	76	77	155	31	645
	Average domestic demand	213	213	213	213	213	1,066
	Surplus / shortage	93	-137	-136	-58	-182	-421
Gem Squash	Expected for domestic market	88	88	88	105	105	474
	Average domestic demand	42	42	42	42	42	212
	Surplus / shortage	46	46	46	63	63	262
Broccoli	Expected for domestic market	15	15	16	15	15	76
	Average domestic demand	39	39	39	39	39	195
	Surplus / shortage	-24	-24	-23	-24	-25	-120
Cauliflower	Expected for domestic market	18	18	20	18	18	94
	Average domestic demand	49	49	49	49	49	245
	Surplus / shortage	-31	-31	-29	-31	-31	-151

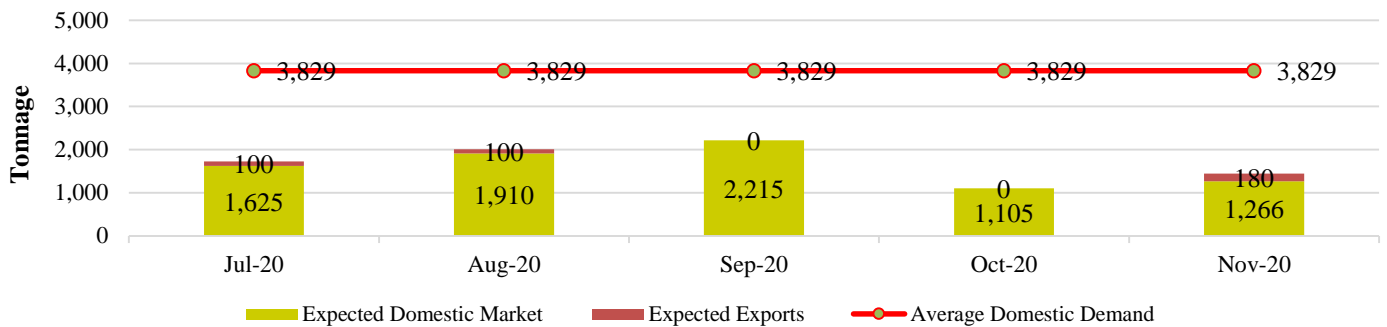
Source: NAB, 2020

#### 4.2 GRAPHICAL ANALYSIS

Graphical analysis determines the domestic local production relative to domestic usage per crop. Also, it also reveals the tonnage reserved for export market per particular month in the reporting period.

It is evident that the projected domestic production for potatoes is lower than domestic usage. However, due to non-compliance of some traders to 30 /70 prorata which was implemented during 01-30 June 2020 special permit period the border shall remain closed until further notice. Details of domestic market, average domestic demand and export analysis for the reporting period, are shown in figure 1 below.

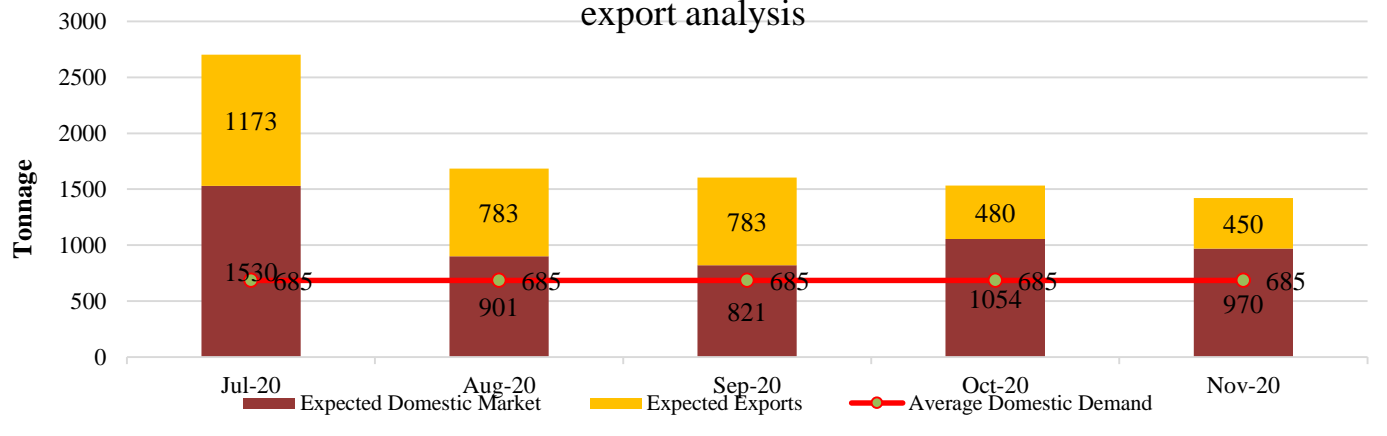
**Figure 1: POTATO: Domestic market, average domestic demand and export analysis**



NAB, 2020

Figure 2 confirmed that, the expected total availability of onion in the local exceed the domestic usage of 685 tonnages during the entire reporting period. For that reason, the total of 3669 tonnages are earmarked for export market. Details for onion tonnages expected for domestic and export market during the reporting period are shown in figure 2 below.

**Figure 3: ONION: Domestic market, average domestic demand and export analysis**

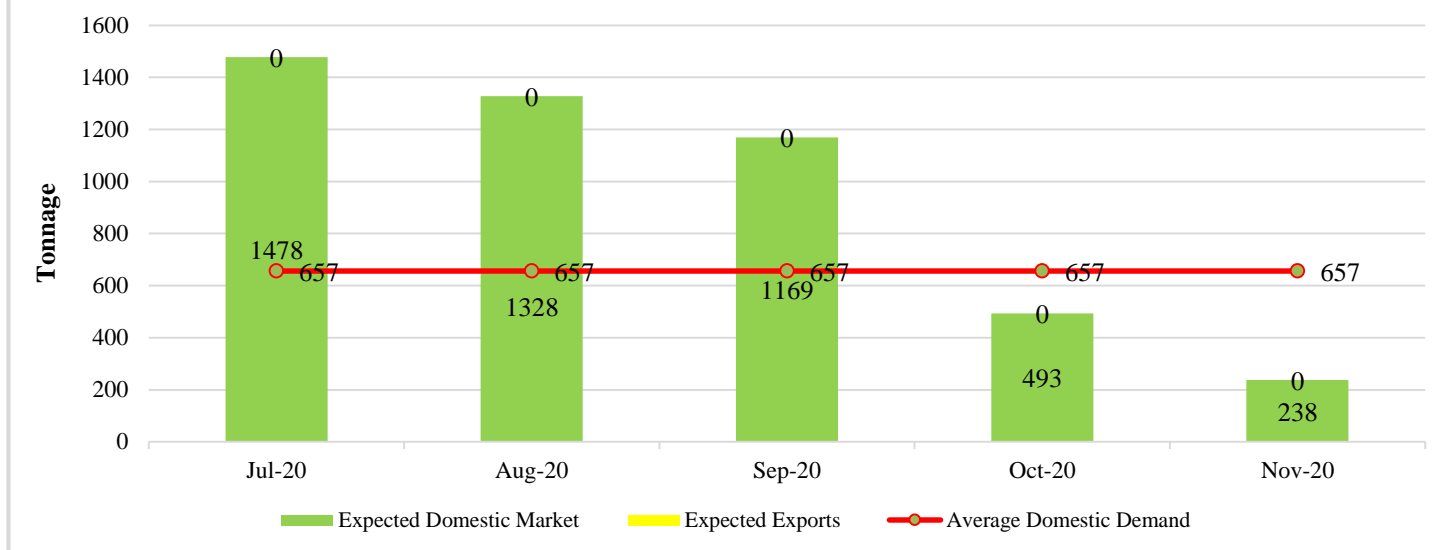


Source: NAB, 2020

Figure 3 revealed that, the total local availability of green cabbage in from July to September will exceed the domestic usage of 657 tonnages. Noticeably, the supply will decline as from October to November months this could be triggered by hot stress amongst other factors. Hot weather can instigate bolting in cabbages particularly in an open field production. See figure 3 for details.



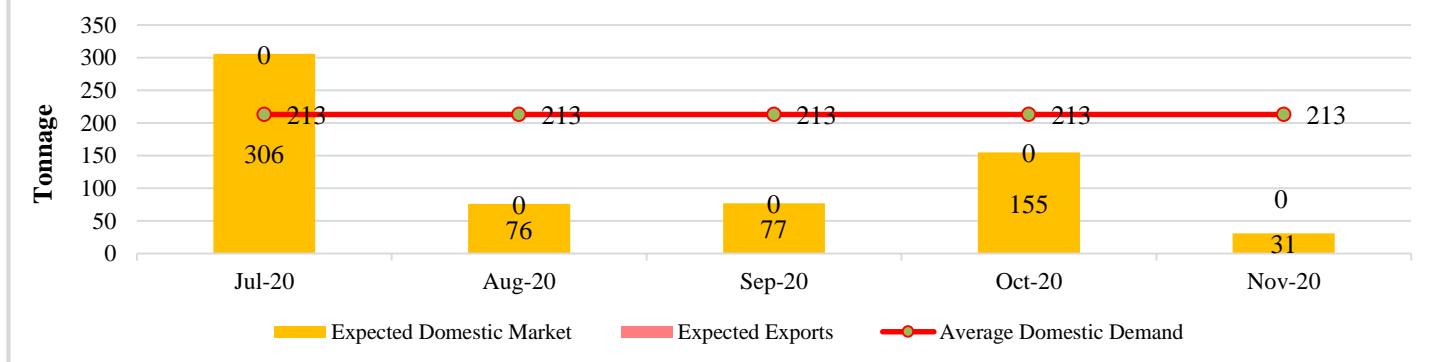
**Figure 3: CABBAGE: Domestic market, average domestic demand and export analysis**



Source: NAB, 2020

Figure 4 revealed that, local production for butternut is forecasted exceed the domestic usage in July, however the supply decreases as from August towards November. Details on butternuts expected tonnage, average tonnage demanded locally and tonnage reserved for export market are shown in figure 4 below.

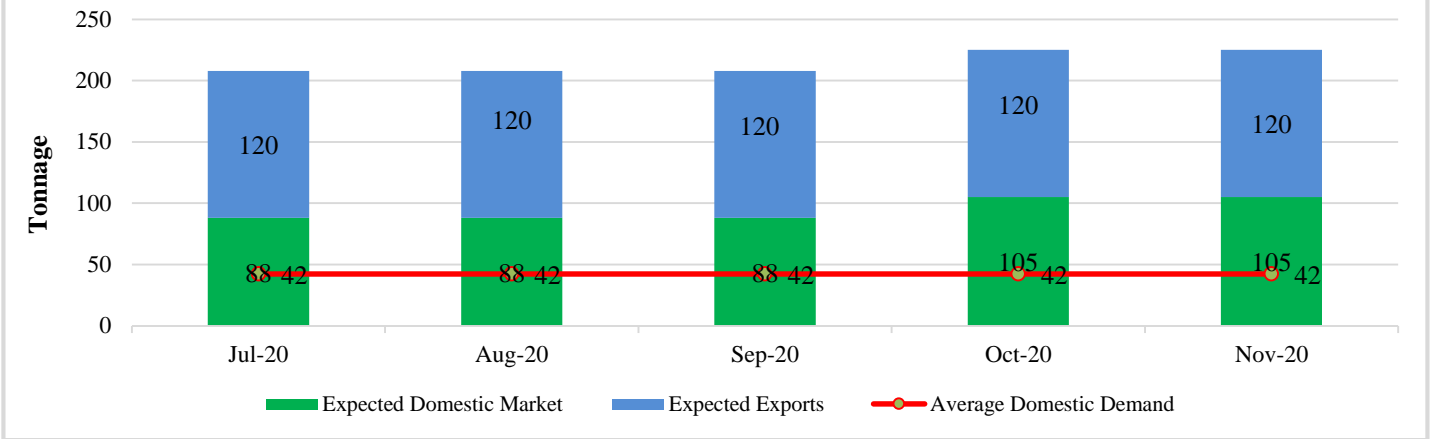
**Figure 4: BUTTERNUT: Domestic market, average domestic demand and export analysis**



Source: NAB, 2020

Figure 5 below revealed that, there will be higher supplies of gems quash (208 tonnage) in July month. In addition, domestic usage stands at 42 tonnages per month. Thus, 88 tonnages will be available for domestic consumption, while 120 tonnages will be exported. Noticeably, the estimated production increases as from October to November. This could be attributed by planting schedules, some producers expected to plant somewhat end of July towards August and expect to harvest in October and November months. See figure 5 for detailed information.

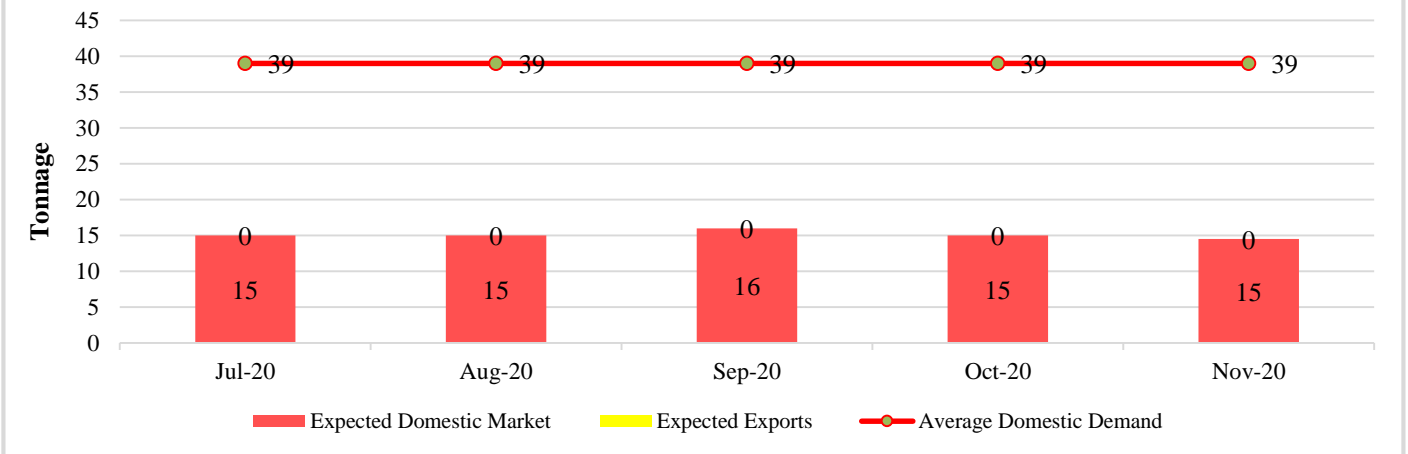
**Figure 5: GEM SQUASH: Domestic market, average domestic demand and export analysis**



Source: NAB, 2020

Figure 6 illustrates cauliflower expected local production, average domestic market demand and possible tonnage reserved for export. It should be noted that, cauliflower is classified as monitored crop for future possible addition to the list of controlled crops. Regrettably, the expected local production is lower than domestic usage. This suggest that, broccoli producing farmers should take advantage of this gap and upscale their production to meet domestic usage. See figure 7 below for details.

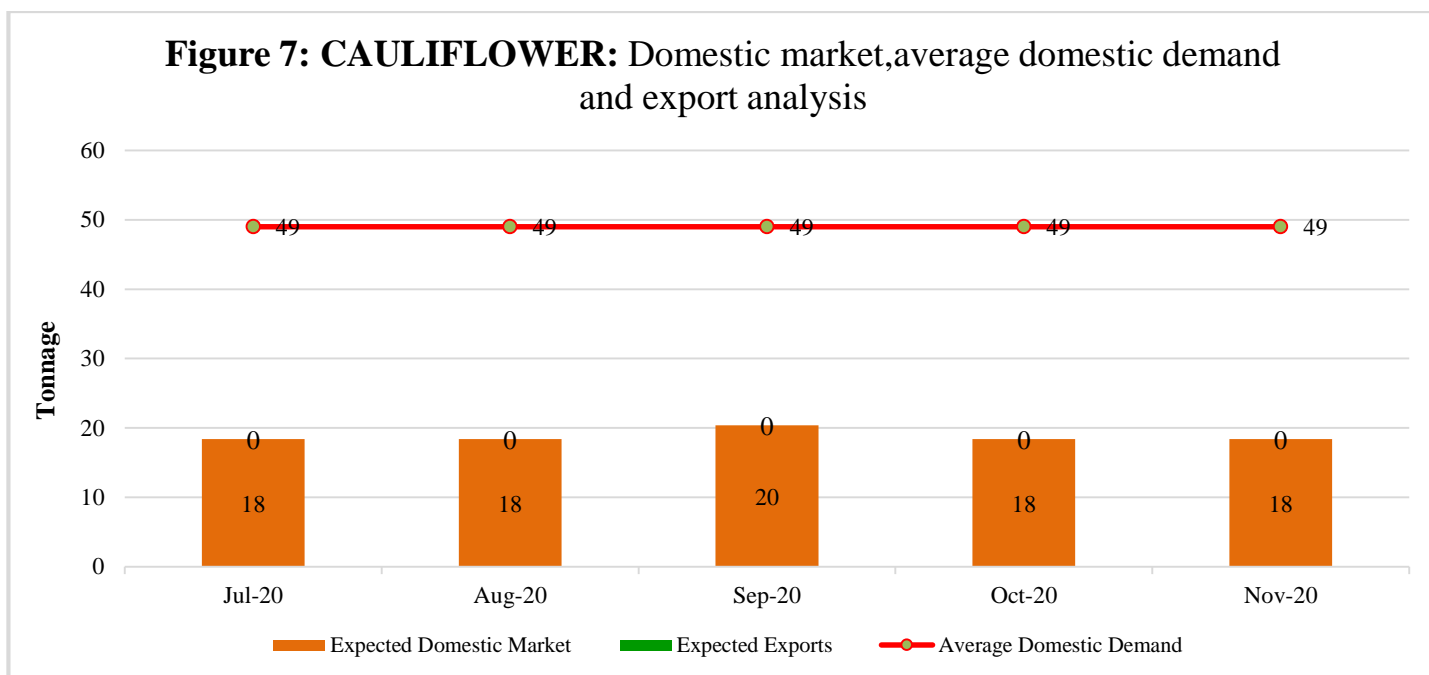
**Figure 6: BROCCOLI: Domestic market, average domestic demand and export analysis**



Source: NAB, 2020

Figure 7 shows that, there is lower supplies for cauliflower during the reporting period. The tonnages expected totaled to 18 tonnages lower than domestic usage which is 49 tonnages. Similarly, to cauliflower, broccoli is also classified as monitored crop and for this crop to be added on the list of controlled crops, there is a need to upscale local production to meet domestic usage. See details in figure 7 below.

**Figure 7: CAULIFLOWER: Domestic market, average domestic demand and export analysis**

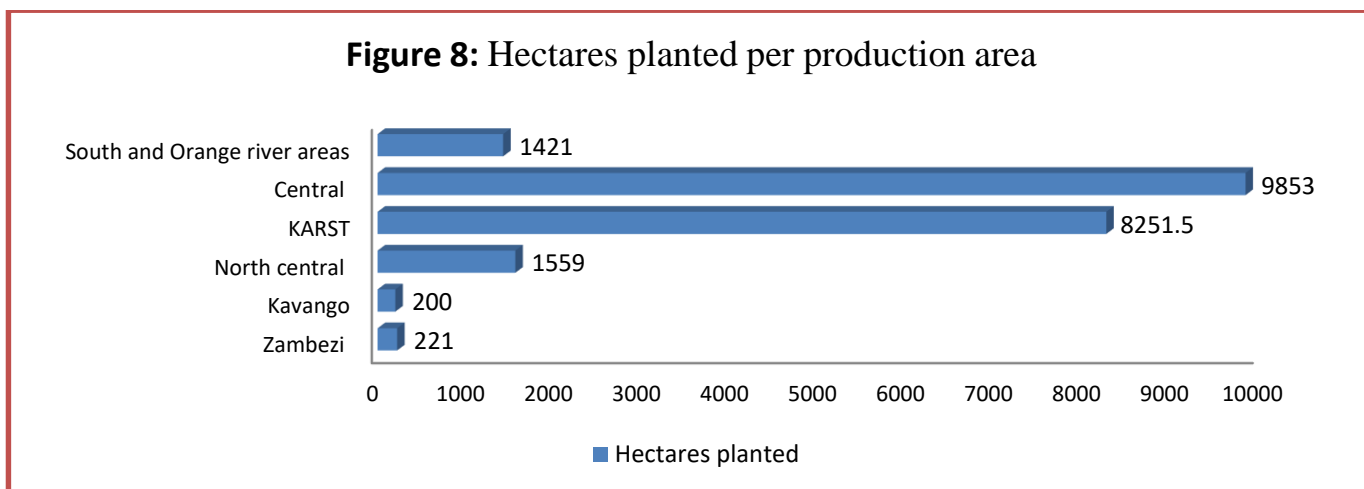


Source: NAB, 2020

## 5. HECTARES PLANTED AND EXPECTED YIELD PER PRODUCTION AREA

This section reveals the hectares planted (figure 8) and expected totaled tonnage (figure 9) per production area. Based on figure 8 Central production area is leading with regard to hectares planted, followed by KARST, North central and South & Orange river areas. Besides, the hectares planted for Kavango and Zambezi production areas are lagging behind, suggesting a need for expansion and new entrants in these areas.

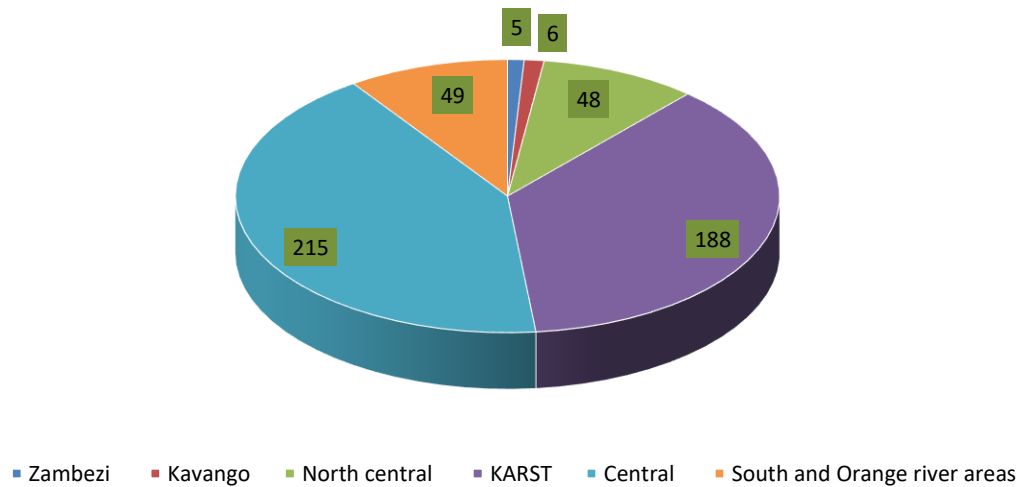
**Figure 8: Hectares planted per production area**



Source: NAB,200

Based on figure 9, it is evident that Central production expected higher tonnages, followed by KARST and South Orange and North central. This could have attributed by hectares planted in these production areas as indicated in figure 8 above. For detailed information regarding tonnage per crop per production area please see table 1 B.

**Figure 9: Hectares planted per production area**



Source: NAB, 2020

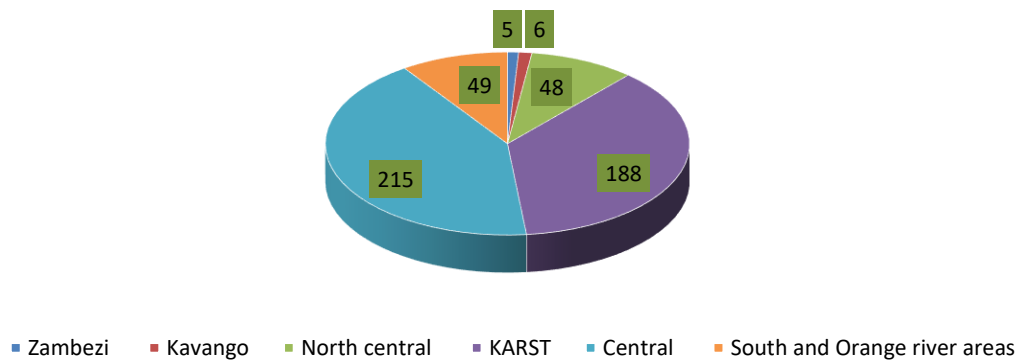
## 5. HECTARES PLANTED AND EXPECTED YIELD

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

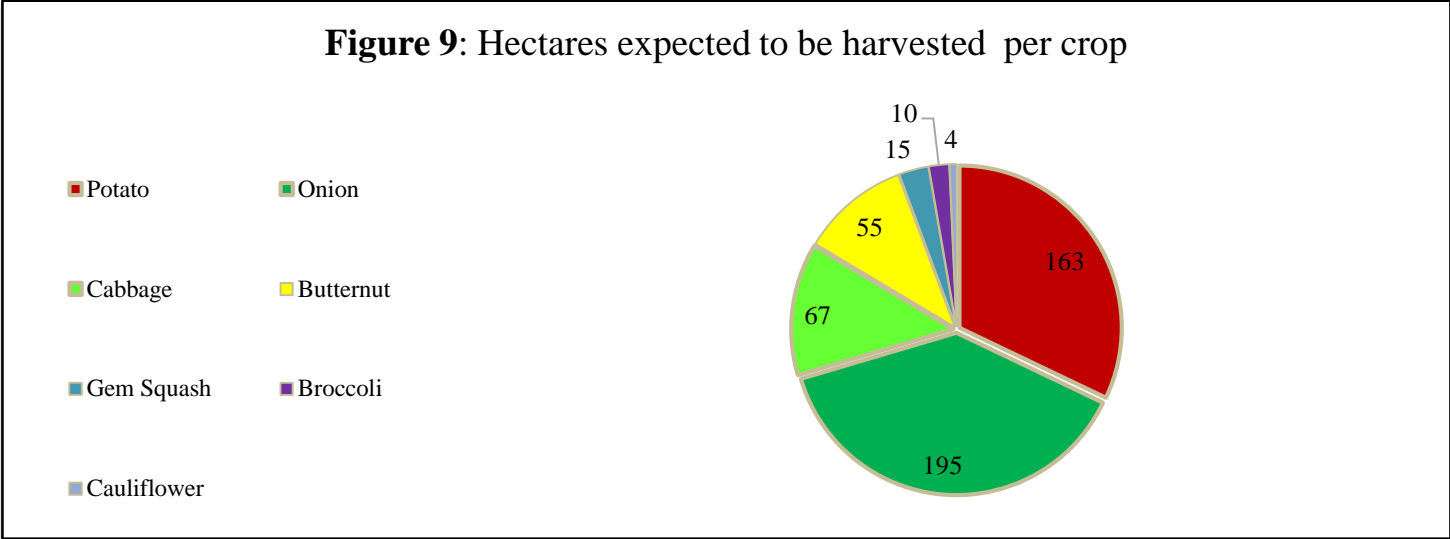
**Figure 8: Hectares planted per production area**



Source: NAB,2020

### 5.2 Hectares planted per crop

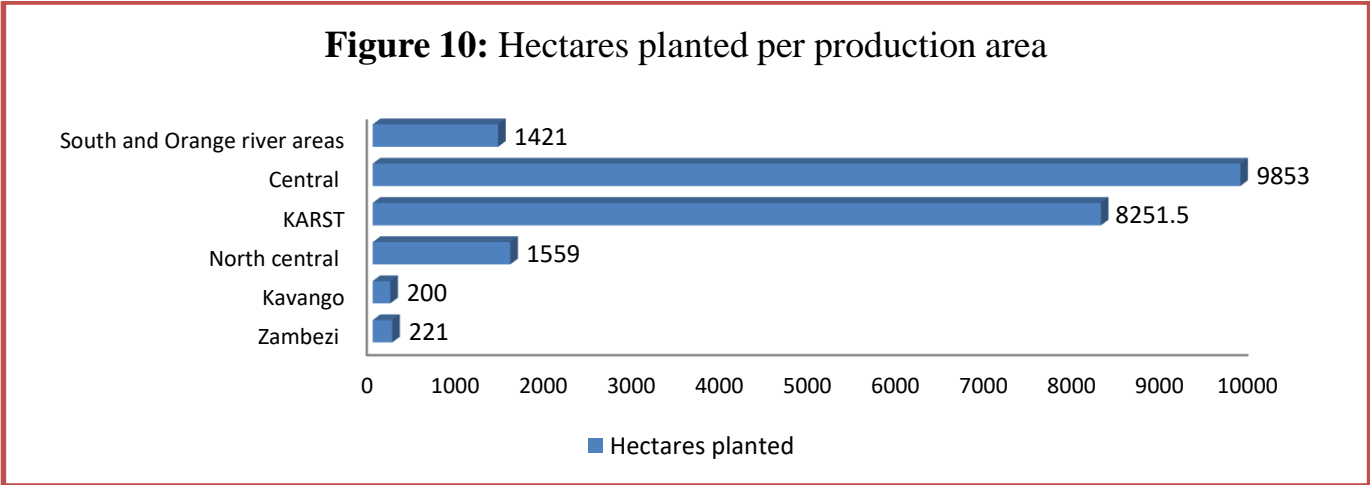
Figure 9 confirmed that the larger portion of land will be utilized for onion production (189 ha) followed by potatoes (163 ha), cabbage (67 ha) and butternut (55 ha). Detailed for hectares expected to be harvested per crop during the reporting period are shown in figure 10 below.



Source: NAB, 2020

**5.3 Expected yield per production area**

Based on figure 10 central production area expected the highest tonnage, followed by KARST and subsequently North central and South and Orange river production areas. The lowest yield will be expected in Kavango regions and Zambezi production areas. See details shown in figure 10 below.



Source: NAB,2020

**5.4 Average yield per crop**

