



Butternuts



Cabbage



Gem Squash



Onions



Potatoes



Broccoli



Cauliflower



HORTICULTURE: VEGETABLES PRODUCTION FORECAST

REPORT NO 1

FORECASTED PERIOD:

01 SEPTEMBER 2020 TO 31 JANUARY 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 (5) special controlled crops** i.e. **Potato, Onion, Butternut, Cabbage and Gem Squash** as well as the **two (2) 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 September 2020 to 31 January 2021													
Numbers in the table below represents tonnage												Last updated: 20 August 2020	
PRODUCTION AREAS	Special controlled and monitored crops	Sep-20		Oct-20		Nov-20		Dec-20		Jan-21		Total (for the 5 months period)	
		Local	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
	Cabbage	88.67	0.00	70.64	0.00	61.04	0.00	2.72	0.00	0.00	0.00	223.07	5.37
	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
	Onions	3.94	0.00	28.76	0.00	6.38	0.00	11.90	0.00	0.00	0.00	50.97	1.89
KAVANGO REGIONS	Butternuts	0.43	0.00	2.21	0.00	153.60	0.00	79.34	0.00	0.00	0.00	235.57	10.09
	Cabbage	180.12	0.00	42.93	0.00	128.35	0.00	26.18	0.00	5.10	0.00	382.67	11.22
	Gem squash	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	1.28	0.10
	Onions	105.74	0.00	31.11	0.00	345.91	0.00	3.09	0.00	0.00	0.00	485.84	24.28
	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
NORTH CENTRAL	Butternuts	37.15	0.00	47.86	0.00	76.59	0.00	17.51	0.00	0.00	0.00	179.10	12.00
	Cabbage	391.26	0.00	371.28	0.00	379.36	0.00	336.94	0.00	22.44	0.00	1501.27	37.00
	Gem squash	3.40	0.00	4.93	0.00	1.28	0.00	0.00	0.00	0.00	0.00	9.61	1.03
	onions	48.54	0.00	36.38	0.00	30.21	0.00	15.73	0.00	4.51	0.00	135.35	8.85
KARSTLAND	Butternuts	0.00	0.00	0.00	0.00	63.75	0.00	56.10	0.00	12.75	0.00	132.60	5.58
	Cabbage	458.15	0.00	530.40	0.00	564.40	0.00	528.70	0.00	468.35	0.00	2550.00	54.04
	Gem squash	0.00	0.00	0.00	0.00	21.25	0.00	0.00	0.00	0.00	0.00	21.25	1.00
	Onions	1283.50	68.00	572.05	72.25	732.28	242.25	442.00	136.00	12.75	0.00	3561.08	78.10
	Potatoes	1487.50	0.00	903.13	0.00	1370.63	0.00	1602.25	0.00	726.75	0.00	6090.25	140.50
CENTRAL	Butternuts	0.00	0.00	0.00	0.00	0.00	0.00	18.70	0.00	0.00	0.00	18.70	0.75
	Cabbage	93.50	0.00	114.75	0.00	114.75	0.00	89.25	0.00	0.00	0.00	412.25	8.70
	Gem squash	25.50	0.00	25.50	0.00	25.50	0.00	0.00	0.00	0.00	0.00	76.50	3.00
	Onions	306.00	382.50	348.50	382.50	379.95	382.50	333.20	382.50	17.00	0.00	2914.65	54.15
	Potatoes	0.00	0.00	0.00	0.00	467.50	0.00	1105.00	0.00	106.25	0.00	1678.75	43.20
SOUTH AND ORANGE RIVER	Butternuts	9.35	84.15	22.10	84.15	232.82	19.13	268.52	19.13	92.14	0.00	831.47	31.70
	Cabbage	454.75	0.00	357.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	828.75	15.48
	Gem squash	0.00	0.00	8.50	0.00	26.69	0.00	35.19	0.00	0.00	0.00	70.38	3.25
	Onions	65.45	0.00	28.05	0.00	57.80	0.00	212.50	0.00	106.25	0.00	470.05	14.15
Total expected production tonnage per crop per month	Butternuts	47	84	72	84	527	19	440	19	105	0	1397	60
	Cabbage	1666	0	1487	0	1265	0	984	0	496	0	5898	132
	Gem Squash	29	0	39	0	76	0	35	0	0	0	179	8
	Onions	1813	451	1045	455	1553	625	1018	519	141	0	7618	181
	Potatoes	1488	0	903	0	1838	0	2707	0	833	0	7769	184
	Broccoli	36.21	0	23.46	0	10.2	0	10.2	0	10.2	0	90.27	9.06
	Cauliflower	26.86	0	19.21	0	9.35	0	12.75	0	7.65	0	75.82	8.37

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 during the reported season. Hence, traders are advised to contact these producers to arrange and place orders on time to avoid delays. During this reporting period, cabbage and onions are expected to be available in all production areas in comparison to other crops (i.e. germ squash and potatoes).























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 September 2020 to 31 January 2021																						Last updated: 20 August 2020											
NAME OF PRODUCER	Target Market			01-15 Sep 2020					16-30 Sep 2020					Oct-20					Nov-20					Dec-20					Jan-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	Alex Lisao	✓	✓																														
2	Benedicts Musialike	✓	✓																														
3	Bernard Sitali	✓	✓																														
4	Bertha Maswahu	✓	✓																														
5	Castro Samunzala	✓	✓																														
6	Cavin Sikalumba	✓	✓																														
7	Charles Nawa	✓	✓																														
8	Clemens Makumbi	✓	✓																														
9	Clement Mulyokela	✓	✓																														
10	Cris Lizazi	✓	✓																														
11	David Muluti	✓	✓																														
12	Davis Mushitu	✓	✓																														
13	Elina Kalundu	✓	✓																														
14	Fabian Sisamu	✓	✓																														
15	Florance Likezo	✓	✓																														
16	Geofre Samunzala	✓	✓																														
17	Godfrey Sabeho	✓	✓																														
18	Imelda Mahulilo	✓	✓																														
19	Imran Vadi	✓	✓																														
20	Jerome Mujelemani Lubanda	✓	✓																														

Table 3A continues...

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Table 3A continues...

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Table 3A continues...

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Table 3A continues...

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CENTRAL


















































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Table 3A continues...

SOUTH AND ORANGE RIVER																																
NAME OF PRODUCER		Local informal	Local Formal	Export	01-15 Sep 2020				16-30 Sep 2020				Oct-20				Nov-20				Dec-20				Jan-21							
1	Abe Olivier	✓	✓	✓																												
2	Burger J. Harmse	✓	✓																													
3	Charl Van Rensburg	✓	✓																													
4	Fanie Louw	✓	✓																													
5	G.F. Janse van Rensburg	✓	✓																													
6	Hendrik Berg	✓	✓																													
7	Hentie van Dyk	✓	✓																													
8	Herman van Dyk	✓	✓																													
9	Hoekes van Niekerk	✓	✓																													
10	Johan Roux	✓	✓																													
11	Jones Nghishimwe	✓	✓																													
12	Kirk Bassingthwaighe	✓	✓																													
13	Louis Louw	✓	✓																													
14	Nico van der Merwe	✓	✓																													
15	Rudi Kotze	✓	✓																													
16	Theresia Jeaneth Aochamos	✓	✓																													
17	Werner J Fourie	✓	✓																													
18	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, central and south 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 September 2020 to 31 January 2020 Last updated: 20 August 2020															
NAME OF PRODUCER	Target Market			01-15 Sep 20		16-31 Sep 20		Oct-20		Nov-20		Dec-20		Jan-20	
	Local informal	Local Formal	Export	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower
KARST AREA															
1	Loui Smit		√												
2	Elke Naude		√												
3	Mark von Maltzahl		√												
CENTRAL AREA															
1	Dinah Trauss		√												
South and Orange River															
1	Charl Van Rensburg		√												
2	G.F. Janse van Rensburg		√												
3	Herman van Dyk		√												
4	Jimmy E. O'kenedy		√												
5	Johan Roux		√												
6	Werner J Fourie		√												

Source: NAB, 2020

4. EXPECTED PRODUCTION VS DEMAND ANALYSIS

4.1 TABULATION ANALYSIS

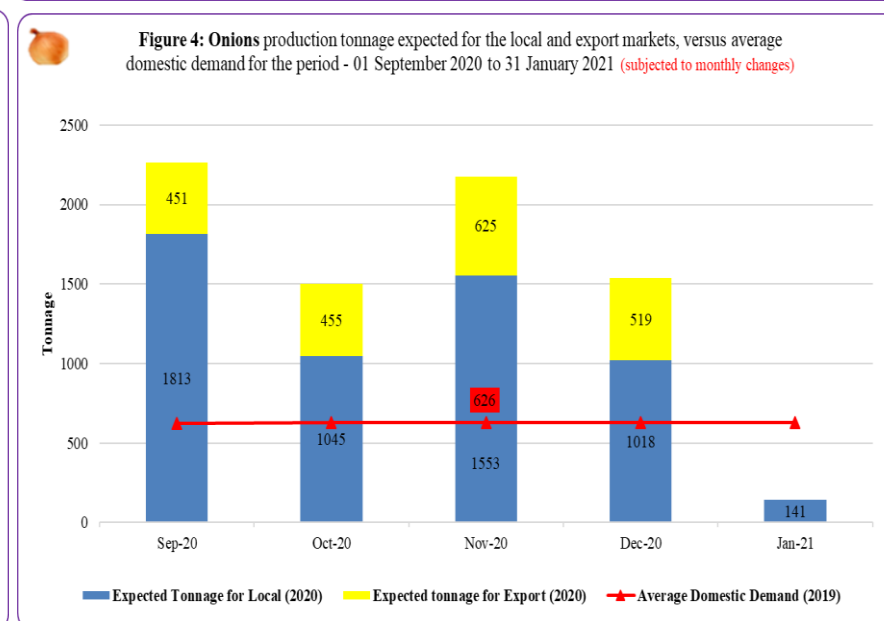
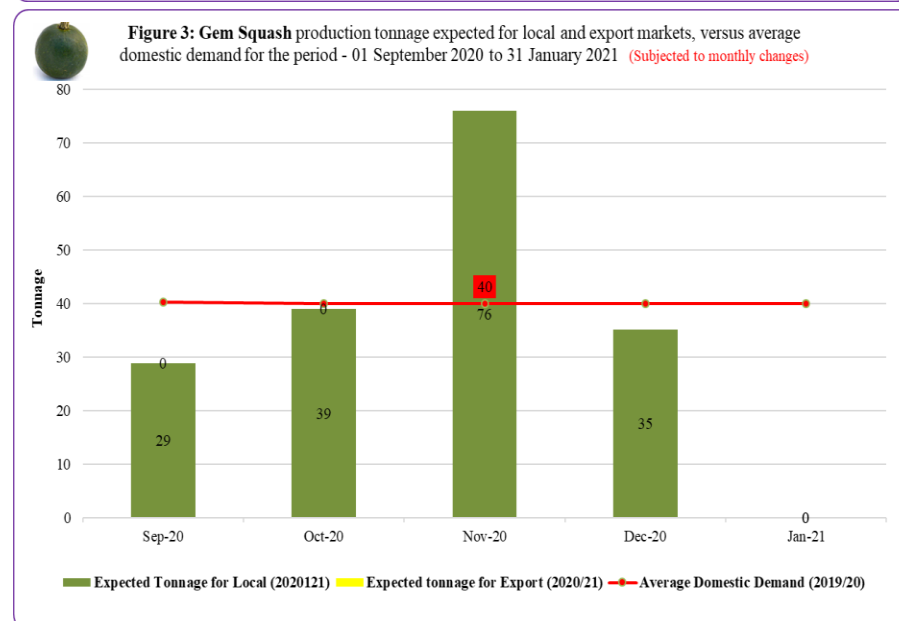
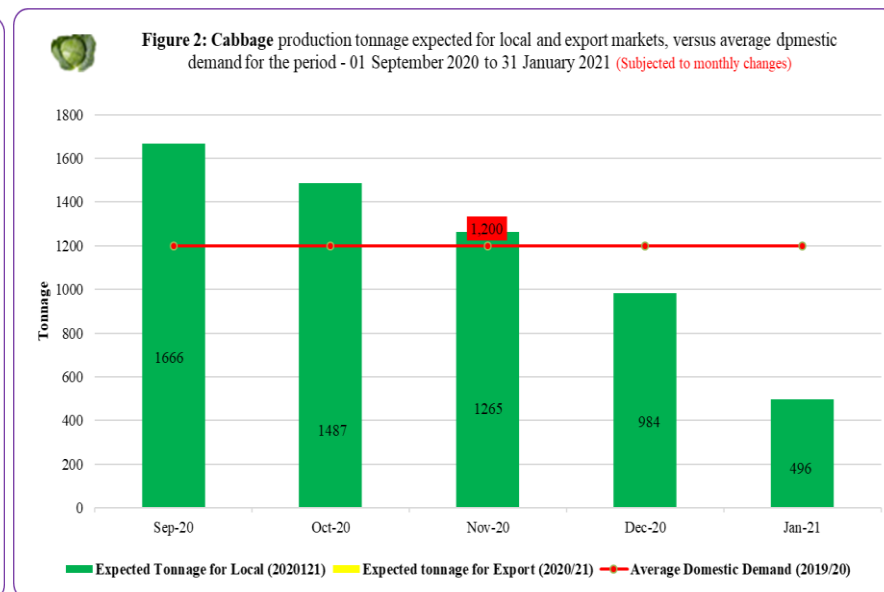
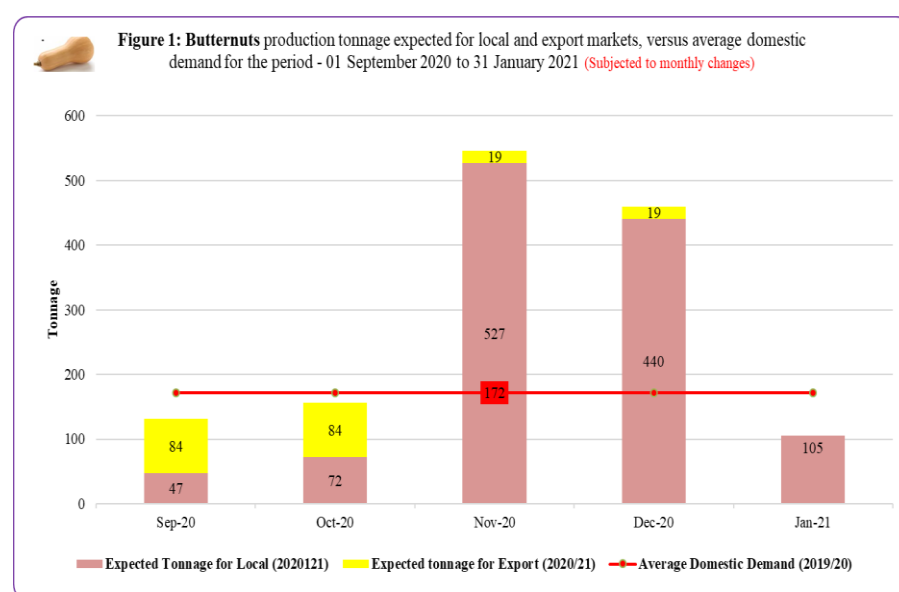
Table 4 below revealed that, the total tonnage expected for butternuts, gem squash, potatoes and cauliflower will be insufficient to meet the domestic demand in September 2020. This suggests that, the borders will be open for importation of these products to supplement the local production. Table 4 further revealed that cabbage and onions are expected to be sufficient for the first four to five months respectively; hence the border will be closed as from 01- 30 September 2020 to restrict importation of these two products.

Table 4: ANALYSIS OF THE EXPECTED TONNAGE FOR DOMESTIC MARKET VERSUS AVERAGE DOMESTIC DEMAND							
Numbers in this table represents tonnage				Last updated: 20 August 2020			
Special Controlled and Monitored Crops	Expected Surplus or Shortage	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Total
Butternuts	Expected for domestic market	47	72	527	440	105	1191
	Avarage domestic demand	172	172	172	172	172	860
	Surplus / shortage	-125	-100	355	268	-67	331
Cabbage	Expected for domestic market	1666	1487	1265	984	496	5898
	Avarage domestic demand	1200	1200	1200	1200	1200	6000
	Surplus / shortage	466	287	65	-216	-704	-102
Gem Squash	Expected for domestic market	29	39	76	35	0	179
	Avarage domestic demand	40	40	40	40	40	200
	Surplus / shortage	-11	-1	36	-5	-40	-21
Onions	Expected for domestic market	1813	1045	1553	1018	141	5569
	Avarage domestic demand	626	626	626	626	626	3130
	Surplus / shortage	1188	419	927	392	-485	2440
Potatoes	Expected for domestic market	1488	903	1838	2707	833	7769
	Avarage domestic demand	3474	3474	3474	3474	3474	17370
	Surplus / shortage	-1987	-2571	-1636	-767	-2641	-9601
Broccoli	Expected for domestic market	36	23	10	10	10	90
	Avarage domestic demand	28	28	28	28	28	140
	Surplus / shortage	8	-5	-18	-18	-18	-50
Cauliflower	Expected for domestic market	27	19	9	13	8	76
	Avarage domestic demand	32	32	32	32	32	160
	Surplus / shortage	-5	-13	-23	-19	-24	-84

Source: NAB, 2020

4.2 GRAPHICAL ANALYSIS

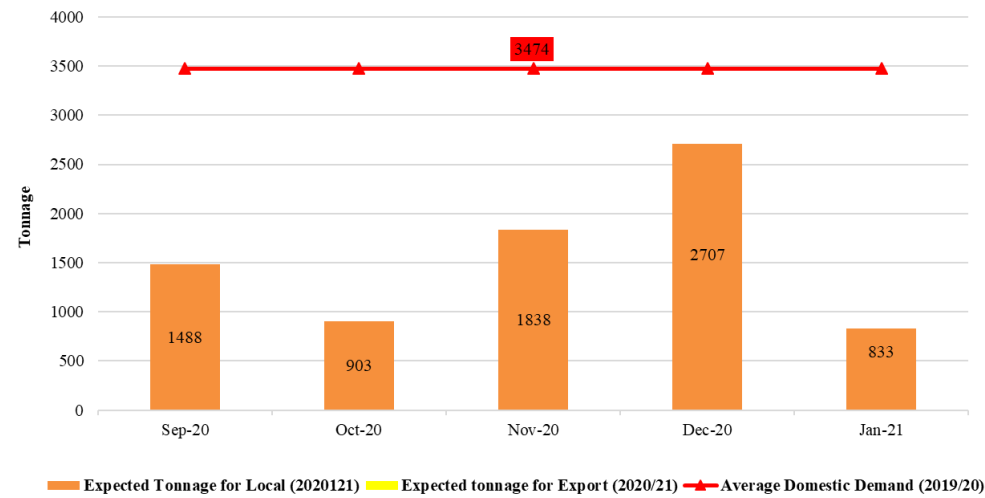
Graphical analysis determines the domestic production tonnage expected for the local and export markets as well as the average domestic demand. **Figure 2 and 3** below shows that the projected production tonnage for cabbage and onions reserved for local market is expected to be sufficient for the first three and five months respectively. However, **figure 1, 3, 5 and 6** shows that the country expects a shortage of butternuts, gem squash, potatoes, and broccoli given that the average domestic demand tonnages is above the local expected tonnage for this reporting period.



Graphical analysis figures continue...



Figure 5: Potatoes production tonnage expected for local and export markets, versus average domestic demand for the period: 01 September 2020 to 31 January 2021 (Subjected to monthly changes)



It should be noted that, broccoli and cauliflower are classified as monitored crop for future possible addition to the list of controlled crops.



Figure 6: Broccoli production tonnage expected for local and export markets, versus average domestic demand for the period - 01 September 2020 to 31 January 2021 (Subjected to monthly changes)

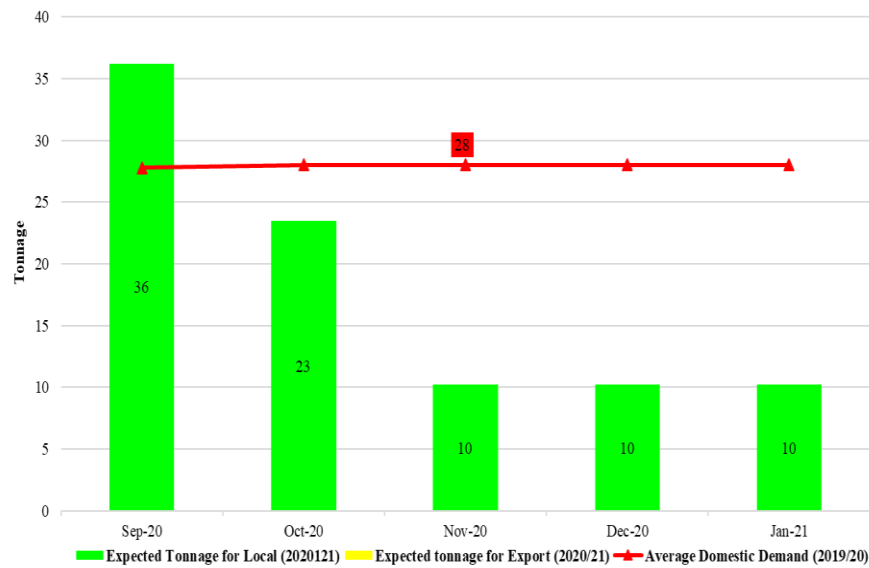
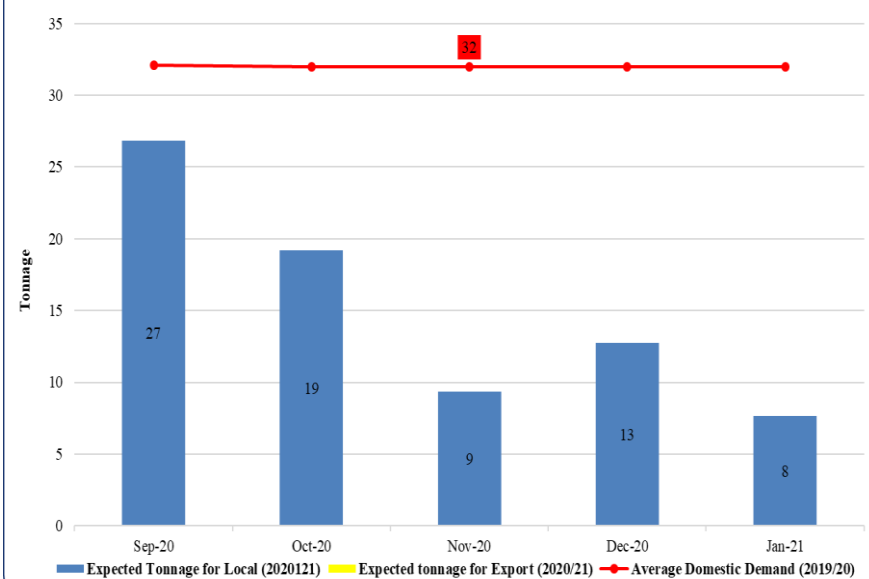


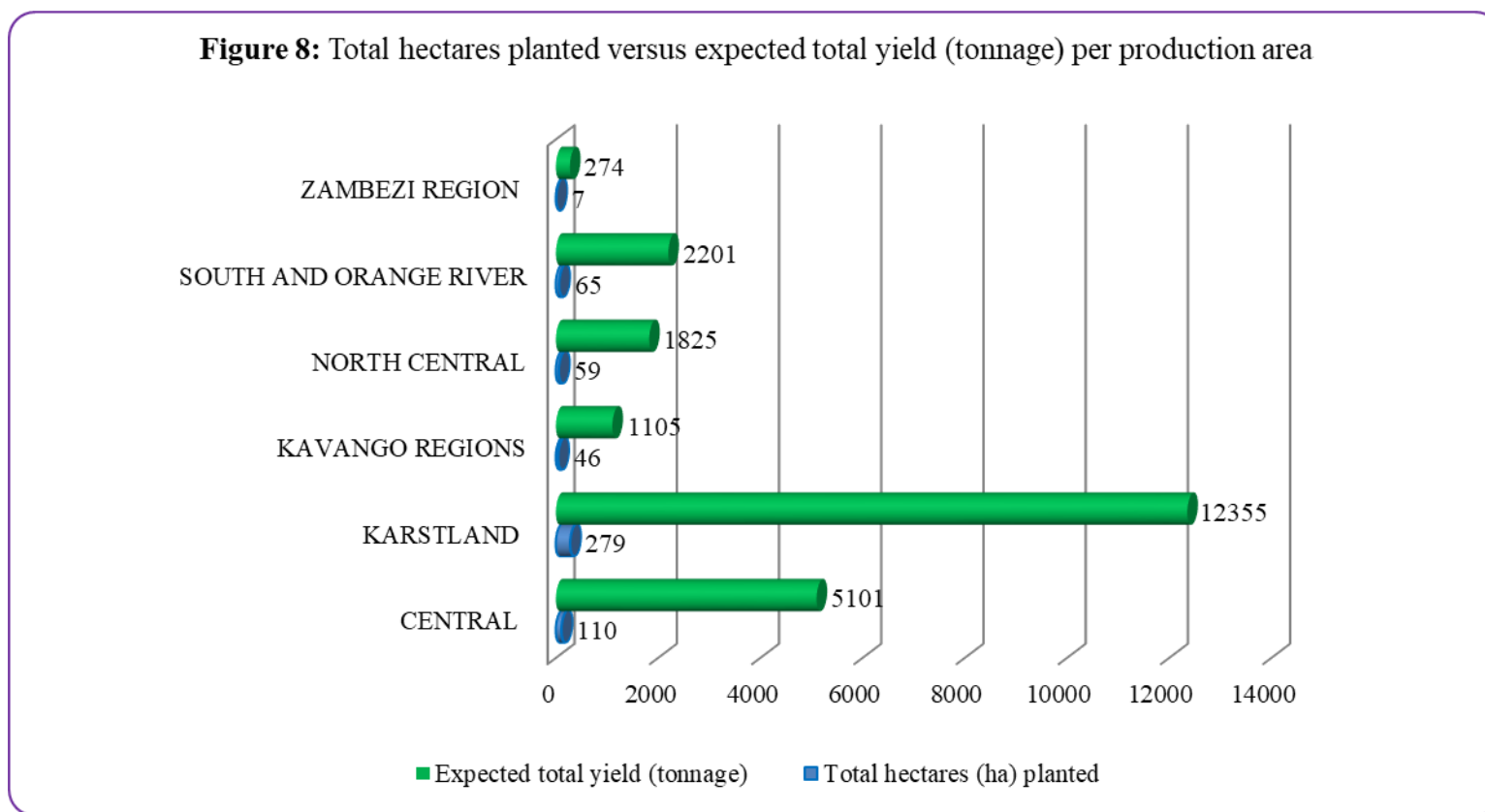
Figure 7: Cauliflower production tonnage expected for local and export markets, versus average domestic demand for the period - 01 September 2020 to 31 January 2021 (Subjected to monthly changes)



Source: NAB, 2020

5. HECTARES PLANTED AND EXPECTED YIELD PER PRODUCTION AREA

Figure 8 below illustrates the total hectares planted as well as the total tonnage expected to be harvested per production area. This figure reveals that Karst production area is leading when it comes to the total hectares planted (279 ha) as well as expected total yield (12 355 tons). Zambezi production area is ranked last with 7 ha and expects to harvest a total of 274 tonnages. The high tonnages expected to be harvested in Karst and central production areas are attributed due to the high production of onions and potatoes which are predominantly grown in these areas.



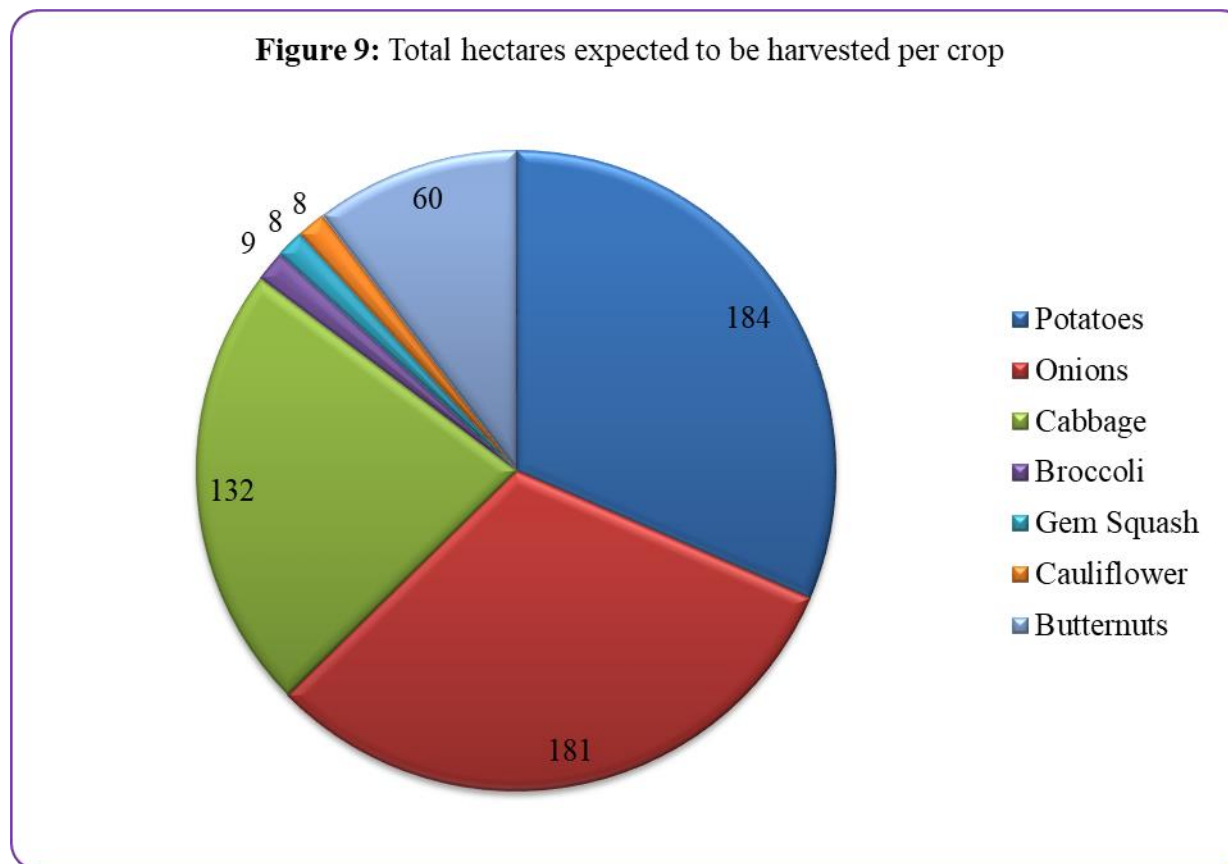
Source: NAB, 2020

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

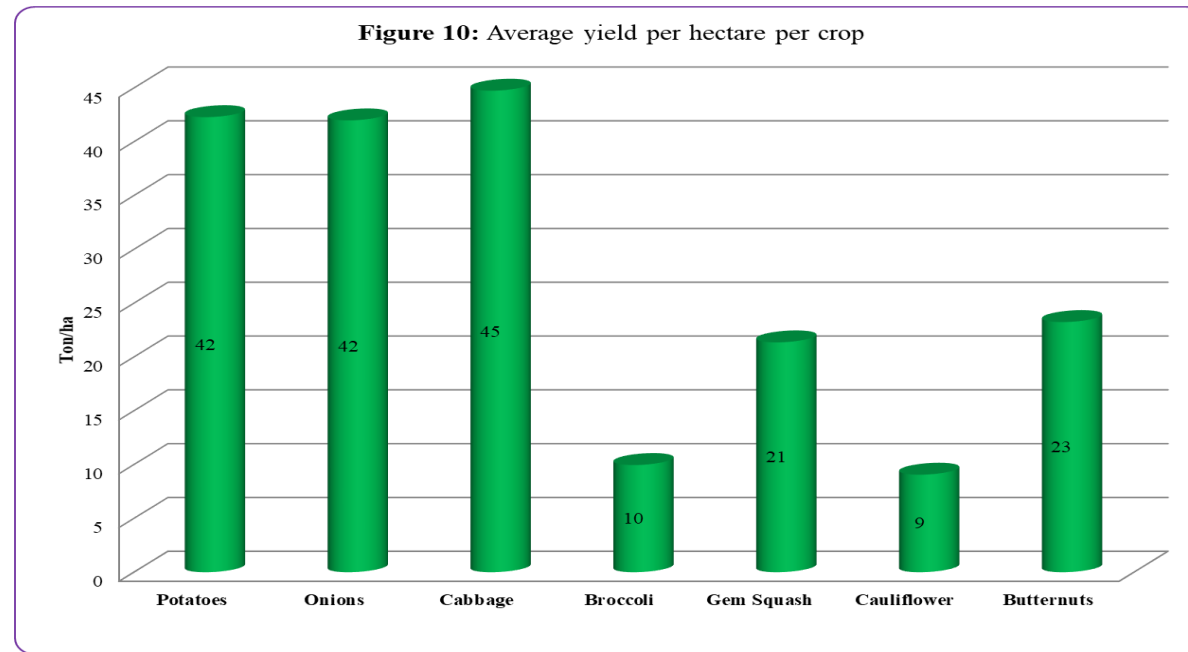
Figure 9 shows that a total of 583 hectares are expected to be harvested during this reporting period, of which potatoes covered the largest portion (184 ha) followed by onions (181 ha) while the smallest portions of land is covered by gem squash and cauliflower with 8 ha each as indicated below.



Source: NAB, 2020

6.2 Expected average yield per crop

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 42 tons/ha each, while the lowest average yield per hectare is expect from cauliflower (9ton/ha).



Source: NAB, 2020

7. CONCLUSIONS AND RECOMMENDATIONS

Overall, the report shows that there will be sufficient local supply of cabbage and onions from 01-30 September 2020; henceforth, the border will be closed to restrict the importation of these two products. Furthermore, the report revealed that the country expects a shortage of butternuts, gem squash, potatoes and cauliflowers given that the average domestic demand tonnages is expected to be above the local expected tonnage for the reporting period. This suggests that the borders will be open to allow Traders to import these products in order to meet the domestic use. In addition, Traders are advised to contact Producers and make arrangement for their local purchases and ensure compliance to MSP requirements.

Conclusively, Producers are encouraged to provide their vegetable production data to NAB on a monthly base to ensure that all local production data are recorded. 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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