



Beetroot



English Cucumber



Sweet Potato



Watermelon



Sweet melon



Lettuce



HORTICULTURE: VEGETABLES PRODUCTION FORECAST

REPORT NO 3

FORECASTED PERIOD:

01 FEBRUARY 2021 TO 30 JUNE 2021

**Agronomy and Horticulture Market Development
Division**

Horticulture Market Development Subdivision

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1. INTRODUCTION

Report no. 3, covers the local production forecast for the **five special controlled products** i.e. **Beetroot, English Cucumber, Sweet Potato, Watermelon, Sweet melon** and **Lettuce**. 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.

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 size 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 size of fresh, chilled, Whole or Cut English Cucumber, except the "Exclusions".	Preserved English Cucumber, 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 size of fresh, chilled, Whole or Cut Watermelon, except the "Exclusions".	All Watermelon Juices and Jam.
Sweet melon	All types, size groups and container size of fresh, chilled, Whole or Cut Sweet Melon, except the "Exclusions".	All Sweet melon Juices and Jam.

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 TONNAGE EXPECTED PER AREA

Table 1, indicates that, during the reporting period, the biggest portion of Beetroot is expected to be harvested in the Karst, Sweet Potatoes from North Central production zones. Furthermore, Table 1 also shows that the biggest portion of Watermelon and Sweet melon production is expected from South and Orange.

Table 1: Monthly expected production per area, per crop for the period 01 Feb 2021 - 30 Jun 2021															
Numbers in the table below represents tonnage expected to harvested for local and export market														Last updated: 19 Jan 2021	
PRODUCTION AREAS	CROPS	1-15 Feb 21		16-28 Feb 21		Mar-21		Apr-21		May-21		Jun-21		Total (for the 5 months period)	
		Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Yield	Ha to be harvested
ZAMBEZI	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	2.0	0.0	0.0	0.0	0.0	0.0	2.00	0.20
	Watermelon	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.02
	Sweetmelon	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
	Lettuce	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
KAVANGO	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	1.2	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.08
	Watermelon	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
	Sweetmelon	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
	Lettuce	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
NORTH CENTRAL	Beetroot	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.52
	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	149.5	0.0	0.0	0.0	53.0	0.0	61.0	0.0	27.0	0.0	0.0	0.0	303.00	13.50
	Watermelon	0.0	0.0	0.5	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	10.50	0.28
	Sweetmelon	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.00	0.25
	Lettuce	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00

Table 1. continues....

KARSTLAND	Beetroot	64.0	0.0	64.0	0.0	128.0	0.0	125.0	0.0	125.0	0.0	125.0	0.0	631.00	25.30
	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	14.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	34.00	0.70
	Watermelon	25.0	0.0	5.0	0.0	17.5	0.0	10.0	0.0	10.0	0.0	0.0	0.0	67.50	2.25
	Sweetmelon	5.0	0.0	0.0	0.0	20.0	0.0	5.0	0.0	5.0	0.0	0.0	0.0	35.00	1.75
	Lettuce	25.0	0.0	25.0	0.0	30.0	0.0	25.0	0.0	25.0	0.0	25.0	0.0	156.75	5.25
CENTRAL	Beetroot	27.0	0.0	30.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	72.00	1.95
	English Cucumbers	105.5	0.0	95.6	0.0	152.0	0.0	142.0	0.0	162.0	0.0	144.0	0.0	801.10	17.74
	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	0.00	0.00
	Watermelon	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	10.00	0.20
	Sweetmelon	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
	Lettuce	25.0	0.0	15.0	0.0	40.0	0.0	40.0	0.0	40.0	0.0	40.0	0.0	180.00	8.00
SOUTH AND ORANGE RIVER	Beetroot	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.00	0.60
	English Cucumbers	30.0	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	30.0	0.0	45.0	0.0	45.0	0.0	45.0	0.0	0.0	0.0	30.0	0.0	195.00	5.50
	Watermelon	122.3	0.0	105.0	0.0	458.0	0.0	333.0	0.0	0.0	0.0	0.0	0.0	1018.30	17.50
	Sweetmelon	80.0	0.0	0.0	0.0	130.0	0.0	90.0	0.0	0.0	0.0	0.0	0.0	300.00	13.40
	Lettuce	2.5	0.0	0.0	0.0	2.5	0.0	2.5	0.0	2.5	0.0	2.5	0.0	15.00	1.50
Total expected production per crop per month	Beetroot	91.0	0.0	114.0	0.0	138.0	0.0	140.0	0.0	125.0	0.0	125.0	0.0	743.00	28.37
	English Cucumbers	135.5	0.0	95.6	0.0	152.0	0.0	142.0	0.0	162.0	0.0	144.0	0.0	801.10	17.74
	Sweet Potatoes	180.7	0.0	57.5	0.0	112.0	0.0	106.0	0.0	47.0	0.0	30.0	0.0	533.20	21.59
	Watermelon	147.3	0.0	110.5	0.0	476.0	0.0	363.0	0.0	10.0	0.0	0.0	0.0	1106.83	20.24
	Sweetmelon	85.0	0.0	0.0	0.0	150.0	0.0	100.0	0.0	5.0	0.0	0.0	0.0	340.00	15.40
	Lettuce	52.5	0.0	55.0	0.0	72.5	0.0	67.5	0.0	67.5	0.0	67.5	0.0	351.75	14.75

Source: NAB 2020

3. EXPECTEDCTED AVAILABILITY PER PRODUCER

Table 2 below, shows the expected month of availability for the 5 special controlled crops and one monitored crop, from each production zone.




















TABLE: 2																																		
KEYS : BEETROOT  ENGLISH CUCUMBER  SWEET POTATO  WATERMELON  SWEETMELON  LETTUCE 																																		
PERIOD: 01 Feb 2021 TO 30 Jun 2021																																		
NAME OF PRODUCER	MARKET			1-15 Feb-21					16-28 Feb-21					Mar-21					Apr-21					May-21					Jun-21					
	Informal	Formal	Export	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweet melon	Lettuce	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweet melon	Lettuce	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweet melon	Lettuce	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweet melon	Lettuce	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweet melon	Lettuce	
ZAMBEZI																																		
1 Kamwi Lubanda	√	√																																
2 Tererai Msakwa Ndelek	√	√																																
KAVANGO AREA																																		
1 Ignatius Hamupembe	√	√																																
NORTH CENTRAL AREA																																		
1 Silvanus Naunyango	√	√																																
2 Titus Paulus	√	√																																
3 Elifas Nuuyoma	√	√																																
4 Chrisns Greeff	√	√																																
5 Shetuuka Shetuuka	√	√																																
6 Immanuel Hambiya	√	√																																
7 Emilie Naunyango	√	√																																
8 Loini Uukongo	√	√																																

Table 2 continues....

[illegible]

KARSTLAND AREA

[illegible]

SOUTH AND ORANGE RIVER AREAS																													
1	Hermany van Dyk	√	√																										
2	Hentie van Dyk	√	√																										
3	Hoekes van Niekerk	√	√																										
4	Lyndon Bartlet	√	√																										
5	Rudi Kotze	√	√																										
6	Jean Roux	√	√																										
7	Johan Rieckert	√	√																										
8	Francois van Rensburg	√	√																										
9	Charl van Rensburg	√	√																										

Kindly note: Producers not listed herein, it is either they will not be harvesting any of the three products or they did not provide the required data to NAB.

Source: NAB 2021

4. EXPECTED PRODUCTION AND DEMAND ANNALYSIS

4.1 TABULATION ANALYSIS OF DOMESTIC DEMAND

According to table 3, sufficient local supply of Beetroot, English Cucumber, Sweet Melon and Watermelon is expected during the forecasted period.

Table 3: 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: 19 Jan 2020								
Crops	Expected Surplus or Shortage	1-15 Feb 21	16-28 Feb 21	Mar-21	Apr-21	May-21	Jun-21	Total
Beetroot	Expected Tonnage for domestic market	91	114	138	140	125	125	619
	Average Domestic Demand (2018/19)	92	92	92	92	92	92	460
	Surplus / shortage (Tonnage)	-1	22	46	48	33	33	159
English Cucumber	Expected Tonnage for domestic market	136	96	152	142	162	144	736
	Average Domestic Demand (2018/19)	89	89	89	89	89	89	445
	Surplus / shortage (Tonnage)	47	7	63	53	73	55	291

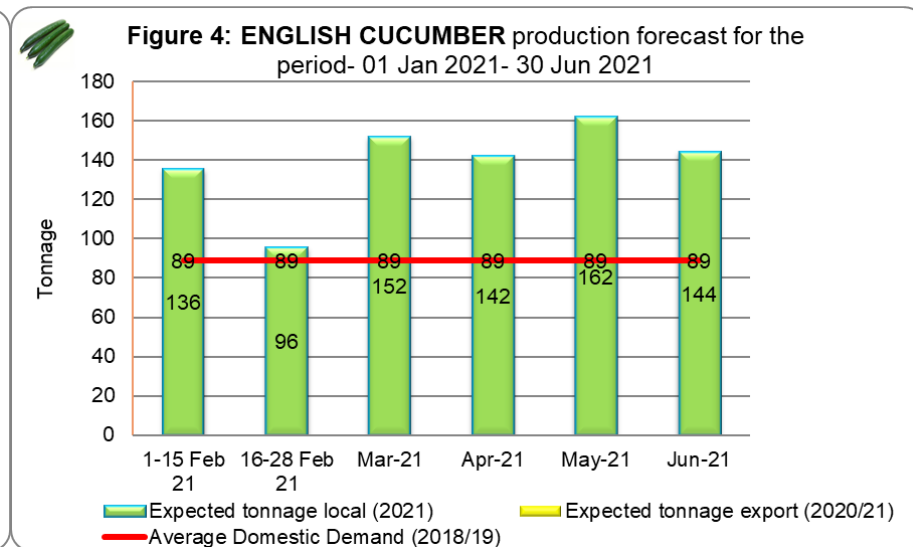
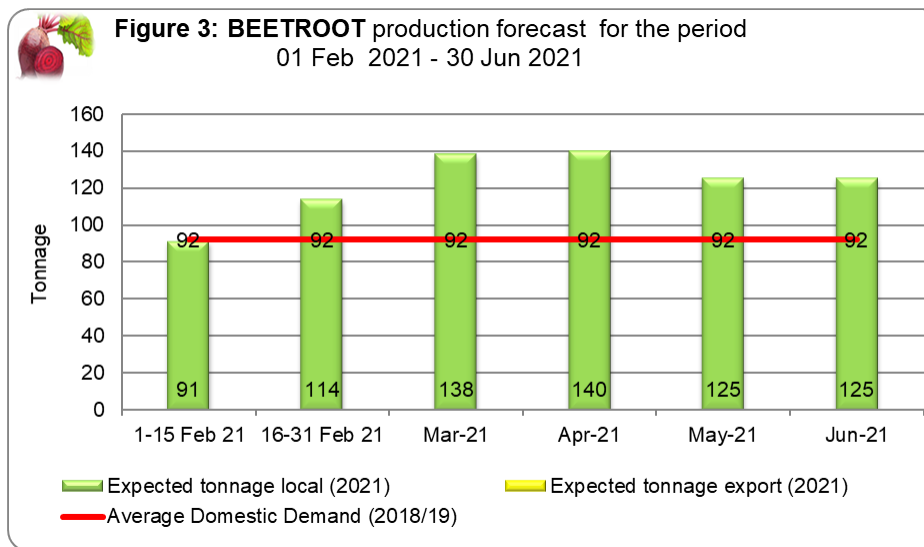
Table 3 continues.....

Sweet Potato	Expected Tonnage for domestic market	181	58	112	106	47	30	476
	Average Domestic Demand (2018/19)	196	196	196	196	196	196	980
	Surplus / shortage (Tonnage)	-15	-139	-84	-90	-149	-166	-504
Watermelon	Expected Tonnage for domestic market	147	111	476	363	10	0	996
	Average Domestic Demand (2018/19)	154	154	154	154	154	154	770
	Surplus / shortage (Tonnage)	-7	-44	322	209	-144	-154	226
Sweet melon	Expected Tonnage for domestic market	85	0	150	100	5	0	340
	Average Domestic Demand (2018/19)	78	78	78	78	78	78	390
	Surplus / shortage (Tonnage)	7	-78	72	22	-73	-78	-50
Lettuce	Expected Tonnage for domestic market	53	55	73	68	68	68	328
	Average Domestic Demand (2018/19)	39	39	39	39	39	39	195
	Surplus / shortage (Tonnage)	14	16	34	29	29	29	133

Source: NAB 2021

GRAPHICAL ANALYSIS

Figure 3,4, 6 and 7 shows that there will be sufficient local supply for Beetroots, English Cucumber, Watermelon and Sweet melon for the forecasted period as illustrated in the figures below.



Graphical analysis continues.....



Figure 5: SWEET POTATO production forecast for the period
01 Feb 2021 - 30 Jun 2021

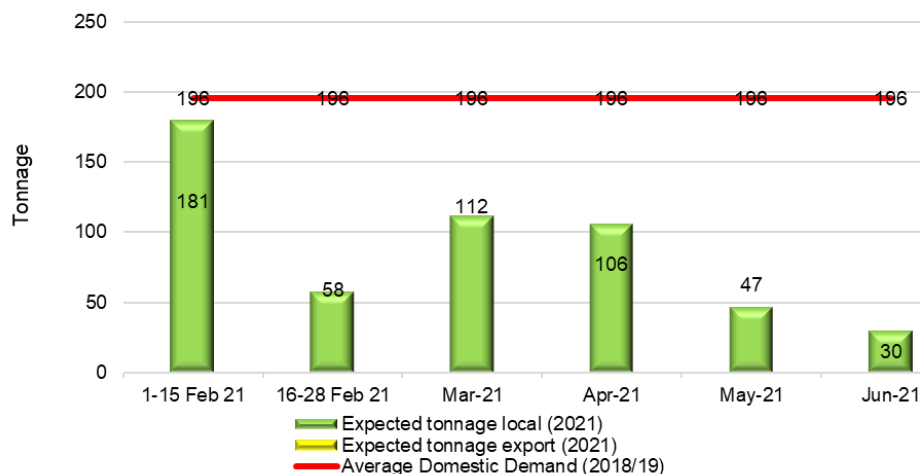


Figure 6: WATERMELON production forecast for the period
01 Feb 2021 - 30 Jun 2021

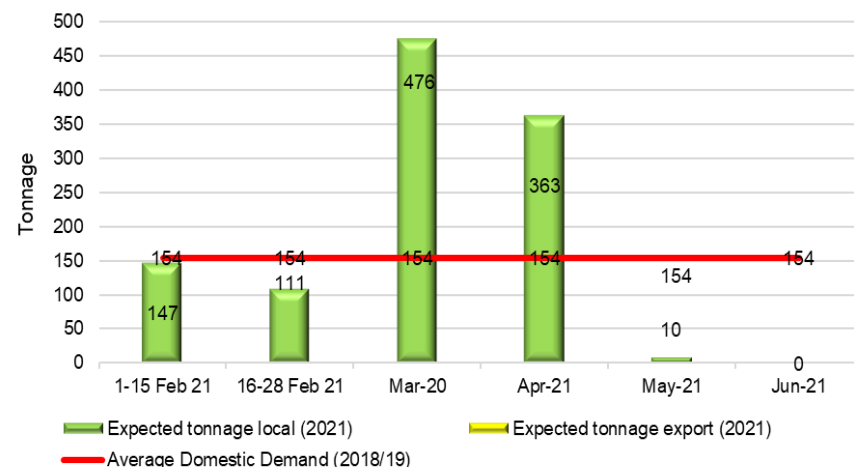


Figure 7: SWEET MELON production forecast for the period
01 Jan 2021 - 30 Jun 2021

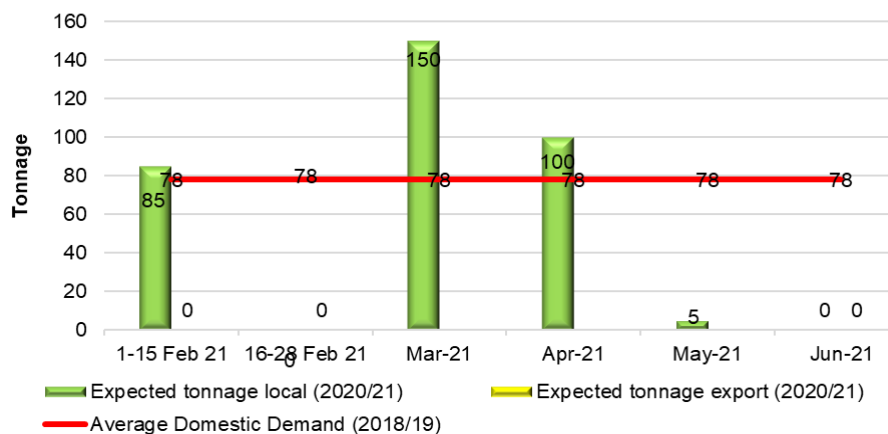
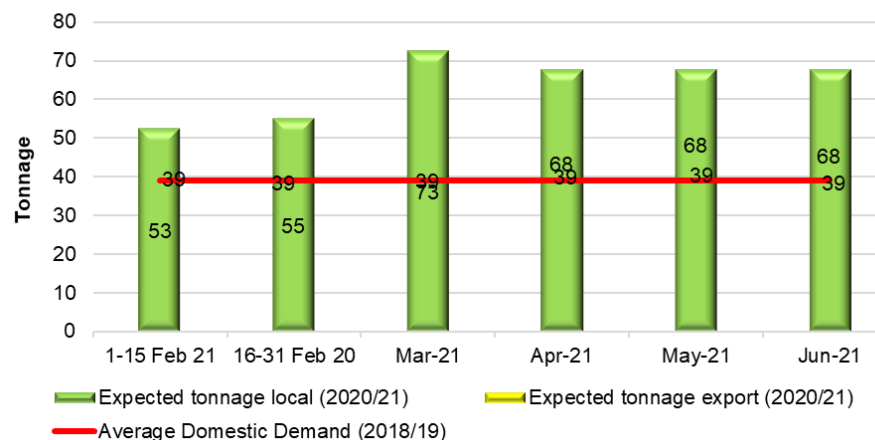


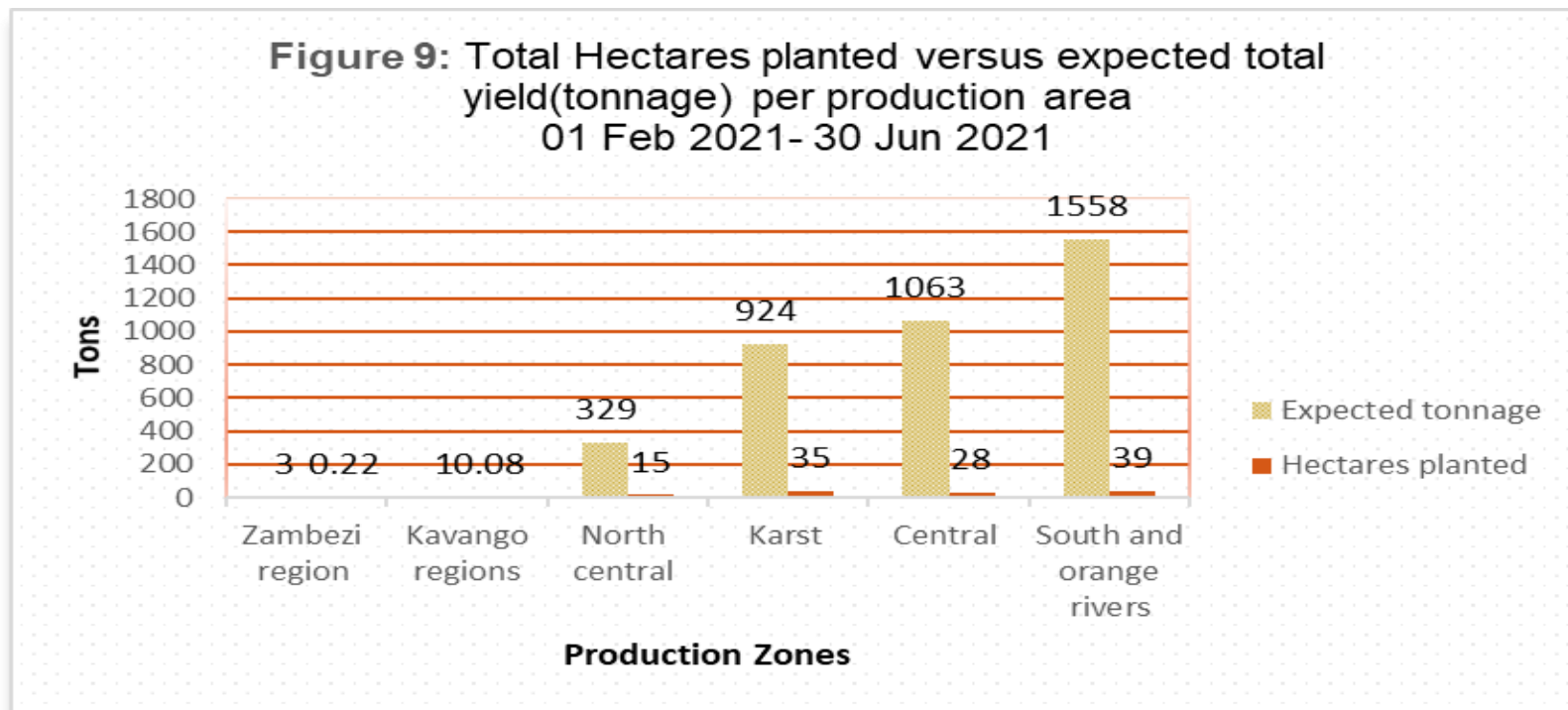
Figure 8: LETTUCE production forecast for the period
01 Feb 2021 - 30 Jun 2021



Source: NAB 2021

5. HECTARERS PLANTED AND EXPECTED YIELD PER PRODUCTION AREA

Figure 9, below indicate the number of hectares planted and tonnage expected per production zone. The graph indicates that South and Orange production zones planted a large number of hectares (39 ha) thus high tonnage (1558 tons) is expected from these production zones, however the producer could have planted more but most of the farmers are affected by the heavy rain received in January in these areas. Kavango recorded the lowest number of hectares (0.08) planted for the crops covered by Report 3 thus the expected tons (1) are also very low as well.



Source: NAB 2020

6. HECTARES PLANTED AND AVERAGE YIELD PER CROP

According to figure 10 and 11, Watermelon makes up the biggest hectares planted i.e. 43 ha for watermelon, and the lowest hectares planted is for Lettuce i.e.17 ha. In terms of the expected average yield per hectare, is not comparable because it varies from crop to crop.

Figure 10: Hectares expected to be harvested per crop for the period 01 Feb 2021 - 30 Jun 2021

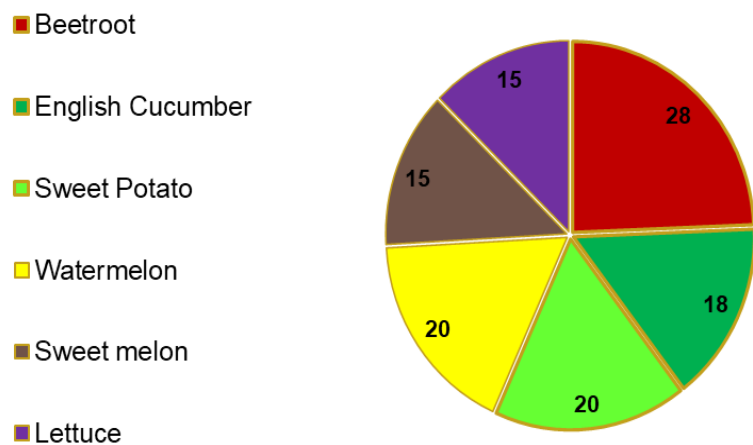
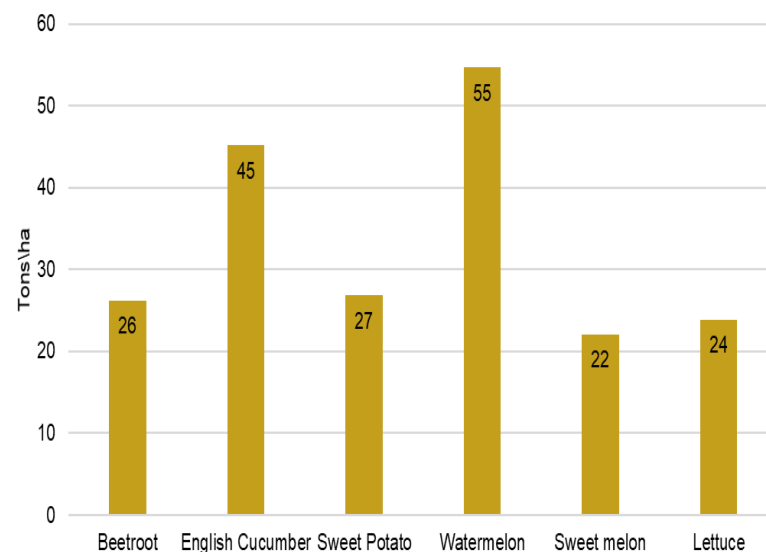


Figure 11: Average yield per hectare and per crop for the period 01 Feb 2021 - 30 Jun 2021



Source: NAB 2020

7. CONCLUSION and RECOMENDATIONS

The report clearly indicates that there will be sufficient local supply of English Cucumber, Beetroots for the special permit period, whereas Watermelon, and Sweet melon will be only sufficient in the first two weeks. **(refer to table 3, figure 3 and figure 5)**. Therefore, import restriction will be implemented for Beetroot, lettuce (iceberg) and English cucumber. In addition, borders will be closed for watermelon and sweet melon during the first two weeks, while Sweet Potatoes will be open on pro rata basis of 30:70 (30 imports, and 70 local) for the special import permit period 1-28 February 2021. Further import restriction/removal of restriction will be implemented during the reporting period; however, this will be based on updated production data from the producers. Therefore, producers are encouraged to immediately notify NAB in case of deviations from their 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 to arrange for their local purchases to boost their MSP count.

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