











NAMIBIAN AGRONOMIC BOARD

Butternuts Cabbage

Gem Squash Onions

Potatoes

toes Pumpkins

HORTICULTURE: VEGETABLE PRODUCTION FORECAST

REPORT NO. 1

FORECASTED PERIOD:

01 APRIL TO 31 AUGUST 2021

${\bf Agronomy\ and\ Horticulture\ Market\ Development\ Division}$

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. 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 involves sub-product type of special controlled products that does not form part of the special controlled product scheme and can be imported using the mixed fruits and vegetable import permit. The objective of the special controlled product scheme is to stimulate local production of horticultural products in Namibia, as a growth at home strategy implemented by the NAB. Thus, this report discusses the production forecast per production area (table 2), availability of the expected crops per producer (table 3), tabulation (table 4) and graphical (figure 1 to 6) analysis for the expected production versus local demand for this reporting period.

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		Zebra Butternut and Baby Butternut. All frozen, dried, cooked and preserved Butternuts (Whole or Cut).
2. Cabbage	Cut Green Cabbage, except the "Exclusions".	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".	All frozen, dried, cooked and preserved Gem Squash (Whole or Cut).
4. Onions		White Salad Onions and Red Onions. All frozen, dried, cooked and preserved Onions (Whole or Cut).
5. Potatoes	TAILIVINES SIZE ATATIOS SIAN CONISIDEL SIZES OF ITEST. COUREA AVIDAR OF	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 frozen, dried, cooked and preserved pumpkin. All decorative types of pumpkin.

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 ^oC without the products being frozen.

Cooked: Refers to fruit and vegetables that are cooked by steaming or boiling in water, either whole or in pieces/cuts.

Preserved: Refers to fresh fruit and vegetables soaked in brine or vinegar, or other liquids, either whole or in pieces/cuts.

2. PRODUCTION FORECAST PER AREA

Tables 2 below shows the total expected tonnage, yield and hectares of crops to be harvested during this reporting period.

	Table 2	2: FIVE MOI	NTHS EXPE	CTED PRO	DUCTION	N PER CR	OP, PER	R AREA F	OR THE F	PERIOD: (01 April to	31 Augu	st 2021	
Numbers in the t	able below repr	esents toni	nage										Last update	ed: 18 March 2021
PRODUCTION	Special controlled and		Apr-21		May	/-21	Jur	า-21	Jul	-21	Aug	g-21	Total (for the	ne 5 months period)
AREAS	monitored crops	01-15 Apr 21 Local	16-30 Apr 21 Local	01-30 Apr 21 Export	Local	Export	Local	Export	Local	Export	Local	Export	Yield	Ha to be harvested
	Butternuts	1.27	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.06
	Cabbage	6.29	8.93	0.00	5.95	0.00	0.00	0.00	1.53	0.00	0.00	0.00	22.70	0.53
ZAMBEZI REGION	Gem squash	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Onions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pumpkins	20.40	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.80	2.00
	Butternuts	2.55	2.55	0.00	0.00	0.00	12.75	0.00	0.00	0.00	0.00	0.00	17.85	1.17
	Cabbage	0.00	1.70	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.75	0.25
KAVANGO	Gem squash	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REGIONS	Onions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Potatoes	365.50	361.25	0.00	733.45	0.00	0.00	0.00	510.00	0.00	0.00	0.00	1970.20	45.30
	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
	Butternuts	48.03	32.73	0.00	81.86	0.00	3.40	0.00	0.00	0.00	0.00	0.00	166.01	9.53
	Cabbage	18.70	31.45	0.00	56.95	0.00	25.50	0.00	0.00	0.00	0.00	0.00	132.60	3.73
NORTH CENTRAL	Gem squash	0.00	8.50	0.00	21.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.75	1.75
	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	4.25	1.70	0.00	7.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.60	0.80
	Butternuts	44.20	52.70	0.00	39.95	0.00	55.25	0.00	0.00	0.00	0.00	0.00	192.10	11.10
	Cabbage	28.05	54.40	0.00	112.20	0.00	135.15	0.00	58.65	0.00	37.40	0.00	425.85	10.80
KARSTLAND	Gem squash	4.25	5.10	0.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.75	0.75
	Onions	0.00	0.00	0.00	535.50	0.00	901.00	692.75	518.50	178.50	637.50	263.50	3727.25	84.20
	Potatoes	0.00	344.25	0.00	1093.95	0.00	382.50	0.00	1487.50		289.00	51.00	3911.70	107.50
	Pumpkins	8.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	1.00
	Butternuts	11.90	28.90	0.00	12.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.55	2.05
	Cabbage	49.73	75.65	0.00	59.50	0.00	38.25	0.00	38.25	0.00	38.25	0.00	299.63	8.15
CENTRAL	Gem squash	0.00	0.00	0.00	7.65	0.00	25.50	0.00	0.00	0.00	0.00	0.00	33.15	1.30
	Onions	0.00	0.00	0.00	15.30	0.00	483.65	391.00	548.25	357.00	786.25	633.25	3214.70	72.15
	Potatoes	34.00	29.75	0.00	901.00	0.00	531.25	0.00	0.00	0.00	0.00	0.00	1496.00	45.20
	Pumpkins	10.20	10.20	0.00	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.20	1.85
	Butternuts	41.65 46.75	41.65 72.25	0.00	163.63	32.13	149.77	32.13 38.25	120.02	32.13 38.25	88.57 0.00	32.13	733.81	26.36 12.50
SOUTH AND	Cabbage	10.63	10.63	0.00	174.25 12.75	0.00	140.25	22.95	46.75 2.55	22.95	2.55	0.00 22.95	556.75 110.50	4.35
ORANGE RIVER	Gem squash Onions						2.55 66.30		63.75		29.75		159.80	4.35 5.10
	Onions Pumpkins	0.00	0.00 4.25	0.00	0.00 59.50	0.00	12.75	0.00	0.00	0.00	0.00	0.00	76.50	3.00
	Butternuts Cabbage	150 150	159 244	0	298 420	32 0	221 339	32 38	120 145	32 38	89 76	32 0	1165 1450	50 36
Total expected				•		•						_		
production	Gem Squash	15	24	0	45	0	28	23	3	23	3	23	186	8
tonnage per crop per month	Onions	0	0 705	0	551	0	1385	1084	1067	536	1424	897	6942	156
per month	Potatoes	400	735	0	2728	0	914	0	1998	264	289	51	7378	198
	Pumpkins	43	45	0	108	0	13	0	0	0	0	0	209	9

Source: NAB, 2021

3. AVAILABILITY OF THE EXPECTED CROPS PER PRODUCERS

Table 3 shows availability of the expected special controlled crops per area, per producer. This table further shows that during this reporting period, butternuts are expected to be available in all production areas. Traders are advised to contact these producers to arrange and place their orders on time to avoid delays.

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	Contact Person	Local informal	Local Formal	Export	Butternuts	Cabbage	Gem Squash	Potatoes	Pumpkins	Butternuts	Cabbage	Gem Squash	Onions	Pumpkins	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Pumpkins	Cabbage	Gem Squash	Onions	Potatoes	Pumpkins	Butternuts	Cabbage	Gem Squash	Onions	Potatoes	Pumpkins	Butternuts	Cabbage	Gem Squash	Onions	Potatoes Pumpkins		
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2	Cavin Sikalumba	√	\checkmark																							4												
3	Clemens Makumbi	\checkmark	\checkmark							1	0																											
4	Kamwi Lubanda																																					
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7	Micheal Mutabelezi								(A)																													
KAV	'ANGO												-						,						•													
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4	Lourens Le Grange							0)				0						9											9								
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6	Ughvungu Vungu GSIP (Ponty)	\checkmark	\checkmark																		@																	
NOF	RTH CENTRAL																																					
1	Abisai Amashili	\checkmark	\checkmark																																			
2	Akathigo Kapuka	√	√																0																			
3	Andreas Ashimbanga	$\sqrt{}$	$\sqrt{}$							1		•																										
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5	Elifas Nuuyoma	\checkmark	V							1																												
6	Elkan Mangundu	$\sqrt{}$	$\sqrt{}$		-0					-																												
7	Emily Naunyango	$\sqrt{}$	$\sqrt{}$		-0					-																												
8	Epafras Hilengwa	√	√																		0)																
9	Erastus Mumbala	√	√																																			
10	Etunda GSIP (Small & medium)	$\sqrt{}$	$\sqrt{}$		-0	0					0)																											
11	Etunda GSIP (Commercial)	V	V								0)																											

Table 3 continues...

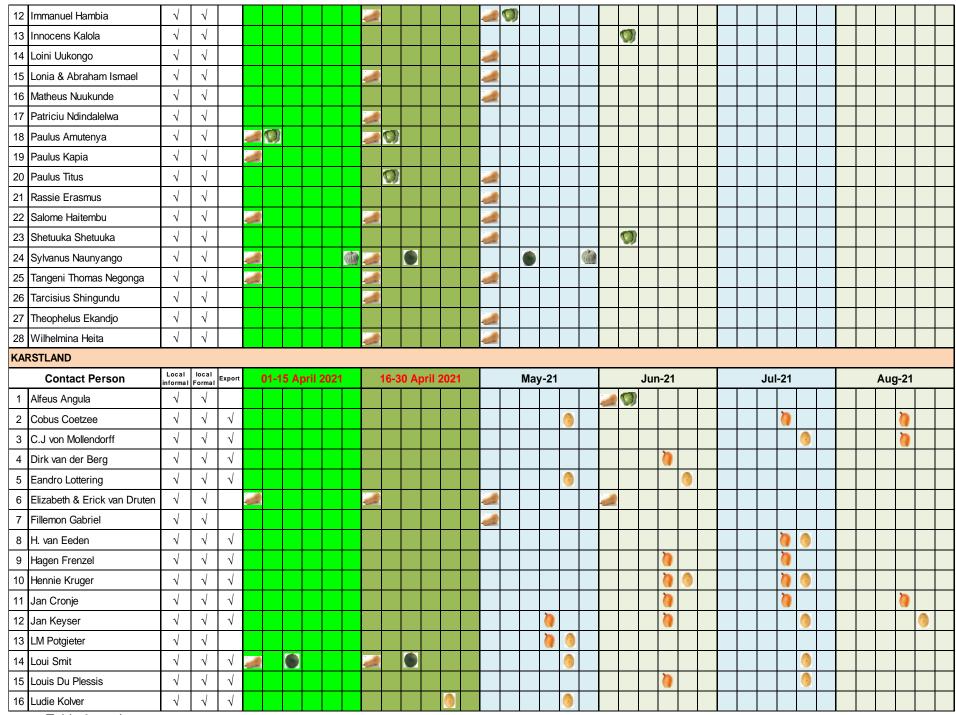


Table 3 continues...

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NAME OF PRODUCER	Local informal	local Formal	Export		01-1	5 Ap	pril 2	2021		10	6-30	Apr	il 202	:1		M	ay-	21				Jun-	21					Jul-	21				Α	ug-2	1	
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Johannes M. van Helsdingen	$\sqrt{}$																																			
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Table 3 continues...

SO	UTH AND ORANGE RIVER	-		-					-							-		-	-											
1	NAME OF PRODUCER	Local informal	local Formal	Export		01-1	5 Ap	ril 2021		16-3	0 A	pril 2	021		May-	21				Ju	n-21			Ju	I-21			Aug	-21	
1	Abe Olivier	\checkmark	√	√																										
2	Burger J. Harmse				1								(0													
3	Fanie Louw	$\sqrt{}$	√														9													
4	G.F. Janse van Rensburg					0				0										}										
5	Hendrik Berg	\checkmark	√															4	9											
6	Hentie van Dyk	$\sqrt{}$	√																											
7	Herman van Dyk	\checkmark	√																											
8	Jean Roux	\checkmark	√															4		}										
9	Jimmy O kennedy	$\sqrt{}$	√											-																
10	Johan Roux	$\sqrt{}$	√							0										}										
11	Loius Louw	$\sqrt{}$	√																											
12	Nico van Derwe	$\sqrt{}$	√																0											
13	Rudi Kotze	$\sqrt{}$	√		1												9													
14	Theresia Kisting	\checkmark	√											1																
15	Zirk Jansen	V	$\sqrt{}$																											

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, Hannes Arangies, Hansie van der Merwe, Jan Keyser and Loui Smit in the Karst while in central there is Ludie Kolver and Etienne Jooste. All other producers supplies unwashed or brushed potatoes

Source: NAB, 2021

4. EXPECTED PRODUCTION VS DEMAND ANALYSIS

4.1 TABULATION ANALYSIS

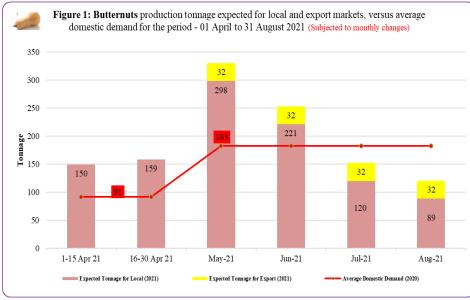
Table 4 below reveals that, the total tonnage expected for butternuts and pumpkins will be sufficient to satisfy the domestic demand in April and May 2021. Table 4 further shows that; cabbage and gem squash are expected to be insufficient in the first two weeks of April while onions and potatoes are expected to be insufficient throughout April and May 2021.

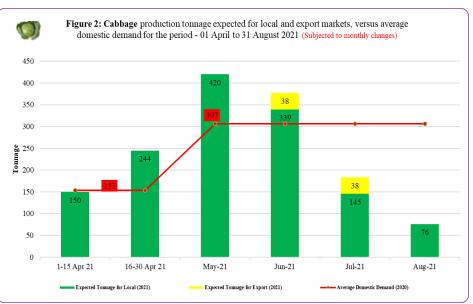
Table 4: ANA	LYSIS OF THE EXPECTED TONNA	GE FOR DC	MESTIC MA	ARKET VER	SUS AVER	AGE DOME	STIC DEMA	ND
Numbers in	this table represents tonnage				L	ast updated:	18 March 2	021
Special Controlled Crops	Expected Surplus or Shortage	01-15 April 21	16-30 April 21	May-21	Jun-21	Jul-21	Aug-21	Total
	Expected for domestic market	150	159	298	221	120	89	887
Butternuts	Average domestic demand	91	91	183	183	183	183	822
	Surplus / shortage	58	67	116	38	-63	-94	65
	Expected for domestic market	150	244	420	339	145	76	1224
Cabbage	Average domestic demand	153	153	307	307	307	307	1379
	Surplus / shortage	-4	91	113	33	-161	-231	-155
	Expected for domestic market	15	24	45	28	3	3	102
Gem Squash	Average domestic demand	19	19	38	38	38	38	170
	Surplus / shortage	-4	5	7	-10	-35	-35	-68
	Expected for domestic market	0	0	551	1385	1067	1424	4426
Onions	Average domestic demand	473	473	945	945	945	945	4254
	Surplus / shortage	-473	-473	-394	439	122	479	172
	Expected for domestic market	400	735	2728	914	1998	289	6664
Potatoes	Average domestic demand	2,055	2055	4110	4110	4110	4110	18496
	Surplus / shortage	-1656	-1320	-1382	-3196	-2113	-3821	-11832
	Expected for domestic market	43	45	108	13	0	0	209
Pumpkins	Average domestic demand	33	33	66	66	66	66	328
	Surplus / shortage	11	12	42	-53	-66	-66	-119

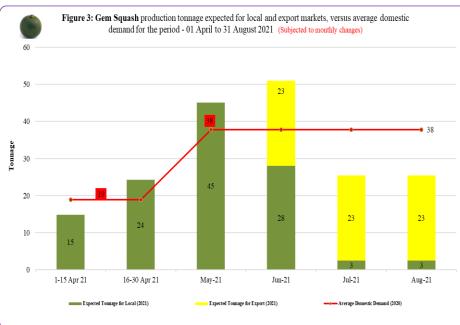
Source: NAB, 2021

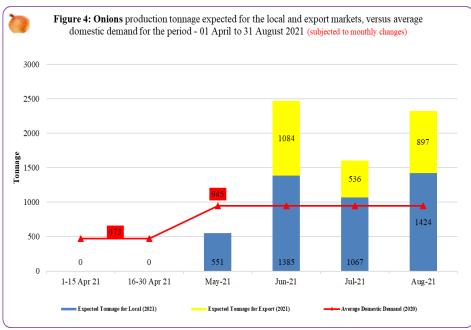
4.2 GRAPHICAL ANALYSIS

Graphical analysis determines the domestic production tonnage expected for the local and export markets as well as the average domestic demand. Figure 1 and 6 below shows that the projected production tonnage for butternuts and pumpkins reserved for local market is expected to be sufficient in April to May 2021. However, figure 2 and 3 indicate that the country expects a shortage of cabbage and gem squash in the first two weeks of April while figure 4 and 5 shows that onions and potatoes are expected to be insufficient in April to May given that the average domestic demand is above the local expected tonnage.

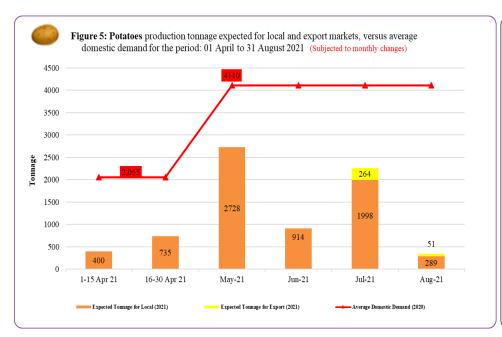




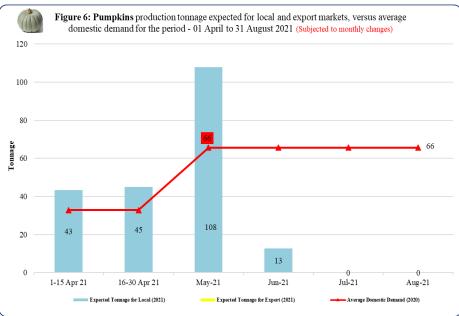




Graphical analysis figures continue...



cropping program or in the event of crop failure due to factors beyond their control.



5. CONCLUSIONS AND RECOMMENDATIONS

The report concluded that, there will be sufficient local supply of butternuts and pumpkins in April 2021 and it is recommended that the borders be closed to restrict the importation of these two crops as from 01 to 30 April 2021. Furthermore, the report revealed that the country expects a slight shortage of cabbage and gem squash in the first two weeks of April hence it is recommended that the borders be opened on pro-rate base, thus only allow 30% import while the other 70% be sourced locally as from the 01 to 15 April 2021. Additionally, the country expects a shortage of onions and potatoes throughout April and May months since the average domestic demand is expected to be above the local expected tonnage. This implies that the borders be opened to allow registered Traders to import, onions and washed potatoes in order to satisfy their local customers' demand.

Traders are advised to contact registered Producers who are expected to harvest these products as per the availability calendar (table 3) in this report, to make necessary arrangements for their local purchases and ensure compliance to the Market Share Promotion requirements. All vegetable Producers are encouraged to provide/send their production data to the Horticulture Market Development sub-division within NAB every month in order to ensure that all local vegetable production data are recorded. These data are very crucial as it helps NAB to make informed and right decisions with regards to the opening and closing of borders to either allow or restrict importation of vegetables whenever there is a local supply shortage or surplus respectively. Producers are further advised to immediately notify NAB in case of deviations from the

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