

Levers of change to shape the future of the South African citrus industry

Tracy Davids & Kandas Cloete

Bureau for Food and Agricultural Policy

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Citrus is a major contributor to SA Agriculture

Contribution to GPV, Export Revenue & Employment









Citrus area has expanded rapidly

Significant share not yet in full production





Regional differentiation important to consider

Area and age distribution plays a significant role in the risk and opportunity



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Export volumes still expected to grow



Young trees reaching full bearing age



From 2019 to 2022:

• Exports

- Orange +31%
- Soft Citrus +86%
- Lemons & Lime +62%
- Export Prices
 - Orange: +16%
 - Soft Citrus: +12%
 - Lemon & Lime: -11%
- Costs
 - Average 26%

Number of major challenges have created a perfect storm threatening the sustainability of investments

Major challenges to navigate

Global and local factors combining to create a perfect storm





Major challenges to navigate

Progress on market access is slow despite industry efforts



Slow pace of new Increasing severity of loadshedding market access

RSA's competitors

Competitiveness of market access in Asia

Lost access in 2013

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High-level overview of preferential trade agreements vith strategic eastern markets			Australia	New Zealand	Peru	Chile	Argentina	Uruguay	
	China								
	Hong Kong								
ets	India								
Strategic markets	Indonesia								
မ င	Japan								
eg	South Korea								
trat	Malaysia								
Ś	Philippines								
	Thailand								
	Vietnam								

Tariff barriers faced by SA producers

Vietnam



Major challenges to navigate

Production costs rising rapidly



Cost of SPS protocols

Change in EU cooling protocol for oranges

Substantial increase in input costs

Combined cost of FCM & CBS protocols in 2020 = R3.28 billion

100%	
90%	
80%	
70%	On Farm, 62%
60%	
50%	
40%	Dealtheurse Level C0/
30%	Packhouse Level, 6%
20%	Opportunity Costs 22%
10%	Opportunity Costs, 32%
0%	

Protocol	Infrastructure investment	Cost & income loss				
Precooling to 0°C to 2°C and treatment in transit at -1°C to 2°C for 2o days	Up to R 1,37 bn.	Up to R 0,51 bn.				
Precooling to - 0.5°C and treatment in transit at -1.5° C for 16 days	Up to R 1,37 bn.	Up to R 2,93 bn.				
R6,50—R8/carton						

Orange production costs increased 26% in last 3 years



Profitability of citrus exports to various world regions: Apr-Aug 2022



BFAP, 2022, compiled from various sources



Producers are operating in an increasingly risky environment



Biggest drivers of domestic risks for the citrus industry	Biggest drivers of global risks for the citrus industry
Port and logistical challenges leading to delays and quality claims	Supply growth from South Hemisphere competitors, especially Peru (smaller risk than own production expansion)
Downward price risk as more products come into the market	Freight rates – although rates are trending downwards, is still much higher than pre-pandemic rates
Cold-chain interruptions caused by loadshedding affect both quality of fresh produce and raise the cost to store chilled products	Large and deep recession in developed economies leading to lower demand for imported goods
Cost price inflation , particularly labour, eroding farming margin further	More stringent market access requirements from the EU leading to technical barriers to trade
Some citrus farms will likely come under strain with the potential of forced sales , eroding the capital base	Conflict in Ukraine and its extensive impact
Exchange rate (long term trend & in-season movements)	
Weather conditions (rain, hail, drought)	
Conflict / Social Unrest (strikes, theft, unrest)	

Area response projected due to current challenges



Coming decade will be more turbulent



Have we reached the peak of the squeeze?

Labour costs continue to rise, some others could improve





Producer level profitability under baseline

2022 is considered as the base year in the projection model



Yield curve	Oranges	Soft Citrus	Lemons	Grapefruit	Node	ltem
Total commodity area prototype farm (ha.)	50,99	24,68	18,70	5,62	EBITA	
Full bearing yield (ton/ha)	47,78	49,32	61,34	62,00		Production cost
Export cartons per ha (15 kg eq.)	2 262	2 406	2 744	3 008		Overheads & Depre
Export (%)	71%	73%	67%	67%	Farm gate	· · · ·
Local (%)	7%	9%	4%	1%	Tanngale	
Processing (%)	22%	18%	29%	32%		Transport
					Post farm	gate
PRICE (Rand/15 kg carton eq.): Exports	137	206	141	124		Degreening
PRICE (Rand/15 kg carton eq.): Local	49	83	77	84		Degreening
PRICE (Rand/ton): Processing	619	255	607	1480		Tipping cost
						Packing material - ca
Direct production cost (R/ha)	135 895	181 237	160 301	118 054		U U
Packaging & Marketing (R/ha)	160 639	236 951	208 989	196 614		Packing material - pa
Overheads (R/ha)	32 943	32 943	32 943	32 943	Ex-works	
Depreciation (R/ha)	23 987	23 987	23 987	23 987		PPECB inspection

- Asset structure vary significantly depreciation is indicative •
- Financing structures are very different across producers included in model, but reporting done pre-٠ interest payments
- The model is focused on informing strategic decision-making in terms of production and not • necessarily asset acquisition.

Node	ltem							
EBITA								
	Production cost							
	Overheads & Depreciation							
Farm gate								
	Transport							
Post farm	gate							
	Degreening							
	Tipping cost							
	Packing material - carton							
	Packing material - pallet							
Ex-works								
	PPECB inspection							
	Transport to port							
	CGA levy							
Delivered	in port (DIP)							
	Local cost							
	Exporter commission							
Free on bo	Free on hoard (EOB)							

2023 will be challenging – improvements thereafter

Full bearing equivalent – not accounting for replacement

Median EBITA R/ha	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Bottom 3 rd	-50 687	-67 281	-55 261	-30 854	-7 403	-12 253	-1 007	2 398	-25 713	-16 623	-17 195
Middle 3 rd	11 689	-4 502	19 572	46 052	68 697	77 931	97 375	97 056	84 327	93 454	85 362
Top 3 rd	86 382	77 750	106 557	139 542	174 257	180 228	199 821	212 373	204 649	207 965	230 534

Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band

Legend:

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2023 will be challenging – improvements thereafter



Median EBITA R/ha	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Bottom 3 rd	-69 558	-86 514	-75 912	-53 198	-32 137	-38 203	-29 026	-26 723	-55 096	-46 624	-47 126
Middle 3 rd	-7 183	-23 735	-1 079	23 708	43 963	51 981	69 356	67 935	54 944	63 453	55 431
Top 3 rd	67 510	58 517	85 906	117 198	149 523	154 278	171 802	183 252	175 265	177 963	200 602

Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band

Legend:

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Shaping South Africa's citrus future





The culminating impact of cost increases and exogenous and endogenous pressure on prices is at its peak (2022-2024)



Planted area expected to pull back and plateau as marginal orchards are removed and carefully selected expansion of area is executed



A collective approach by all role-players is required to weather the storm and to reduce the risk at farm level, which is the pivotal part of sustainability of an industry

Alternative scenario 1: Getting the counts right



Individual producer action: Drive towards more marketable fruit size

Description of scenario:

- Change production practices to improve size of fruit supplied to the packhouse
- Reduce fruit supplied into processing marketing channel
- Improve exports:
 - Increase the share of export fruit
 - Relative shift towards more class 1
 - More desirable (profitable) count distribution
- Improve the relative ability of export cartons to contribute to profitability and carry cost

BASELINE Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band



Levers of change:

- Additional R14 000/ha production cost:
 - R2 500 labour additional pruning & thinning out
 - R6 000 fertiliser additional calcium and potassium nitrate
 - R4 500 sprays chemical reduction of fruit on tree
 - R1 000 labour additional sorting during harvest
- 10% higher class 1 pack out
- 10% reduction in fruit to processing
- 15% increase in average export prices

Impact: R40 000/ha improvement in 2024 on full bearing equivalent

<u>SCENARIO</u> Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band



Alternative scenario 2: Early warning system

Industry as a collective: Reduce risk of market oversupply by commodity and week



Description of scenario:

- Determine the market absorption tipping point for all major markets
- Identify and communicate aggregated planned volumes by market (vessel/container bookings by commodity/cultivar)
- Improve producer returns



Levers of change:

- Improvement of export prices by 10% due to a reduction in the frequency and severity of market oversupply
- 50c per export carton additional levy to fund system

Impact: R35 000/ha improvement in 2024 on full bearing equivalent

BASELINE Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band

FOB



SCENARIO Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band



Alternative scenario 3: Breaking down trade measures



Government to government negotiations: Improve market access & preferential trade

Description of scenario:

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- India's citrus imports are growing at a considerable rate, albeit from a low base
- Average annual growth in imports of citrus (2017-2021):
 - Oranges 16% Lemons 11%
 - Soft citrus 39% Grapefruit -11%
- Negotiation of tariff free access (average tariff is currently 30%)

Levers of change:

- Sector model scenario shock impact
- Double the export volume of oranges and soft citrus to India by 2024, with a further, more gradual expansion of shipments to India aligned with demand growth

Impact: While little impact at individual producer level (risk profile remain stable), it creates an opportunity for expansion of hectares and export volumes with a slight increase in export prices as well

2032	Baseline	Scenario
Hectares	99 510	101 286
Export cartons	209,1m	216,6m
Avg. carton price	R 217	R 219

<u>SCENARIO</u> Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band



BASELINE Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band



Alternative scenario 4: Collective effort



Impact on farm level profitability if role-players collectively approach industry sustainability

Description of scenario:

- Change driven at:
 - Individual producer level: count peak
 - Industry level: early warning market system
 - Government level: negotiation of more favourable trade measures

Levers of change:

- The combined impact of:
 - Change in carton count peak by changing production practices that positively influence pack outs and average prices
 - Determining the tipping point volume each market can absorb before having a detrimental impact on price
 - Improved market access



Many ways to peel an orange...

Collective effort across different spheres required to improve industry sustainability

BASELINE Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band



SCENARIO Risk profile: Probability of an Earnings Before Interest, Tax and Amortization per Hectare (EBITA/ha) within a certain band





Concluding remarks



There are opportunities across the different spheres to reduce the risk profile at farm level and improve the sustainability of the industry for all role-players



No silver bullet, but a combination of actions can have a significant impact to ensure sustainability on an expansionary path



The management of the next two seasons (2023-2034) are critical to minimize endogenous risks, manage cash flow and mitigate around or through exogenous risks



Flow of information and appropriate response to the communicated information is necessary to collectively work towards improving the industry's sustainability

Thank you



tracy@bfap.co.za kandas@bfap.co.za

www.bfap.co.za

