



Tomato Round



Tomato Jam



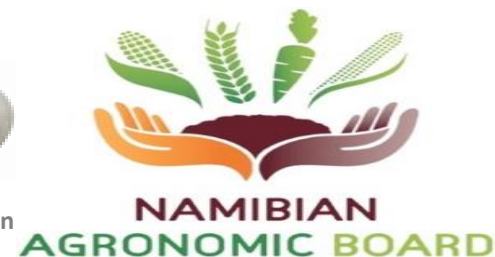
Carrot



Green Pepper



Pumpkin



HORTICULTURE: PRODUCT PRODUCTION FORECAST

REPORT NO. 2

FORECASTED PERIOD:

01 OCTOBER 2020 TO 28 FEBRUARY 2021

**Agronomy and Horticulture Market Development
Division**

Horticulture Market Development Subdivision

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1. INTRODUCTION

Report no. 2, covers the local production forecast for the four special controlled products i.e. **Tomato, Green Pepper, Carrot, and Pumpkin** as well as the three monitored crops i.e. **Spinach, Sweet corn and Mushroom**. 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 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 1A: 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”.	Red Pepper, Yellow Pepper, and Orange Pepper, Peppers mix, etc.
3. 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. 3. Pumpkins - All types.	Red, Purple, White, Black, and Yellow Fleshed Carrots.
4. Pumpkin	All types, size groups and container size of fresh/chilled whole or cut pumpkins.	All frozen, prepared or preserved pumpkins.

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 Shows that, tomatoes round, carrot and tomato jam respectively are the top commodities with high expected tonnages during the reporting period. Also, South and Orange area is leading in tomato round production, followed by Karst area and then Central area, whereas the North Central area take a lead in tomato jam production. Detailed for expected production per crop per production area are shown in Table 1 below.

Table 1: EXPECTED PRODUCTION OF SPECIAL CONTROLLED PRODUCTS PER CROP PER AREA															
		Numbers in the table below represents tonnage													
PRODUCTION AREA	CROP	01-15 Oct 20		16-31 Oct 20		Nov-20		Dec-20		Jan-21		Feb-21		Totals	
		Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Local	Export	Expected tonnage	Hectares planted
ZAMBEZI	Tomato Round	24.6	0.0	18.2	0.0	45.5	0.0	33.6	0.0	1.5	0.0	1.5	0.0	124.9	3.6
	Tomato Jam	8.6	0.0	4.0	0.0	4.6	0.0	3.3	0.0	1.3	0.0	0.0	0.0	21.9	0.7
	Carrot	0.7	0.0	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.1
	Green Pepper	0.6	0.0	0.6	0.0	1.5	0.0	1.4	0.0	0.2	0.0	0.2	0.0	4.5	0.3
	Pumpkin	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	0.7	0.0	2.2	0.0	4.3	0.0	4.3	0.0	0.0	0.0	11.6	1.3
	Tomato Jam	0.0	0.0	0.0	0.0	7.6	0.0	93.8	0.0	0.0	0.0	0.0	0.0	101.4	2.5
	Carrot	4.9	0.0	4.2	0.0	5.8	0.0	3.0	0.0	0.0	0.0	0.0	0.0	17.9	0.9
	Green Pepper	0.3	0.0	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.1
	Pumpkin	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	0.0	0.0	0.5	0.0	0.9	0.0	1.2	0.0	3.6	0.0	0.0	0.0	6.2	0.2
	Tomato Jam	87.5	0.0	125.6	0.0	283.0	0.0	186.1	0.0	123.6	0.0	47.5	0.0	853.4	25.7
	Carrot	4.0	0.0	4.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	1.0
	Green Pepper	2.3	0.0	2.8	0.0	27.1	0.0	25.6	0.0	2.2	0.0	2.2	0.0	62.1	2.5
	Pumpkin	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 1 continued

KARST	Tomato Round	60.0	0.0	60.9	0.0	363.6	0.0	368.6	0.0	236.0	0.0	226.0	0.0	1315.0	21.8
	Tomato Jam	6.7	0.0	6.7	0.0	92.4	0.0	114.3	0.0	89.1	0.0	49.1	0.0	358.2	10.2
	Carrot	340.0	0.0	340.0	0.0	684.6	0.0	674.6	0.0	214.6	0.0	214.6	0.0	2468.4	59.2
	Green Pepper	0.0	0.0	20.0	0.0	158.1	0.0	158.4	0.0	158.4	0.0	150.9	0.0	645.9	22.7
	Pumpkin	0.0	0.0	0.0	0.0	30.0	0.0	43.5	0.0	26.0	0.0	26.0	0.0	125.5	3.8
CENTRAL	Tomato Round	1.0	0.0	7.0	0.0	101.3	0.0	131.7	0.0	131.3	0.0	113.8	0.0	486.1	10.5
	Tomato Jam	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	60.0	1.0
	Carrot	0.5	0.0	0.5	0.0	21.0	0.0	37.8	0.0	46.0	0.0	21.0	0.0	126.8	3.0
	Green Pepper	1.9	0.0	12.9	0.0	36.5	0.0	52.9	0.0	49.9	0.0	33.2	0.0	187.1	2.9
	Pumpkin	0.0	0.0	0.0	0.0	41.7	0.0	81.7	0.0	100.0	0.0	0.0	0.0	223.4	4.7
SOUTH AND ORANGE RIVER	Tomato Round	307.0	318.0	323.0	318.0	518.4	318.0	523.4	318.0	241.4	0.0	198.9	0.0	2112.1	25.5
	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	7.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	8.5	0.6
	Green Pepper	0.0	0.0	0.0	0.0	17.0	0.0	15.5	0.0	8.0	0.0	8.0	0.0	48.5	1.1
	Pumpkin	5.0	0.0	5.0	0.0	100.0	0.0	112.5	0.0	182.5	0.0	40.0	0.0	445.0	10.7
Total expected per crop per month	Tomato Round	392.6	318.0	410.2	318.0	1031.9	318.0	1062.9	318.0	618.1	0.0	540.2	0.0	4055.9	62.9
	Tomato Jam	112.8	0.0	146.3	0.0	397.6	0.0	407.5	0.0	224.0	0.0	106.6	0.0	1394.9	40.1
	Carrot	350.0	0.0	349.2	0.0	731.1	0.0	716.4	0.0	260.6	0.0	235.6	0.0	2642.9	64.8
	Green Pepper	5.0	0.0	36.6	0.0	240.7	0.0	253.8	0.0	218.7	0.0	194.5	0.0	949.4	29.6
	Pumpkin	5.0	0.0	5.0	0.0	171.7	0.0	237.7	0.0	308.5	0.0	66.0	0.0	793.9	19.1

Source: NAB,2020

3. EXPECTED AVAILABILITY

Table 2 below indicate active producers that expect to harvest controlled crops listed below. It is worth noting that, only one active producer for mushroom and two for sweetcorn during the reporting season. Suggesting a need for farmers to diversify into mushroom and sweetcorn to meet the local demand. Refer to table 2 below for more details.

TABLE 2 : EXPECTED AVAILABILITY OF SPECIAL CONTROLLED PRODUCTS																																			
KEY: Tomato Round =  Tomato Jam=  Carrot=  Green Pepper=  Pumpkin = 																																			
ZAMBEZI AREA																																			
				01 to 15 Oct 2020					16 to 31 Oct 2020					Nov-20					Dec-20					Jan-21					Feb-21						
SN	Name Of Producer	Local	Export	Tomato Round	Tomato Jam	Carrot	Green pepper	Pumpkin	Tomato Round	Tomato Jam	Carrot	Green Pepper	Pumpkin	Tomato Round	Tomato Jam	Carrot	Green pepper	Pumpkin	Tomato Round	Tomato Jam	Carrot	Green Pepper	Pumpkin	Tomato Round	Tomato Jam	Carrot	Green pepper	Pumpkin	Tomato Round	Tomato Jam	Carrot	Green pepper	Pumpkin		
1	Moddest Kakula	✓																																	
2	Benedicts Musialike	✓																																	
3	Clemens Makumbi	✓																																	
4	Shabalume Aldrin	✓																																	
5	Mpulila Manga	✓																																	
6	Sharon Musine	✓																																	
7	Suhail Mhamid	✓																																	
8	Essop Amhed	✓																																	
9	Laimi Likando	✓																																	
10	Davis Mushitu	✓																																	
11	Oscar Sililo	✓																																	
12	Bertha Maswahu	✓																																	
13	Raphael Kachana	✓																																	
14	Fidelis Mbeha	✓																																	
15	Cavin Sikalumbu	✓																																	
16	Rector Mutelo	✓																																	
17	Molly Mulife	✓																																	
18	Clement Mulyokela	✓																																	
19	Bernard Sitali	✓																																	

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Table 2 continued ...

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Table 2 continued ...

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Table 2 continued ...

CENTRAL AREA																													
1	Dirk Wobbling	✓																											
2	Grunnar Waldschmidt	✓																											
3	Liza Koekmoer	✓																											
4	Johannes Meyer	✓																											
5	Stephan Gaugler	✓																											
6	Jaco Van Westhuizen	✓																											
7	Lothar Kollimtz	✓																											
8	Hagen Horthsmark	✓																											
9	George Ellis	✓																											
10	Danie Marais	✓																											
11	Piete De Lange	✓																											
12	Lonie Hart	✓																											
13	Dinah Straus	✓																											
14	Veripi Zeraeua	✓																											
15	Jaco Thomas	✓																											
16	Magnus Kurz	✓																											
17	Martha Alweendo	✓																											
18	Gavin Diergaardt	✓																											
19	Hubertus Gaochab	✓																											
SOUTH AND ORANGE RIVER AREA																													
1	Herman Van Dyk	✓																											
2	Louis Louw	✓																											
3	Nico Van Derwe	✓	✓																										
4	Burge J Harmes	✓																											
5	Hoekes Vann Niekerk	✓																											
6	Abe Olivier	✓	✓																										
7	Rudie Kotze	✓																											
8	Jimmy O Kennedy	✓																											
9	Fanie Louw	✓																											
10	F Jansen Van Rensburg	✓																											
11	Jean Roux	✓																											
12	Lukas Lumbala	✓																											
13	Arthur Makhza	✓																											
14	Chris Huisamen	✓																											
15	Isack Tadeus	✓																											

Source : NAB,2020

4. EXPECTED PRODUCTION VS DEMAND ANNALYSIS

4.1 TABULATION ANALYSIS

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

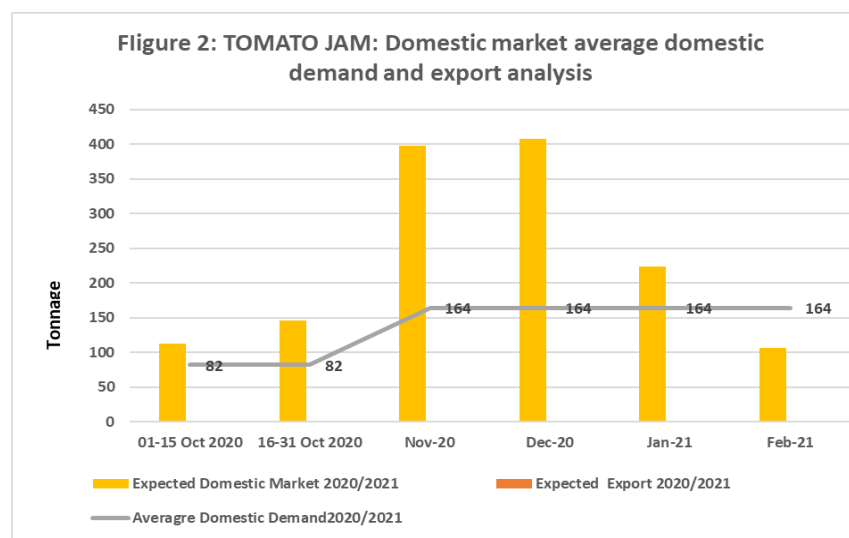
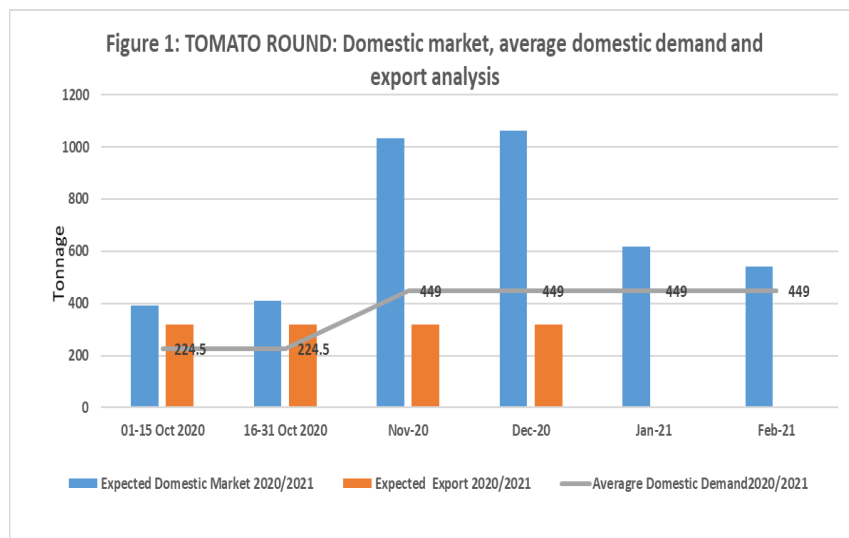
Table 3: EXPECTED PRODUCTION VERSUS DOMESTIC DEMAND ANALYSIS								
		Numbers in this table represents Tonnage						
Crop	Expected Shortage or Surplus	01-15 Oct 20	16-31 Oct 20	Nov-20	Dec-20	Jan-21	Feb-21	TOTAL
Tomato Round	Expected for Domestic Market	392.6	410.2	1031.9	1062.9	618.1	540.2	4055.9
	Average Domestic Demand	224.5	224.5	449.0	449.0	449.0	449.0	2245.0
	Surplus /Shortage	168.1	185.7	582.9	613.9	169.1	91.2	1810.9
Tomato Jam	Expected for Domestic Market	112.8	146.3	397.6	407.5	224.0	106.6	1394.9
	Average Domestic Demand	82.0	82.0	164.0	164.0	164.0	164.0	820.0
	Surplus /Shortage	30.8	64.3	233.6	243.5	60.0	-57.4	574.9
Carrot	Expected for Domestic Market	350.0	349.2	731.1	716.4	260.6	235.6	2642.9
	Average Domestic Demand	236.0	236.0	472.0	472.0	472.0	472.0	2360.0
	Surplus /Shortage	114.0	113.2	259.1	244.4	-211.4	-236.4	282.9
Green Pepper	Expected for Domestic Market	5.0	36.6	240.7	253.8	218.7	194.5	949.4
	Average Domestic Demand	106.0	106.0	212.0	212.0	212.0	212.0	1060.0
	Surplus /Shortage	-101.0	-69.4	28.7	41.8	6.7	-17.5	-110.6
Pumpkin	Expected for Domestic Market	5.0	5.0	171.7	237.7	308.5	66.0	793.9
	Average Domestic Demand	21.0	21.0	42.0	42.0	42.0	42.0	210.0
	Surplus /Shortage	-16.0	-16.0	129.7	195.7	266.5	24.0	583.9

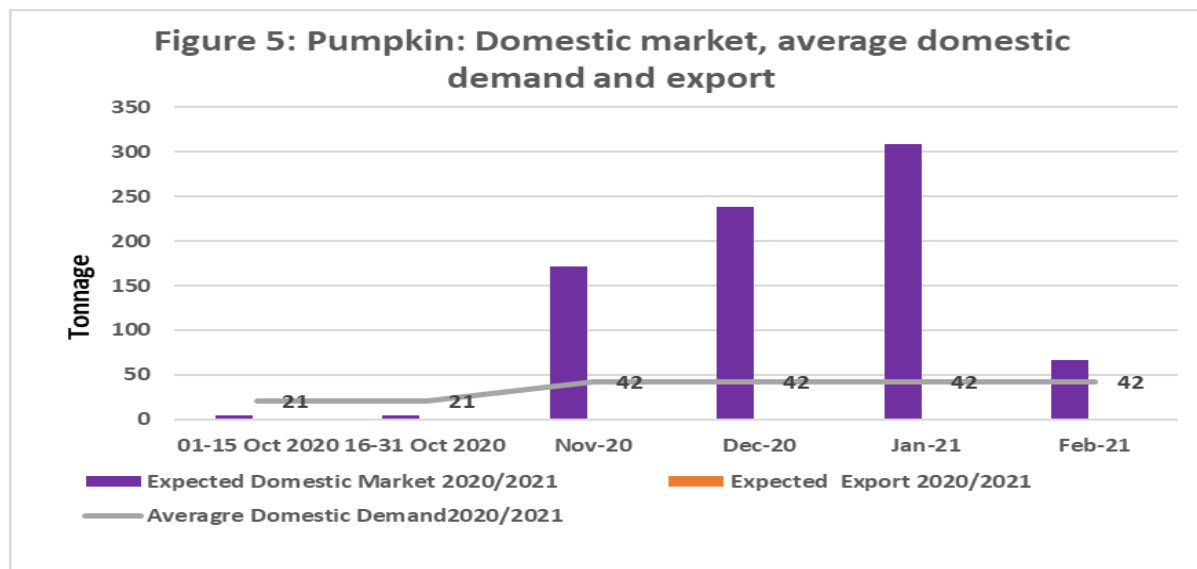
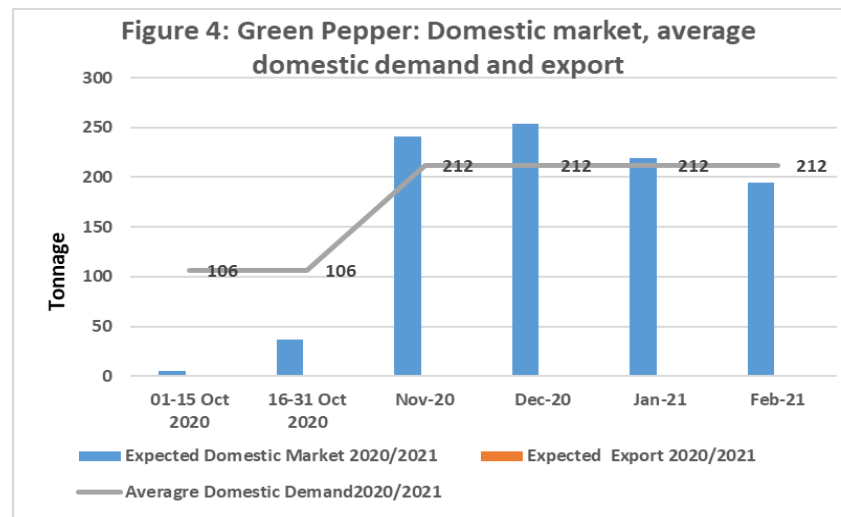
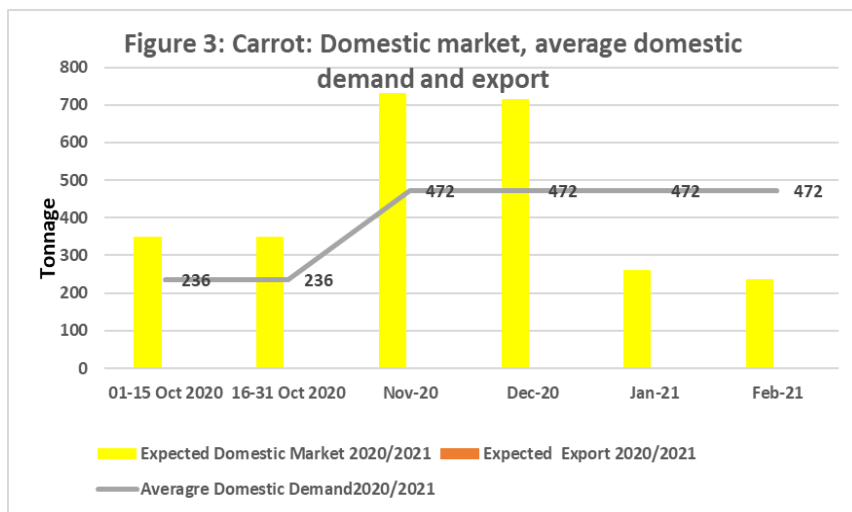
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Table 3B: EXPECTED PRODUCTION VERSUS DOMESTIC DEMAND ANALYSIS							
		Numbers in this table represents Tonnage					
Crop	Expected Shortage or Surplus	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	TOTAL
Spinach	Expected for Domestic Market	37.0	37.3	39.1	38.5	37.0	188.8
	Average Domestic Demand	46.0	46.0	46.0	46.0	46.0	230.0
	Surplus /Shortage	-9.0	-8.7	-6.9	-7.5	-9.0	-41.2
Sweet Corn	Expected for Domestic Market	1.2	12.9	192.5	197.5	197.5	601.6
	Average Domestic Demand	70.0	70.0	70.0	70.0	70.0	350.0
	Surplus /Shortage	-68.8	-57.1	122.5	127.5	127.5	251.6
Mushroom	Expected for Domestic Market	4.0	4.0	8.0	8.0	8.0	32.0
	Average Domestic Demand	77.0	77.0	77.0	77.0	77.0	385.0
	Surplus /Shortage	-73.0	-73.0	-69.0	-69.0	-69.0	-353.0

4.2 GRAPHICAL ANALYSIS

Figures 1 to 8 below indicates the Domestic market, average domestic demand and export analysis and this shows that we will have sufficient supply of Tomatoes, both round and jam as well as Carrots during the first month of the forecasted period. With regard to the three monitored crops, the production volume expected is lower than the domestic requirements, and however, sweetcorn will pick up during December month onwards.





Graphical analysis continues...

Figure 6: Spinach: Domestic market, average domestic demand and export



Figure 7: Sweet Corn: Domestic market, average domestic demand and export

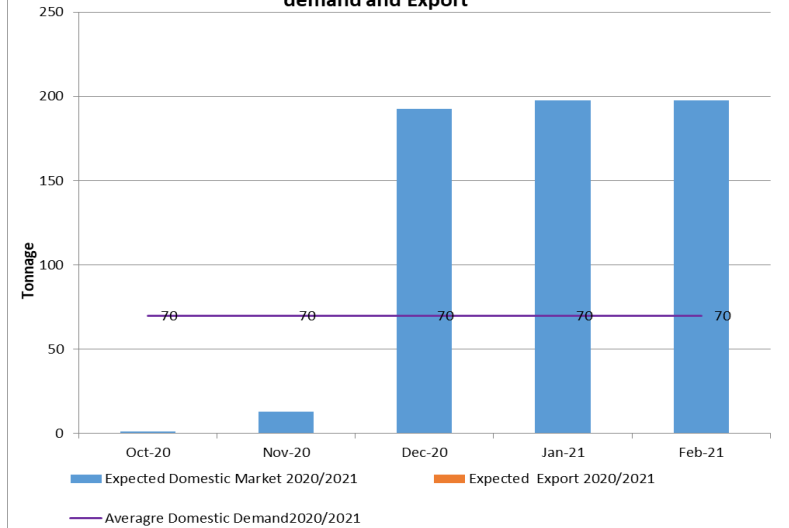
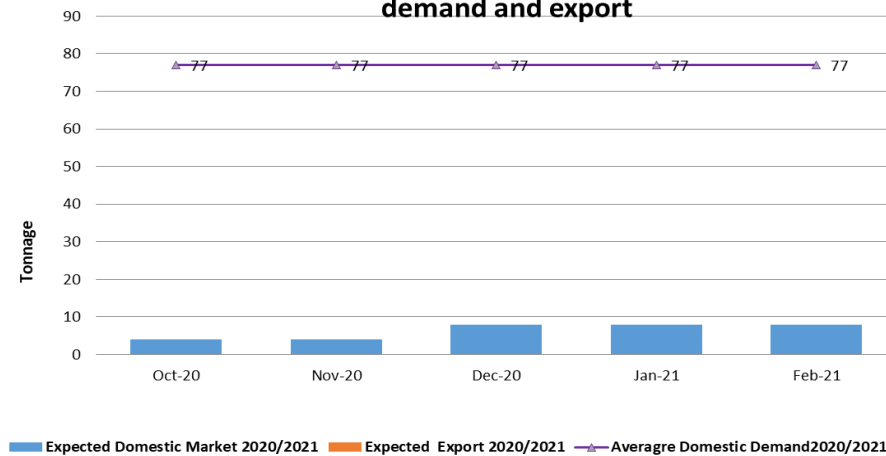


Figure 8: Mushroom: Domestic market, average domestic demand and export



5.0 HECTARES PLANTED AND EXPECTED YIELD PER HECTARE

The highest hectares planted are for Carrot (64.8 ha), followed by 62.9 ha of Tomato round with Pumpkin having smallest area planted (19.1ha). This suggest that, producers need to upscale their production for pumpkins to meet the demand. Also, the highest average yield per crop will be expected in round tomatoes production.

Figure 9: Hectares planted per crop

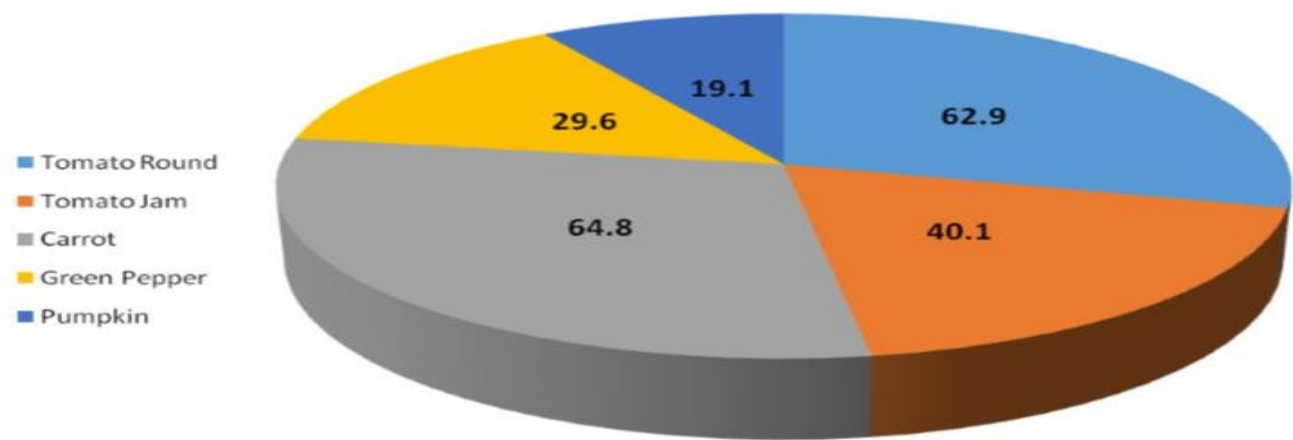
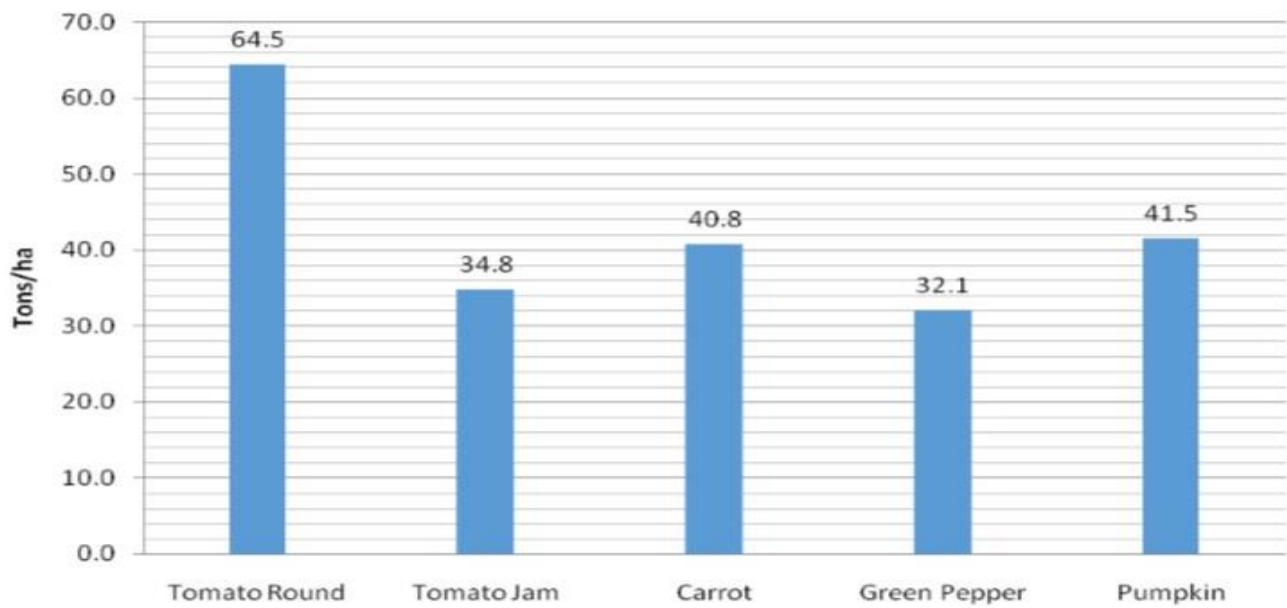


Figure 10: Expected average yield per crop



A horizontal bar chart comparing 'Average Yield' (orange bars) and 'Total Hectrage' (blue bars) across six production areas. The x-axis represents 'Frequency' from 0 to 140. The y-axis lists the production areas. Data values are labeled at the end of each bar.

Production Area	Average Yield	Total Hectrage
South and Orange River	69	38
Central	49	22
Karst	42	118
North Central	32	30
Kavango	27	4.8
Zambezi	32	4.7

6. CONCLUSIONS AND RECOMMENDATIONS

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