

HORTICULTURE: PRODUCT PRODUCTION FORECAST

REPORT NO.2

FORECASTED PERIOD: 01 MARCH 2021 TO 31 JULY 2021

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1. INTRODUCTION

Report no. 2, covers the local production forecast for the four special controlled products i.e. **Tomato (Round & Jam), Green Pepper, Carrot, Pumpkin and Sweetcorn** as well as the Three monitored crops i.e. **Spinach, Mushroom and Coloured Pepper**. 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 into 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 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 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.

Product	Inclusions	Exclusions
1.Tomato	Tomatoes Round (Round shaped, red/partially red colour).	All Small size type of tomatoes, i.e. Cherry, Cocktail, Bacio, Romanita,
	Tomatoes Jam (Oval shaped, red / partially red colour), except	Rigoleto, and Medley mix, etc. All colours.
	the "Exclusions".	
2.Green Pepper	All size groups and container size of Green Pepper, except the	Red Pepper, Yellow Pepper, and Orange Pepper, Peppers mix, etc.
	"Exclusions".	
3. Carrot	All size groups and container sizes of Orange fleshed Carrots as	Red, Purple, White, Black, and Yellow Fleshed Carrots.
	well as catering Orange Carrots full size or broken, except the	
	"Exclusions"Red, Purple, White, Black, and Yellow Fleshed	
	Carrots. 3. Pumpkins - All types.	
4. Pumpkin	All types, size groups and container size of fresh/chilled whole	All frozen, prepared or preserved pumpkins.
	or cut pumpkins, except "Exclusions"	
5. Sweet Corn	All types, size groups and container size of fresh/ chilled and	White and Mixed Colour Sweetcorn.
	whole or cut Red Fleshed and Yellow Fleshed except the	All Frozen, dried, cooked and preserved.
	"Exclusions"	Sweetcorn (Whole or Cut) of any colour.

Table 1A: 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 FORECAST PER AREA

Table 1: revealed that, Carrots, tomatoes round, and Pumpkins are the top commodities with high expected tonnages during the reporting period. Also, Karst area is leading in Jam tomato production, followed by Central area. Detailed information for expected production per crop per production zone are shown in the Table 1 below.

		Table 1A	EXPECTE	D PRODU	CTION OF	SPECIAL	CONTROL	LED PROD	UCTS PER	CROP PE	R AREA				
					Num	bers in th	e table be	low repre	esents ton	nage					
		01-15	Mar 21	16-31	Mar 21	Ар	r-21	Ma	y-21	Jur	n-21	Jul	-21	Tota	ls
PRODUCTION AREA	CROP	Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Expected tonnage	Hectares planted
	Tomato Round	1.6	0.0	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.1
	Tomato Jam	1.6	0.0	0.9	0.0	0.7	0.0	1.7	0.0	1.6	0.0	1.5	0.0	7.9	0.2
ZAMBEZI	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	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2
	Pumpkin	0.0	0.0	0.0	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0	1.1
	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
	Tomato Round	0.0	0.0	3.9	0.0	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.9
	Tomato Jam	6.5	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.5
KAVANGO	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	0.0	0.0	0.5	0.0	2.9	0.0	4.0	0.0	1.1	0.0	1.1	0.0	9.8	0.6
	Pumpkin	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.3
	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
	Tomato Round	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
	Tomato Jam	10.4	0.0	45.3	0.0	122.3	0.0	68.3	0.0	8.8	0.0	0.0	0.0	255.1	8.8
NORTH CENTRAL	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	8.4	0.0	8.6	0.0	18.1	0.0	16.3	0.0	4.4	0.0	0.4	0.0	56.2	2.2
	Pumpkin	0.0	0.0	0.0	0.0	2.2	0.0	4.0	0.0	0.0	0.0	0.0	0.0	6.2	0.3
	Sweet Corn	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.1

Table 1 continued

	Sweet Corn	7.19	0	7.19	0	14	0	8.9	0	7.5	0	7.5	0.0	52.3
	Pumpkin	221.3	0.0	126.3	0.0	80.0	0.0	67.8	0.0	7.5	0.0	7.5	0.0	510.2
per month	Green Pepper	100.2	0.0	106.8	0.0	141.7	0.0	173.2	0.0	84.1	0.0	55.9	0.0	661.8
Total expected per crop	Carrot	479.0	0.0	479.0	0.0	944.0	0.0	908.0	0.0	854.0	0.0	848.0	0.0	4512.0
	Tomato Jam	96.8	0.0	131.8	0.0	226.6	0.0	136.7	0.0	19.0	0.0	6.2	0.0	617.1
	Tomato Round	309.4	0.0	233.1	0.0	378.5	0.0	443.7	0.0	386.9	0.0	362.6	0.0	2114.1
	Sweet Corn	2.5	0.0	2.5	0.0	5.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	11.4
	Pumpkin	20.0	0.0	20.0	0.0	18.8	0.0	56.3	0.0	0.0	0.0	0.0	0.0	115.0
RIVER	Green Pepper	4.4	0.0	5.9	0.0	20.5	0.0	65.7	0.0	36.4	0.0	36.4	0.0	169.2
SOUTH AND ORANGE	Carrot	10.0	0.0	10.0	0.0	15.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	41.0
	Tomato Jam	0.0	0.0	0.7	0.0	1.4	0.0	1.4	0.0	1.4	0.0	0.0	0.0	5.0
	Tomato Round	67.5	0.0	68.6	0.0	34.8	0.0	293.0	0.0	293.0	0.0	290.7	0.0	1047.6
	Sweet Corn	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
	Pumpkin	137.5	0.0	37.5	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	182.5
	Green Pepper	36.6	0.0	36.6	0.0	29.0	0.0	22.3	0.0	8.8	0.0	0.0	0.0	133.3
CENTRAL	Carrot	16.5	0.0	16.5	0.0	54.0	0.0	33.0	0.0	3.0	0.0	3.0	0.0	126.0
	Tomato Jam	10.4	0.0	10.4	0.0	14.2	0.0	12.3	0.0	4.8	0.0	4.8	0.0	56.7
	Tomato Round	136.0	0.0	56.0	0.0	155.5	0.0	60.7	0.0	53.9	0.0	51.9	0.0	513.9
	Sweet Corn	3.8	0.0	3.8	0.0	7.5	0.0	7.5	0.0	7.5	0.0	7.5	0.0	37.5
	Pumpkin	63.8	0.0	63.8	0.0	7.5	0.0	7.5	0.0	7.5	0.0	7.5	0.0	157.5
	Green Pepper	50.3	0.0	54.8	0.0	71.2	0.0	64.9	0.0	33.3	0.0	17.9	0.0	292.5
KARST	Carrot	452.5	0.0	452.5	0.0	875.0	0.0	875.0	0.0	845.0	0.0	845.0	0.0	4345.0
	Tomato Jam	67.9	0.0	67.9	0.0	88.0	0.0	53.0	0.0	2.5	0.0	0.0	0.0	279.4
	Tomato Round	104.3	0.0	104.3	0.0	160.0	0.0	90.0	0.0	40.0	0.0	20.0	0.0	518.7

Table 1 continued

	Table 1	B: EXPEC	TED PROD	UCTION	OF MONIT	ORED PR	ODUCTS P	ER CROP	PER AREA			·	
		Ma	r-21	Арі	r- 21	Ma	y-21	Jun	-21	Jul	-21	Tot	tals
PRODUCTION AREA	CROP	Local	Export	Local	Export	Local	Export	Local	Export	Local	Export		Hectares planted
	Spinach	0.2		0.2		0.0		0.0		0.0		0.4	0.1
ZAMBEZI	Colored Pepper	0.0		0.0		0.0		0.0		0.0		0.0	0.0
	Mushroom	0.0		0.0		0.0		0.0		0.0		0.0	0.0
	Spinach	0.0		0.0		0.0		0.0		0.0		0.0	0.0
KAVANGO	Colored Pepper	0.0		0.0		0.0		0.0		0.0		0.0	0.0
	Mushroom	0.0		0.0		0.0		0.0		0.0		0.0	0.0
	Spinach	0.7		0.7		0.7		0.7		0.6		3.3	1.2
NORTH CENTRAL	Colored Pepper	0.0		0.0		0.0		0.0		0.0		0.0	0.0
	Mushroom	0.0		0.0		0.0		0.0		0.0		0.0	0.0
	Spinach	5.1		5.1		5.2		5.2		5.2		25.6	2.9
KARST	Colored Pepper	4.0		4.0		4.0		4.0		0.0		16.0	0.8
	Mushroom	0.0		0.0		0.0		0.0		0.0		0.0	0.0
	Spinach	18.6		6.7		4.6		1.0		0.0		30.9	4.2
CENTRAL	Colored Pepper	30.6		33.6		30.6		15.0		15.0		124.8	4.0
	Mushroom	8.8		8.8		12.8		12.8		12.8		55.8	0.7
	Spinach	0.0		1.0		1.0		0.0		0.0		2.0	0.2
SOUTH AND ORANGE	Colored Pepper	0.0		0.0		0.0		0.0		0.0		0.0	0.0
RIVER	Mushroom	0.0		0.0		0.0		0.0		0.0		0.0	0.0
Total ownested war	Spinach	24.5	0.0	13.7	0.0	11.4	0.0	6.8	0.0	5.8	0.0	62.2	8.5
Total expected per	Colored Pepper	34.6	0.0	37.6	0.0	34.6	0.0	19.0	0.0	15.0	0.0	140.8	4.8
crop per month	Mushroom	8.8	0.0	8.8	0.0	12.8	0.0	12.8	0.0	12.8	0.0	55.8	0.7

3. EXPECTED AVAILABILITY

Table 2, below indicate active producers that expect to harvest controlled products as well as monitored products listed below. It is worth noting that, there is only two active producers for mushroom countrywide. Indicating a need for farmers, to diversify into mushroom production. Refer to table 2 below for more details.

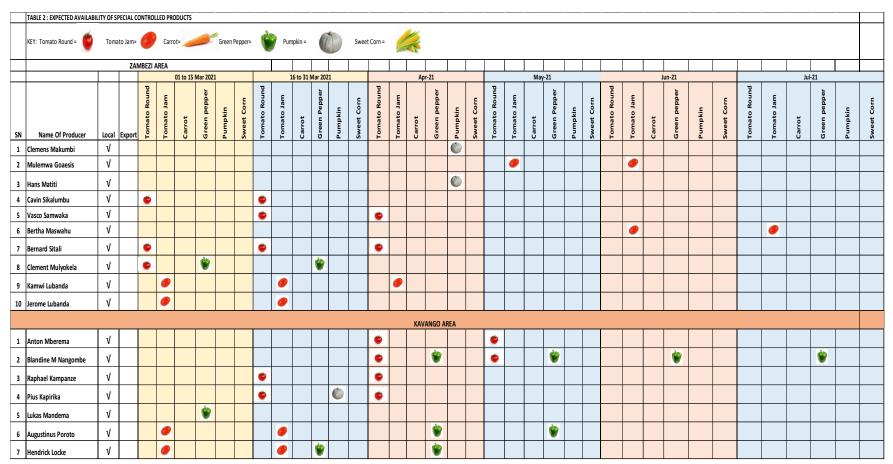
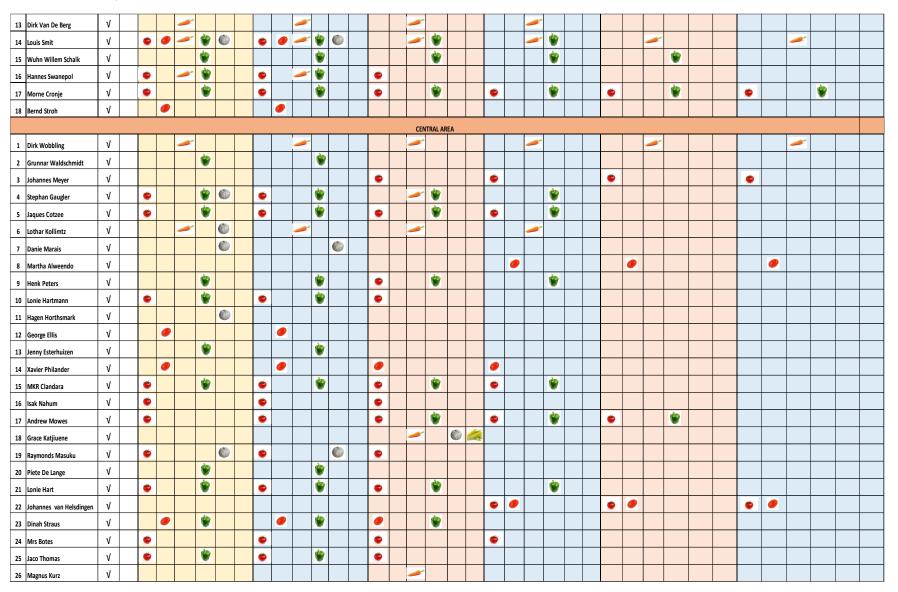


Table 2 continued

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Table 2 continued



													SOUT	TH AND	ORANGE		AREA													
1	Herman Van Dyk	٧																۲				۲					۲			
2	Nico van Derwe	٧																			۲	٩			۲		9		۲	
3	Burge J Harmes	٧														٢														
4	Hoekes Vann Niekerk	٧		۲				۲																						
5	Charl van Rensburg	٧	٧	۲		۲		۲		۲		۲			۲						٩									
6	Rudie Kotze	٧													۲						۲									
7	F Jansen Van Rensburg	٧		۲				۲																						
8	Jean Roux	٧		۲				۲				۲																		
9	Arthur Makhza	٧						۲	0	۲		٩	0		۲			۲	0		-	۲	0							
10	Chris Husmaine	٧																		-										
11	Theresia Kisting	٧																						-						

	TABLE 2 : EXPECTED AVAILABII	ITY OF MO	NITORED C	ROPS														
	KEY: Mushroom =	Spinach=		Colored I	Pepper=		•											
		ZA	MBEZI AR	EA														
					Mar-21			Apr-21			May-21			Jun-21			Jul-21	
SN	Name Of Producer	Local	Export	Mushroom	Spinach	Colored Pepper	Mushroom	Spinach	Colored Pepper	Mushroom	Spinach	Colored Pepper	Mushroom	Spinach	Colored Pepper	Mushroom	Spinach	Colored Pepper
1	Fernando Batista	V																

							NORT	TH CENTR	AL AREA								
1	Willem Ankama	V						A CAR						Ser.		<u> </u>	
2	Rassie Erasmus	V		,				A Contraction						A CAR			
3	Johanna Benjamen	V			Ser.			Ser.						Ares-		4	
	KARST AREA																
1	Theopauline Ruiter	٧		1				Ser.						Ser.		<u> </u>	
2	Louis Smit	٧		2	No.									1.		4	
3	Wuhn Willem Schalk	٧				5			6.0								
4	Hannes Swanepol	V			A.			A Contraction						A Contraction		4	

	-					(REA						
1	Jan Conradie	V	25			25			25		25		25	
2	Grunnar Waldschmidt	V												
3	Anton Koekmoer	V												
4	Lonie Hartmann	V						A CONTRACT						
5	Lucia Conradie	V												
6	Berenice Cronza	V		Star.										
7	Martha Alweendo	V						Se la constante		C.				
8	Wylie V Upi	V												
9	Cornelius C Kuhn	V						Contraction of the second seco						
10	Mendes Chico	V												
11	Jenny Esterhuizen	V			() e			A						
12	Welme Myburen	V												
13	Mrs Botes	V			() +			A A		() ÷				
14	Isak Nahum	V												
15	Dirk Wobbling	V												
	_				S		D ORANG	E RIVER A	REA					
1	Theresia Kisting	V												

EXPECTED PRODUCTION VS DEMAND ANNALYSIS

4.1 TABULATION ANALYSIS

4.

Table 3: Below indicates expected production versus the average domestic demand per crop per month

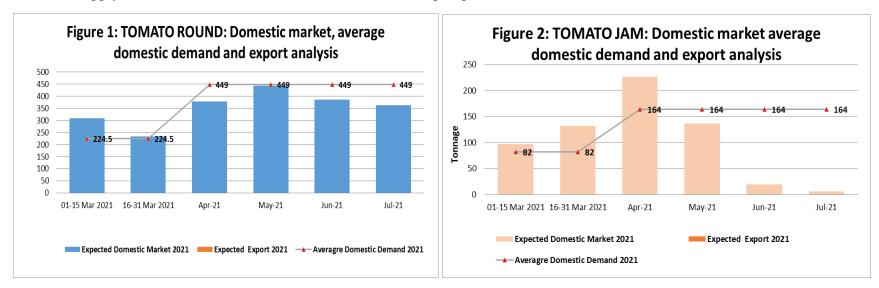
The total tonnage expected for Jam and Round Tomato, Carrot and Pumpkin will be Sufficient, to meet the domestic market demand during the first month of the forecasted period. Whereas Green pepper and Sweetcorn will be in short supply, during the entire permit period of March 2021.

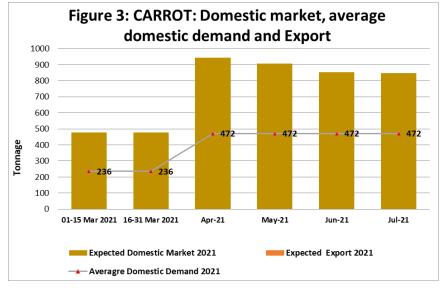
	Table 3A: EXPECTED PRODUC	TION VERSUS DC	MESTIC DEMAN	D ANALYSIS FO	OR SPECIAL CO	NTROLLED PR	ODUCTS	
			Nu	mbers in this	table represen	ts Tonnage		
Сгор	Expected Shortage or Surplus	01-15 Mar 21	16-31 Mar 21	Apr-21	May-21	Jun-21	Jul-21	TOTAL
	Expected for Domestic Market	309.403	233.105	378.471	443.705	386.855	362.575	2114.114
	Average Domestic Demand	224.5	224.5	449	449	449	449	2245
Tomato Round	Surplus /Shortage	84.903	8.605	-70.529	-5.295	-62.145	-86.425	-130.886
	Expected for Domestic Market	96.84	131.78	226.56	136.67	18.983	6.22	617.053
	Average Domestic Demand	82	82	164	164	164	164	820
Tomato Jam	Surplus /Shortage	14.84	49.78	62.56	-27.33	-145.017	-157.78	-202.947
	Expected for Domestic Market	479	479	944	908	854	848	4512
	Average Domestic Demand	236	236	472	472	472	472	2360
Carrot	Surplus /Shortage	243	243	472	436	382	376	2152
	Expected for Domestic Market	100.16	106.835	141.715	173.185	84.075	55.875	661.845
	Average Domestic Demand	106	106	212	212	212	212	1060
Green Pepper	Surplus /Shortage	-5.84	0.835	-70.285	-38.815	-127.925	-156.125	-398.155
	Expected for Domestic Market	221.25	126.25	79.95	67.75	7.5	7.5	510.2
	Average Domestic Demand	21	21	42	42	42	42	210
Pumpkin	Surplus /Shortage	200.25	105.25	37.95	25.75	-34.5	-34.5	300.2
	Expected for Domestic Market	7.19	7.19	14	8.9	7.5	7.5	52.28
	Average Domestic Demand	35	35	70	70	70	70	350
Sweetcorn	Surplus /Shortage	-27.81	-27.81	-56	-61.1	-62.5	-62.5	-297.72

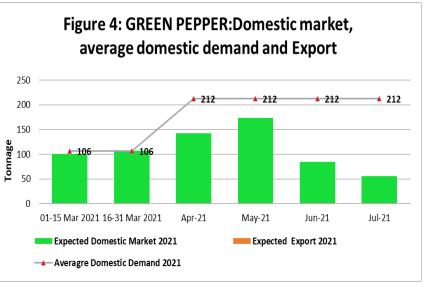
Table 3B: EXPE	CTED PRODUCTION OF MONITORE	D PRODUC	TS VERSUS	DOMESTI	C DEMAND	ANALYSIS	
			Numbers	in this table	e represent	s Tonnage	
Сгор	Expected Shortage or Surplus	Mar-21	Apr-21	May-21	Jun-21	Jul-21	TOTAL
	Expected for Domestic Market	24.5	13.7	11.4	6.8	5.8	62.2
Spinach	Average Domestic Demand	46.0	46.0	46.0	46.0	46.0	230.0
	Surplus /Shortage	-21.5	-32.3	-34.6	-39.2	-40.2	-167.8
	Expected for Domestic Market	8.8	8.8	12.8	12.8	12.8	55.8
Mushroom	Average Domestic Demand	77.0	77.0	77.0	77.0	77.0	385.0
	Surplus /Shortage	-68.3	-68.3	-64.3	-64.3	-64.3	-329.3
	Expected for Domestic Market	34.6	37.6	34.6	19	15	140.8
Colored Pepper	Average Domestic Demand	99.6	99.6	99.6	99.6	99.6	498
	Surplus /Shortage	-65	-62	-65	-80.6	-84.6	-357.2

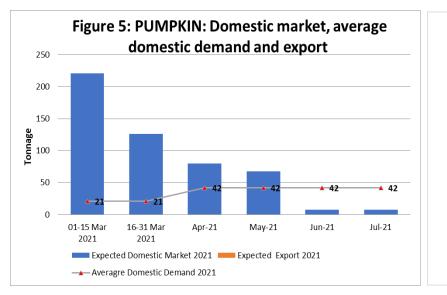
4.2 GRAPHICAL ANALYSIS

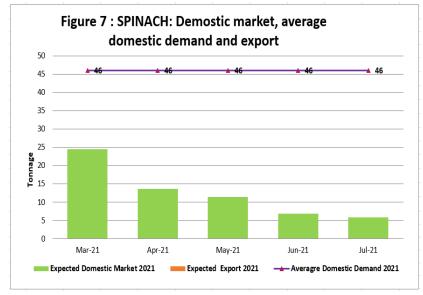
Figures 1- 9: Below indicate the Domestic market, average domestic demand and export analysis and this shows that we will have sufficient supply of Jam and Round Tomatoes, Carrots as well as pumpkins in March 2021.

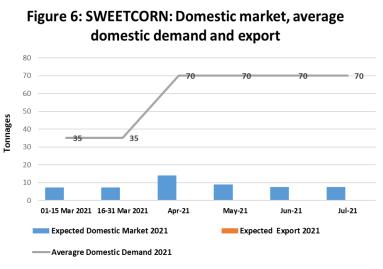


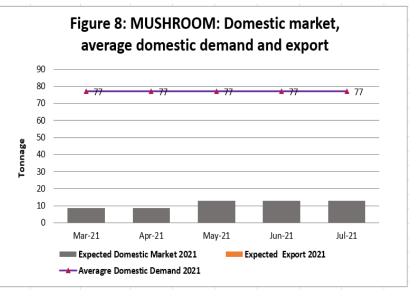


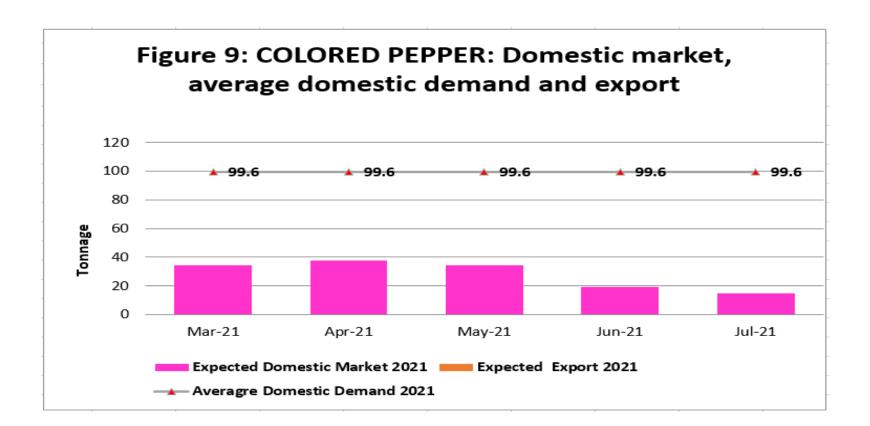






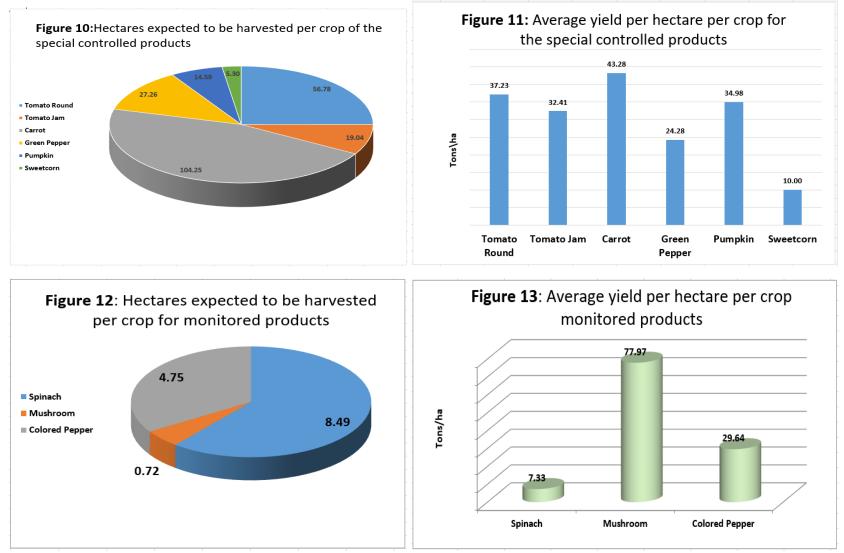






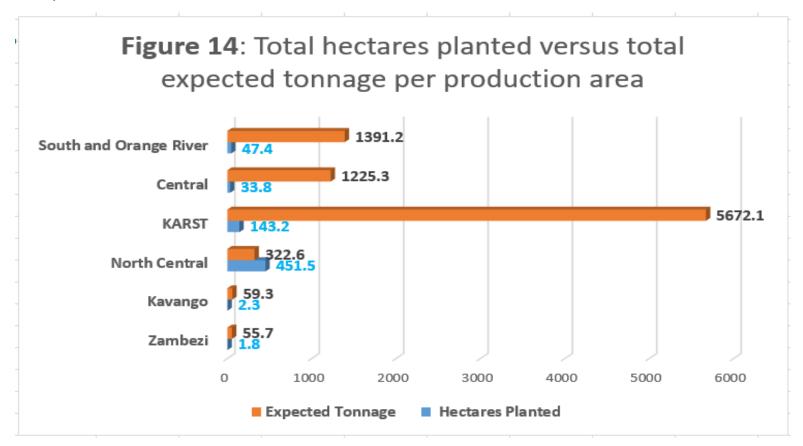
5. HECTARES PLANTED AND EXPECTED YIELD PER HECTARE (Figure 10-13)

The highest hectares planted is for Carrot (104.25 ha) followed by Tomato Round (56.78 ha) with Sweetcorn having smallest area planted (5.30 ha) for the special controlled products. While Spinach (8.49 ha) is the highest under the monitored crop, while the lowest is Mushroom (0.72 ha) as can seen below.



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Figure14. Shows that North Central Area has the highest number of hectares planted and but less expected in terms of expected tonnages to be harvested, as compared to Karst Area, with Zambezi area having the lowest hectares planted and expected tonnages in totality.



6. CONCLUSIONS AND RECOMMENDATIONS

In conclusion, the report indicates that there will be insufficient supply of Sweetcorn and Green Peppers in March 2021, whereas sufficient supply of Tomatoes (Both Round and Jam) Carrots and Pumpkins is expected during the permit period of 01 to 31 March 2021 is expected.

It is therefore recommended that the border should be open for importation of Green peppers on a pro rata basis of 30:70 (Import and Local respectively), The Tomatoes (both Round and Jam), Carrot and Pumpkin should be closed for importation, since we have sufficient supply locally to satisfy our domestic demand.