



Butternuts



Cabbage



Gem Squash



Onions



Potatoes



Broccoli



Cauliflower



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## HORTICULTURE: VEGETABLES PRODUCTION FORECAST

### REPORT NO 1

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**FORECASTED PERIOD:**

**01 MARCH TO 31 JULY 2021**

**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 crops** 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 1:** 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 <sup>0</sup>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

Tables 2 below shows the total expected tonnage, yield and hectares of crops to be harvested during this reporting period.

Table 2: FIVE MONTHS EXPECTED PRODUCTION PER CROP, PER AREA FOR THE PERIOD: 01 March to 31 July 2021														
Numbers in the table below represents tonnage														
PRODUCTION AREAS	Special controlled and monitored crops	Mar-21			Apr-21		May-21		Jun-21		Jul-21		Total (for the 5 months period)	
		01-15 Mar 21 Local	16-31 Mar 21 Local	01-31 Mar 21 Export	Local	Export	Local	Export	Local	Export	Local	Export	Yield	Ha to be harvested
ZAMBEZI REGION	Butternuts	0.00	0.17	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.04
	Cabbage	0.94	15.56	0.00	6.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.87	0.53
	Gem squash	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KAVANGO REGIONS	Butternuts	0.00	5.95	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.15	0.92
	Cabbage	0.00	0.00	0.00	1.70	0.00	11.05	0.00	0.00	0.00	0.00	0.00	12.75	0.35
	Gem squash	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Potatoes	4.25	259.25	0.00	255.00	0.00	265.88	0.00	0.00	0.00	0.00	0.00	784.38	15.55
NORTH CENTRAL	Butternuts	24.65	34.43	0.00	81.18	0.00	63.16	0.00	0.00	0.00	0.00	0.00	203.41	12.09
	Cabbage	18.70	12.75	0.00	48.45	0.00	29.75	0.00	6.80	0.00	0.00	0.00	116.45	3.10
	Gem squash	0.00	0.00	0.00	0.00	0.00	4.25	0.00	0.00	0.00	0.00	0.00	4.25	0.25
	onions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KARSTLAND	Butternuts	59.33	60.35	0.00	80.75	0.00	81.60	0.00	22.95	0.00	5.95	0.00	310.93	16.74
	Cabbage	44.20	39.10	0.00	164.90	0.00	157.25	0.00	102.00	0.00	102.00	0.00	609.45	12.96
	Gem squash	5.53	5.95	0.00	5.10	0.00	5.10	0.00	5.10	0.00	5.10	0.00	31.88	1.25
	Onions	0.00	0.85	0.00	0.00	0.00	178.50	0.00	255.00	178.50	361.25	263.50	1237.60	26.02
	Potatoes	474.30	378.25	0.00	501.50	0.00	467.50	0.00	501.50	25.50	374.00	153.00	2875.55	72.03
CENTRAL	Butternuts	28.05	29.75	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.90	2.60
	Cabbage	52.70	53.55	0.00	27.63	0.00	42.50	0.00	0.00	0.00	0.00	0.00	176.38	4.15
	Gem squash	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.40	0.20
	Onions	0.00	0.00	0.00	6.80	0.00	8.50	0.00	564.40	340.00	552.50	382.50	1854.70	39.90
	Potatoes	531.25	0.00	0.00	17.00	0.00	225.25	0.00	106.25	0.00	0.00	0.00	879.75	20.70
SOUTH AND ORANGE RIVER	Butternuts	39.95	30.60	0.00	12.75	0.00	17.30	0.00	42.50	0.00	42.50	0.00	185.60	7.15
	Cabbage	25.50	25.50	0.00	63.75	0.00	42.50	0.00	42.50	0.00	0.00	0.00	199.75	4.50
	Gem squash	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.50	0.30
	Onions	12.75	12.75	0.00	0.00	0.00	0.00	0.00	2.55	0.00	0.00	0.00	28.05	1.10
Total expected production tonnage per crop per month	Butternuts	152	161	0	191	0	162	0	65	0	48	0	780	40
	Cabbage	142	146	0	313	0	283	0	151	0	102	0	1138	26
	Gem Squash	16	8	0	5	0	9	0	5	0	5	0	48	2
	Onions	13	14	0	7	0	187	0	822	519	914	646	3120	67
	Potatoes	1010	638	0	774	0	959	0	608	26	374	153	4540	108
	Broccoli	7			21	0	21	0	21	0	7	0	76	6
	Cauliflower	7			21	0	21	0	21	0	7	0	76	6

Source : NAB,2020

### 3. THE AVAILABILITY OF THE EXPECTED CROPS PER PRODUCERS

**Table 3A** shows the availability of the expected **special controlled crops** per area, per producer. This figure further shows that during this reporting period, butternuts are expected to be available in all production areas. Traders are advised to contact these producers to arrange and place their orders on time to avoid delays.
















































Table 3 A: THE FIVE MONTHS EXPECTED AVAILABILITY OF THE SPECIAL CONTROLLED CROPS ( Butternuts, Cabbage, Gem squash, Onions and Potatoes)																																	
KEY : BUTTERNUTS =  CABBAGE =  GEM SQUASH =  ONIONS =  POTATOES = 																																	
PERIOD: 01 March to 31 July 2021																																	
Last updated: 18 February 2021																																	
Contact Person	Target Market			01-15 Mar 2021					16-31 Mar 2021					Apr-21					May-21					Jun-21					Jul-21				
	Local Informal	Local Formal	Export	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Butternuts	Cabbage	Gem Squash	Onions	Potatoes					
ZAMBEZI																																	
1	Bernard Sitali	√	√																														
2	Clemens Makumbi	√	√																														
3	Kamwi Lubanda	√	√																														
4	Laimi Likando	√	√																														
5	Lasken Kayabu Kayambo	√	√																														
KAVANGO																																	
1	Asser Haitewa Siranda	√	√																														
2	Blandine Meesher Nangombe	√	√																														
3	Hendrick Locke	√	√																														
4	Lourens Le Grange	√	√																														
5	Lucas Mandema	√	√																														
6	Pius Kapirika	√	√																														
NORTH CENTRAL																																	
1	Abisai Amashili	√	√																														
2	Akathigo Kapuka	√	√																														
3	Andreas Ashimbanga	√	√																														
4	Asser Moses	√	√																														
5	Elifas Keendjele	√	√																														
6	Elifas Nuuyoma	√	√																														
7	Elkan Mangundu	√	√																														
8	Emily Naunyang	√	√																														
9	Epafras Hilengwa	√	√																														
10	Erastus Mumbala	√	√																														
11	Etunda GSIP (Small & medium)	√	√																														
12	Eugen Eugen	√	√																														

Table 3A continues...



























SOUTH AND ORANGE RIVER																												
NAME OF PRODUCER		Local informal	local Formal	Export	01-15 Mar 2021				16-31 Mar 2021				Apr-21				May-21				Jun-21				Jul-21			
1	Arthur Makhza	✓	✓																									
2	Burger J. Harmse	✓	✓																									
3	G.F. Janse van Rensburg	✓	✓																									
4	Hendrik Berg	✓	✓																									
5	Jean Roux	✓	✓																									
6	Johan Roux	✓	✓																									
7	Rudi Kotze	✓	✓																									
8	Theresia Kisting	✓	✓																									
9	Zirk Jansen	✓	✓																									
Note: Producers not listed herein, it is either because they will not harvest any of the four special controlled products or they did not provide needed information.																												
Kindly note that producers who wash potatoes in Namibia includes: Cobus Coetzee, Hannes Arangies, Hansie van der Merwe, Jan Keyser and Loui Smit in the Karst while in central there is Ludie Kolver and Etienne Jooste. All other producers supplies unwashed or brushed potatoes																												

Source: NAB, 2020

**Table 3B** shows the availability of the two monitored crops (broccoli and cauliflowers) which are expected to be available only in the Karst and South production areas during this reporting period.

Table 3 B: THE FIVE MONTHS EXPECTED AVAILABILITY OF THE MONITORED CROPS (Broccoli and Cauliflower)																
KEY: BROCCOLI =  and CAULIFLOWER = 																
PERIOD: 01 March to 31 July 2021 <span>Last updated: 18 February 2021</span>																
NAME OF PRODUCER	Target Market			01-15 Mar 21		16-31 Mar 21		Apr-21		May-21		Jun-21		Jul-21		
	Local informal	Local Formal	Export	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	
KARST AREA																
1	Loui Smit		v													
KARST AREA																
1	Johan Roux		v													

Source: NAB, 2020

## 4. EXPECTED PRODUCTION VS DEMAND ANALYSIS

### 4.1 TABULATION ANALYSIS

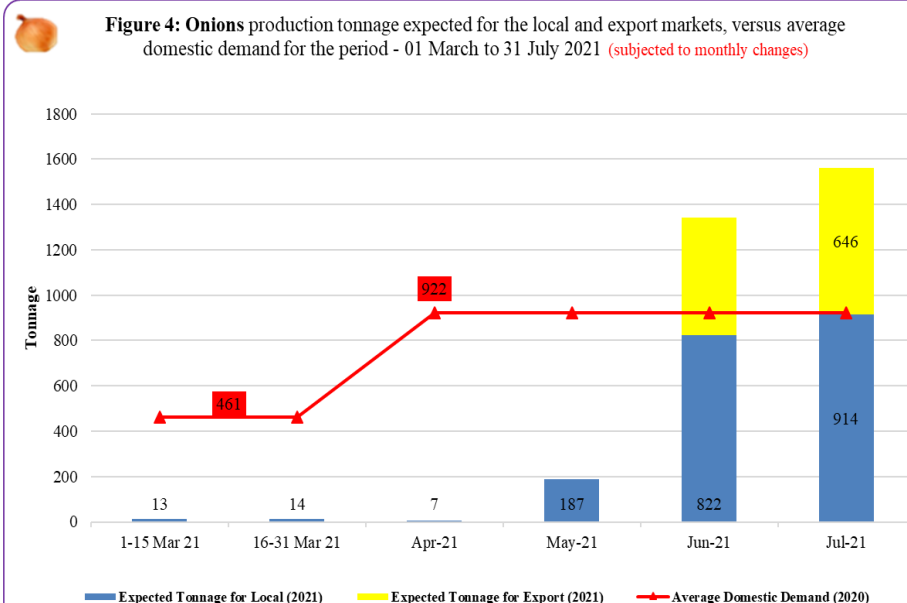
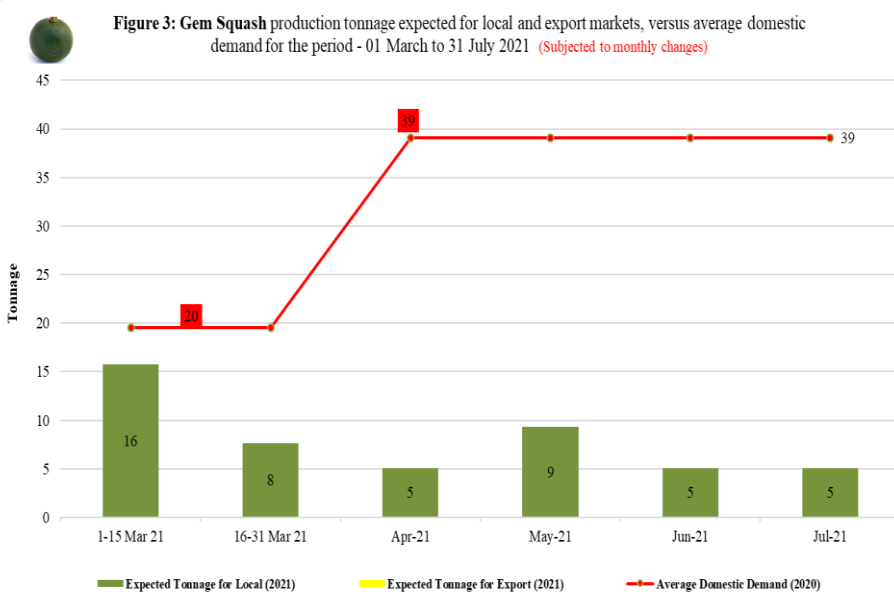
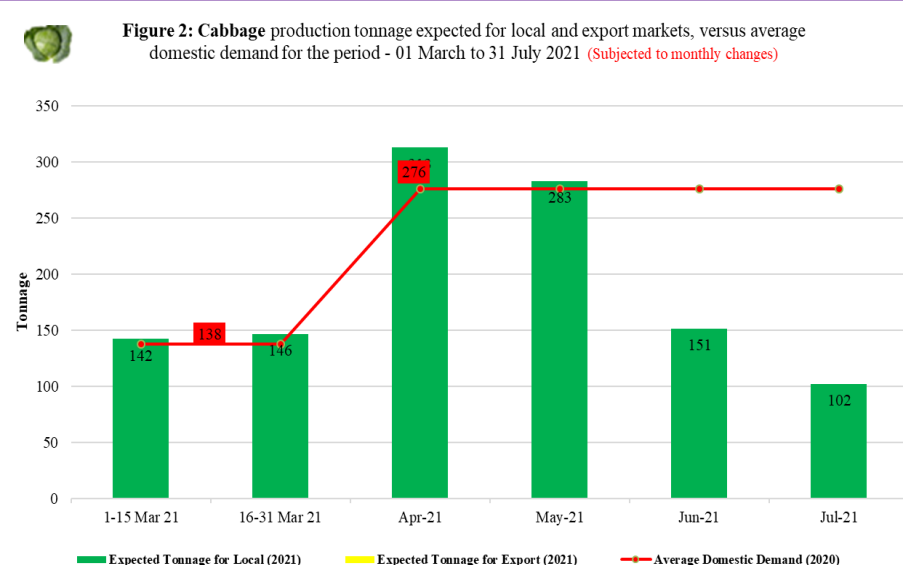
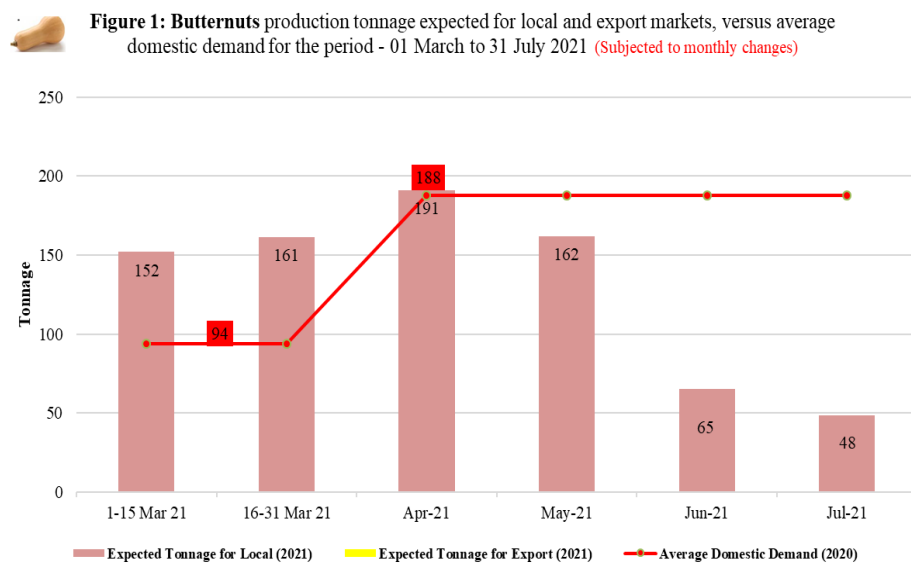
**Table 4** below reveals that, the total tonnage expected for butternuts will be sufficient to satisfy the domestic demand in March 2021. Table 4 further shows that; gem squash, onions, potatoes, broccolis and cauliflowers are expected to be insufficient throughout this reporting period, hence the border will open to allow importation of these four (4) crops by registered traders.

Table 4: ANALYSIS OF THE EXPECTED TONNAGE FOR DOMESTIC MARKET VERSUS AVERAGE DOMESTIC DEMAND								
Numbers in this table represents tonnage					Last updated: 18 February 2021			
Special Controlled and Monitored Crops	Expected Surplus or Shortage	01-15 Mar 21	16-31 Mar 21	Apr-21	May-21	Jun-21	Jul-21	Total
Butternuts	Expected for domestic market	152	161	191	162	65	48	628
	Average domestic demand	94	94	188	188	188	188	845
	Surplus / shortage	58	67	3	-26	-122	-139	-217
Cabbage	Expected for domestic market	142	146	313	283	151	102	996
	Average domestic demand	138	138	276	276	276	276	1240
	Surplus / shortage	4	9	37	7	-124	-174	-245
Gem Squash	Expected for domestic market	16	8	5	9	5	5	32
	Average domestic demand	20	20	39	39	39	39	176
	Surplus / shortage	-4	-12	-34	-30	-34	-34	-144
Onions	Expected for domestic market	13	14	7	187	822	914	1943
	Average domestic demand	461	461	922	922	922	922	4151
	Surplus / shortage	-448	-448	-916	-735	-100	-9	-2208
Potatoes	Expected for domestic market	1010	638	774	959	608	374	3351
	Average domestic demand	1,947	1947	3894	3894	3894	3894	17521
	Surplus / shortage	-937	-1309	-3120	-2935	-3286	-3520	-14169
Broccoli	Expected for domestic market	14		21	21	21	7	83
	Average domestic demand	36		36	36	36	36	178
	Surplus / shortage	-22		-15	-15	-15	-29	-94
Cauliflower	Expected for domestic market	7		21	21	21	7	76
	Average domestic demand	45		45	45	45	45	226
	Surplus / shortage	-38		-24	-24	-24	-38	-150

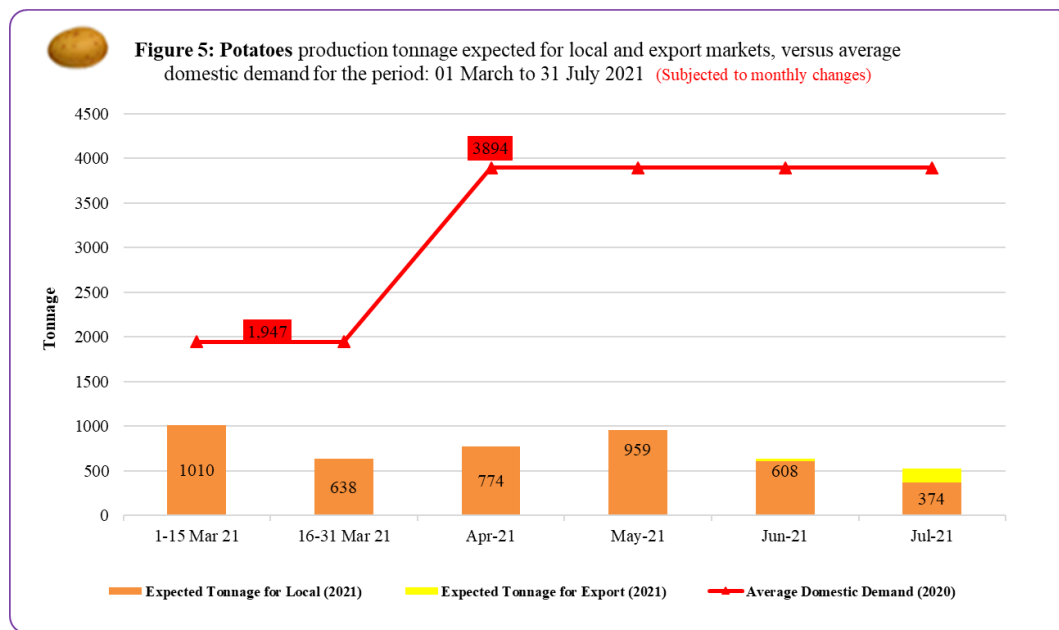
Source: NAB, 2020

## 4.2 GRAPHICAL ANALYSIS

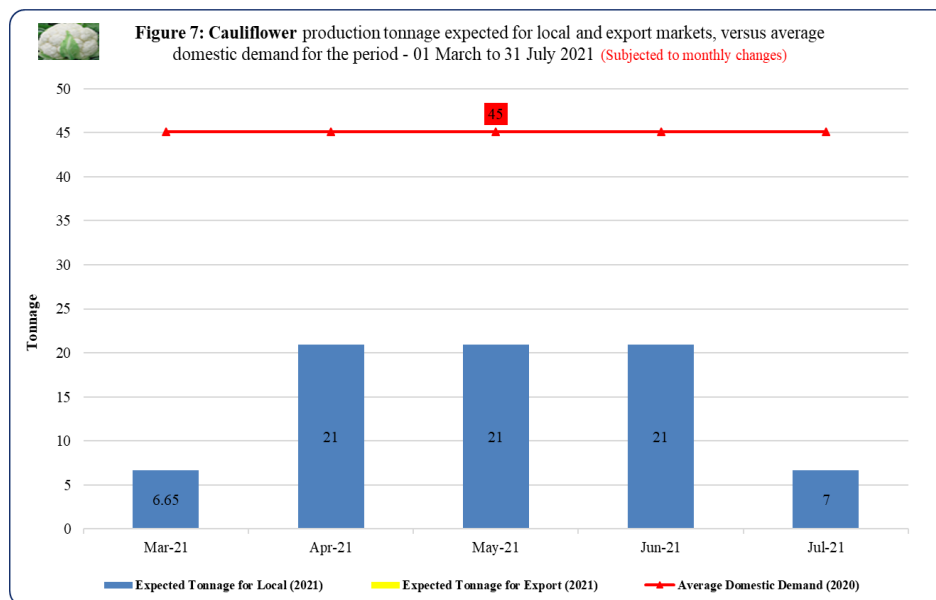
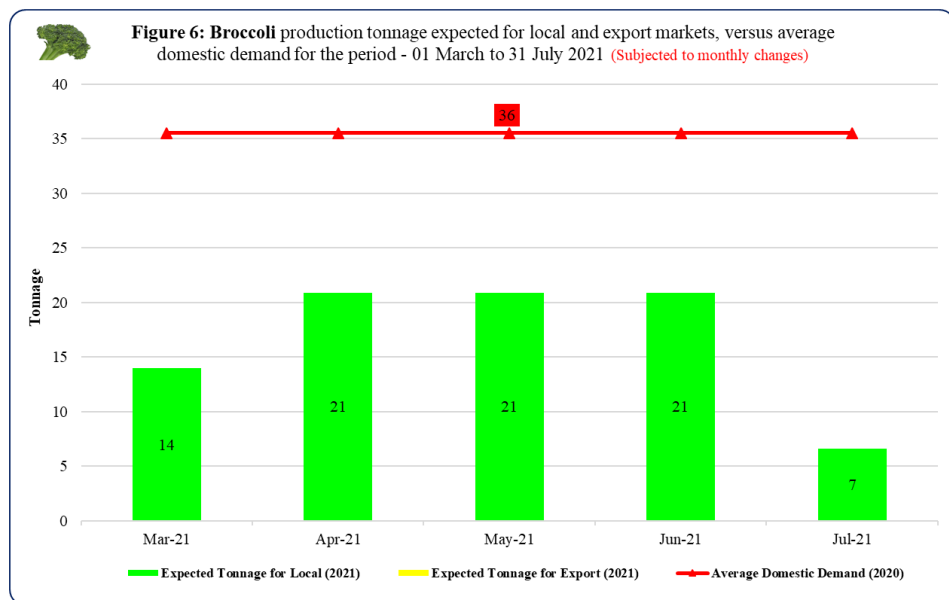
Graphical analysis determines the domestic production tonnage expected for the local and export markets as well as the average domestic demand. **Figure 1 and 2** below shows that the projected production tonnage for butternuts and cabbage reserved for local market is expected to be sufficient in March and April 2021. However, **figure 3, 4 and 5** shows that, indicate that the country expects a shortage of gem squash, onions and potatoes during this period; given that the average domestic demand tonnage is above the local expected tonnage.



Graphical analysis figures continue...



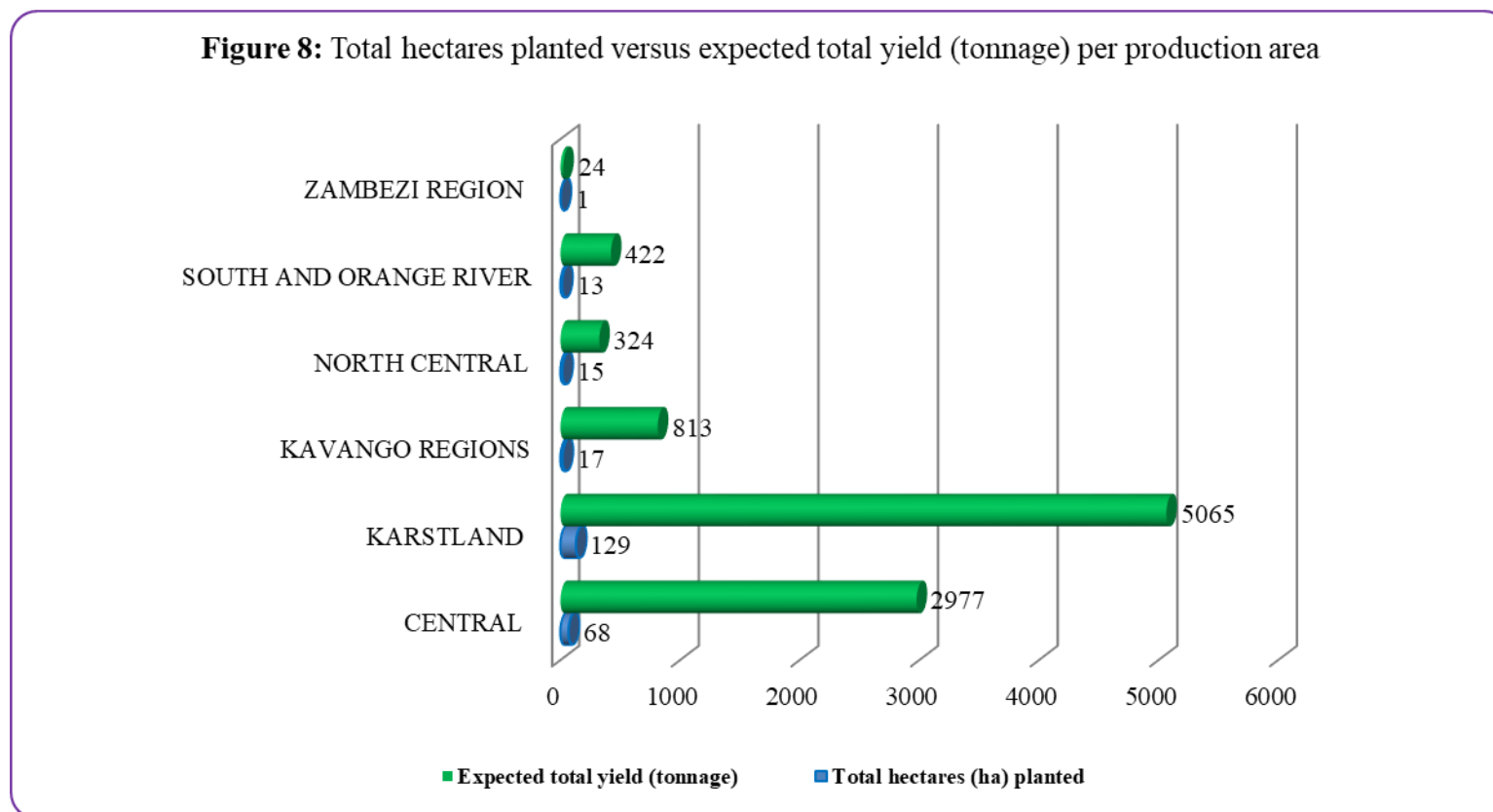
It should be noted that, broccolis and cauliflowers are classified as monitored crops for future possible addition to the list of the special controlled crops. These two products are expected to be insufficient during this reporting period as reflected in **figure 6 and 7** below.



Source: NAB, 2020

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

**Figure 8** below illustrates the total hectares as well as the total tonnage expected to be harvested per production area. This figure reveals that Karst production area is leading with a total hectare of 129 and the highest total yield of 5065 tons expected to be harvested. Zambezi production area is ranked last with 1 (one) ha and a total of 24 tons expected to be harvested. The high tonnages expected to be harvested in Karst and central production areas are attributed to the high production of onions and potatoes predominantly grown in these two areas.



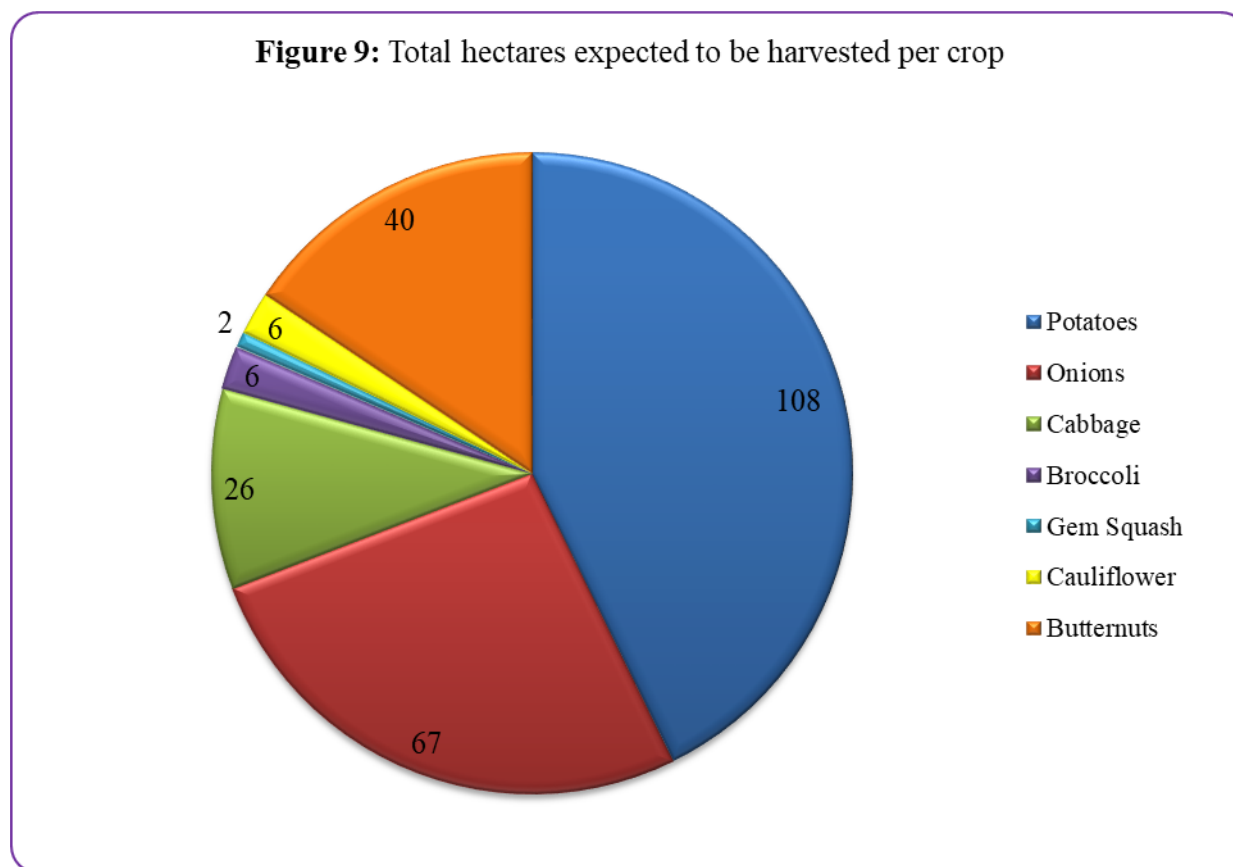
Source: NAB, 2020

## 6. HECTARES PLANTED AND EXPECTED AVERAGE YIELD (TONNAGE) PER CROP

This section reveals the hectares planted and expected average yield per crop.

### 6.1 Hectares planted per crop

**Figure 9** shows that a total of 258 hectares are expected to be harvested during this reporting period, of which potatoes covered the largest portion (108 ha) followed by onions (67 ha) while the smallest portions of land is covered by Gem squash (2ha) as indicated below.



Source: NAB, 2020

**Figure 10** below show that the crop expected to provide highest average yield per hectare for this reporting period will be onions (47ton/ha) followed by cabbage with 44 tons/ha, while the lowest average yield per hectare is expect for broccoli and cauliflowers with 14ton/ha each.



This report concluded that, there will be sufficient local supply of butternuts in March and it is recommended that the borders be closed to restrict the importation of butternuts as from 01 to 31 March 2021. Furthermore, the report revealed that the country expects a slight surplus of cabbage in March hence it is recommended that the borders be opened on pro-rate base, thus only allow 30% import while the other 70% be sourced locally. Additionally, the country expects a shortage of gem squash, onions and potatoes as the average domestic demand is expected to be above the local expected tonnage throughout this reporting period. This implies that the borders be opened to allow registered Traders to import gem squash, onions and washed potatoes in order to satisfy their local customers' demand. The two monitored crops (*broccolis and cauliflowers*) are also expected to be insufficient throughout this reporting period.

All vegetable Producers are encouraged to provide/send their production data to the Horticulture Market Development sub-division within NAB every month in order to ensure that all local vegetable production data are recorded. These data are very crucial as it helps NAB to make informed and right decisions with regards to the opening and closing of borders to either allow or restrict importation of vegetables whenever there is a local supply shortage or surplus respectively. Producers are further advised to immediately notify NAB in case of deviations from the cropping program or in the event of crop failure due to factors beyond their control.

Page 12 of 13