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## HORTICULTURE: VEGETABLE PRODUCTION FORECAST REPORTS \_1,2, &3

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**FORECASTED PERIOD:**

**01 JANUARY 2023 TO 31 MAY 2023**

### **Introduction**

*In these three (3) production forecast reports, the local production forecast for 19 Special Controlled Products (SCP) are considered. At the beginning of each report, the inclusion and exclusions for each special controlled product are discussed. Next, the tonnage expected to be harvested per production area during the forecasted period is analysed and the producers expected to harvest specific special controlled products are shown in the availability calendar. Subsequently, the surplus and shortages expected for each SCP is shown in the table and graphically to inform close and open borders period. It is imperative to note that, the production of the special controlled products is monitored by the NAB, and involves close border period whenever sufficient local production is expected, and the SCP scheme is implemented in line with the market share promotion scheme to stimulate local production of horticultural products in Namibia, as a growth at home strategy implemented by the NAB. Monitored crops mentioned in these reports are those horticultural crops whose production is closely monitored and have the greatest potential to be added to the special controlled products in future. Hence, the close and open borders period implementation is not applicable in case of monitored crops and they are imported using the mixed fruit and vegetables import permit valid for 90 days. Thus, the objectives of vegetables production forecast reports are:*

- *Assist traders and producers in understanding special controlled products in surplus or shortage and inform their buying and planting decisions.*
- *Inform the close and open borders period implementation by the NAB*
- *Facilitate market between traders and producers by demonstrating the producers that are expected to have products available during the forecasted period.*
- *To effectively disseminate information to all value chain actors in the horticulture industry to observe the local production volume forecasted for a specific period.*



Butternuts



Cabbage



Gem Squash



Onions



Potatoes



Pumpkins



Garlic



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## HORTICULTURE: VEGETABLE PRODUCTION FORECAST

### REPORT NO. 1

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**FORECASTED PERIOD:**

**01 JANUARY TO 31 MAY 2023**

**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 six (6) special controlled crops** i.e. **Butternuts, Cabbage, Gem Squash, Onions, Potatoes and Pumpkins**. This report also cover **garlic** as a **monitored crop**. Please see the listed inclusions and exclusions for the aforementioned Special Controlled Products in table 1 below

**Table 1:** Show the inclusions and exclusions of the special controlled products.

Special Controlled Product	INCLUSIONS (Not allowed to be imported, only during open border period). Only imported through the special import permit during open border period.	EXCLUSIONS (Allowed to be imported with no restriction). Imported through mixed fruits and vegetable import permit.
1. 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).
2. 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).
3. Gem Squash	All types, size groups and container size of fresh, chilled, Whole or Cut Gem Squash, except the "Exclusions".	Hubbard Squash. All frozen, dried, cooked and preserved Gem Squash (Whole or Cut).
4. Onions	All types, size groups and container sizes of fresh, chilled, Whole or Cut Onion, except the "Exclusions".	White Salad Onions, Red Onions and Spring Onions. All frozen, dried, cooked and preserved Onions (Whole or Cut).
5. 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).
6. Pumpkins	All types, size groups and container size of fresh, chilled, whole or cut pumpkins, except the "Exclusions".	All frozen, dried, cooked and preserved pumpkin. All decorative types of pumpkin.

Source: NAB, 2022

**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 to be harvested, and hectares planted per crop per production area during the forecasted period of **01 January to 31 May 2023**.

Table 2: FIVE MONTHS EXPECTED PRODUCTION PER CROP, PER AREA FOR THE PERIOD: 01 January to 31 May 2023														
Numbers in the table below represents tonnage													Last updated: 19 December 2022	
PRODUCTION AREAS	Special controlled and monitored crops	Jan-23			Feb-23		Mar-23		Apr-23		May-23		Total (for the 5 months period)	
		01-15 Jan 23 Local	16-31 Jan 23 Local	01-31 Jan 23 Export	Local	Export	Local	Export	Local	Export	Local	Export	Yield	Ha to be harvested
ZAMBEZI REGION	Butternuts	0.34	0.34	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.88	0.86
	Cabbage	0.68	4.25	0.00	9.65	0.00	15.30	0.00	0.00	0.00	0.00	0.00	29.88	1.06
	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	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	0.12
	Pumpkins	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	17.43	15.73	0.00	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.65	2.43
	Cabbage	15.51	17.01	0.00	3.61	0.00	10.20	0.00	0.00	0.00	0.00	0.00	46.33	1.34
	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	4.89	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.14	0.28
	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	0.00
NORTH CENTRAL	Butternuts	10.20	11.05	0.00	51.13	0.00	24.65	0.00	5.95	0.00	5.95	0.00	108.93	6.91
	Cabbage	47.60	44.20	0.00	89.51	0.00	45.05	0.00	0.00	0.00	0.00	0.00	226.36	5.69
	Gem squash	0.00	0.00	0.00	2.55	0.00	5.95	0.00	0.00	0.00	0.00	0.00	8.50	0.50
	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
	Pumpkins	3.40	3.40	0.00	3.06	0.00	0.00	0.00	8.50	0.00	0.00	0.00	18.36	0.74
KARSTLAND	Butternuts	103.62	65.20	0.00	90.95	0.00	63.33	0.00	39.95	0.00	0.00	0.00	363.04	18.57
	Cabbage	96.90	107.10	0.00	147.90	0.00	271.15	0.00	171.70	0.00	161.50	0.00	956.25	15.05
	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	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.35	0.22
	Potatoes	110.50	85.00	0.00	0.00	0.00	0.00	0.00	170.00	0.00	340.00	0.00	705.50	18.50
CENTRAL	Butternuts	37.61	37.61	0.00	45.48	0.00	7.23	0.00	0.00	0.00	0.00	0.00	127.93	6.05
	Cabbage	46.75	46.75	0.00	0.00	0.00	17.00	0.00	0.43	0.00	0.00	0.00	110.93	2.71
	Gem squash	21.25	21.25	0.00	42.50	0.00	17.00	0.00	0.00	0.00	0.00	0.00	102.00	5.00
	Onions	425.00	425.00	0.00	0.00	0.00	7.65	0.00	14.11	0.00	0.00	0.00	871.76	20.74
	Potatoes	413.95	444.55	0.00	1007.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1865.75	61.00
SOUTH AND ORANGE RIVER	Butternuts	95.84	94.14	0.00	147.48	0.00	41.23	0.00	0.00	0.00	0.00	0.00	310.68	10.70
	Butternuts	14.45	0.00	0.00	0.00	0.00	39.10	0.00	153.00	0.00	25.50	0.00	232.05	7.70
	Cabbage	6.38	6.38	0.00	12.75	0.00	0.00	0.00	102.00	0.00	0.00	0.00	127.50	2.80
	Gem squash	3.83	3.83	0.00	7.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.30	0.60
	Onions	29.75	38.25	0.00	68.00	0.00	0.00	0.00	8.50	0.00	8.50	0.00	153.00	3.00
Total expected production tonnage per crop per month	Pumpkins	8.50	8.50	0.00	0.00	0.00	2.55	0.00	155.55	0.00	42.50	0.00	217.60	5.70
	Butternuts	184	130	0	223	0	134	0	199	0	31	0	901	43
	Cabbage	214	226	0	263	0	359	0	274	0	162	0	1497	29
	Gem Squash	25	25	0	53	0	23	0	0	0	0	0	126	6
	Onions	441	429	0	0	0	8	0	14	0	0	0	892	21
	Potatoes	524	530	0	1007	0	0	0	170	0	340	0	2571	80
	Pumpkins	108	106	0	151	0	44	0	170	0	43	0	553	17
	Garlic	6.7	0	0	0	0	0	0	0	0	0	0	6.7	1.04

Source: NAB, 2022

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

**Table 3A** shows availability of the expected **special controlled crops** per area, per producer and per month. Traders are advised to contact producers listed herein, to arrange for local purchase, hence comply with the 47% minimum MSP requirement.















































Table 3A: THE FIVE MONTHS EXPECTED AVAILABILITY CALENDAR FOR THE SPECIAL CONTROLLED CROPS (Butternuts, Cabbage, Gem squash, Onions, Potatoes and Pumpkins)																																							
KEY : BUTTERNUT =  CABBAGE =  GEM SQUASH =  ONION =  POTATO =  PUMPKIN = 																																							
PERIOD: 01 January to 31 May 2023 <span style="float:right">Last updated: 19 December 2022</span>																																							
Contact Person	Target Market			01-15 Jan 2023						16-31 Jan 2023						Feb-23						Mar-23						Apr-23						May-23					
	Local Informal	Local Formal	Export	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Pumpkins	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Pumpkins	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Pumpkins	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Pumpkins	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Pumpkins						
ZAMBEZI																																							
1	Bernard Sitali	√	√																																				
2	Charity Mulemwa Goaises	√	√																																				
3	Davis Mushitu	√	√																																				
4	Fabian Sisamu	√	√																																				
5	Hans Matiti Fwelimbi	√	√																																				
6	Nawa Sikanda	√	√																																				
7	Shylock Sinvula	√	√																																				
8	Sinvula J Matengu	√	√																																				
9	Vincent Siliye	√	√																																				
KAVANGO																																							
1	Agatha Muronga	√	√																																				
2	Agnes Sikongo	√	√																																				
3	Andrew Kashera	√	√																																				
4	Clemens Ndjamba	√	√																																				
5	Cristine Haingura	√	√																																				
6	Dexter Kasale	√	√																																				
7	Henrick Locke	√	√																																				
8	Magdalena Simuketa	√	√																																				
9	Manfred Thikusho	√	√																																				
10	Maxwell Nghidinwa	√	√																																				
11	Pius Kapikara	√	√																																				
12	Regina Ngombe	√	√																																				
13	Reino Siwoko	√	√																																				
14	Theofilie Linyando	√	√																																				

Table 3A continues.....

NORTH CENTRAL																																		
Contact Person		Local informal	Local Formal	Export	01-15 Jan 2023					16-31 Jan 2023					Feb-23					Mar-23					Apr-23					May-23				
1	Abisai Amashili	√	√																															
2	Aina Imalwa	√	√																															
3	Andreas Ashimbanga	√	√																															
4	Andreas Shilomboleni	√	√																															
5	Annaias Theophilus	√	√																															
6	Asser & Taapopi Moses	√	√																															
7	Aurelia Shikesho	√	√																															
8	Elise Auino	√	√																															
9	Emile Marais	√	√																															
10	Emily Naunyang	√	√																															
11	Epafras Hilengwa	√	√																															
12	J. Steyn	√	√																															
13	Johannes Naindjala	√	√																															
14	Lucas Mooongela	√	√																															
15	Natu Tangeni Shipaxu	√	√																															
16	Panduleni Mule	√	√																															
17	Paulus Amutenya	√	√																															
18	Pupyenaye Tjavanga	√	√																															
19	Shetuuka Shetuuka	√	√																															
20	Sylvanus Naunyang	√	√																															
KARSTLAND																																		
1	CD Shifotoka	√	√																															
2	Dawid Bisschoff	√	√																															
3	Eric & Elizabeth van Druten	√	√																															
4	Fradncois Robbertse	√	√																															
5	Franklin Mate	√	√																															
6	Geoffrey Shekupe	√	√																															
7	Gerhard Sachse	√	√																															
8	Gero Hirsch	√	√																															
9	Juliana Gericke	√	√																															
10	Liza van der Merwe	√	√																															
11	Ludie Kolver	√	√	√																														
12	Luther J. Rukira	√	√																															
13	Magano Kapia	√	√																															
14	Mark von Maltzahl	√	√																															
15	Mavuto Mwanza	√	√																															

Table 3A continues.....

[illegible]

Table 3A continues.....

SOUTH AND ORANGE RIVER																																				
NAME OF PRODUCER		Local Informal	Local Formal	Export	01-15 Jan 2023						16-31 Jan 2023						Feb-23					Mar-23					Apr-23					May-23				
1	Burger J. Harmse	√	√																																	
2	Dirk de Beer / Hendrik Berg	√	√																																	
3	Elize Eliphas	√	√																																	
4	G.F. Janse van Rensburg	√	√																																	
5	Given Bock	√	√																																	
6	Herman van Dyk	√	√																																	
7	Hentie van Dyk	√	√																																	
8	Jimmy E. O'kenedy	√	√																																	
9	Ulrich Schneider	√	√																																	
10	Zirk Jansen	√	√																																	
Note: Producers not listed herein, it is either because they will not harvest any of the six (6) special controlled products or they did not provide their production data for this reporting period.																																				
Kindly note that, producers who wash potatoes in Namibia includes: Lourens Le Grange in Kavango; Cobus Coetzee, Gero Hirsch, Hansie van der Merwe, Jan Keyser and Tommie Martinson in the Karst; Etienne Jooste and Ludie Kolver in Central while Frans Wentzel at Orange River area . All other producers supplies unwashed or brushed potatoes																																				

Source: NAB, 2022

**Table 3B** shows availability **Garlic** as **monitored controlled crop** per area, per producer and per specific month. This table further shows that garlic is only expected to be available in Karst and Central areas. Traders are advised to contact producers listed in table 3B below for orders.

Table 3B: THE FIVE MONTHS EXPECTED AVAILABILITY OF THE GARLIC AS MONITORED CROP							
KEY: GARLIC =							
PERIOD: 01 January to 31 May 2023				Last updated: 19 December 2022			
NAME OF PRODUCER	01-15 Jan 23	16-31 Jan 23	Feb-23	Mar-23	Apr-23	May-23	
<b>Karst Area</b>							
1 Juliana Gericke							
2 Ndinelago Tshiguuo							
<b>Central Area</b>							
1 Gerhard Truter							
2 Jaco Thomas							

Source: NAB, 2022



## 4. EXPECTED PRODUCTION VS DEMAND ANALYSIS

### 4.1 TABULATION ANALYSIS

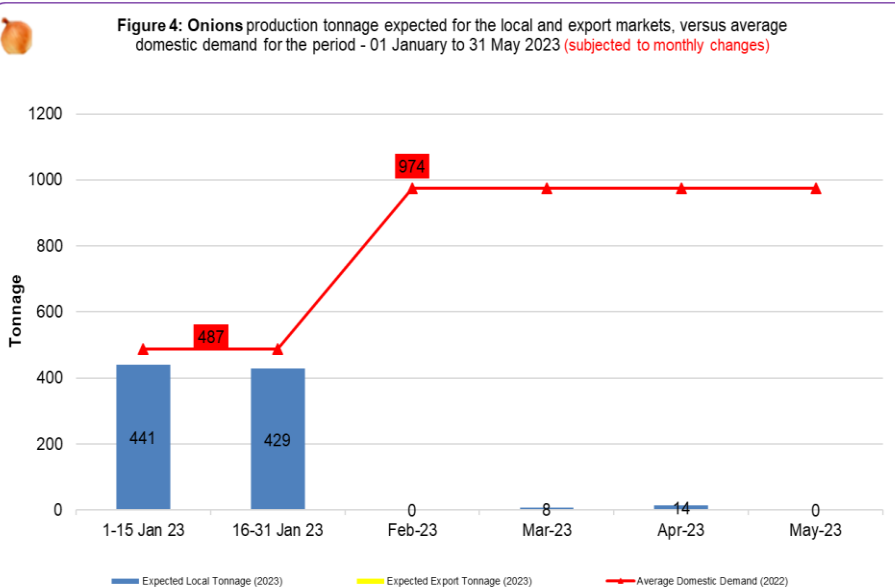
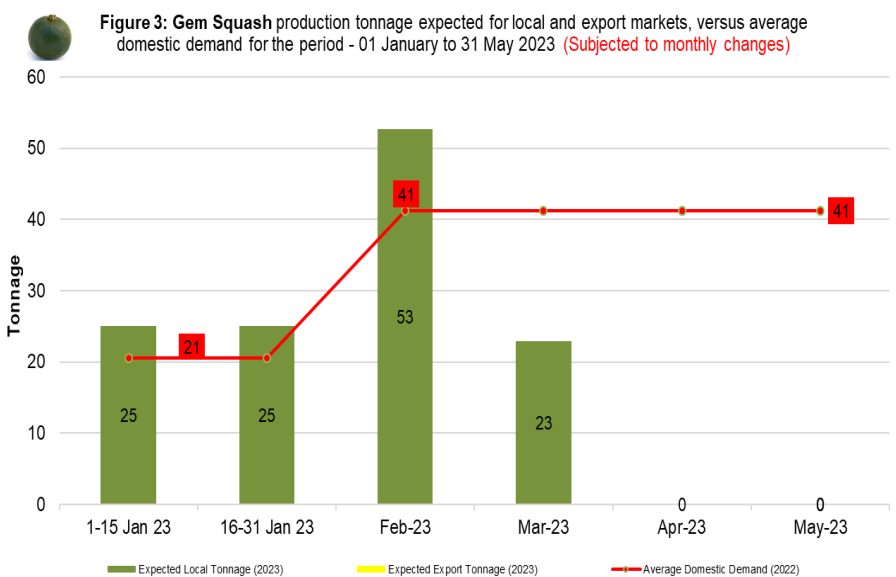
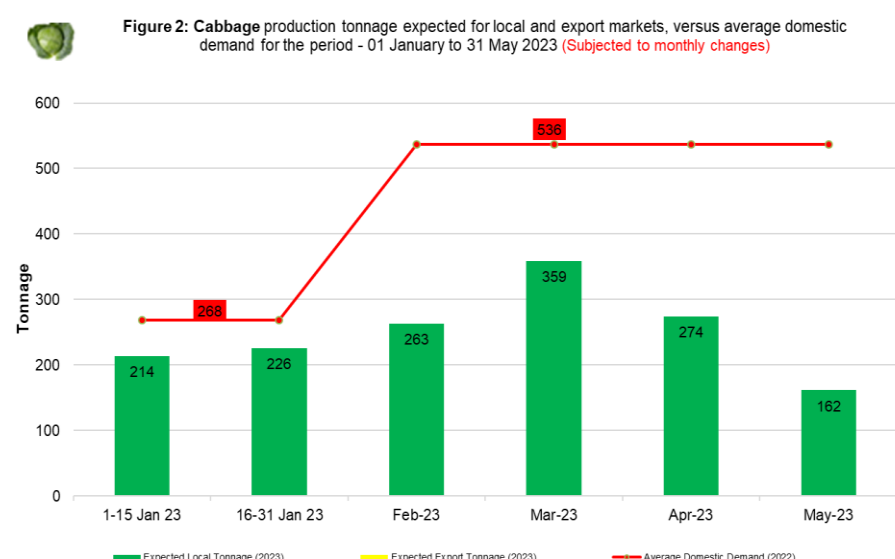
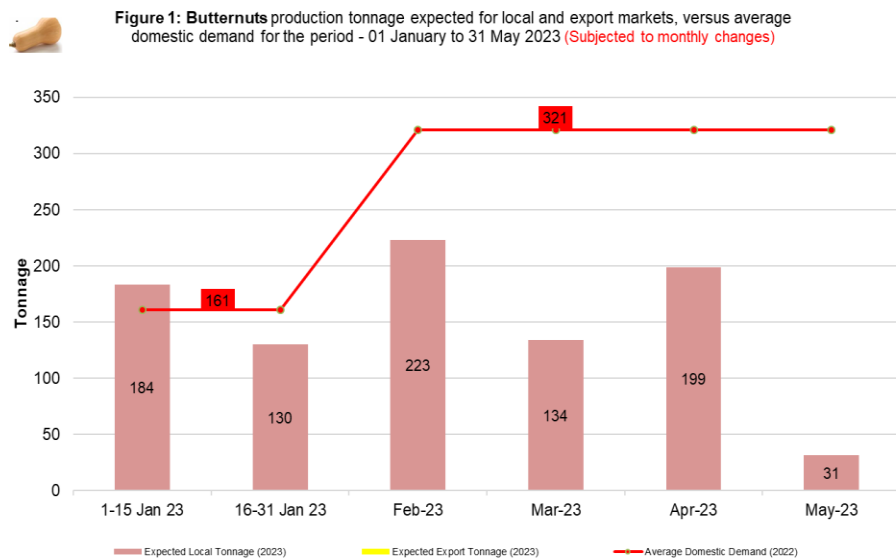
**Table 4** below revealed the special controlled products in surplus and shortage for the forecasted period. The total tonnage for butternuts is expected to be sufficient from 01 to 15 January, whilst, gem squash and pumpkins are expected to be sufficient from 01 to 31 January 2023. Cabbage, onions and potatoes are expected to be insufficient during this entire reporting period.

Table 4: ANALYSIS OF THE EXPECTED TONNAGE FOR DOMESTIC MARKET VERSUS AVERAGE DOMESTIC DEMAND								
Numbers in this table represents tonnage					Last updated: 19 December 2022			
Special Controlled Crops	Expected Surplus or Shortage	01-15 Jan 2023	16-31 Jan 2023	Feb-23	Mar-23	Apr-23	May-23	Total
Butternuts	Expected for domestic market	184	130	223	134	199	31	901
	Average domestic demand	161	161	321	321	321	321	1607
	Surplus / shortage	23	-31	-98	-187	-123	-290	-706
Cabbage	Expected for domestic market	214	226	263	359	274	162	1497
	Average domestic demand	268	268	536	536	536	536	2682
	Surplus / shortage	-54	-43	-273	-178	-262	-375	-1185
Gem Squash	Expected for domestic market	25	25	53	23	0	0	126
	Average domestic demand	21	21	41	41	41	41	206
	Surplus / shortage	4	4	11	-18	-41	-41	-80
Onions	Expected for domestic market	441	429	0	8	14	0	892
	Average domestic demand	487	487	974	974	974	974	4868
	Surplus / shortage	-46	-58	-974	-966	-960	-974	-3977
Potatoes	Expected for domestic market	524	530	1007	0	170	340	2571
	Average domestic demand	1,773	1773	3547	3547	3547	3547	17733
	Surplus / shortage	-1249	-1244	-2539	-3547	-3377	-3207	-15161
Pumpkins	Expected for domestic market	108	106	151	44	170	43	621
	Average domestic demand	55	55	110	110	110	110	549
	Surplus / shortage	53	51	41	-66	61	-67	73

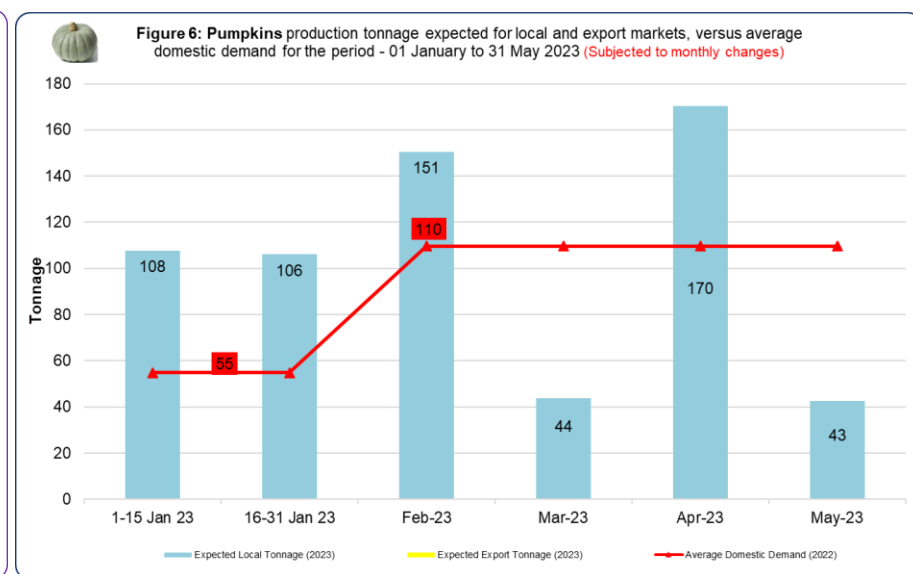
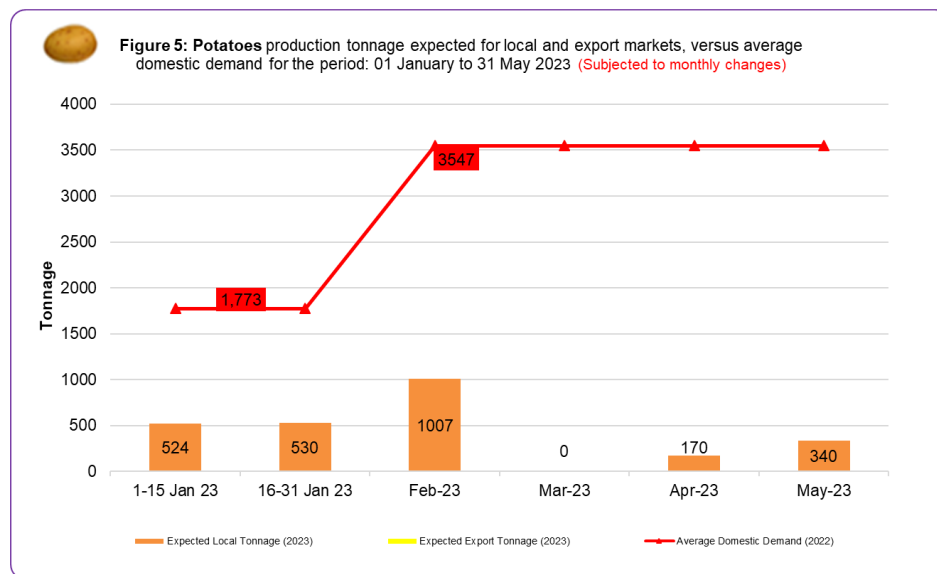
Source: NAB, 2022

## 4.2 GRAPHICAL ANALYSIS

Graphical analysis shows the domestic production tonnage expected for the local and export markets in comparison to the average domestic demand. **Figure 1** shows that butternuts will be sufficient only from 01 to 15 January 2023 whereas **figure 3, and 6** shows that gem squash, and pumpkins are expected to be sufficient to meet the local demand in January month. Furthermore, Cabbage, onions and potatoes are expected to be in shortage during this reporting period.

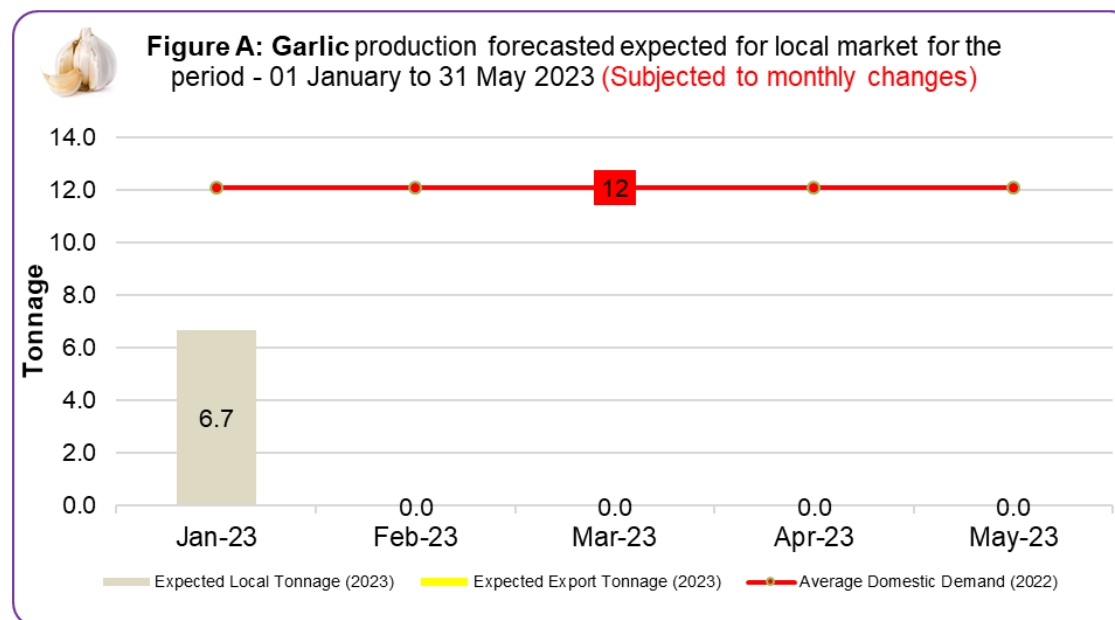


Graphical analysis figures continue...



Source: NAB, 2022

**Figure A** below shows that, the projected tonnage for garlic (**monitored crop**) is expected to be sufficient during this reporting period.



Source: NAB, 2022

## 5. CONCLUSIONS AND RECOMMENDATIONS

The report concludes that, the country expects a sufficient supply of **butternuts** from 01 to 15 January 2023 whereas gem squashes and pumpkins are expected to be sufficient the whole month of January 2023. It is therefore recommended that boarder be **closed** from **01 to 15 January 2023 only**, to restrict importation of **butternuts** while **gem squash and pumpkins** shall be restricted from **01 till 31 January 2023**.

The report further concluded that **cabbage, onions and potatoes** are expected to be insufficient during this reporting period thus recommended that the border be **open** to allow traders to import these three (3) crops during the special permit period of **01-31 January 2023**, however, 47% MSP rules shall apply at all times.

Traders are encouraged to ensure compliance to the 47% minimum Market Share Promotion requirement by buying more of local produced vegetables, irrespective of close or open borders implementation for such products and only import when deemed necessary. Traders are therefore advised to contact registered local vegetable producers who are expected to harvest these products as per **the availability calendar (table 3)** in this report, to make necessary purchase arrangements.

Conclusively, producers are advised to immediately notify NAB in case of deviations from their planting program or in the event of crop failure due to factors beyond their control.

[illegible]



Colour Pepper



Tomato Round



Tomato Jam



Carrot



Green Pepper



Spinach



Sweetcorn



**NAMIBIAN**  
**AGRONOMIC BOARD**

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## HORTICULTURE: VEGETABLES PRODUCTION FORECAST

### REPORT NO.2

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#### FORECASTED PERIOD:

**01 JANUARY 2023 TO 31 MAY 2023**

**Agronomy and Horticulture Market Development Division**

**Horticulture Market Development Subdivision**

**Enquiries:** Mr. Patrick Lubanda

**Cell:** +264 81 289 5454

**Email:** [Patrick.Lubanda@nab.com.na](mailto:Patrick.Lubanda@nab.com.na)

## 1.INTRODUCTION

**Report no. 2**, covers the local production forecast for the six special controlled products i.e. **Tomato (Round & Jam), Green Pepper, Colour Pepper, Carrot, Spinach and Sweetcorn**. 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. 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 1). Exclusion. The objective the special controlled product scheme is stimulate local production of horticultural products in Namibia, as a growth at home strategy implemented by the NAB. Therefore, this report discusses the controlled crops production forecasted per area, expected availability per producer, tabulation and graphical analysis on expected production versus local demand and subsequently the hectares planted and average yield expected per hectare during the reporting season.

**Table 1:** Show the inclusions and exclusions of the special controlled products.

Product	Inclusions:	Exclusions:
1.Tomato	Tomatoes Round (Round shaped, red/partially red colour). Tomatoes Jam (Oval shaped, red / partially red colour), except the "Exclusions".	All Small size type of tomatoes, i.e. Cherry, Cocktail, Bacio, Romanita, Rigoletto, and Medley mix, etc. All colours.
2.Green Pepper	All size groups and container size of Green Pepper, except the "Exclusions".	Orange Pepper and Peppers mix, etc.
3. Colour Pepper	All Types, grades, size groups and container sizes of Fresh, chilled, whole or cut Colour Bell Pepper (Red and Yellow) Single line or Robot Peppers except the exclusion	All Orange, Brown, Black, Purple and White Bell fresh Peppers, Chilled, whole or Cut.
4. Carrot	All size groups and container sizes of Orange fleshed Carrots as well as catering Orange Carrots full size or broken, except the "Exclusions".	Red, Purple, White, Black, and Yellow Fleshed Carrots.
5.Sweet Corn	All types, size groups and container size of fresh/ chilled and whole or cut Red Fleshed and Yellow Fleshed except the "Exclusions"	White and Mixed Colour Sweet Corn.
6.Spinach	All types, grades, size groups and container size of fresh, chilled, Whole or Cut Spinach except the "Exclusions".	Baby Spinach, coloured spinach and all frozen and processed Spinach such as dried, cooked and preserved spinach.

**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

**Table 2:** Shows that Carrot, Tomato Round and Colour Pepper respectively are the top commodities, with high-expected tonnages during the forecasted period. Detailed information for expected production, per crop per production zone are shown in Table 2 below.

Table 2: EXPECTED PRODUCTION OF SPECIAL CONTROLLED PRODUCTS PER CROP PER AREA															
		Numbers in the table below represents tonnage													
PRODUCTION AREA	CROP	01-15 Jan 23		16-31 Jan 23		Feb-23		Mar-23		Apr-23		May-23		Totals	
		Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Expected tonnage	Hectares planted
ZAMBEZI	Tomato Round	1.0	0.0	2.1	0.0	4.7	0.0	8.3	0.0	2.5	0.0	0.0	0.0	18.6	0.8
	Tomato Jam	3.8	0.0	4.6	0.0	5.7	0.0	13.3	0.0	11.9	0.0	10.5	0.0	49.8	0.9
	Carrot	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1
	Green Pepper	1.0	0.0	0.8	0.0	1.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	3.3	0.3
	Coloured Pepper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Spinach	0.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1
	Sweetcorn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KAVANGO	Tomato Round	0.0	0.0	0.2	0.0	0.0	0.0	1.5	0.0	1.5	0.0	0.0	0.0	3.2	0.3
	Tomato Jam	2.0	0.0	2.8	0.0	16.1	0.0	19.0	0.0	0.8	0.0	0.0	0.0	40.7	0.8
	Carrot	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
	Green Pepper	2.4	0.0	2.4	0.0	4.5	0.0	3.5	0.0	3.5	0.0	2.2	0.0	18.4	0.9
	Coloured Pepper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Spinach	0.1	0.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1
	Sweet Corn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH CENTRAL	Tomato Round	2.5	0.0	2.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.5
	Tomato Jam	18.6	0.0	24.8	0.0	81.3	0.0	69.5	0.0	1.2	0.0	0.0	0.0	195.4	7.3
	Carrot	0.0	0.0	0.0	0.0	1.5	0.0	1.0	0.0	1.0	0.0	1.0	0.0	4.5	0.2
	Green Pepper	4.3	0.0	5.0	0.0	9.5	0.0	9.2	0.0	0.0	0.0	0.0	0.0	28.0	1.9
	Coloured Pepper	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7	0.0	2.7	0.0	8.0	0.3
	Spinach	0.5	0.0	0.5	0.0	2.1	0.0	2.1	0.0	2.1	0.0	2.0	0.0	9.3	2.1
	Sweetcorn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 2 continued...

KARST	Tomato Round	20.8	0.0	20.8	0.0	85.6	0.0	60.0	0.0	60.0	0.0	0.0	0.0	247.2	4.1
	Tomato Jam	54.7	0.0	63.2	0.0	97.8	0.0	67.5	0.0	50.5	0.0	3.0	0.0	336.8	11.7
	Carrot	102.8	0.0	127.8	0.0	330.0	0.0	270.0	0.0	280.0	0.0	290.0	0.0	1400.5	41.8
	Green Pepper	12.1	0.0	13.2	0.0	37.0	0.0	27.7	0.0	20.5	0.0	20.4	0.0	130.8	6.6
	Coloured Pepper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Spinach	0.1	0.0	0.1	0.0	0.4	0.0	0.1	0.0	0.1	0.0	0.1	0.0	1.0	1.1
	Sweetcorn	0.0	0.0	0.0	0.0	3.0	0.0	3.0	0.0	3.0	0.0	3.0	0.0	12.0	6.0
CENTRAL	Tomato Round	18.0	0.0	18.0	0.0	63.4	0.0	65.4	0.0	54.3	0.0	18.0	0.0	237.0	7.9
	Tomato Jam	12.6	0.0	14.2	0.0	5.4	0.0	10.9	0.0	0.0	0.0	0.0	0.0	43.1	3.5
	Carrot	10.5	0.0	10.5	0.0	35.3	0.0	35.0	0.0	35.0	0.0	35.0	0.0	161.3	5.5
	Green Pepper	29.3	0.0	24.3	0.0	28.9	0.0	30.6	0.0	7.0	0.0	3.4	0.0	123.4	7.9
	Coloured Pepper	67.0	0.0	67.0	0.0	134.0	0.0	134.0	0.0	134.0	0.0	134.0	0.0	670.0	7.5
	Spinach	5.3	0.0	5.3	0.0	19.8	0.0	19.4	0.0	9.4	0.0	8.8	0.0	68.1	25.8
	Sweetcorn	5.0	0.0	5.0	0.0	14.0	0.0	21.0	0.0	21.0	0.0	0.0	0.0	66.0	12.0
SOUTH AND ORANGE RIVER	Tomato Round	60.4	0.0	60.4	0.0	214.7	0.0	128.6	0.0	5.8	0.0	5.8	0.0	475.7	8.9
	Tomato Jam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Carrot	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Green Pepper	4.6	0.0	4.6	0.0	9.3	0.0	7.9	0.0	4.0	0.0	4.0	0.0	34.4	1.9
	Coloured Pepper	0.7	0.0	0.7	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.2
	Spinach	0.2	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	2.0	1.8	0.0
	Sweetcorn	1.9	0.0	5.9	0.0	13.7	0.0	10.2	0.0	10.2	0.0	10.2	0.0	52.1	11.0
Total expected per crop per month	Tomato Round	102.7	0.0	103.6	0.0	369.9	0.0	263.7	0.0	124.1	0.0	23.8	0.0	987.8	22.5
	Tomato Jam	91.7	0.0	109.6	0.0	206.2	0.0	180.2	0.0	64.4	0.0	13.5	0.0	665.7	24.3
	Carrot	113.7	0.0	139.1	0.0	366.8	0.0	306.0	0.0	316.0	0.0	326.0	0.0	1567.5	47.6
	Green Pepper	53.6	0.0	50.2	0.0	90.5	0.0	78.9	0.0	35.0	0.0	30.0	0.0	338.2	19.5
	Coloured Pepper	67.7	0.0	67.7	0.0	135.4	0.0	136.7	0.0	136.7	0.0	136.7	0.0	680.7	8.0
	Spinach	6.5	0.0	6.3	0.0	23.5	0.0	22.0	0.0	12.0	0.0	11.4	2.0	81.7	29.2
	Sweetcorn	6.9	0.0	10.9	0.0	30.7	0.0	34.2	0.0	34.2	0.0	13.2	0.0	130.1	29.00

Source: NAB,2022



### 3. EXPECTED AVAILABILITY

**Table 3**, indicates active producers that expect to harvest the special controlled products as given below. Refer to table 3 below for more details.








TABLE 3A : EXPECTED AVAILABILITY OF SPECIAL CONTROLLED PRODUCTS																																													
KEYS: Tomato Round =  Tomato Jam =  Carrot =  Green Pepper =  Coloured Pepper =  Spinach =  Sweetcorn = 																																													
ZAMBEZI AREA																																													
				01 to 15 Jan 2023							16 to 31 Jan 2023							Feb-23							Mar-23							Apr-23							May-23						
SN	Name of Producer	Local	Export	Tomato Round	Tomato Jam	Carrot	Green pepper	Coloured pepper	Spinach	Sweet Corn	Tomato Round	Tomato Jam	Carrot	Green Pepper	Coloured pepper	Spinach	Sweet Corn	Tomato Round	Tomato Jam	Carrot	Green pepper	Coloured pepper	Spinach	Sweet Corn	Tomato Round	Tomato Jam	Carrot	Green Pepper	Coloured pepper	Spinach	Sweet Corn	Tomato Round	Tomato Jam	Carrot	Green pepper	Coloured pepper	Spinach	Sweet Corn	Tomato Round	Tomato Jam	Carrot	Green pepper	Coloured pepper	Spinach	Sweet Corn
1	Agness Nkunganano Matongo	✓																																											
2	Charity Mulemwa Goaises	✓																																											
3	Nanvula Lilungwe	✓																																											
4	Bernald Silwabubi	✓																																											
5	Bernard Sitali	✓																																											
6	Joseph Simataa	✓																																											
7	Vincent Siliye	✓																																											
8	Conrade Lutombi	✓																																											
9	Fernando Baptista	✓																																											
10	Chrispin Kamwi	✓																																											
11	Hans Matiti Fwelimbi	✓																																											
12	Lydia Ntelamo	✓																																											
13	Cavin Sikalumbu Mufwanzala	✓																																											
14	Nawa Sikanda	✓																																											
15	Ntelamo Ibalelo	✓																																											
16	Peggy Mufalali	✓																																											
17	Shylock Sinvula	✓																																											
18	Sinvula J Matengu	✓																																											
KAVANGO AREA																																													
				01 to 15 Jan 2023							16 to 31 Jan 2023							Feb-23							Mar-23							Apr-23							May-23						
1	Andrew Kashera	✓																																											
2	Maxwell Nghidinwa	✓																																											
3	Henock Katanga	✓																																											
4	Henrick Locke	✓																																											
5	Jonathan Mukwangu	✓																																											
6	Clemens Ndjamba	✓																																											
7	Pius Kapikara	✓																																											
8	Wilhelm Ndunoula	✓																																											

Table 3 continued...







































































































































NORTH CENTRAL AREA																																	
	Name of Producer			01 to 15 Jan 2023					16 to 31 Jan 2023					Feb-23					Mar-23					Apr-23					May-23				
1	Abisai A Amashili	√																															
2	Andreas Ashimbanga	√																															
3	Aurelia Shikesho	√																															
4	Ndapandula Mutumbulwa	√																															
5	Elise Auino	√																															
6	Ananias Theophilus	√																															
7	Thomas Marco Kalunduka	√																															
8	Benjamin Shikesho	√																															
9	Lucas Moongela	√																															
10	Emile Marais	√																															
11	Asser Moses	√																															
12	Emily Naunyango	√																															
13	Aron Hangula	√																															
14	Panduleni Mule	√																															
15	Michael Mwetuhangapo Endjala	√																															
16	Ndasihenda Nakashwa	√																															
17	Paulus Amutenya	√																															
18	Pupyenaye Tjavanga	√																															
19	Shetuuka Shetuuka	√																															
20	Aina Imalwa	√																															
21	Natu Tangeri Shipaxu	√																															
22	Veijo Sheetekela	√																															
23	Silvanus Naunyango	√																															
KARST AREA																																	
	Name of Producer			01 to 15 Jan 2023					16 to 31 Jan 2023					Feb-23					Mar-23					Apr-23					May-23				
1	Veiccoh K. Nghiwete	√																															
2	Olavi Hamutumwa	√																															
3	Juliana Gericke	√																															
4	Chris Coston	√																															
5	John M. Shaetonhodi	√																															
6	Geoffery Shekupe	√																															
7	Elizabeth Nekundi	√																															

Table 3 continued...

[illegible]

Table 3 continued...

[illegible]

Source: NAB, 2022

## 4. EXPECTED PRODUCTION VS DEMAND ANNALYSIS

### 4.1 TABULATION ANALYSIS

**Table 4:** Below indicates expected production versus the average domestic demand per crop per month

The total tonnage expected for Tomato Jam, Green Pepper and Colour Pepper, are expected to be Sufficient in the entire permit period of 01 to 31 January 2023. While Sweetcorn, Carrot, Spinach and Tomato Round will be insufficient in this permit period, of 01 to 31 January 2023.

Table 4A: EXPECTED PRODUCTION VERSUS DOMESTIC DEMAND ANALYSIS FOR SPECIAL CONTROLLED PRODUCTS								
		Numbers in this table represents Tonnage						
Crop	Expected <b>Shortage</b> or <b>Surplus</b>	01-15 Jan 23	16-31 Jan 23	Feb-23	Mar-23	Apr-23	May-23	TOTAL
Tomato Round	Expected for Domestic Market	102.7	103.6	369.9	263.7	124.1	23.8	987.8
	Average Domestic Demand	117.1	117.1	234.2	234.2	234.2	234.2	1171.2
	<b>Surplus /Shortage</b>	<b>-14.4</b>	<b>-13.5</b>	<b>135.6</b>	<b>29.4</b>	<b>-110.2</b>	<b>-210.4</b>	<b>-183.4</b>
Tomato Jam	Expected for Domestic Market	91.7	109.6	206.2	180.2	64.4	13.5	665.7
	Average Domestic Demand	2.1	2.1	4.3	4.3	4.3	4.3	21.4
	<b>Surplus /Shortage</b>	<b>89.6</b>	<b>107.5</b>	<b>201.9</b>	<b>175.9</b>	<b>60.1</b>	<b>9.2</b>	<b>644.3</b>
Carrot	Expected for Domestic Market	113.7	139.1	366.8	306.0	316.0	326.0	1567.5
	Average Domestic Demand	160.7	160.7	321.3	321.3	321.3	321.3	1606.6
	<b>Surplus /Shortage</b>	<b>-47.0</b>	<b>-21.6</b>	<b>45.4</b>	<b>-15.3</b>	<b>-5.3</b>	<b>4.7</b>	<b>-39.2</b>
Green Pepper	Expected for Domestic Market	53.6	50.2	90.5	78.9	35.0	30.0	338.2
	Average Domestic Demand	12.6	12.6	25.1	25.1	25.1	25.1	125.6
	<b>Surplus /Shortage</b>	<b>41.0</b>	<b>37.6</b>	<b>65.4</b>	<b>53.8</b>	<b>9.8</b>	<b>4.9</b>	<b>212.6</b>
Colour Pepper	Expected for Domestic Market	67.7	67.7	135.4	136.7	136.7	136.7	680.7
	Average Domestic Demand	23.7	23.7	47.4	47.4	47.4	47.4	237.0
	<b>Surplus /Shortage</b>	<b>44.0</b>	<b>44.0</b>	<b>88.0</b>	<b>89.3</b>	<b>89.3</b>	<b>89.3</b>	<b>443.8</b>
Sweetcorn	Expected for Domestic Market	6.9	10.9	30.7	34.2	34.2	13.2	130.1
	Average Domestic Demand	8.6	8.6	17.3	17.3	17.3	17.3	86.4
	<b>Surplus /Shortage</b>	<b>-1.8</b>	<b>2.2</b>	<b>13.4</b>	<b>16.9</b>	<b>16.9</b>	<b>-4.1</b>	<b>43.7</b>
Spinach	Expected for Domestic Market	6.5	6.3	23.5	22.0	12.0	11.4	81.7
	Average Domestic Demand	7.0	7.0	13.9	13.9	13.9	13.9	69.7
	<b>Surplus /Shortage</b>	<b>-0.5</b>	<b>-0.7</b>	<b>9.6</b>	<b>8.1</b>	<b>-1.9</b>	<b>-2.6</b>	<b>12.1</b>

Source: NAB,2022

## 4.2 GRAPHICAL ANALYSIS

**Figures 1- 7:** Below indicates the expected local tonnage, average domestic demand and export analysis per crop, we therefore have sufficient supply of Tomato Jam, Green and Colour Pepper from 01 to 31 January 2023 permit period. The Sweetcorn, Carrot, Spinach and Tomato Round will be insufficient in this permit period.

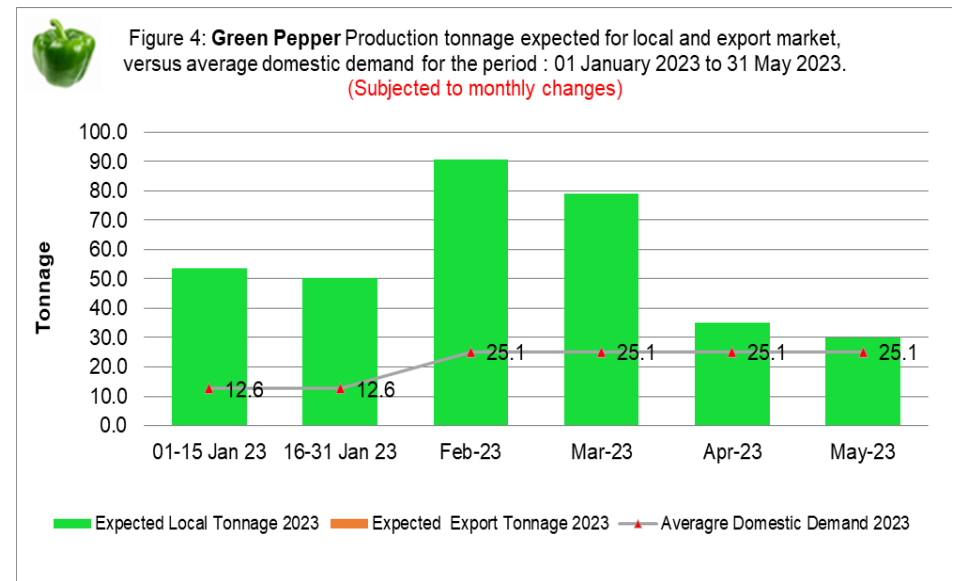
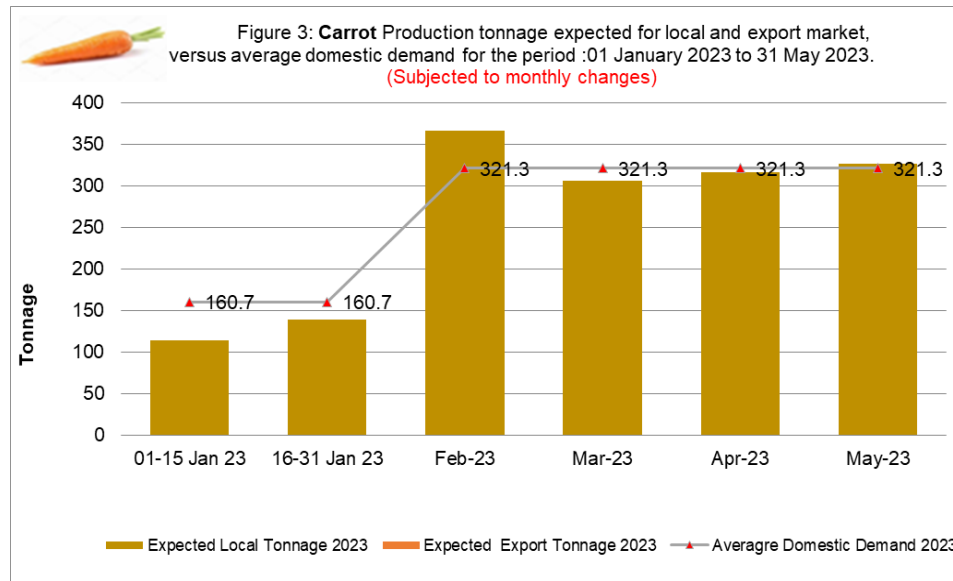
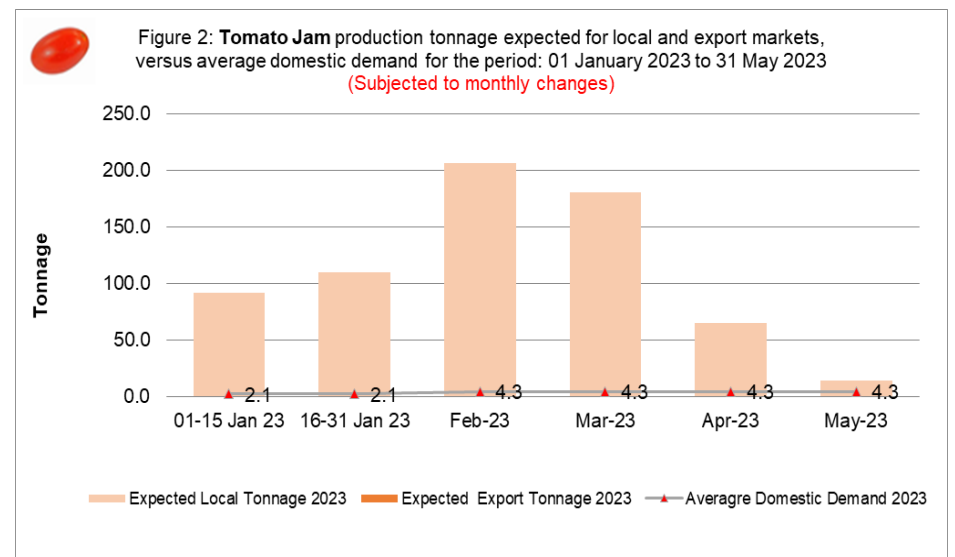
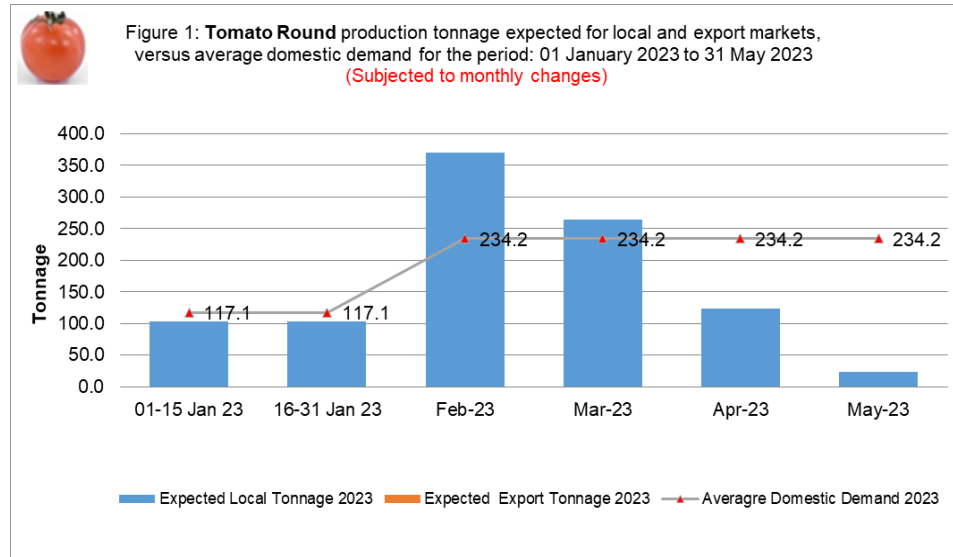




Figure 5: **Sweetcorn** Production tonnage expected for local and export market, versus average domestic demand for the period: 01 January 2023 to 31 May 2023.  
(Subjected to monthly changes)

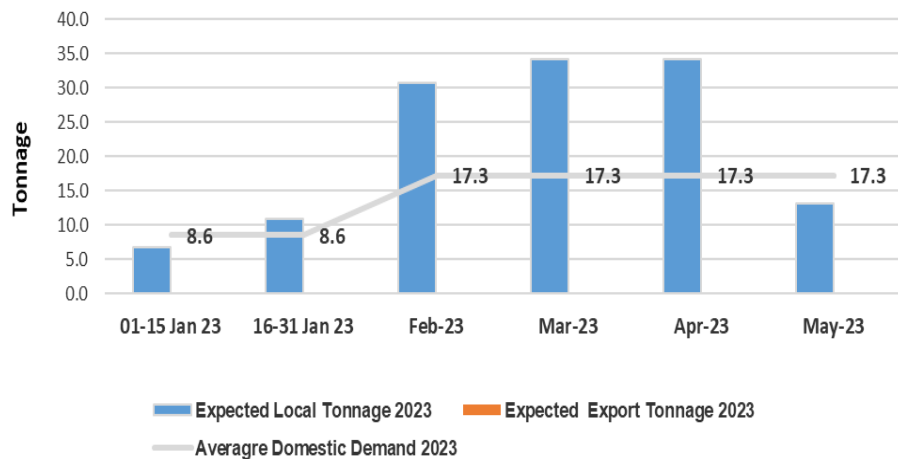
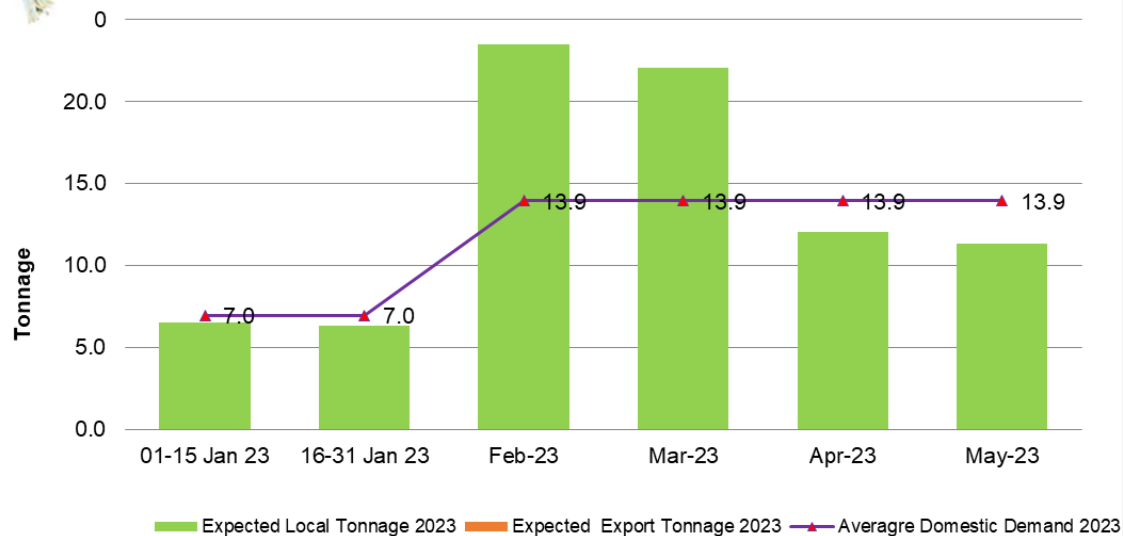


Figure 6: **Colour Pepper** Production tonnage expected for local and export market, versus average domestic demand for the period : 01 January 2023 to 31 May 2023.  
(Subjected to monthly changes)



Figure 7 : **Spinach** Production tonnage expected for local and export market, versus average domestic demand for the period : 01 January 2023 to 31 May 2023.  
(Subjected to monthly changes)



## 5. CONCLUSIONS AND RECOMMENDATIONS

This report indicates sufficient supply of Tomato Jam, Green Pepper and Color Pepper for the entire special permit period of 01 to 31 January 2023. It is therefore recommended that the above-mentioned product lines be closed for importation during this permit period.

The report further shows insufficient supply of and Tomato Round, Carrot, Sweetcorn and Spinach during the special permit period 01 to 31 January 2023. It is therefore recommended that borders opens on prorata for importation of Tomato Round (50:50), Carrot (50:50), Sweetcorn (30:70), and Spinach (30:70) with Import to Local respectively. However, traders are reminded that MSP rule of 47 % is strictly applied at times.

In conclusion traders are encouraged to contact farmers and source their required produces locally before resorting to importing.

***Wishing all the stakeholders in the Horticulture Industry a prosperous and Happy new year 2023.***

[illegible]





**Beetroot**



**English Cucumber**



**Sweet Potato**



**Watermelon**



**Sweetmelon**



**Lettuce.**



**Cauliflower**



**Broccoli**



**Mushroom**



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## **HORTICULTURE: VEGETABLES PRODUCTION FORECAST**

### **REPORT NO 3**

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**FORECASTED PERIOD:**

**01 January 2023 TO 31 May 2023**

**Agronomy and Horticulture Market Development  
Division**

**Horticulture Market Development Subdivision**

**Enquiries:** Ms. Lydia Shivia

Cell: +264 816468182

Email: Shivia3000@gmail.com

## 1. INTRODUCTION

Report no. 3, covers the local production forecast for the six (6) special controlled products such as Beetroot, **English Cucumber**, **Sweet Potato**, **Watermelon**, **Sweet melon**, and **Lettuce**, and three (3) monitored crops i.e., **Cauliflower**, **Broccoli**, and **Mushroom**. Below is the list of inclusions and exclusions (**table 1**) for the above-outlined special controlled products. **Please take note:** All the exclusions are imported using mixed fruit and vegetable permit, valid for 90 days.

**Table 1 below show the inclusions and exclusions of the special controlled products**

Special Controlled Product	Inclusions (Not allowed to be imported, only during open border period)	Exclusions (Allowed to be imported with no restriction)
Beetroot	All types, size groups, and container sizes of fresh, chilled, Whole or Cut red fleshed Beetroot, except the “Exclusions”.	Yellow, white, and golden fleshed Beetroot. All frozen, dried, cooked and preserved beetroot (Whole or Cut). Including Juice/Jam
English Cucumber	All types, size groups, and container sizes of fresh, chilled, Whole or Cut English Cucumber, except the “Exclusions”.	Preserved English Cucumber, and other types of cucumbers. All frozen, dried, cooked, and preserved English Cucumber (Whole or Cut).
Sweet Potato	All types, size groups, and container sizes of fresh, chilled, Whole or Cut Sweet Potato, except the “Exclusions”.	Yellow/Cream fleshed Sweet Potato (Zambian type), Purple Sweet Potato. All frozen, dried, cooked, and preserved Sweet Potato (Whole or Cut).
Watermelon	All types, size groups, and container sizes of fresh, chilled, Whole or Cut Watermelon, except the “Exclusions”.	All Watermelon Juices and Jam.
Sweet melon	All types, size groups, and container sizes of fresh, chilled, Whole or Cut Sweet Melon, except the “Exclusions”.	All Sweet melon Juices and Jam.
Lettuce Iceberg	All types, grades, size groups, and container sizes of fresh, chilled, Whole or Cut light green/green Iceberg Lettuce as called Head Lettuce, except the “Exclusions”.	All Butterhead, Leafy, or Stem types of Lettuce of any color. All frozen, dried, cooked, and preserved Lettuce (Whole or Cut) of any color and shape.

**Whole:** any fresh fruit or vegetable that has 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 has been dried or dehydrated, either whole or in pieces/cuts.

**Frozen:** any fresh fruits or vegetables that have had their temperature reduced and maintained 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 TONNAGE EXPECTED PER AREA

Table 1A shows the monthly expected production per area of the six special controlled crops in different zones and Table 1B shows the monthly expected production per area of the three monitored crops.

[illegible]

Table 1 A continues...

KARSTLAND	Beetroot	26.0	0.0	56.0	0.0	100.0	0.0	40.0	0.0	40.0	0.0	40.0	0.0	302.00	13.00
	English Cucumbers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
	Sweet Potatoes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.02
	Watermelon	337.5	0.0	213.3	0.0	37.5	0.0	50.0	0.0	0.0	0.0	0.0	0.0	720.50	15.53
	Sweetmelon	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40	0.07
	Lettuce Iceberg	4.2	0.0	4.2	0.0	8.4	0.0	8.4	0.0	8.4	0.0	8.4	0.0	42.00	3.00
CENTRAL	Beetroot	20.0	0.0	0.6	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.00	2.00
	English Cucumbers	44.8	0.0	44.2	0.0	103.1	0.0	93.1	0.0	71.1	0.0	73.6	0.0	417.70	11.18
	Sweet Potatoes	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.00	0.30
	Watermelon	45.5	0.0	73.5	0.0	43.0	0.0	35.5	0.0	0.0	0.0	0.0	0.0	197.50	8.35
	Sweetmelon	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.00	0.10
	Lettuce Iceberg	4.1	0.0	4.1	0.0	8.1	0.0	8.3	0.0	60.6	0.0	8.1	0.0	93.18	8.80
SOUTH AND ORANGE RIVER	Beetroot	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
	English Cucumbers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
	Sweet Potatoes	0.0	0.0	0.0	0.0	0.0	0.0	90.0	0.0	60.0	0.0	50.0	0.0	210.00	8.00
	Watermelon	297.0	0.0	299.0	0.0	228.0	0.0	210.0	0.0	80.0	0.0	80.0	0.0	1194.00	26.50
	Sweetmelon	113.8	0.0	113.8	0.0	107.5	0.0	137.5	0.0	60.0	0.0	60.0	0.0	592.50	16.50
	Lettuce Iceberg	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	0.0	8.00	1.00
Total expected production per crop per month	Beetroot	59.6	0.0	66.1	0.0	120.2	0.0	40.0	0.0	40.0	0.0	40.0	0.0	375.35	16.55
	English Cucumbers	44.8	0.0	44.2	0.0	103.1	0.0	93.1	0.0	71.1	0.0	73.6	0.0	417.70	11.18
	Sweet Potatoes	76.3	0.0	88.3	0.0	74.3	0.0	201.3	0.0	0.0	0.0	61.3	0.0	577.13	27.78
	Watermelon	908.8	0.0	804.3	0.0	339.0	0.0	295.5	0.0	80.0	0.0	80.0	0.0	2589.84	58.99
	Sweetmelon	116.2	0.0	113.8	0.0	107.5	0.0	137.5	0.0	60.0	0.0	60.0	0.0	608.90	16.67
	Lettuce Iceberg	10.2	0.0	8.3	0.0	16.5	0.0	20.7	0.0	73.0	0.0	16.5	0.0	145.14	13.04

Source: NAB, 2022

Table 1 B is the continuation of Table 1 A; However, table B solely focuses on the three (3) monitored crops (**Cauliflower, Broccoli and Mushroom**) monthly expected production per area per production zone.

Table 1B: Monthly expected production per area, per crop for the period 01 Jan 2023 - 31 May 2023													
Numbers in the table below represents tonnage expected to harvested for local and export market												Last updated: 20 Dec 2023	
PRODUCTION AREAS	CROPS	Jan-23		Feb-23		Mar-23		Apr-23		May-23		Total (for the 5 months period)	
		Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Yield	Ha to be harvested
NORTH CENTRAL	Cauliflow er	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.17
CENTRAL	Cauliflow er	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.00	0.30
	Broccoli	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	12.00	1.30
	Mushroom	6.9	0.0	5.9	0.0	6.4	0.0	6.9	0.0	6.9	0.0	26.10	0.42
SOUTH AND ORANGE RIVER	Cauliflow er	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.00	0.50
	Broccoli	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	6.00	2.40
Total expected production per crop per month	Cauliflower	1.2	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	4.20	0.97
	Broccoli	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	18.00	3.70
	Mushroom	6.9	0.0	5.9	0.0	6.4	0.0	6.9	0.0	6.9	0.0	26.10	0.42
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00

Source; NAB 2022

### 3. EXPECTED AVAILABILITY PER PRODUCER

Table 2A below indicates the expected monthly availability per producer in each respective production zone. Traders are advised to use this calendar to trace producers harvesting the product of interest and make local purchase arrangements henceforth.

[illegible]

Table 2A Continues.





















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Table 2A continues....

CENTRAL AREA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NAME OF A PRODUCER		Local Informa	Local Forma	Export	1-15 Jan					16-31 Jan					Feb-23					Mar-23					Apr-23					May-23																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Table 2A continues...



SOUTH AND ORANGE RIVER AREAS																																		
NAME OF PRODUCER		Local Informa	Local Forma	Export	1-15 Jan					16-31 Jan					Feb-23					Mar-23					Apr-23					May-23				
1	Burger J.Harmse	√	√																															
2	Elmarie Janse Van	√	√																															
3	Francois van Rensburg	√	√																															
4	Hentie van Dyk	√	√																															
5	Hoekes van Niekerk	√	√																															
6	Jimmy 'O Kennedy	√	√																															
7	Zirk Jansen	√	√																															
Kindly note: Producers not listed herein, it is either they will not be harvesting any of the produce covered by report three or they did not provide the required data to NAB.																																		

Source: NAB 2022

Table 2B. Shows the availability of monitored crop: Mushrooms

TABLE: 2B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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NAME OF PRODUCER	I	n	F	E	m	a	l	Cauliflower	Broccoli	Mushroom						Cauliflower	Broccoli	Mushroom						Cauliflower	Broccoli	Mushroom				Cauliflower	Broccoli	Mushroom																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Source: NAB 2022

#### 4. EXPECTED PRODUCTION AND DEMAND ANALYSIS

Table 3A below reveals the production volume expected by local producers versus the volume demanded in the domestic market. This table seeks to inform the NAB which special controlled products are sufficient and where are the deficits. Producers are advised to take note of shortages/deficits and invest accordingly.

Table 3A: Analysis of the total expected tonnage for domestic market versus domestic demand.								
Numbers in this table represents tonnage expected to harvested for local and export market								
Last updated: 20 Dec								
Crops	Expected Surplus or Shortage	1-15 Jan	16-31 Jan	Feb-23	Mar-23	Apr-23	May-23	Total
Beetroot	Expected Tonnage for domestic market	60	66	120	40	40	40	300
	Average Domestic Demand (2021)	40.0	40.0	80	80	80	80	360
	Surplus / shortage (Tonnage)	20	26	40	-40	-40	-40	-60
English Cucumber	Expected Tonnage for domestic market	45	44	103	93	71	74	386
	Average Domestic Demand (2021)	50	50	100	100	100	100	450
	Surplus / shortage (Tonnage)	-5	-6	3	-7	-29	-26	-64
Sweet Potato	Expected Tonnage for domestic market	76	88	74	201	0	61	6
	Average Domestic Demand (2021)	75	75	150	150	150	150	675
	Surplus / shortage (Tonnage)	1	13	-76	51	-150	-89	-669
Watermelon	Expected Tonnage for domestic market	909	804	339	296	80	80	1703
	Average Domestic Demand (2021)	100	100	200	200	200	200	900
	Surplus / shortage (Tonnage)	809	704	139	96	-120	-120	803
Sweet melon	Expected Tonnage for domestic market	116	114	108	138	60	60	481
	Average Domestic Demand (2021)	40	40	80	80	80	80	360
	Surplus / shortage (Tonnage)	76	74	28	58	-20	-20	121
Lettuce Iceberg	Expected Tonnage for domestic market	10	8	17	21	73	17	137
	Average Domestic Demand (2021)	35	35	75	75	75	75	335
	Surplus / shortage (Tonnage)	-25	-27	-59	-54	-2	-59	-198

Source: NAB 2022

Table 3 B indicates the total tonnage available for the monitored crop: Mushroom

Table 3B: Analysis of the total expected tonnage for domestic market versus domestic demand.							
Crops	Expected <b>Surplus</b> or <b>Shortage</b>	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Total
<b>Cauliflower</b>	Expected Tonnage for domestic market	1	0	0	3	0	<b>4</b>
	Average Domestic Demand (2021)	25	25	25	25	25	<b>125</b>
	<b>Surplus / shortage</b> (Tonnage)	<b>-24</b>	<b>-25</b>	<b>-25</b>	<b>-22</b>	<b>-25</b>	<b>-121</b>
<b>Broccoli</b>	Expected Tonnage for domestic market	0	0	0	6	0	<b>6</b>
	Average Domestic Demand (2021)	20	20	20	20	20	<b>100</b>
	<b>Surplus / shortage</b> (Tonnage)	<b>-20</b>	<b>-20</b>	<b>-20</b>	<b>-15</b>	<b>-20</b>	<b>-95</b>
<b>Mushroom</b>	Expected Tonnage for domestic market	7	6	6	7	7	<b>33</b>
	Average Domestic Demand (2021)	15	15	15	15	15	<b>75</b>
	<b>Surplus / shortage</b> (Tonnage)	<b>-8</b>	<b>-9</b>	<b>-9</b>	<b>-8</b>	<b>-8</b>	<b>-42</b>

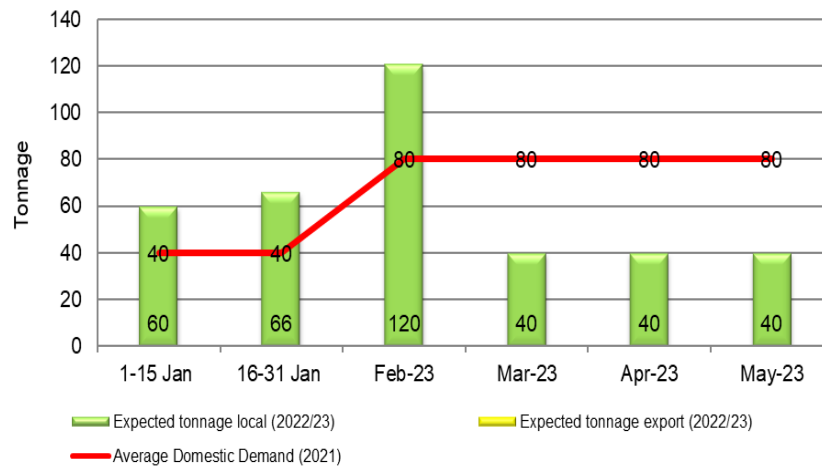
Source NAB 2022

## 5. GRAPHICAL ANALYSIS

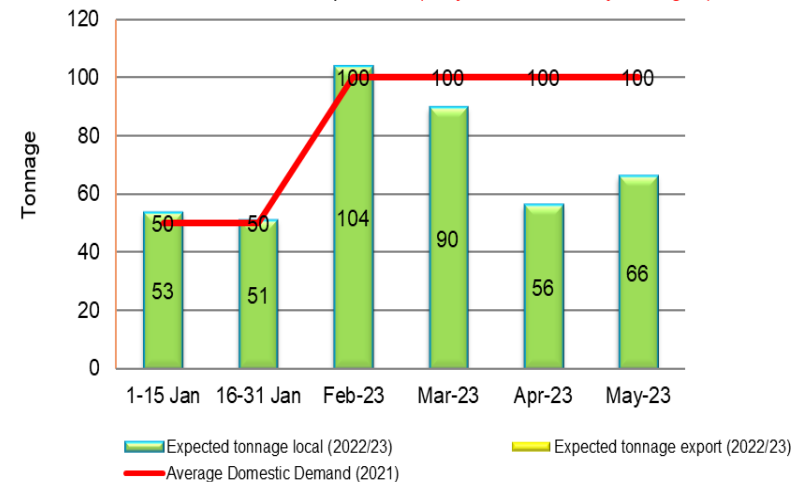
As indicated in Table 3 B, Figure 1,2,3,4,5,6, and 7 below shows the analysis that was done on the 6 special controlled products and 3 monitored crop i.e. mushroom, broccoli and cauliflower.



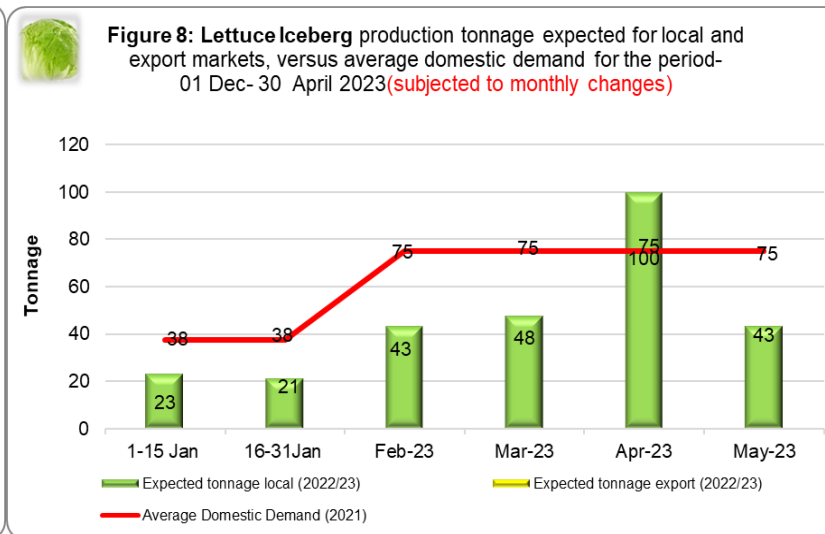
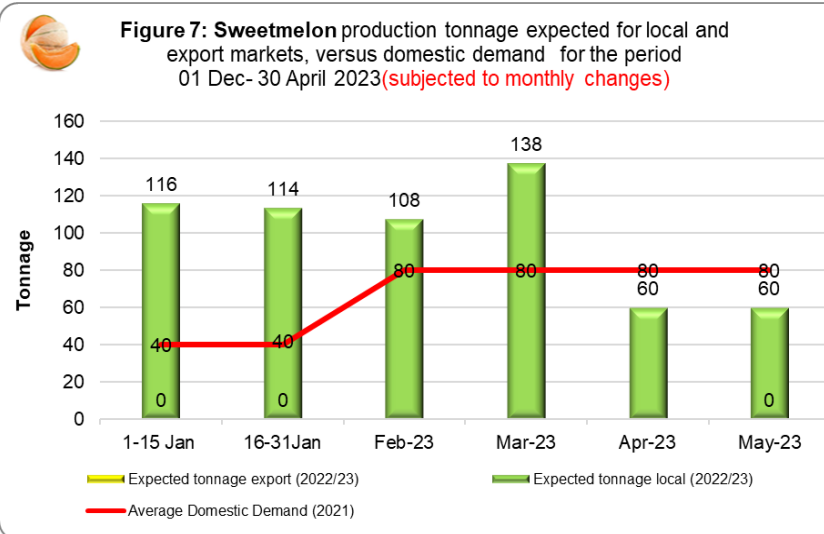
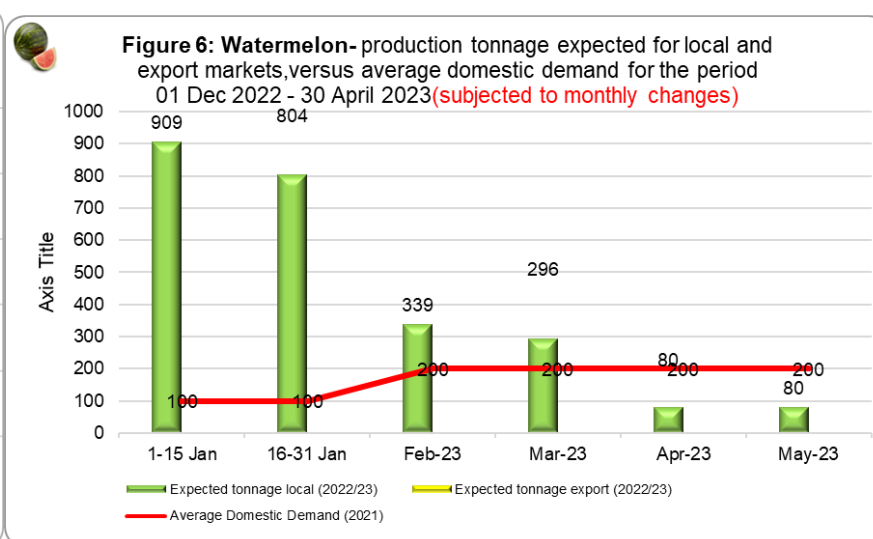
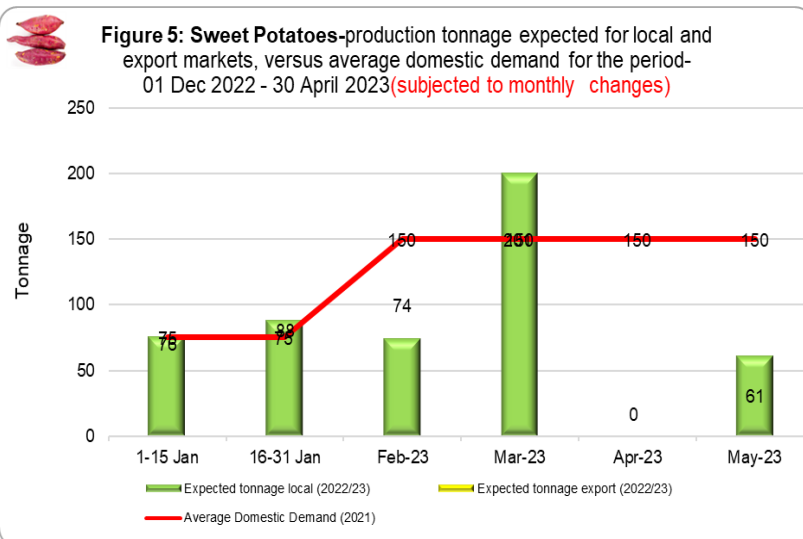
**Figure 3: Beetroots-**production tonnage expected for local and export markets, versus average domestic demand for the period- 01 Dec 2022 - 30 April 2023 (subjected to monthly changes)



**Figure 4: English Cucumber-**production tonnage expected for local and export markets versus average domestic demand for the period- 01 Dec 2022- 30 April 2023 (subjected to monthly changes)

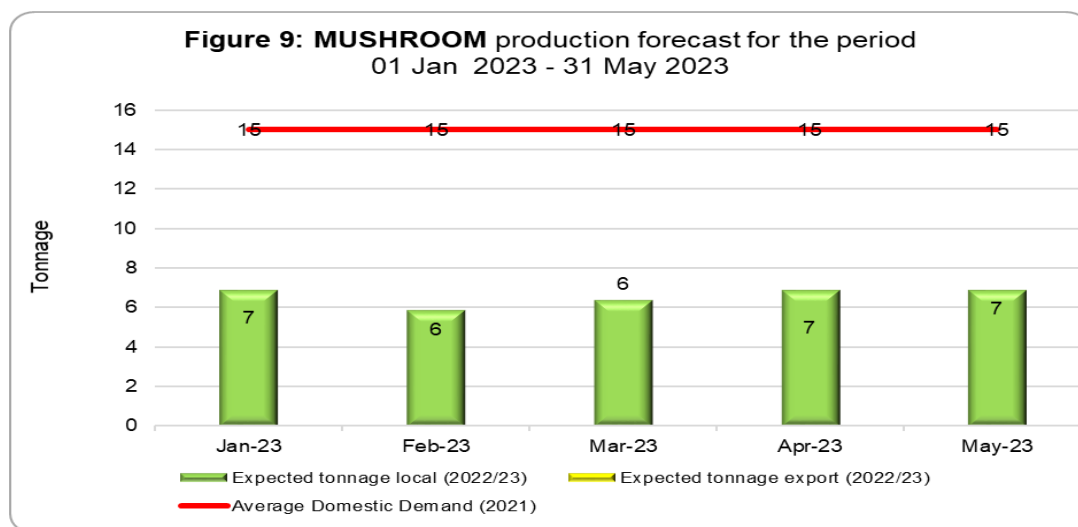
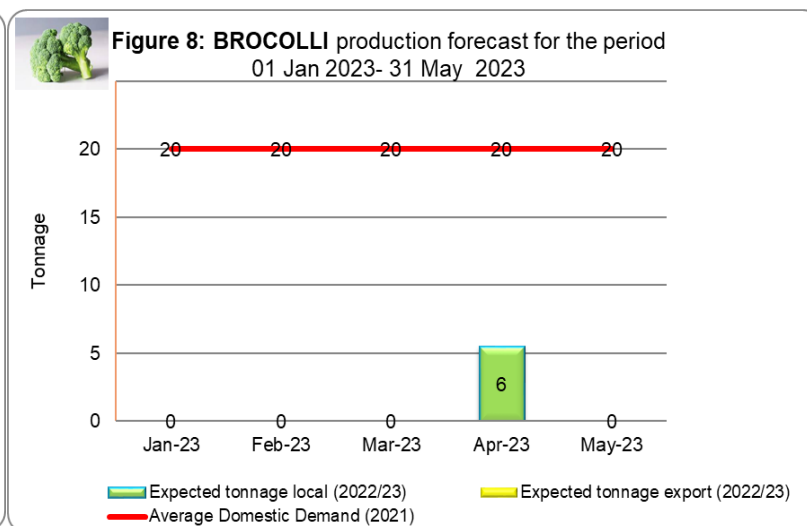
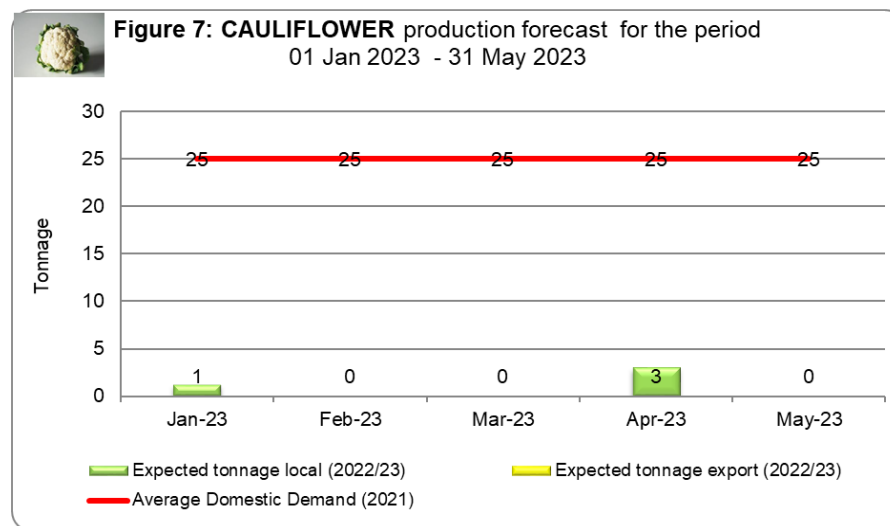


Graphical analysis continues.....



Source: NAB 2022

Graphical analysis continues.....



Source: NAB 2022

## 6. CONCLUSION AND RECOMMENDATION

This report concludes that there will be sufficient local supply of, **English Cucumber, Watermelon and Sweet melon (refer to shortage and surplus table 3)**. Whereas, the borders will be closed for English, Sweet melon, and Watermelon for the special import permit period 1-31 January 20223 English cucumber, sweet potatoes, and lettuce iceberg will be insufficient in this special permit period (January month).

Based on the above outlined conclusion, it is recommended that **English cucumber, Watermelon and sweet melon** will be closed for importation during January month while lettuce iceberg and Sweet potatoes will be open on a prorata basis of 50% (local sourcing) and 50% (imports).

Note that import restrictions are subjected to changes depending on local products availability reviewed on a regular basis. Thus, local producers are encouraged 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. On the other hand, traders are encouraged to contact the local producers as indicated harvesting in Table 2 A& B (**availability calendar**) to place their local orders. Should a trader notice that a producer indicated in the availability calendar have no produce available, please do Notify the NAB immediately.