



Butternuts



Cabbage



Gem Squash



Onions



Potatoes



Broccoli



Cauliflower



HORTICULTURE: VEGETABLES PRODUCTION FORECAST

REPORT NO 1

FORECASTED PERIOD:

01 JANUARY TO 31 MAY 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 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

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 January to 31 May 2021														
Numbers in the table below represents tonnage										Last updated: 17 December 2020				
PRODUCTION AREAS	Special controlled and monitored crops	Jan-21			Feb-21		Mar-21		Apr-21		May-21		Total (for the 5 months period)	
		01-15 Jan 21 Local	16-31 Jan 21 Local	01-31 Jan 21 Export	Local	Export	Local	Export	Local	Export	Local	Export	Yield	Ha to be harvested
ZAMBEZI REGION	Butternuts	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
	Cabbage	2.55	4.00	0.00	9.44	0.00	19.55	0.00	0.00	0.00	0.00	0.00	35.53	0.75
	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	1.70	0.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.25	0.34
KAVANGO REGIONS	Butternuts	12.75	12.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	1.00
	Cabbage	29.75	34.00	0.00	63.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	127.50	2.60
	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	34.00	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.00	4.00
	Potatoes	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
NORTH CENTRAL	Butternuts	3.40	53.98	0.00	82.88	0.00	36.38	0.00	0.00	0.00	0.00	0.00	176.63	11.91
	Cabbage	44.20	62.05	0.00	178.50	0.00	39.95	0.00	8.50	0.00	0.00	0.00	333.20	10.45
	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
KARSTLAND	Butternuts	66.30	82.45	0.00	157.33	0.00	12.75	0.00	0.00	0.00	0.00	0.00	318.83	16.81
	Cabbage	95.20	124.95	0.00	199.75	0.00	240.55	0.00	242.25	0.00	170.00	0.00	1072.70	22.70
	Gem squash	8.93	31.20	0.00	27.20	0.00	18.70	0.00	18.70	0.00	5.95	0.00	110.67	4.75
	Onions	263.50	170.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	433.50	8.75
	Potatoes	595.00	510.00	0.00	425.00	0.00	633.25	0.00	425.00	0.00	493.00	0.00	3081.25	87.00
CENTRAL	Butternuts	31.45	32.30	0.00	76.50	0.00	17.00	0.00	0.00	0.00	0.00	0.00	157.25	6.00
	Cabbage	109.65	115.60	0.00	119.00	0.00	119.00	0.00	0.00	0.00	0.00	0.00	463.25	8.50
	Gem squash	12.75	12.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	1.00
	Onions	53.55	51.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105.40	3.45
	Potatoes	0.00	510.00	0.00	1394.00	0.00	467.50	0.00	42.50	0.00	0.00	0.00	2414.00	59.00
SOUTH AND ORANGE RIVER	Butternuts	204.00	163.20	30.60	72.25	0.00	29.75	0.00	0.00	0.00	0.00	0.00	499.80	18.86
	Cabbage	0.00	0.00	0.00	59.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.50	1.00
	Gem squash	14.45	12.75	0.00	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.70	2.08
	Onions	110.50	48.45	0.00	71.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	230.35	5.90
Total expected production tonnage per crop per month	Butternuts	318	345	31	389	0	96	0	0	0	0	0	1178	55
	Cabbage	281	341	0	630	0	419	0	251	0	170	0	2092	46
	Gem Squash	36	57	0	53	0	19	0	19	0	6	0	189	8
	Onions	463	304	0	74	0	0	0	0	0	0	0	842	22
	Potatoes	595	1020	0	1819	0	1101	0	468	0	493	0	5495	146
	Broccoli	15		0	7	0	7	0	7	0	7	0	41	3
	Cauliflower	23		0	7	0	7	0	7	0	7	0	50	3

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 except in Zambezi. 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 January to 31 May 2021																								Last updated: 17 December 2020										
NAME OF PRODUCER	Target Market			01-15 Jan 2021					16-31 Jan 2021					Feb-21					Mar-21					Apr-21					May-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	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	
ZAMBEZI																																		
1	Alex Lisao	✓	✓																															
2	Bernard Sitali	✓	✓																															
3	Clemens Makumbi	✓	✓																															
4	Clement Mulyokela	✓	✓																															
5	Kamwi Lubanda	✓	✓																															
6	Laimi Likando	✓	✓																															
7	Tererai Msakwa Ndeleki	✓	✓																															
KAVANGO REGIONS																																		
NAME OF PRODUCER	Local informal	local Formal	Export	01-15 Jan 2021					16-31 Jan 2021					Feb-21					Mar-21					Apr-21					May-21					
1	Mupetami Nicanor	✓	✓																															
2	Uhvungu Vungu GSIP	✓	✓																															
NORTH CENTRAL																																		
1	Akathigo Kapuka	✓	✓																															
2	Andreas Ashimbanga	✓	✓																															
3	Asser Moses	✓	✓																															
4	Chrisna Greeff	✓	✓																															
5	Elifas Nuuyoma	✓	✓																															
6	Emily Naunyango	✓	✓																															
7	Etunda GSIP (Small & medium)	✓	✓																															
8	George Eugene	✓	✓																															
9	Johannes Naidjala	✓	✓																															
10	Matheus Nuukunde	✓	✓																															
11	Noah Hanyanya	✓	✓																															
12	Patriciu Ndindalelwa	✓	✓																															
13	Paulus Amutenya	✓	✓																															
14	Paulus Kapia	✓	✓																															

Table 3A continues...

[illegible]

NAME OF PRODUCER		Local informal	local Formal	Export	01-15 Jan 2021				16-31 Jan 2021				Feb-21				Mar-21				Apr-21				May-21						
1	Alfeus Angola	√	√																												
2	Caleb Mujoma	√	√																												
3	Cobus Coetzee	√	√	√																											
4	Dirk van der Berg	√	√																												
5	Elizabeth & Erick van Druten	√	√																												
6	Fredrik Haixwa	√	√																												
7	Hansie van der Merwe	√	√																												
8	J.P.J Swanepoel	√	√																												
9	Karl Damased	√	√																												
10	LM Potgieter	√	√																												
11	Loui Smit	√	√	√																											
12	Ludie Kolver	√	√	√																											
13	Magano Kapia	√	√																												
14	Mark von Maltzahl	√	√																												
15	Michael Iyambo	√	√	√																											
16	Peter Kawana	√	√																												
17	Peter T Erasmus	√	√																												
18	Phelep Pendukeni	√	√																												
19	Willem Shali	√	√	√																											

CENTRAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SOUTH AND ORANGE RIVER
















NAME OF PRODUCER	Local informal	Local Formal	Export	01-15 Jan 2021	16-31 Jan 2021	Feb-21	Mar-21	Apr-21	May-21
1 Arthur Makhza	✓	✓							
2 Burger J. Harmse	✓	✓							
3 G.F. Janse van Rensburg	✓	✓							
4 Hendrik Berg	✓	✓							
5 Hentie van Dyk	✓	✓							
6 Isack Tadeus	✓	✓							
7 Jimmy O Kennedy	✓	✓							
8 Jean Roux	✓	✓							
9 Louis Louw	✓	✓							
10 Lukas Lumbala	✓	✓							
11 Nico van der Merwe	✓	✓							
12 Rudi Kotze	✓	✓							

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 central 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 January to 31 May 2021 Last updated: 17 December 2020															
NAME OF PRODUCER	Target Market			01-15 Jan 21		16-31 Jan 21		Feb-21		Mar-21		Apr-21		May-21	
	Local informal	Local Formal	Export	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower
KARST AREA															
1	Loui Smit		✓												
2	Mark von Maltzahl		✓												
CENTRAL AREA															
1	Derck Jacobs		✓												
2	Dinah Trauss		✓												

Source: NAB, 2020

4. EXPECTED PRODUCTION VS DEMAND ANALYSIS

4.1 TABULATION ANALYSIS

Table 4 below reveals that, the total tonnage expected for butternuts, cabbage and gem squash will be sufficient to satisfy the domestic demand in January 2021. Onions are expected to be sufficient only for the first two weeks, thus from the 01 to 15 January 2021. Hence, the border will be closed to restrict the importation of these four (4) crops during these specified days. Table 4 further shows that potatoes, broccolis and cauliflowers are expected to be insufficient throughout this reporting period, hence the border will remain open.

Table 4: ANALYSIS OF THE EXPECTED TONNAGE FOR DOMESTIC MARKET VERSUS AVERAGE DOMESTIC DEMAND								
Numbers in this table represents tonnage					Last updated: 17 December 2020			
Special Controlled and Monitored Crops	Expected Surplus or Shortage	01-15 Jan 21	16-31 Jan 21	Feb-21	Mar-21	Apr-21	May-21	Total
Butternuts	Expected for domestic market	318	345	389	96	0	0	830
	Average domestic demand	73	73	146	146	146	146	659
	Surplus / shortage	245	271	242	-51	-146	-146	170
Cabbage	Expected for domestic market	281	341	630	419	251	170	1810
	Average domestic demand	120	120	240	240	240	240	1080
	Surplus / shortage	161	220	390	179	11	-70	730
Gem Squash	Expected for domestic market	36	57	53	19	19	6	153
	Average domestic demand	19	19	39	39	39	39	174
	Surplus / shortage	17	37	14	-20	-20	-33	-21
Onions	Expected for domestic market	463	304	74	0	0	0	378
	Average domestic demand	430	430	860	860	860	860	3870
	Surplus / shortage	33	-126	-786	-860	-860	-860	-3492
Potatoes	Expected for domestic market	595	1020	1819	1101	468	493	4900
	Average domestic demand	1,777	1777	3553	3553	3553	3553	15989
	Surplus / shortage	-1182	-757	-1734	-2452	-3086	-3060	-11088
Broccoli	Expected for domestic market	14		7	7	7	7	41
	Average domestic demand	26		26	26	26	26	129
	Surplus / shortage	-12		-19	-19	-19	-19	-88
Cauliflower	Expected for domestic market	23		7	7	7	7	50
	Average domestic demand	29		29	29	29	29	146
	Surplus / shortage	-6		-23	-23	-23	-23	-96

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, 2, and 3** below shows that the projected production tonnage for butternuts, cabbage and gem squash reserved for local market is expected to be sufficient as from 01 – 31 January 2021. However, **figure 4** shows that, onions are expected to be sufficient only from 01 to 15 January 2021. **Figure 5** indicate that the country expects a shortage of potatoes during this period given that the average domestic demand tonnages is above the local expected tonnage.



Figure 1: Butternuts production tonnage expected for local and export markets, versus average domestic demand for the period - 01 January to 31 May 2021 (Subjected to monthly changes)

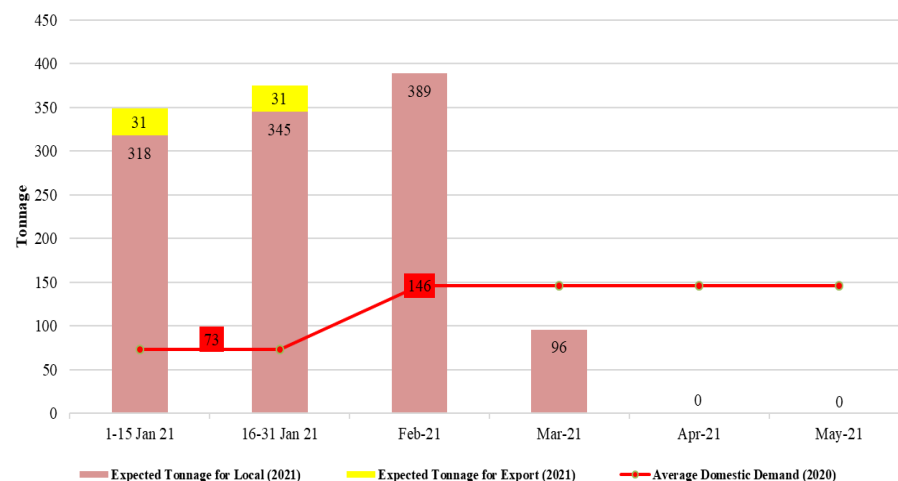


Figure 2: Cabbage production tonnage expected for local and export markets, versus average domestic demand for the period - 01 January to 31 May 2021 (Subjected to monthly changes)

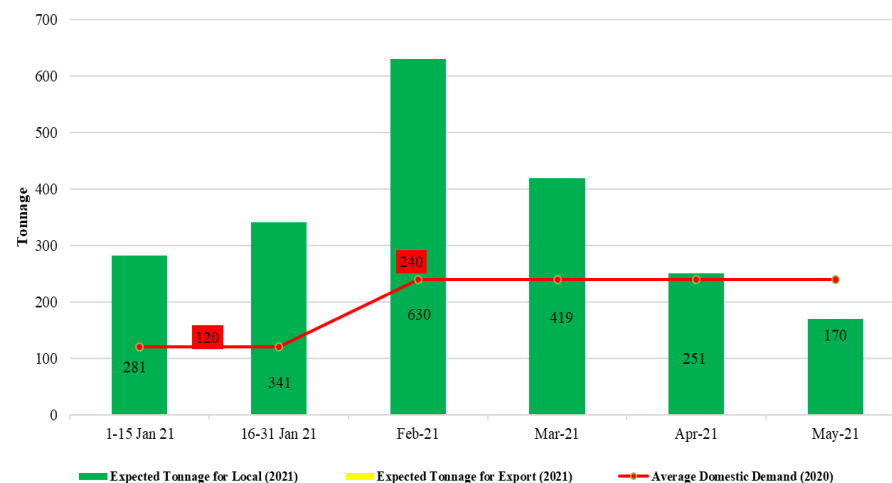


Figure 3: Gem Squash production tonnage expected for local and export markets, versus average domestic demand for the period - 01 January to 31 May 2021 (Subjected to monthly changes)

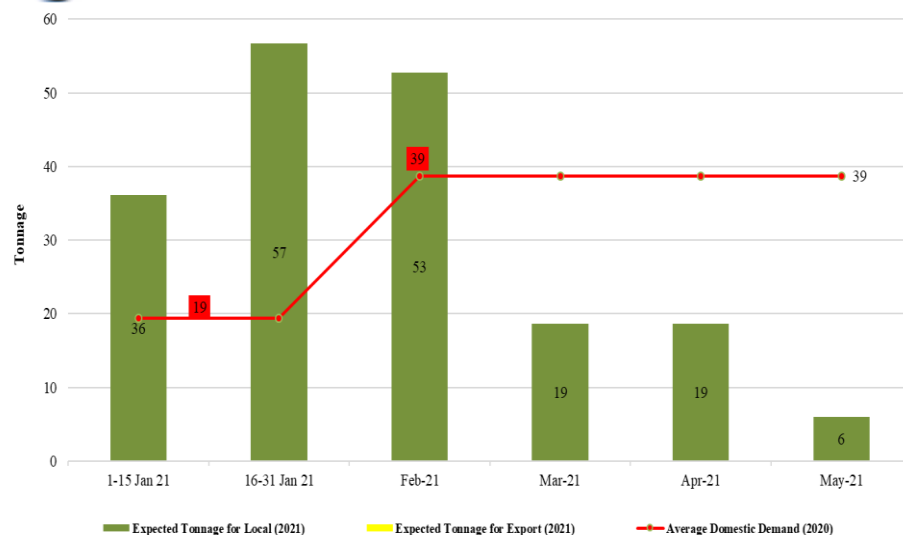
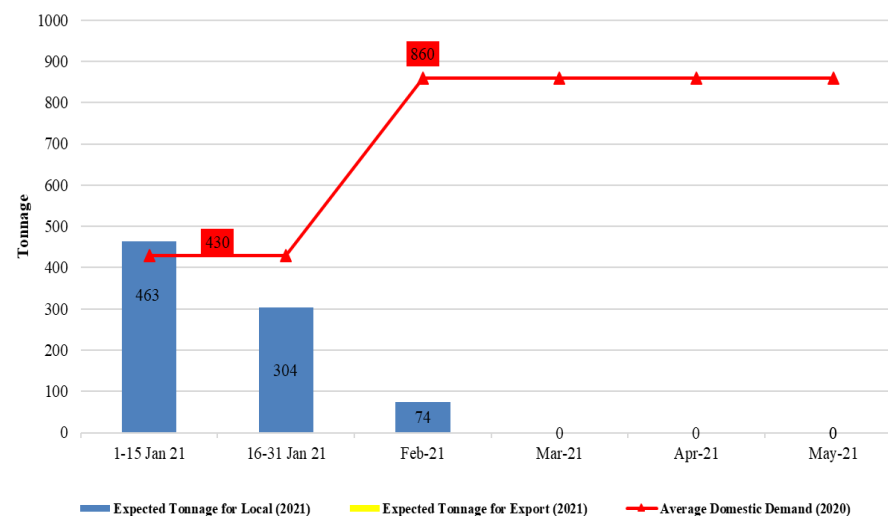
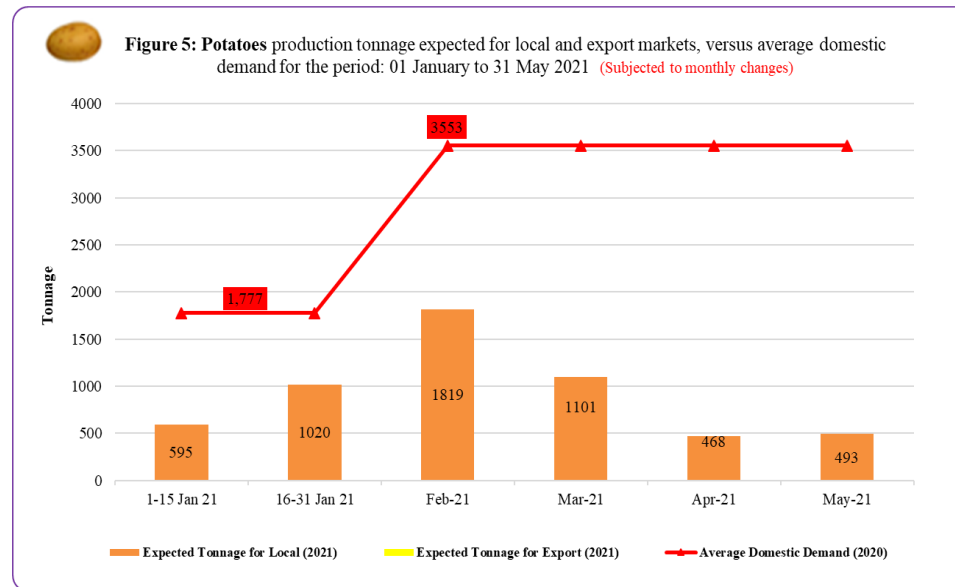


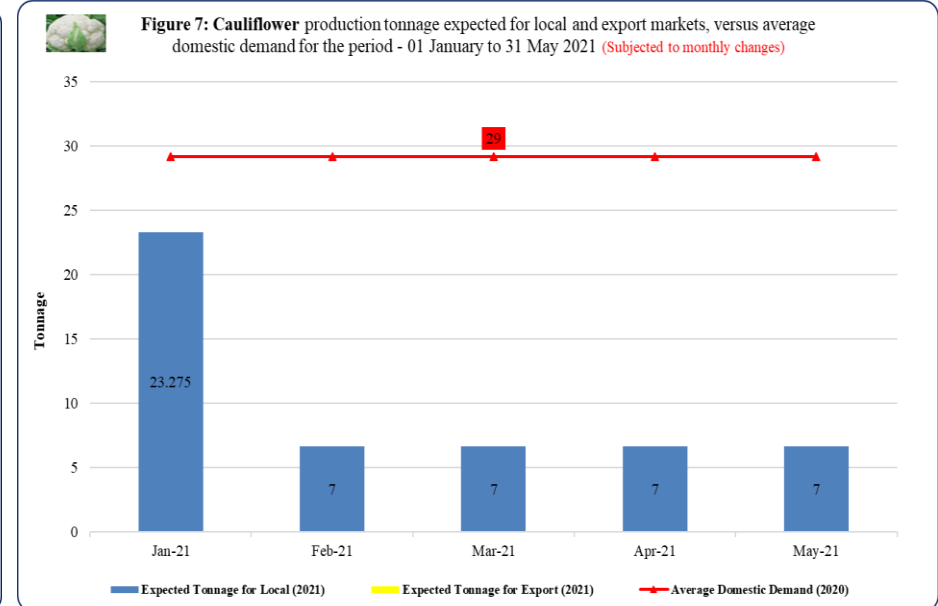
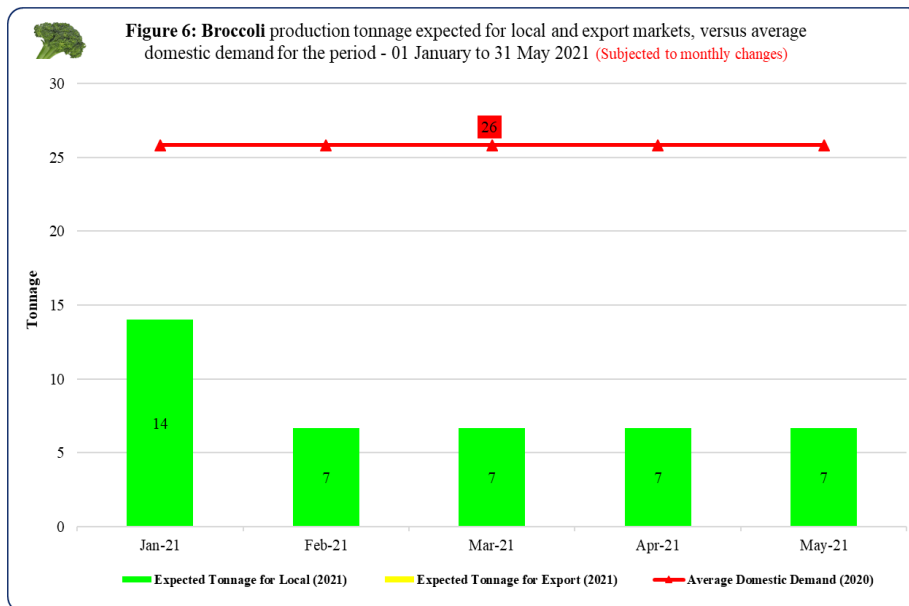
Figure 4: Onions production tonnage expected for the local and export markets, versus average domestic demand for the period - 01 January to 31 May 2021 (subjected to monthly changes)



Graphical analysis figures continue...



It should be noted that, broccolis and cauliflowers are classified as monitored crop 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.

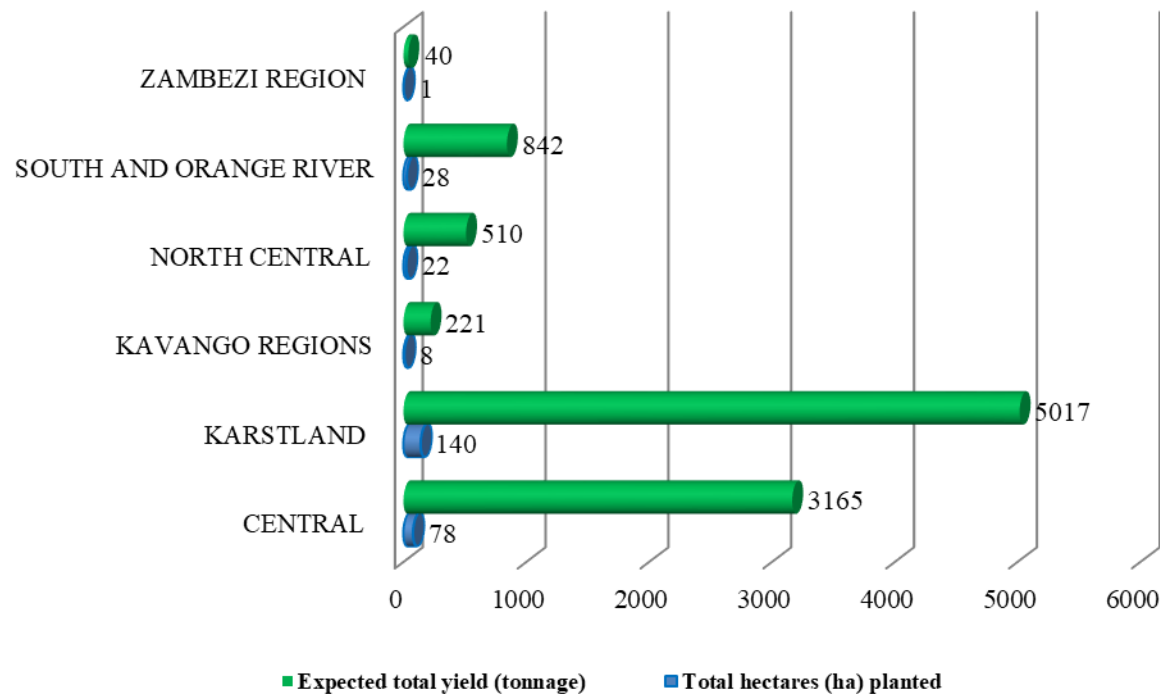


Source: NAB, 2020

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 140 and the highest total yield of 5017 tons expected to be harvested. Zambezi production area is ranked last with 1 (one) ha and a total of 40 tons expects 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.

Figure 8: Total hectares planted versus expected total yield (tonnage) per production area



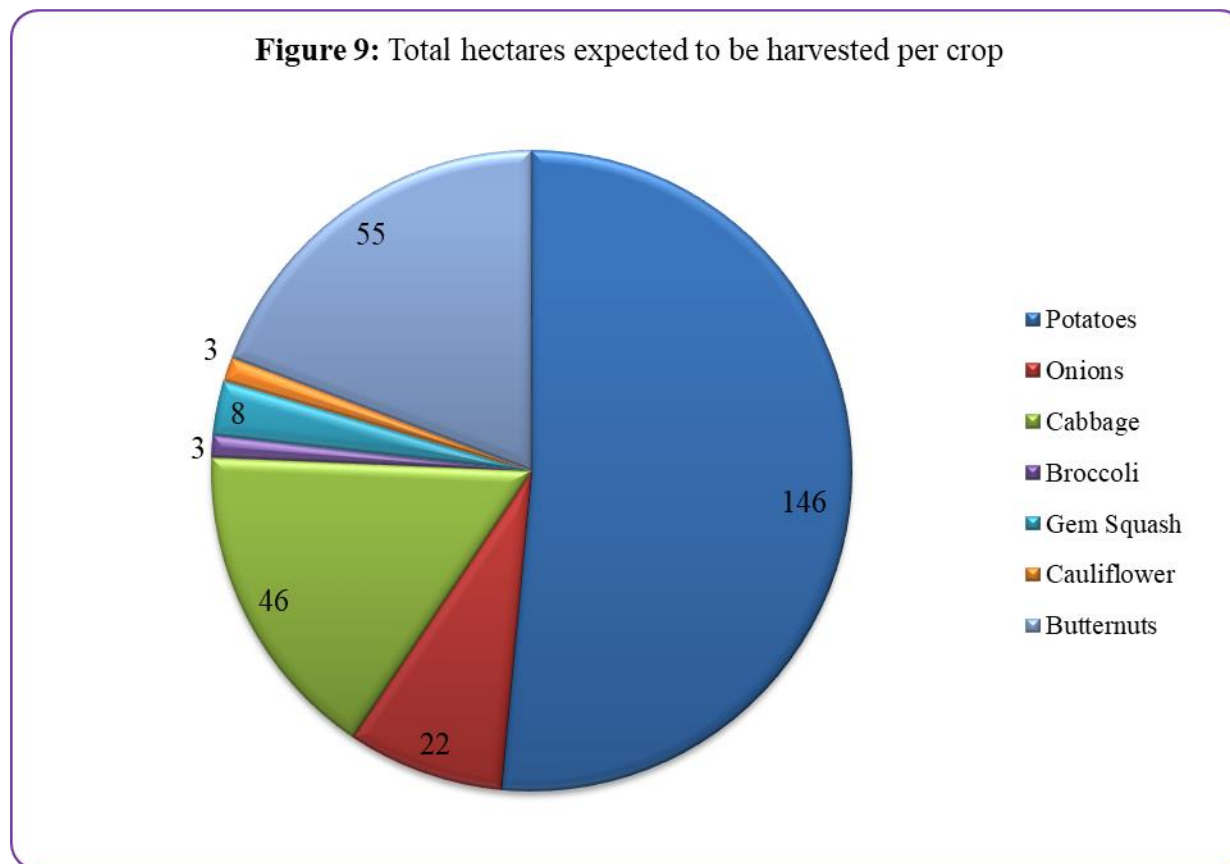
Source: NAB, 2020

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 283 hectares are expected to be harvested during this reporting period, of which potatoes covered the largest portion (146 ha) followed by butternuts (55 ha) while the smallest portions of land is covered by broccolis and cauliflower with 3ha each 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 cabbage (45ton/ha) followed by onions and potatoes with 38 tons/ha each, while the lowest average yield per hectare is expect for broccolis (13ton/ha).



This report concluded that, there will be sufficient local supply of butternuts, cabbage and gem squash from 01 to 31 January 2021 while onions will only be sufficient for the first two weeks of January 2021. It is therefore recommended that the borders be closed to restrict the importation of onions as from 01 to 15 January 2021 while butternuts, cabbage and gem squash be restricted as from 01 to 31 January 2021 until further notice. Furthermore, the report revealed that the country expects a shortage of potatoes since the average domestic demand tonnage is expected to be above the local expected tonnage throughout this reporting period. This implies that the borders remain open to allow registered Traders to import washed potatoes in order to satisfy their local customers' demand. Moreover, the two monitored crops (broccolis and cauliflowers) are also expected to be insufficient throughout this reporting period. Traders are advised to contact registered Producers who are expected to harvest these products, so that they make necessary arrangements for their local purchases and ensure compliance to the Market Share Promotion requirements.

All vegetable Producers are yet again encouraged to provide/send their production data to the Horticulture Market Development 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.

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