













NAMIBIAN AGRONOMIC BOARD

Butternuts

Cabbage

Gem Squash

juash Oi

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

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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 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.

Name Land	Table 2: FIVE				JCTION	PER CR	OP, PEF	R AREA F	OR THE	PERIO		•		
Numbers in the	ne table below	v represe	nts tonna	ige							Last u	pdated: 1	8 January 202	1
PRODUCTION	Special controlled		Feb-21		Ma	r-21	Ар	r-21	Ma	y-21	Jur	n-21	Total (for t	he 5 months period)
AREAS	and monitored crops	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
	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
ZAMBEZI REGION	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
2 WDL2 NEGION	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
	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
KAVANGO	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
REGIONS	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
REGIONS	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
	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
NORTH CENTRAL	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
NONTHICENTIVAL	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
	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
KARSTLAND	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
	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
CENTRAL	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
	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
SOUTH AND	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
ORANGE RIVER	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
	Butternuts	124	153	0	227	0	111	0	11	0	0	0	626	32
Total assessed	Cabbage	198	206	0	573	0	345	0	286	0	196	0	1804	41
Total expected	Gem Squash	19	19	0	19	0	10	0	10	0	6	0	82	4
production	Onions	13	13	0	0	0	0	0	9	0	170	136	340	7
tonnage per crop per month	Potatoes	519	1041	0	1356	0	969	0	689	0	255	0	4828	134
orop per monur	Broccoli	8	3	0	7	0	7	0	7	0	7	0	35	3
	Cauliflower	8	3	0	7	0	7	0	7	0	7	0	35	3

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 F	IVE N	ΙΟΝΊ	THS I	EXP	ECTE	D A\	/AILA											PS (I					e, G					and	Pota	toes)			
	KEY	:	BUTT		IUTS					AGE	-	_		SEM	SQU	ASH	= 🌑		(OINC	NS =	= 🐌		POT									
	-				PERI									1			_										upda	ted: 1	8 Jar				
	Targ		rket		01-15		2021		1	16-28		202	1		N	lar-2	1		-	Α	pr-2	1			M	ay-2	21				un-2	<u> </u>	
NAME OF PRODUCER	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	٧	٧																															
2 Clemens Makumbi	٧	٧																															
3 Kamwi Lubanda	٧	٧																															
4 Laimi Likando	٧	٧																															
5 Lasken Kayabu Kayambo	٧	٧					0																										
6 Patrick Muketela	٧	٧																															
KAVANGO REGIONS																																	
NAME OF PRODUCER	Local informal	local Formal	Export		01-15	Feb	2021		1	16-28	Feb	202	1		N	lar-2	1			Α	pr-2	1			M	ay-2	21			J	un-2	ı	
1 Asser Haitewa Siranda	٧	٧																															
2 Blandine Meesher Nangombe	٧	٧																															
3 Hendrick Locke	٧	٧																															
4 Lourens Le Grange	٧	٧											9																				
5 Pius Kapirika	٧	٧																															
NORTH CENTRAL					1		1																										
1 Akathigo Kapuka	٧	٧																															
² Andreas Ashimbanga	٧	٧																															
3 Asser Moses	٧	٧		9																													
4 Elifas Nuuyoma	٧	٧																															
5 Emily Naunyango	٧	٧																															
6 Etunda GSIP (Small & medium)	٧	٧		Ŋ					9																								
7 Johannes Naidjala	٧	٧								0																							
8 Lonia & Abraham Ismael	٧	٧																															
9 Patriciu Ndindalelwa	٧	٧		9																													
10 Paulus Amutenya	٧	٧																															
11 Paulus Kapia	٧	٧																															
12 Paulus Titus	٧	٧																															
13 Petrus Atilifa	٧	٧																															
T-1-1-2 A														•	•																		

Table 3A continues...

				1																				-						
14	Rassie Erasmus	٧	٧																											
15	Salome Haitembu	٧	٧																											
16	Simeon Negumbo	٧	٧		ð																									
	Sylvanus Naunyango	٧	٧		ð																									
18	Tangeni Thomas Negonga	٧	٧												1															
19	Tarcisius Shingundu	٧	٧												3															
20	Theophelus Ekandjo	٧	٧												9															
21	Wilhelmina Heita	٧	٧																											
KA	RSTLAND																													
	NAME OF PRODUCER	Local informal	local Formal	Export		01-15	Feb	2021		1	6-28	Feb	202	1		N	lar-2	1		Δ	pr-2	1		May	-21		J	un-21	1	
1	Alfeus Angula	٧	٧							6													0	3						
2	Cobus Coetzee	٧	٧	٧																										
3	Dirk van der Berg	٧	٧				•					0									•			6						
4	Elizabeth & Erick van Druten	٧	٧		ð					I					1															
5	Hansie van der Merwe	٧	٧				0																							
6	J. P. J Swanepoel	٧	٧								0				9)						
7	Karl Damased	٧	٧																											
8	LM Potgieter	٧	٧						(
9	Loui Smit	٧	٧	٧			0				0	0											(3						
10	Ludie Kolver	٧	٧	٧																										
11	Magano Kapia	٧	٧																											
12	Mark von Maltzahl	٧	٧			0					0									9			(}						
13	Ndelitungapo Ndaitwah	٧	٧																											
14	Neels van der Merwe	٧	٧												9									1						
15	Oliva Hamutumwa	٧	٧		-																									
16	Peter Kawana	٧	٧																											
17	Peter T Erasmus	٧	٧									0			9					9										
18	Phelep Pendukeni	٧	٧																											
19	Theopauline Ruiter	٧	٧												-															
	Willem Shali	٧	٧	٧																										
CE	NTRAL																													
1	Alfeus Gariseb	٧	٧																					3						
2	Etienne Jooste	٧	٧	٧																										
3	Hagen Horsthmark	٧	٧																											
4	Isak Nahum	٧	٧																											
5	Lothar Kollmitz	٧	٧		<u></u>																									
6	Ludie Kolver	٧	٧	٧																										

Table 3A continues...

7 Magnus Kurz	٧	٧																											
8 Martha Alweendo	٧	٧																											
9 MKR Clandara	٧	٧			0																								
10 Sem Tangeni Nepando	٧	٧																											
11 Stefan Gaugler	٧	٧								0																			
12 Stenly Mcloud	٧	٧	٧																										
13 Wylie V Upi	٧	٧				•																							
SOUTH AND ORANGE RIVER	-																												
NAME OF PRODUCER	Local informal	local Formal	Export		01-15	Feb	2021	l		16-28	Feb	202	1	N	lar-2	1		Α	pr-2	1		N	lay-2	21		J	un-2	1	
1 Burger J. Harmse	٧	٧																											
2 G.F. Janse van Rensburg	٧	٧			9					0																			
3 Hendrik Berg	٧	٧					b					0																	
4 Jean Roux	٧	٧							-																				
5 Zirk Jansen	٧	٧		-																									

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	AVAIL	ABILI	TY OF	THE N	MONIT	ORED	CRO	PS (B	rocco	li and	Caulif	lower)	
KEY:	BROCCOL	I = 7	•	and	CAI	ULIFLO	OWER	R = [13						
PERIOD: 01 Feb	PERIOD: 01 February to 30 June 2021 Last updated: 18 January 2021														
	Target Ma	arket	01-15	Feb 21	16-28	Feb 21	Mar	r-21	Арі	r-21	May	/-21	Jur	1-21	
NAME OF PRODUCER	Local informal Local Formal	Export	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	Broccoli	Cauliflower	
KARST AREA															
1 Loui Smit	V				***************************************			9/8	7	ed 8		9		618	

4. EXPECTED PRODUCTION VS DEMAND ANALYSIS

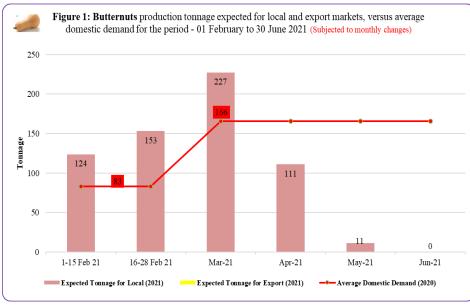
4.1 TABULATION ANALYSIS

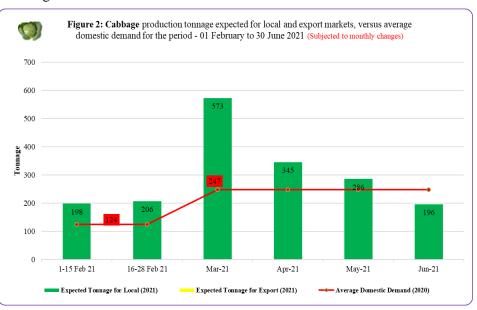
Table 4 below reveals that, the total tonnage expected for butternuts and cabbage will be sufficient to satisfy the domestic demand in February 2021. Consequently, the border will be closed to restrict the importation of these two (2) crops till further notice. Table 4 further shows that; gem squash, 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.

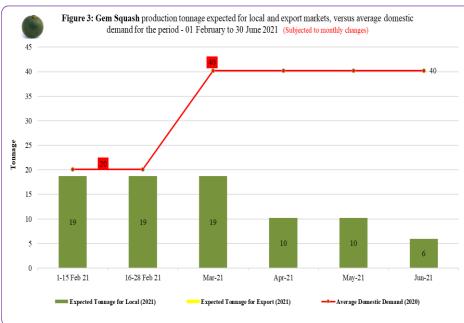
Table 4: ANA	LYSIS OF THE EXPECTED TONNA	GE FOR DO	MESTIC MA	ARKET VER	SUS AVER	AGE DOME	STIC DEMA	ND
Numbers i	n this table represents tonnage					Last updated:	18 January 202	21
Special Controlled and Monitored Crops	Expected Surplus or Shortage	01-15 Feb 21	16-28 Feb 21	Mar-21	Apr-21	May-21	Jun-21	Total
	Expected for domestic market	124	153	227	111	11	0	502
Butternuts	Average domestic demand	83	83	166	166	166	166	746
	Surplus / shortage	41	70	62	-55	-155	-166	-243
	Expected for domestic market	198	206	573	345	286	196	1606
Cabbage	Average domestic demand	124	124	247	247	247	247	1114
	Surplus / shortage	74	83	325	98	38	-52	492
	Expected for domestic market	19	19	19	10	10	6	64
Gem Squash	Average domestic demand	20	20	40	40	40	40	181
	Surplus / shortage	-1	-1	-21	-30	-30	-34	-117
	Expected for domestic market	13	13	0	0	9	170	191
Onions	Average domestic demand	439	439	878	878	878	878	3949
	Surplus / shortage	-426	-426	-878	-878	-869	-708	-3758
	Expected for domestic market	519	1041	1356	969	689	255	4310
Potatoes	Average domestic demand	1,746	1746	3492	3492	3492	3492	15716
	Surplus / shortage	-1228	-705	-2137	-2523	-2804	-3237	-11406
	Expected for domestic market	1	4	7	7	7	7	41
Broccoli	Average domestic demand	3	11	31	31	31	31	156
	Surplus / shortage	-1	17	-25	-25	-25	-25	-115
	Expected for domestic market	ě	3	7	7	7	7	35
Cauliflower	Average domestic demand	3	8	38	38	38	38	191
	Surplus / shortage	-3	30	-32	-32	-32	-32	-156

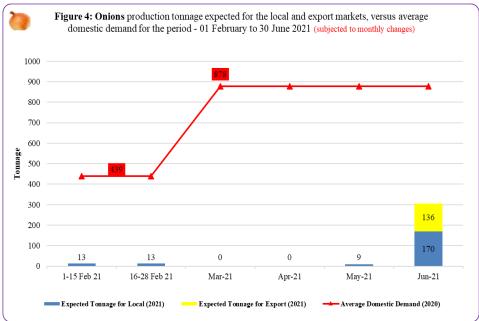
4.2 GRAPHICAL ANALYSIS

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.

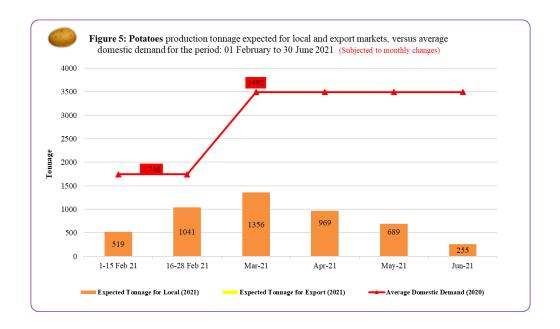




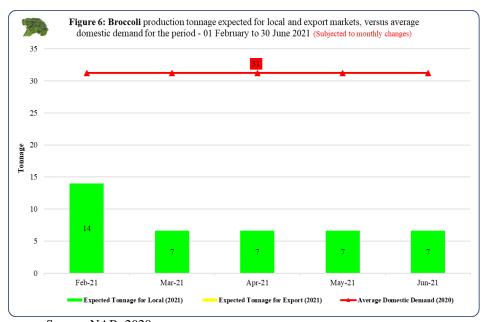


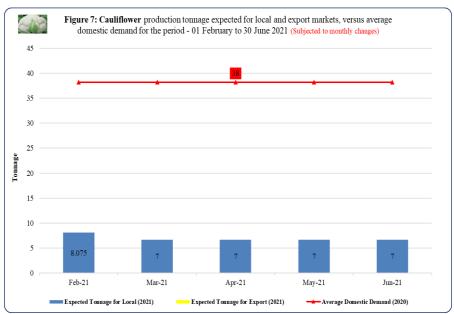


Graphical analysis figures continue...



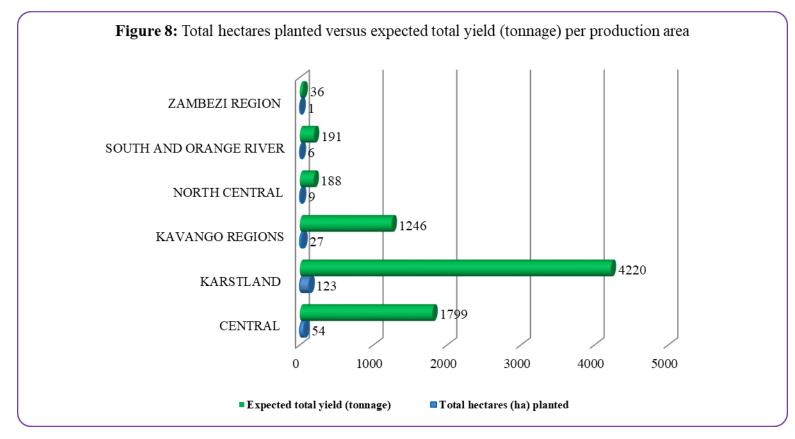
It should be noted that, broccolis and cauliflowers are classified as monitored crop for future possible addition to the list of the special controlled crops. These two products are expected to be insufficient during this reporting period as reflected in **figure 6 and 7** below.





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.

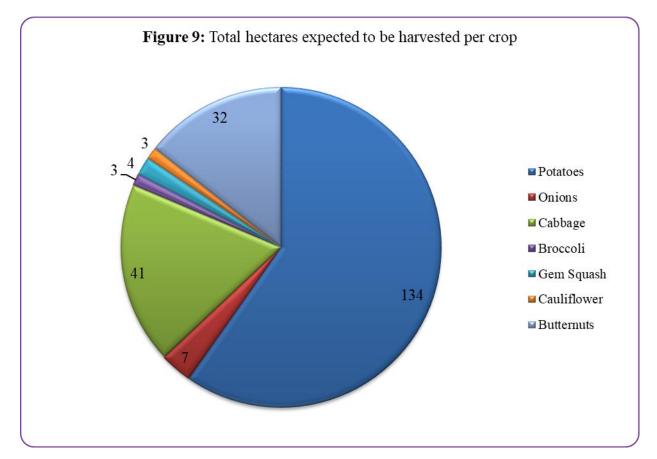


6. HECTARES PLANTED AND EXPECTED AVERAGE YIELD (TONNAGE) PER CROP

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

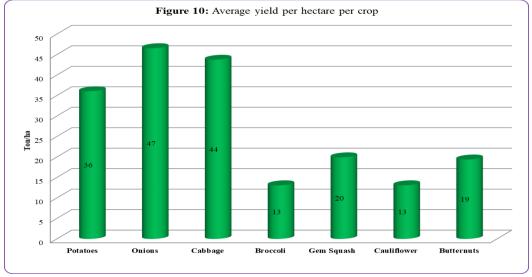
6.1 Hectares planted per crop

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.



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 onions (47ton/ha) followed by cabbage with 44 tons/ha, while the lowest average yield per hectare is expect for broccolis (13ton/ha).



Source: NAB, 2020

7. CONCLUSIONS AND RECOMMENDATIONS

This report concluded that, there will be sufficient local supply of butternuts and cabbage in February. It is therefore recommended that the borders be closed to restrict the importation of these two product as from 01 to 28 February 2021. Furthermore, the report revealed that the country expects a slight shortage of gem squash in February 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 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 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. 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.