



Butternuts



Cabbage



Gem Squash



Onions



Potatoes



Broccoli



Cauliflower



HORTICULTURE: VEGETABLES PRODUCTION FORECAST

REPORT NO 1

FORECASTED PERIOD:

01 FEBRUARY TO 30 JUNE 2021

Agronomy and Horticulture Market Development Division
Horticulture Market Development Subdivision

Enquiries: Paulina Sheehama

Cell: +264813003320

Email: Paulina.Sheehama@nab.com.na

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 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

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 February to 30 June 2021														
Numbers in the table below represents tonnage														
PRODUCTION AREAS	Special controlled and monitored crops	Feb-21			Mar-21		Apr-21		May-21		Jun-21		Total (for the 5 months period)	
		01-15 Feb 21 Local	16-28 Feb 21 Local	01-28 Feb 21 Export	Local	Export	Local	Export	Local	Export	Local	Export	Yield	Ha to be harvested
ZAMBEZI REGION	Butternuts	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.04
	Cabbage	5.53	4.59	0.00	3.40	0.00	21.59	0.00	0.00	0.00	0.00	0.00	35.11	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	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01
KAVANGO REGIONS	Butternuts	0.00	0.00	0.00	4.25	0.00	11.05	0.00	11.05	0.00	0.00	0.00	26.35	0.92
	Cabbage	0.00	0.00	0.00	0.00	0.00	4.25	0.00	8.50	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	212.50	212.50	0.00	263.50	0.00	510.00	0.00	8.50	0.00	0.00	0.00	1207.00	25.50
NORTH CENTRAL	Butternuts	11.90	31.03	0.00	36.38	0.00	14.88	0.00	0.00	0.00	0.00	0.00	94.18	6.02
	Cabbage	9.35	17.85	0.00	48.45	0.00	12.75	0.00	5.10	0.00	0.00	0.00	93.50	2.95
	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	65.03	73.60	0.00	157.25	0.00	59.50	0.00	0.00	0.00	0.00	0.00	355.38	19.31
	Cabbage	41.65	41.65	0.00	240.55	0.00	306.85	0.00	238.00	0.00	195.50	0.00	1064.20	23.10
	Gem squash	11.48	11.48	0.00	18.70	0.00	10.20	0.00	10.20	0.00	5.95	0.00	68.00	3.50
	Onions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	170.00	136.00	306.00	6.00
	Potatoes	221.00	425.00	0.00	633.25	0.00	425.00	0.00	467.50	0.00	255.00	0.00	2426.75	71.50
CENTRAL	Butternuts	34.00	34.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.00	3.50
	Cabbage	116.03	116.88	0.00	229.50	0.00	0.00	0.00	34.00	0.00	0.00	0.00	496.40	12.10
	Gem squash	7.23	7.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.45	0.70
	Onions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.50	0.00	0.00	0.00	8.50	0.30
	Potatoes	85.00	403.75	0.00	459.00	0.00	34.00	0.00	212.50	0.00	0.00	0.00	1194.25	37.00
SOUTH AND ORANGE RIVER	Butternuts	12.75	14.45	0.00	11.05	0.00	25.50	0.00	0.00	0.00	0.00	0.00	63.75	2.50
	Cabbage	25.50	25.50	0.00	51.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.00	2.00
	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	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
Total expected production tonnage per crop per month	Butternuts	124	153	0	227	0	111	0	11	0	0	0	626	32
	Cabbage	198	206	0	573	0	345	0	286	0	196	0	1804	41
	Gem Squash	19	19	0	19	0	10	0	10	0	6	0	82	4
	Onions	13	13	0	0	0	0	0	9	0	170	136	340	7
	Potatoes	519	1041	0	1356	0	969	0	689	0	255	0	4828	134
	Broccoli	8	8	0	7	0	7	0	7	0	7	0	35	3
	Cauliflower	8	8	0	7	0	7	0	7	0	7	0	35	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, cabbage is 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 February to 30 June 2021																								Last updated: 18 January 2021											
NAME OF PRODUCER	Target Market			01-15 Feb 2021					16-28 Feb 2021					Mar-21					Apr-21					May-21					Jun-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	Bernard Sitali	✓	✓																																
2	Clemens Makumbi	✓	✓																																
3	Kamwi Lubanda	✓	✓																																
4	Laimi Likando	✓	✓																																
5	Lasken Kayabu Kayambo	✓	✓																																
6	Patrick Muketela	✓	✓																																
KAVANGO REGIONS																																			
NAME OF PRODUCER	Local Informal	Local Formal	Export	01-15 Feb 2021					16-28 Feb 2021					Mar-21					Apr-21					May-21					Jun-21						
1	Asser Haitewa Siranda	✓	✓																																
2	Blandine Meesher Nangombe	✓	✓																																
3	Hendrick Locke	✓	✓																																
4	Lourens Le Grange	✓	✓																																
5	Pius Kapirika	✓	✓																																
NORTH CENTRAL																																			
1	Akathigo Kapuka	✓	✓																																
2	Andreas Ashimbanga	✓	✓																																
3	Asser Moses	✓	✓																																
4	Elifas Nuuyoma	✓	✓																																
5	Emily Naunyango	✓	✓																																
6	Etunda GSIP (Small & medium)	✓	✓																																
7	Johannes Naidjala	✓	✓																																
8	Lonja & Abraham Ismael	✓	✓																																
9	Patriciu Ndindalelwa	✓	✓																																
10	Paulus Amutenya	✓	✓																																
11	Paulus Kapia	✓	✓																																
12	Paulus Titus	✓	✓																																
13	Petrus Atilifa	✓	✓																																

Table 3A continues...

4. EXPECTED PRODUCTION VS DEMAND ANALYSIS

4.1 TABULATION ANALYSIS

Table 4 below reveals that, the total tonnage expected for butternuts and cabbage will be sufficient to satisfy the domestic demand in February 2021. Consequently, the border will be closed to restrict the importation of these two (2) crops till further notice. 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 January 2021			
Special Controlled and Monitored Crops	Expected Surplus or Shortage	01-15 Feb 21	16-28 Feb 21	Mar-21	Apr-21	May-21	Jun-21	Total
Butternuts	Expected for domestic market	124	153	227	111	11	0	502
	Average domestic demand	83	83	166	166	166	166	746
	Surplus / shortage	41	70	62	-55	-155	-166	-243
Cabbage	Expected for domestic market	198	206	573	345	286	196	1606
	Average domestic demand	124	124	247	247	247	247	1114
	Surplus / shortage	74	83	325	98	38	-52	492
Gem Squash	Expected for domestic market	19	19	19	10	10	6	64
	Average domestic demand	20	20	40	40	40	40	181
	Surplus / shortage	-1	-1	-21	-30	-30	-34	-117
Onions	Expected for domestic market	13	13	0	0	9	170	191
	Average domestic demand	439	439	878	878	878	878	3949
	Surplus / shortage	-426	-426	-878	-878	-869	-708	-3758
Potatoes	Expected for domestic market	519	1041	1356	969	689	255	4310
	Average domestic demand	1,746	1746	3492	3492	3492	3492	15716
	Surplus / shortage	-1228	-705	-2137	-2523	-2804	-3237	-11406
Broccoli	Expected for domestic market	14		7	7	7	7	41
	Average domestic demand	31		31	31	31	31	156
	Surplus / shortage	-17		-25	-25	-25	-25	-115
Cauliflower	Expected for domestic market	8		7	7	7	7	35
	Average domestic demand	38		38	38	38	38	191
	Surplus / shortage	-30		-32	-32	-32	-32	-156

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 as from 01 – 28 February 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.



Figure 1: Butternuts production tonnage expected for local and export markets, versus average domestic demand for the period - 01 February to 30 June 2021 (Subjected to monthly changes)

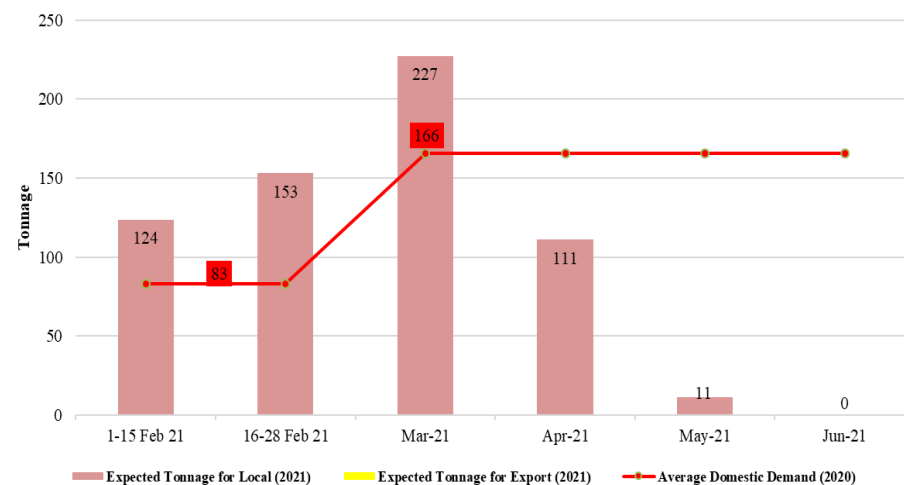


Figure 2: Cabbage production tonnage expected for local and export markets, versus average domestic demand for the period - 01 February to 30 June 2021 (Subjected to monthly changes)

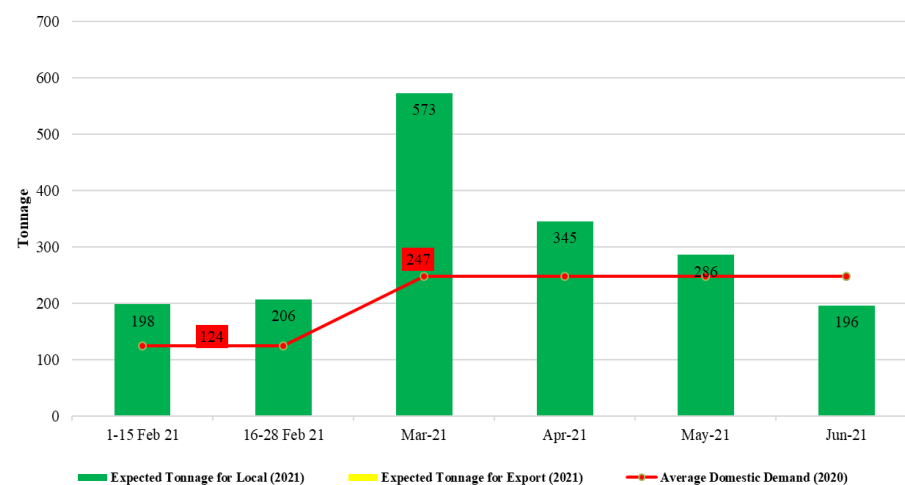


Figure 3: Gem Squash production tonnage expected for local and export markets, versus average domestic demand for the period - 01 February to 30 June 2021 (Subjected to monthly changes)

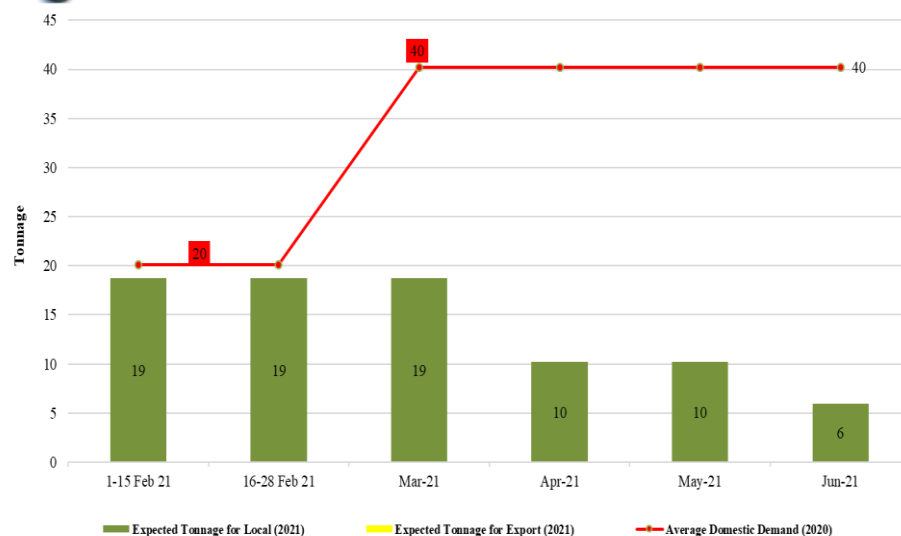
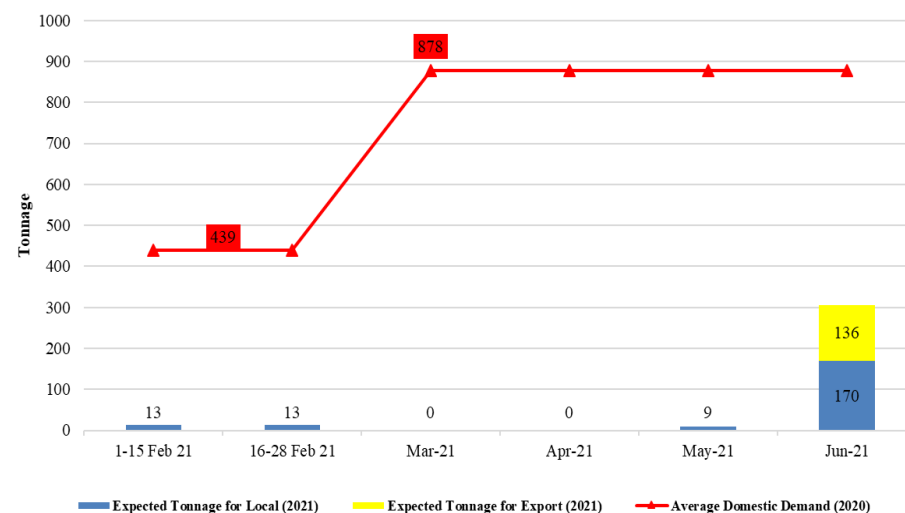
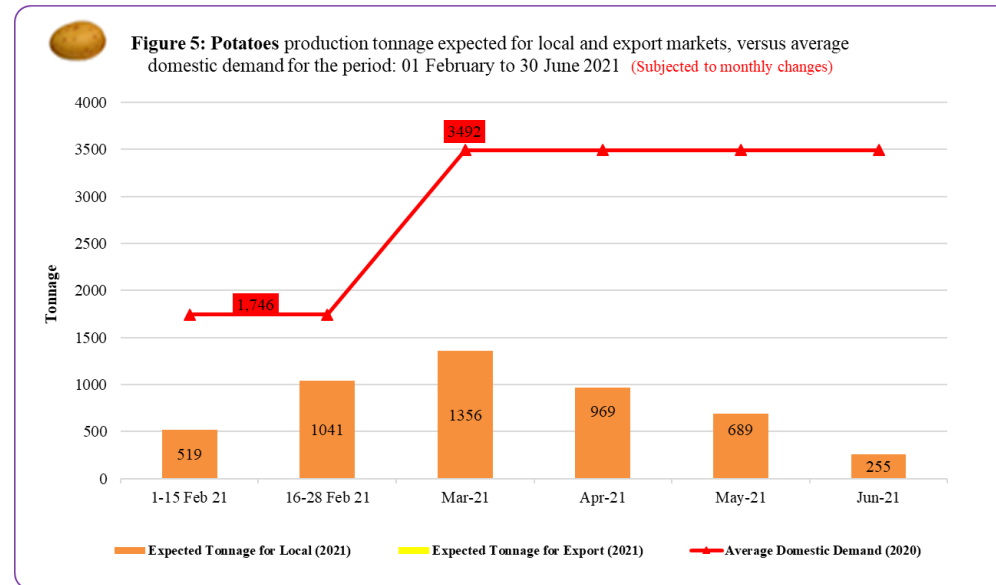


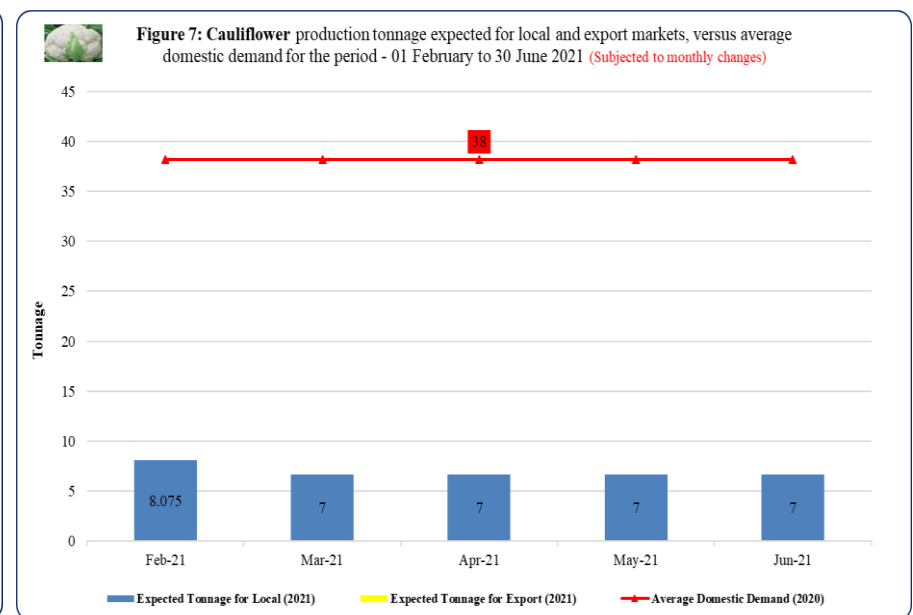
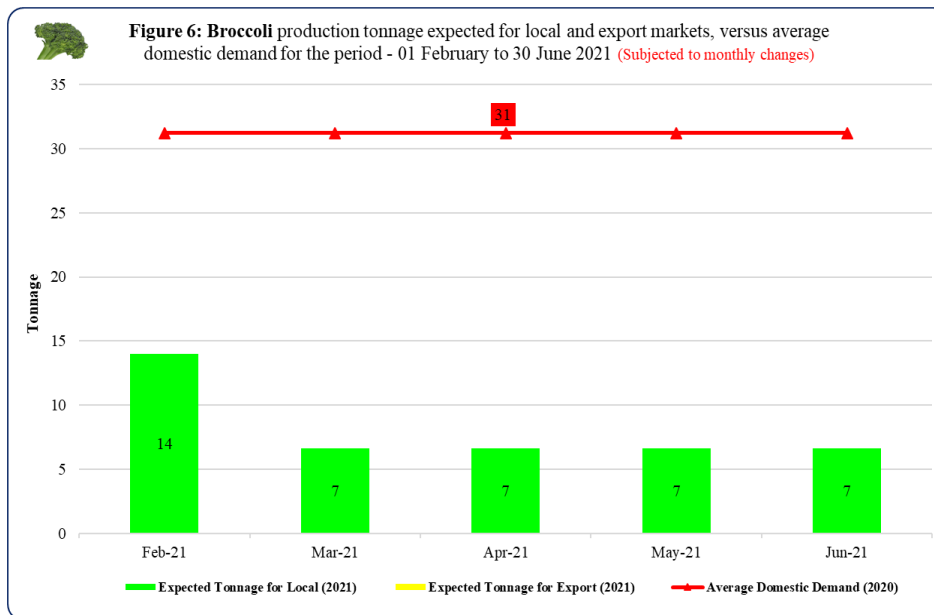
Figure 4: Onions production tonnage expected for the local and export markets, versus average domestic demand for the period - 01 February to 30 June 2021 (subjected to monthly changes)



Graphical analysis figures continue...



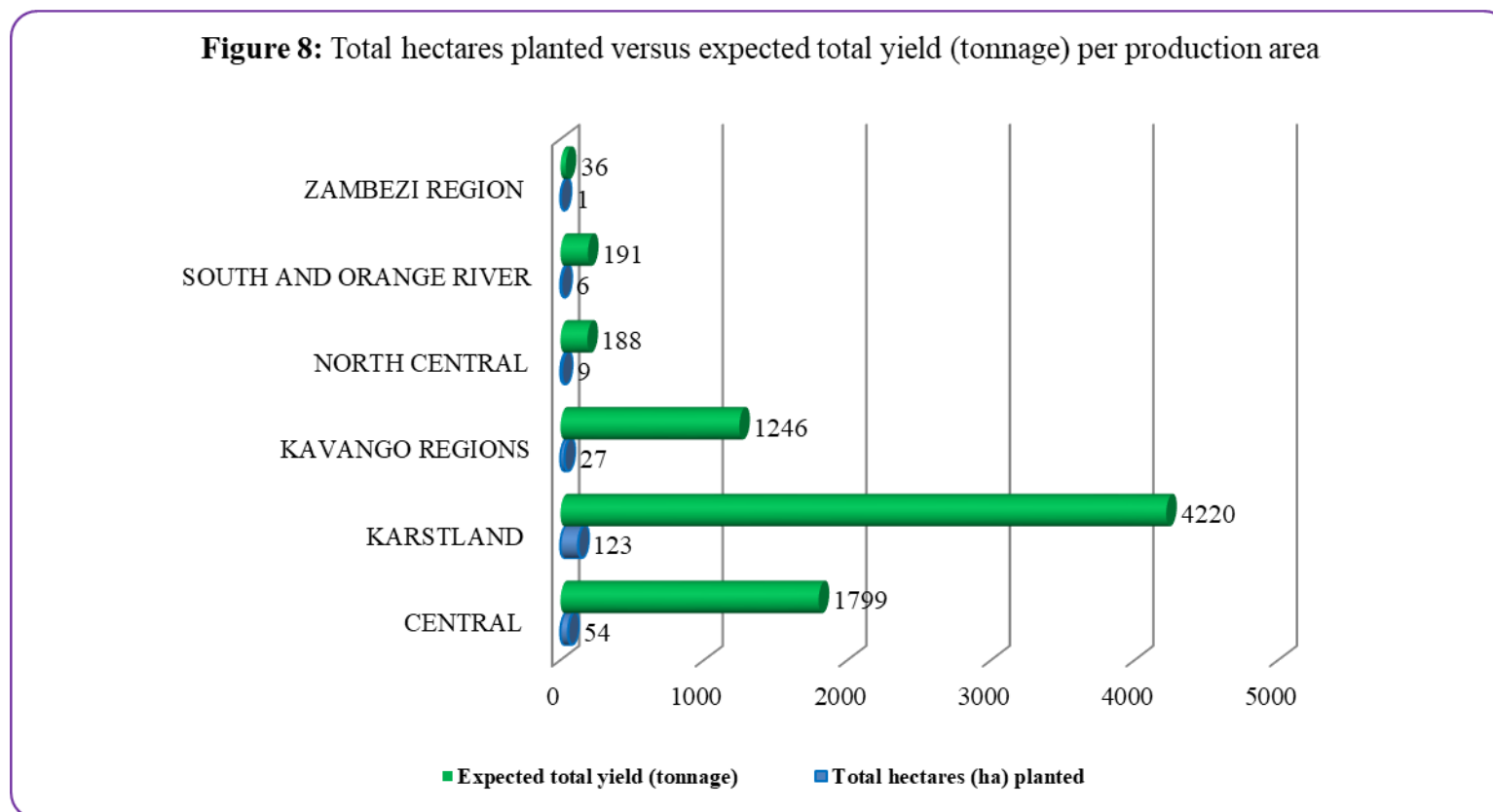
It should be noted that, broccolis and cauliflowers are classified as monitored crop for future possible addition to the list of the special controlled crops. These two products are expected to be insufficient during this reporting period as reflected in **figure 6 and 7** below.



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 123 and the highest total yield of 4220 tons expected to be harvested. Zambezi production area is ranked last with 1 (one) ha and a total of 36 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.



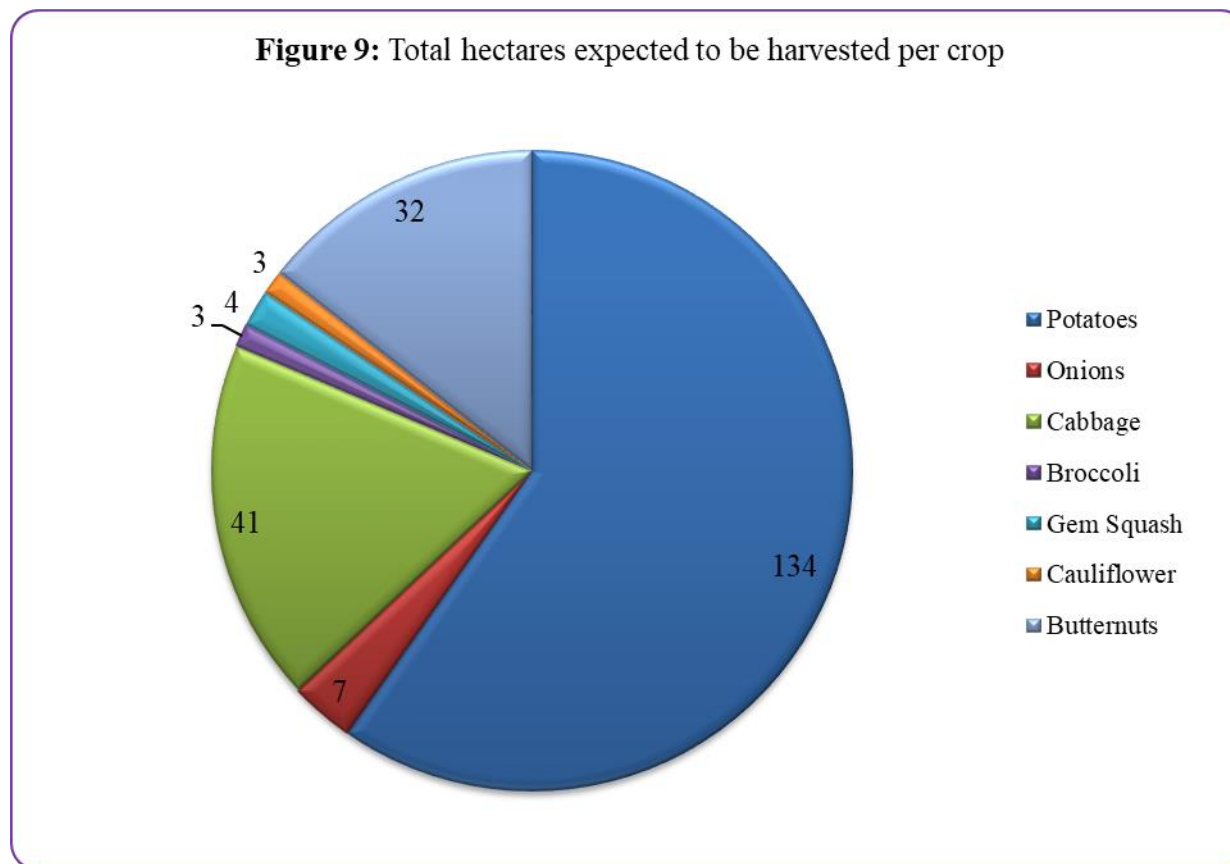
Source: NAB, 2020

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 224 hectares are expected to be harvested during this reporting period, of which potatoes covered the largest portion (134 ha) followed by cabbage (41 ha) while the smallest portions of land is covered by broccolis and cauliflower with 3ha each as indicated below.



Source: NAB, 2020

