

HORTICULTURE: VEGETABLES PRODUCTION FORECAST

REPORT NO 3

FORECASTED PERIOD:

01 MARCH 2021 TO 30 JULY 2021

Agronomy and Horticulture Market Development Division Horticulture Market Development Subdivision Enquiries: Ms. Selma Uahengo Cell: +264 812265234 Email: Selma.Uahengo@nab.com.na

1. INTRODUCTION

Report no. 3, covers the local production forecast for the <u>five special controlled products</u> 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. 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.

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.
Lettuce	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 colour and shape.

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

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									port ma	arket	L	.ast updat	ed: 18 Feb :	2021
PRODUCTION	CROPS	1-15 M	ar 21	16-31	Mar 21	Apr-21		May-21		Jun-21		Jul-21		Total (for	the 5 months period)
AREAS		Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Yield	Ha to be harvested
	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
ZAMBEZI	Sweet Potatoes	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.20
	Watermelon	0.0	0.0	0.0	0.0	0.0	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
	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
KAVANGO	Sweet Potatoes	0.0	0.0	44.5	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.00	0.25
KAVANGO	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.01
	Beetroot	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	1.02
	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
NORTH	Sweet Potatoes	104.4	0.0	14.0	0.0	97.0	0.0	86.5	0.0	29.0	0.0	14.0	0.0	375.40	19.02
CENTRAL	Watermelon	3.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.00	0.35
	Sweetmelon	3.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	11.00	0.80
	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

Table 1. continues....

	Beetroot	65.5	0.0	62.5	0.0	125.0	0.0	125.0	0.0	125.0	0.0	125.0	0.0	628.00	25.10
	English Cucumbers	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.75	0.03
KARSTLAND	Sweet Potatoes	0.0	0.0	14.0	0.0	0.0	0.0	20.0	0.0	20.0	0.0	0.0	0.0	54.00	2.70
KARSILAND	Watermelon	0.0	0.0	0.0	0.0	35.5	0.0	0.0	0.0	60.0	0.0	0.0	0.0	95.50	2.00
	Sweetmelon	0.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.00	0.50
	Lettuce	30.0	0.0	25.0	0.0	25.0	0.0	25.0	0.0	25.0	0.0	25.0	0.0	155.50	5.25
	Beetroot	18.4	0.0	22.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	122.40	3.57
	English Cucumbers	88.0	0.0	100.1	0.0	159.5	0.0	149.5	0.0	164.5	0.0	146.5	0.0	808.10	18.89
CENTRAL	Sweet Potatoes	0.0	0.0	0.0	0.0	30.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	60.00	2.00
CENTIVAL	Watermelon	0.0	0.0	0.0	0.0	129.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	139.00	4.35
	Sweetmelon	0.0	0.0	0.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.00	1.00
	Lettuce	40.0	0.0	30.0	0.0	70.0	0.0	70.0	0.0	70.0	0.0	70.0	0.0	330.00	13.00
	Beetroot	0.0	0.0	20.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.00	1.00
	English Cucumbers	35.0	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
SOUTH AND	Sweet Potatoes	30.0	0.0	45.0	0.0	45.0	0.0	45.0	0.0	15.0	0.0	30.0	0.0	210.00	6.00
ORANGE RIVER	Watermelon	65.0	0.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.00	6.00
	Sweetmelon	65.0	0.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.00	4.00
	Lettuce	0.0	0.0	0.0	0.0	18.8	0.0	18.8	0.0	18.8	0.0	18.8	0.0	75.00	3.00
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	Beetroot	93.9	0.0	104.5	0.0	140.0	0.0	129.0	0.0	125.0	0.0	125.0	0.0	795.40	30.69
Total expected	English Cucumbers	123.3	0.0	100.1	0.0	159.8	0.0	149.8	0.0	164.5	0.0	146.5	0.0	808.85	18.92
production per	Sweet Potatoes	134.4	0.0	103.5	0.0	179.0	0.0	181.5	0.0	64.0	0.0	44.0	0.0	706.40	30.17
crop per month	Watermelon	68.0	0.0	65.0	0.0	174.5	0.0	10.0	0.0	60.0	0.0	0.0	0.0	377.50	12.70
	Sweetmelon	68.0	0.0	65.0	0.0	55.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	191.00	6.30
	Lettuce	70.0	0.0	55.2	0.0	113.8	0.0	113.8	0.0	113.8	0.0	113.8	0.0	410.68	21.26

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	ENG	GLISH	I CUC	CUME	BER	1	SV	VEET	PO	ΓΑΤΟ	5		WA	ATER	RMEL	ON	۹	S	WEE	тм	ELON	16		LE	TTU	CE 🥤	6										
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NAME OF PRODUCER	I f F o o r r m m a a I I	E x p o r t	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	Beetroot	English Cucumber	Sweet Potato	Watermelon	Sweet melon	Lettuce
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9 Georg Eugene	\checkmark	\checkmark																				Π	
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Source: NAB 2020

4. EXPECTED PRODUCTION AND DEMAND ANNALYSIS

4.1 TABULATION ANALYSIS OF DOMESTIC DEMAND

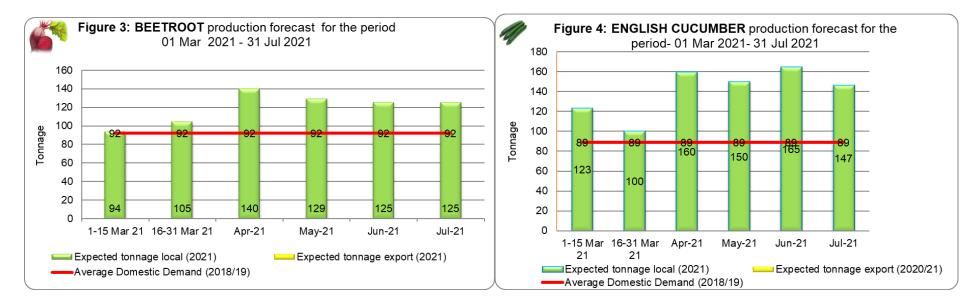
According to table 3, sufficient local supply of Beetroot, English Cucumber is expected during the forecasted period, while, insufficient supply of Sweet Melon, Watermelon, Sweet potatoes is expected during the forecasted period.

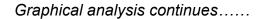
Table 3: Analysis of	the total expected tonnage for domestic n	narket ve	rsus don	nestic de	mand.			
Numbers in this	s table represents tonnage expected to harves			oort mark	et L	ast updated	l: 19 Feb	2021
Crops	Expected Surplus or Shortage	1-15 Mar 21	16-31 Mar 21	Apr-21	May-21	Jun-21	Jul-21	Total
	Expected Tonnage for domestic market	94	105	140	129	125	125	613
Beetroot	Average Domestic Demand (2018/19)	92	92	92	92	92	92	460
	Surplus / <mark>shortage</mark> (Tonnage)	2	13	48	37	33	33	153
	Expected Tonnage for domestic market	123	100	160	150	165	147	744
English Cucumber	Average Domestic Demand (2018/19)	89	89	89	89	89	89	445
	Surplus / <mark>shortage</mark> (Tonnage)	34	11	71	61	76	58	299
	Expected Tonnage for domestic market	134	104	179	182	64	44	603
Sweet Potato	Average Domestic Demand (2018/19)	196	196	196	196	196	196	980
	Surplus / shortage (Tonnage)	-62	-93	-17	-15	-132	-152	-377
	Expected Tonnage for domestic market	68	65	175	10	60	0	313
Watermelon	Average Domestic Demand (2018/19)	154	154	154	154	154	154	770
	Surplus / <mark>shortage</mark> (Tonnage)	-86	-89	21	-144	-94	-154	-458
	Expected Tonnage for domestic market	68	65	55	0	3	0	126
Sweet melon	Average Domestic Demand (2018/19)	78	78	78	78	78	78	390
	Surplus / <mark>shortage</mark> (Tonnage)	-10	-13	-23	-78	-75	-78	-264
	Expected Tonnage for domestic market	70	55	114	114	114	114	525
Lettuce	Average Domestic Demand (2018/19)	39	39	39	39	39	39	195
	Surplus / <mark>shortage</mark> (Tonnage)	31	16	75	75	75	75	330

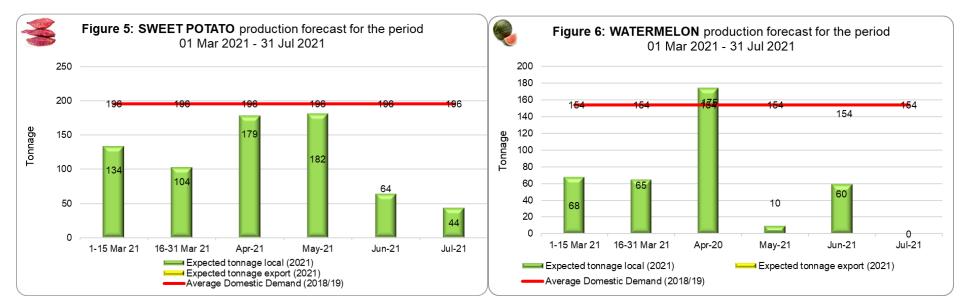
Source: NAB 2020

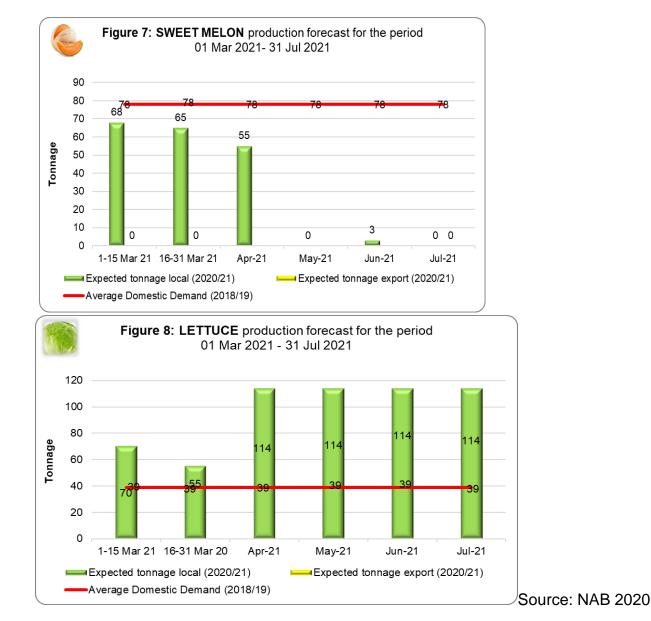
GRAPHICAL ANALYSIS

Figure 3,4 shows that there will be sufficient local supply for Beetroots, English Cucumber, for the forecasted period as illustrated in the figures below. While insufficient supply is expected for Sweetpotatoes, Watermelow, Sweetmelon.



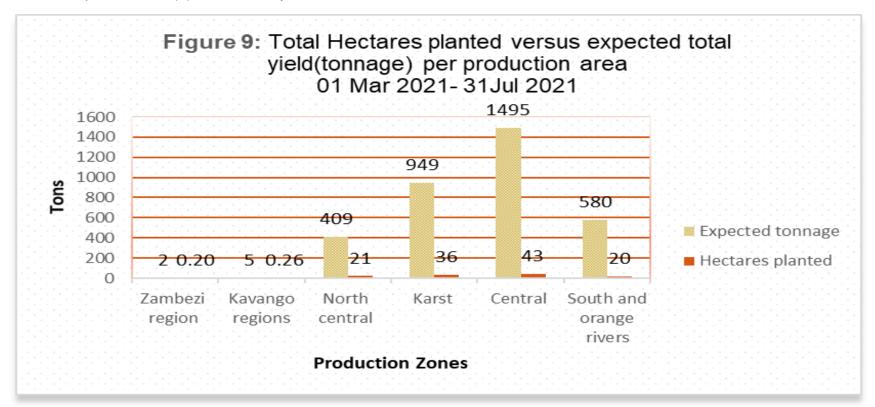






5. HECTARERS PLANTED AND EXPECTED YIELD PER PRODUCTION AREA

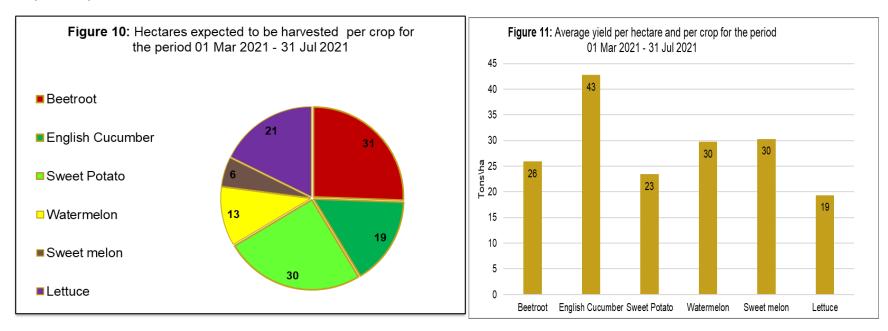
Figure 9, below indicate the number of hectares planted and tonnage expected per production zone. The graph indicates that Central production zones planted a large number of hectares (43 ha) thus high tonnage (1495 tons) is expected from this production zones. Zambezi recorded the lowest number of hectares (0.2) planted for the crops covered by Report 3 thus the expected tons (2) are also very low as well.



Source: NAB 2020

6. HECTARES PLANTED AND AVERAGE YIELD PER CROP

According to figure 10 and 11, Beetroots makes up the biggest hectares planted i.e. 31 ha, and the lowest hectares planted is for Sweet melon i.e.6 ha. In terms of the expected average yield per hectare, is not comparable because it varies from crop to crop.



Source: NAB 2020

7. CONCLUSION and RECOMENDATIONS

The report clear indicates that there will be sufficient local supply of English Cucumber and Beetroots (refer to table 3, figure 3 and figure 4). Therefore, import restriction will be implemented for Beetroot and English cucumber. Sweet Potatoes and Lettuce will be open on pro rata basis (30% imports and 70% local) Water melon and Sweet melon (50% local 50% import) for the <u>special import permit period 1-31 March 2021</u>. Further import 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.

Traders are encouraged to contact the local producers to arrange for their local purchases in order to consistently achieve their minimum MSP requirement (47%).