

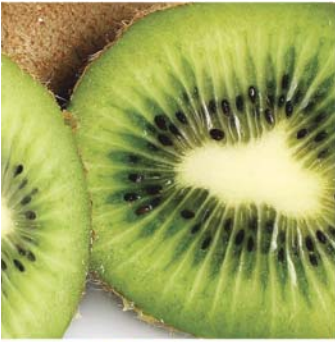
Fresh Food Trade SA



2024

South Africa's fresh food trade and supply chain directory

twenty second edition



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OUR CERTIFICATIONS & STATUS



Fresh Food Trade SA 2024

The South African fresh food trade and supply chain directory

twenty second edition

In association with:
Department of Trade, Industry and Competition
Department of Agriculture, Land Reform and Rural Development

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Published by:



MALACHITE PUBLISHING

PO Box 789, Somerset Mall 7137, South Africa
agri@foodtrade.co.za
www.foodbevtrade.co.za

In association with:

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Directorate: International Trade
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www.dalrrd.gov.za

Department of Trade, Industry and Competition
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www.thedtic.gov.za

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- Published as FoodTrade SA since 2014
- Published as Fresh FoodTrade SA since 2017

The publisher is responsible for the production of this directory and, to the best of its knowledge, the information contained herein is correct at the time of publication. Individual contributors are responsible for the content of their insertions and it should be noted that the products or services they describe may be subject to change without notice. The Department of Agriculture, Forestry and Fisheries does not accept responsibility for consequences of actions which may arise from errors contained in this directory.

Statistical and product information supplied by:



PPECB (Perishable Products Export Control Board)
PO Box 15289, Panorama 7506, South Africa
www.ppecb.com

This publication is also available as an e-book at:
www.foodbevtrade.co.za

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SUSTAINABILITY INITIATIVE OF SOUTH AFRICA (SIZA)

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South Africa remains the only country in the world to incorporate its own history, challenges, legislation, and norms into a globally accepted way forward in the form of a standard such as SIZA. Driving a programme like SIZA is vital in allowing South African producers, emerging growers, agri-workers, and the entire value chain involved in production to adhere to standards, legislation, and global market requirements.

SIZA actively focuses on reducing costs to the member and preventing unnecessary duplication of audits, whilst driving efficiency with an increased focus on corporate social responsibility, accountability, trust, and a foundation of improving the lives of all those living and working within the agri-sector.

Local and International Recognition

SIZA is a multisector, agri-wide South African standard, developed, owned, and operated from within South Africa. SIZA is aligned to global best practices on both social (ethical) compliance and environmental assurance which relates into recognition and equivalence in more than 17 countries. SIZA has endorsed a credible third-party social and environmental audit programme with audits conducted by recognised audit companies. SIZA is focused on continuous improvement and drives a cost-effective business approach by supplying one ethical and one environmental audit for growers in South Africa and neighbouring countries.

Ensuring World-Class Agricultural Products

SIZA, the Sustainability Initiative of South Africa, supports growth, sustainability, and productivity by caring for the environment, respecting the rights of workers, and initiating safe working and living conditions to ensure world-class agricultural products for the local and global market.



Digital Monitoring

SIZA has an effective and modern data platform, called MySIZA, which is used for managing and sharing data on social practices and environmental assurance throughout the value chain. We also share SIZA audit data on Sedex through the SIZA AB account and via an API link with the GLOBALG.A.P. platform.



Environmental Assurance

The SIZA Environmental programme offers a standalone or a combined solution third-party audit methodology to members who need to complete the GLOBALG.A.P. Integrated Farm Assurance (IFA) audit as well as SIZA Environmental. While the combined audit takes place at the same time, two separate audit reports are generated and the SIZA Environmental Audit Report is uploaded to the MySIZA data platform to ensure visibility to multiple buyers.

SIZA is and remains the way forward for the agricultural industry in South Africa, allowing practices to be monitored, evaluated, and reported to all relevant stakeholders. Facilitating market engagement, governmental partnerships and ensured individual liability leads to a behaviour of change towards becoming improvement-led, rather than focused on mere minimum compliance. To drive this approach, we need the support and the acceptance from our global buyers. We would like to urge you as an important partner and key player in our value chain to trust and accept the programme and to recognise that SIZA is driving a risk and hands-on approach in ensuring global credibility and minimising risks.

Contact details:
www.siza.co.za or retha@siza.co.za

FOR MORE INFORMATION VISIT:
WWW.SIZA.CO.ZA

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Foreword



The Department of Agriculture, Land Reform and Rural Development is pleased that the twenty second edition of the Fresh Food Trade SA directory is published through private sector initiatives. The fresh food industry is constantly evolving and accurate information on volumes and trends is important to South African producers, exporters and the international buyers. Trade of fresh produce has an increasingly important role to play in our agricultural growth while also fostering food security.

The services delivered by the department through its subsidiaries, such as the Perishable Products Export Control Board (PPECB), are based on a national quality control system that ensures safe fresh products that adhere to international best practices, amongst others. Global health research provides evidence that fresh produce is still at the heart of a healthy and nutritional diet. South Africa has consistently, over many decades, been a world leader of fresh produce supply in a highly competitive world market. To supply fresh produce globally requires sophisticated value chains. The South African agricultural sector has a pivotal role in providing an efficient supply chain from farm to the market. The department therefore, aims to contribute to the rural economy through sustaining and improving on safe and nutritious global food supply chains. The productivity of rural development is vital. The department support policies on responsible and sustainable natural resource use.

Development in the agricultural sector is effective in raising income among the poor in rural areas. This is important for most of the rural poor who depend largely on farming to make a living. As per capita income rises in many countries and cities, more people are conscious of healthy living and nutritious diet obtained from fresh produce.

This directory is one of the most comprehensive publications on the South African agricultural exporters value chain to promote South African sector interests. South Africa stands to be proud to be a credible and reliable international producer and supplier of fresh produce.

I would like to thank all the institutions and individuals involved in making this publication possible through participation and a collaborative effort. As South Africa continues to explore new markets to diversify and increase exports, the South African government's foreign offices are encouraged to use this publication to showcase products that is proudly South African.

A handwritten signature in black ink, appearing to read 'A.T. Didiza'.

Ms A.T. Didiza (MP)

Minister: Department of Agriculture, Land Reform and Rural Development

Together we
grow and
sustain your
business



Our passion for excellence helps you grow your business and establish yourself as a preferred supplier of perishable products.



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Message from the PPECB



If there are positives that we can certainly take from two years being in lockdown, it is certainly our ability to change and adapt. Virtual engagements have become the norm, rather than the exception and remote working is no longer a privilege but became mainstream – to the extent where it is now frowned upon when people are requested to go to office.

Businesses were literally forced to digitise to remain relevant and some had to find innovative ways to stay afloat. There is now a greater focus on health, personal well-being, and work life balance than before and business investment in technology reported a 60% growth by the end of January 2021. The timely provision of relevant information has also become increasingly important, with some coining it the “new gold”. This can often influence crucial business decisions, which were evident in the perishable products export sector over the past two years. The need for accurate and credible information has increased significantly, with the PPECB receiving requests from all corners of the globe. This is however expected to further increase, with requesters yearning for more detailed and analysed information. The PPECB will continue to further invest in its information provision capabilities, to ensure the organisation can respond to client needs.

Complementary to existing information platforms, the Fresh Food Trade SA provides a comprehensive overview of statistics and trends within the sector. The PPECB is honoured to introduce this 22nd edition of the now noteworthy Fresh Food Trade SA publication. We trust that you will find it of great value.

A handwritten signature in black ink, consisting of a stylized 'LJ' followed by a long horizontal line that ends in a small arrowhead.

Lucien Jansen

Chief Executive Officer: Perishable Products Export Control Board



FOR THE INDUSTRY, BY THE INDUSTRY

The Fresh Produce Exporters' Forum (FPEF) is a voluntary, non-profit organisation with more than 140 members, accounting for about 90% of fresh fruit exported from South Africa.

The FPEF's role is to provide leadership and services to its members, the international buying community and the fresh fruit and vegetable export industry.

FPEF members consist of fruit and vegetable exporters, producer-exporters, export and marketing agents, pack houses, logistics and other service providers. The FPEF is also a member of Fruit South Africa (FSA), together with the country's four growers' associations.

The FPEF also manages a number of projects for the benefit of the industry, such as training, mentorship and transformation initiatives and the Post-Harvest Innovation (PHI) Programme.

fpef
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FRESH PRODUCE
EXPORTERS' FORUM

+27 21 526 0474
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Message from the FPEF



The South African Fresh Produce Exporters' Forum (FPEF) is a non-profit company, which is funded by its members. FPEF members are fresh produce exporter agents, producer-exporters, pack-houses, logistics, and other service providers.

The primary objective of the FPEF is to contribute to a sustainable, profitable, yet disciplined fresh produce export industry. In order to that, all members must sign, and adhere to, a strict Code of Conduct – thus giving confidence to the international trading community that, when doing business with a FPEF member such a member is a reliable trading partner. The FPEF represents 93% of fresh produce export volumes. Information regarding FPEF members is updated regularly on the FPEF website: www.fpef.co.za

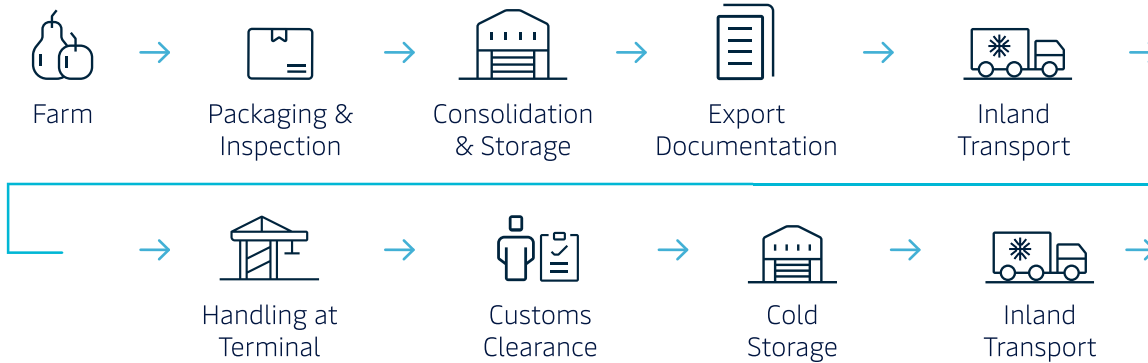
The FPEF's services to its members includes generic market development by ensuring visibility and awareness of SA fresh produce, engaging with Regulatory authorities on behalf of members to assist members with technical and operational efficiencies in order to enable export growth, providing information (market statistics, market trends, etc.), post-harvest research, development and innovation and assistance with transformation of the industry.

A handwritten signature in black ink, appearing to read 'A Kruger', written in a cursive, flowing style.

Anton Kruger

Chief Executive Officer: Fresh Produce Exporters' Forum

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A range of solutions for your temperature-controlled cargo



Durban Cold Store

The 10,000-pallet, modern and environmentally friendly cold store is located outside the congested Durban port area for better convenience, and offers blast freezing, storage, labelling, pre-cooling, cross-docking and more. Furthermore, we are expanding our global footprint of cold store facilities to offer a variety of temperature-controlled services, tailored to your needs.

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or contact us:

Craig McCarthy

Southern Africa Reefer Sales

Email: Craig.McCarthy@maersk.com | Phone: +27-83-799-6776



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Manny dos Anjos

CEO Precool Cold Storage, Durban, South Africa

Email: manny@precoolcoldstorage.com | Phone: +27-31-736-2587



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Empowering Business Growth

As the success of a business is usually measured in its ability to keep track of the effectiveness of business management practices and to proactively implement changes to improve on areas of concern, streamlining your business procedures is required. By going digital, the SIZA Recordkeeping Programme will eliminate redundant and time-consuming processes that usually involve paperwork and streamline business procedures, allowing you to:



Track real-time data



Stay effortlessly organised



Enjoy maximum data security



Take care of the planet



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The SIZA Digital Recordkeeping Programme is integrated as part of the MySIZA platform and is available to all businesses, both locally and internationally, and does not require SIZA Social or Environmental membership.

Find out more:
www.siza.co.za

To register for the SIZA Digital Recordkeeping Programme, please contact the SIZA office on 021 852 8184 or send an email to enviro@siza.co.za.



SECTION 1

Citrus	1-7
Deciduous	1-25
Subtropical	1-43
Exotic	1-53



Fruit South Africa (FSA) is a non-profit company and the umbrella body representing Berries ZA, Citrus Growers' Association of Southern Africa (CGA), HORTGRO (representing pome and stone fruit), South African Table Grape Industry (SATI) (representing table grape growers), SUBTROP (representing the avocado, litchi and mango industries) and the Fresh Produce Exporters' Forum (FPEF). Fruit South Africa strives for a competitive, equitable and sustainable fruit industry.



Subtrop is an association of associations that manages the affairs of South African Avocado (SAAGA), Litchi (SALGA) and Mango (SAMGA), grower's associations.

T: +27 (0)15 307 3677
info@subtrop.co.za
www.subtrop.co.za



The CGA represents the interests of the producers of export citrus. In total approximately 1400 growers throughout Southern Africa (including Zimbabwe and Swaziland) are members of the Association.

T: +27 (0)31 765 2514
info@cga.co.za
www.cga.co.za



Hortgro represents the South African pome and stone fruit growers in the international fruit arena, by focussing on production, research and technology, trade and markets, intelligence gathering, communications, and transformation and skills development within the deciduous fruit industry.

T: +27 (0)21 870 2900
info@hortgro.co.za
www.hortgro.co.za



SATI represents the table grape industry at primary grower level and delivers industry services to provide growers with a wide as possible choice of profitable markets to deliver on its vision to ensure a progressive, equitable and sustainable table grape industry

T: +27 (0)21 863 0366
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www.satgi.co.za



The Fresh Produce Exporters' Forum is a voluntary, non-profit organisation with more than 140 members, accounting for over 90% of fresh produce exported from South Africa.

T: +27 (0)21 526 0474
info@fpef.co.za
www.fpef.co.za

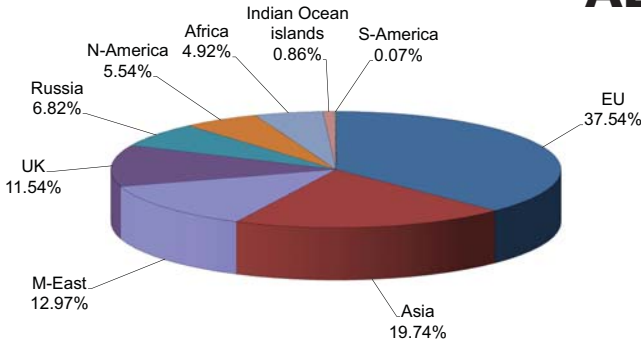


SUPPORTING SOUTH AFRICAN GROWERS

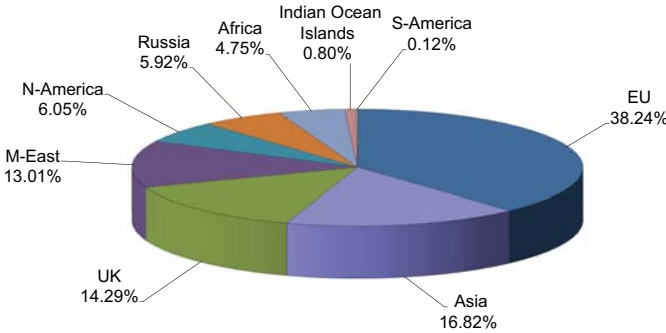
Berries ZA serves as a collective platform for South African berry producers to address common challenges for the benefit of the industry. The association represents blueberry, blackberry and raspberry producers.

T: +27 (0)82 411 0500
elzette@berriesza.co.za
www.berriesza.co.za

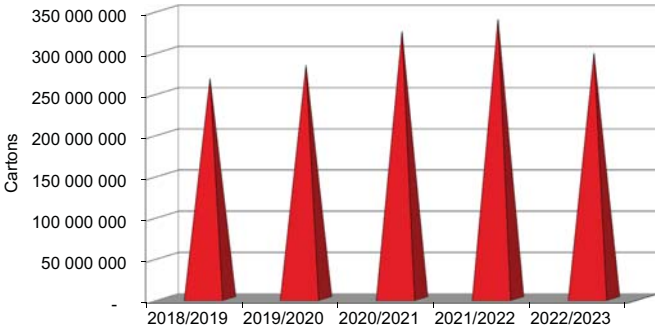
ALL FRESH FRUIT



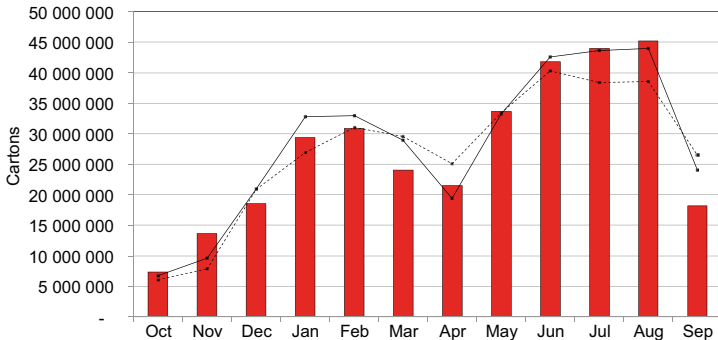
ALL FRESH FRUIT : PAST 5 YEARS - MAJOR DESTINATIONS



ALL FRESH FRUIT : 2022/23 SEASON - MAJOR DESTINATIONS



ALL FRESH FRUIT : PAST 5 SEASONS - PASSED FOR EXPORT



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Growers'
Association**
OF SOUTHERN AFRICA

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COMPETITIVE AND
MAXIMISING THE
LONG-TERM
PROFITABILITY OF
ITS MEMBERS**

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- ✓ Fund, control and implement research and development
- ✓ Develop industry intelligence
- ✓ Provide product and quality assurance
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- ✓ Assist growers long term sustainability
- ✓ Drive industry transformation
- ✓ Facilitate efficient logistics



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www.cga.co.za



PO Box 461, Hillcrest,
3650, KwaZulu-Natal
South Africa



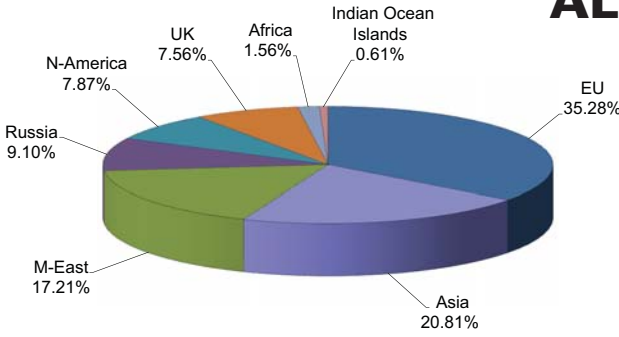
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CITRUS FRUIT

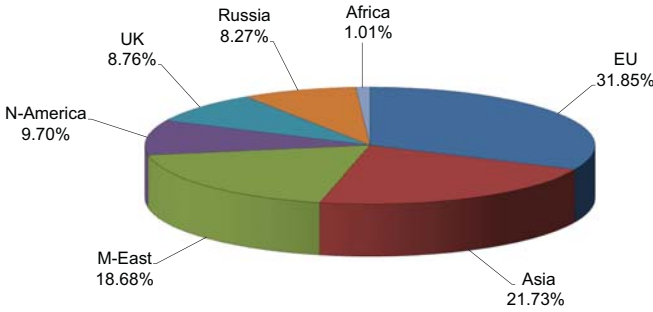
ALL CITRUS FRUIT

FEATURED VARIETIES

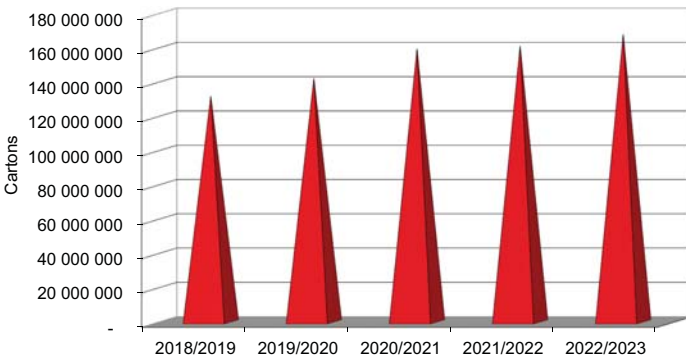
Grapefruit	1-9
Kumquats	1-11
Lemons	1-13
Limes	1-15
Oranges	1-17
Soft Citrus	1-21



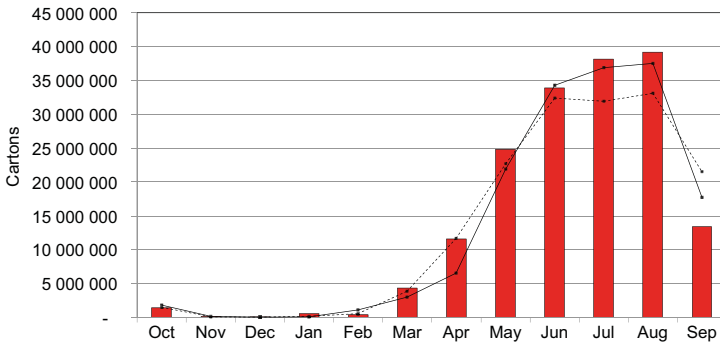
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CITRUS FRUIT

GRAPEFRUIT

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COMMERCIAL STORING

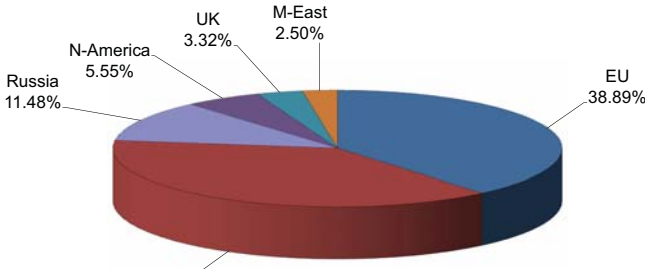
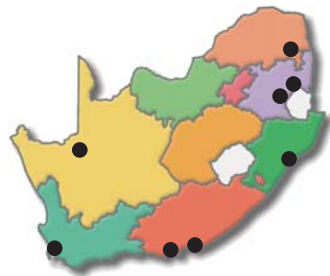
Optimum storage temp.
11°C to 8,5°C

Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

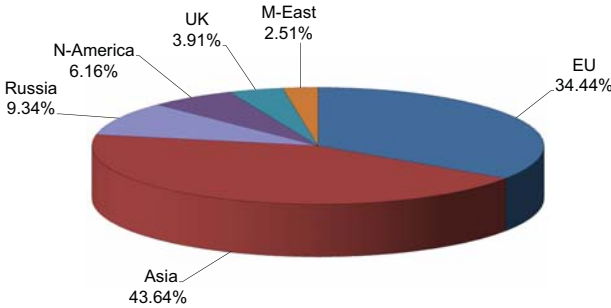
The storage and transport temperature of grapefruit varies between 16°C and 8,5°C. The standard procedure is however to constantly maintain the DAT at 7,0°C to ensure an average pulp temperature of 8,5°C. The following criteria is used to decide on the transport temperature:

- Early season fruit still requiring external skin colouration – store and ship at 16°C
- Optimum storage temperature of well coloured fruit – store and ship at 10°C
- When mixed with other citrus types – store and ship at 8,5°C
- Cold treatment to control quarantine pests – store and ship colder than 0,0°C

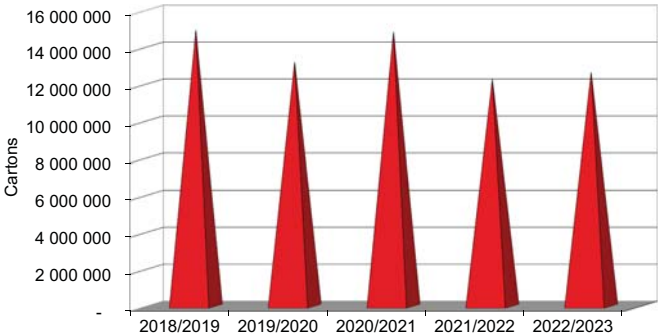
EXPORT PRODUCTION AREAS



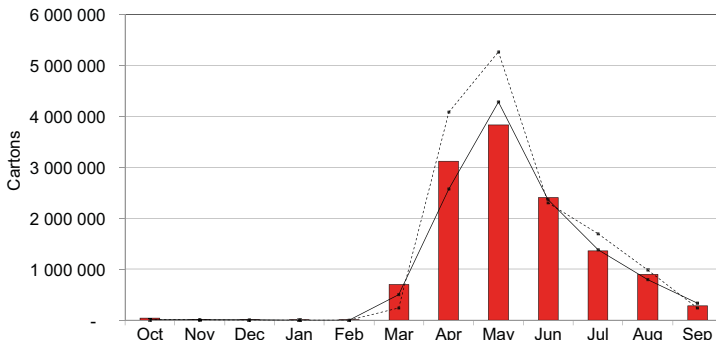
GRAPEFRUIT : PAST 5 YEARS - MAJOR DESTINATIONS



GRAPEFRUIT : 2022/23 SEASON - MAJOR DESTINATIONS



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CITRUS FRUIT

KUMQUATS

KUMQUATS

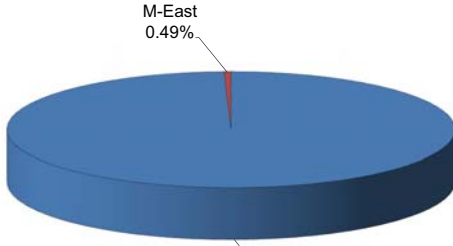


COMMERCIAL STORING

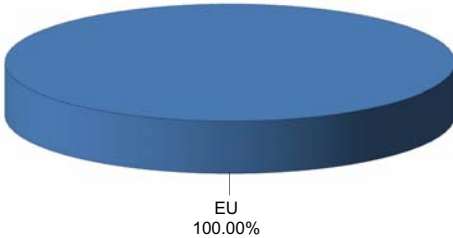
Optimum storage temp.
4,5 to 11°C.

Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

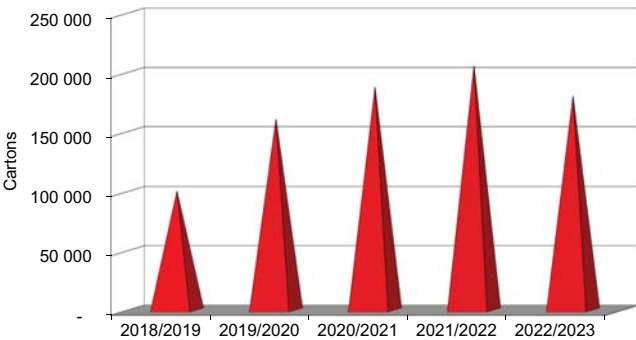
Kumquats are closely related to plants of the citrus genus. Commercial kumquats are usually hybrids between species of the kumquat genus and species of the citrus genus.



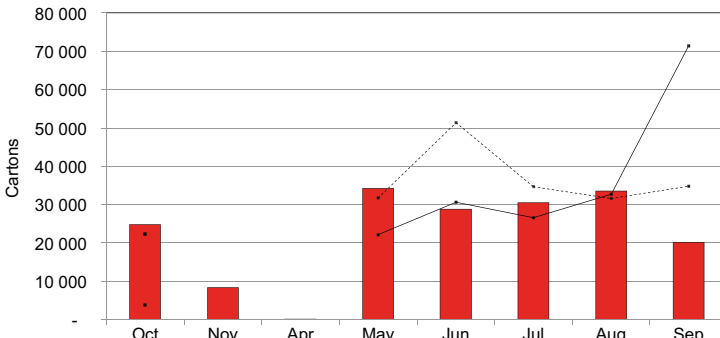
KUMQUATS : PAST 5 YEARS - MAJOR DESTINATIONS



KUMQUATS : 2022/23 SEASON - MAJOR DESTINATIONS

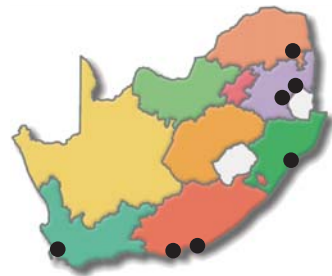


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EXPORT PRODUCTION AREAS





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Sunkist growers have deep roots in citrus. Generations of farmers were raised in the orchards where their parents (and grandparents) grew citrus, each generation passing down their knowledge to the next.

“When I tell someone that I’m a fourth-generation California orange grower, they just stop in their tracks. There aren’t many businesses that are family owned and operated for more than 100 years. And our family has been doing it for even longer.”

– Gary Laux, fourth generation Sunkist® grower

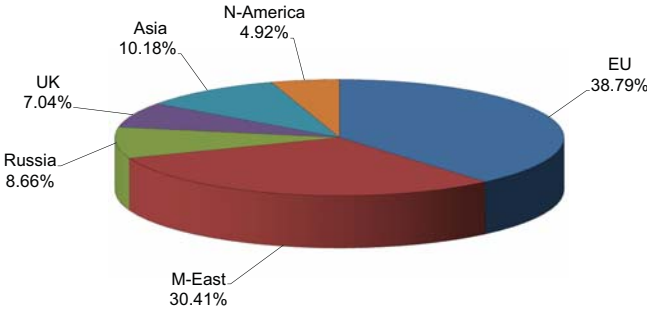
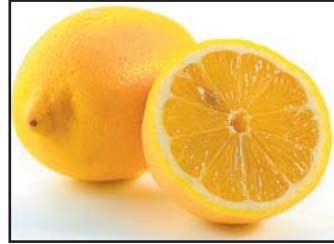
Learn more about Sunkist’s family farmers at [SunkistFamilyStories.com](https://www.sunkistfamilystories.com).

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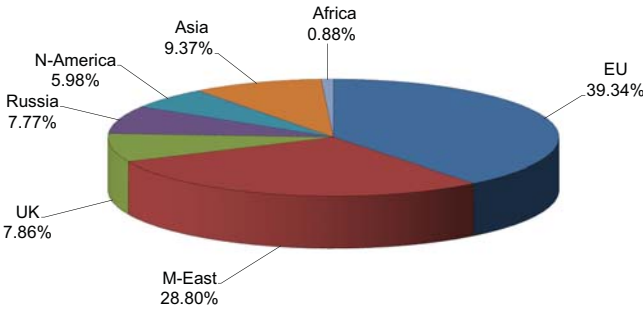


**CITRUS FRUIT
LEMONS**

LEMONS



LEMONS : PAST 5 YEARS - MAJOR DESTINATIONS



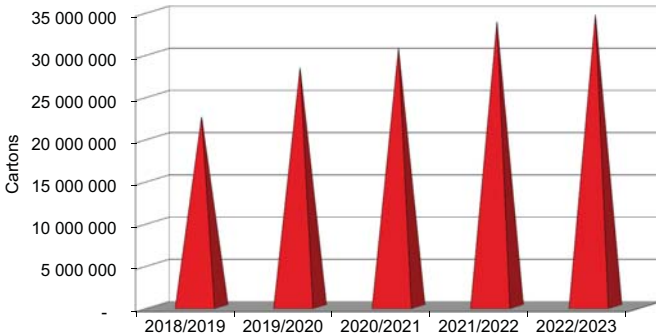
LEMONS : 2022/23 SEASON - MAJOR DESTINATIONS

COMMERCIAL STORING

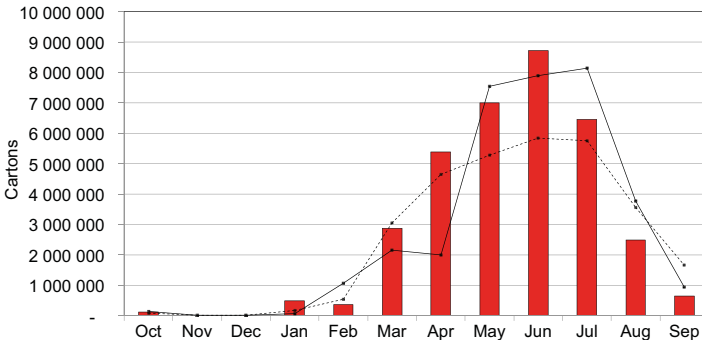
Optimum storage temp.
7,0°C to 10,0°C

Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

The storage and transport temperature of lemons vary between 10°C and 7,0°C. The warmer temperature of 10°C is used at the beginning of the season to enhance colour development. The optimum shipping temperature is 7,0°C. Lemons to destinations requiring in transit cold treatment must be pre-cooled and shipped below 0,0°C depending on the requirements of the importing country.

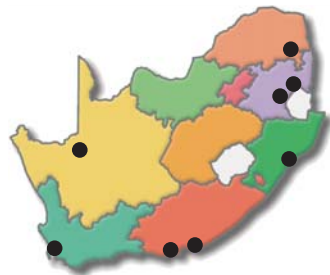


LEMONS : PAST 5 SEASONS - PASSED FOR EXPORT



LEMONS : 2022/23 SEASON - PASSED FOR EXPORT
(- - - 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS





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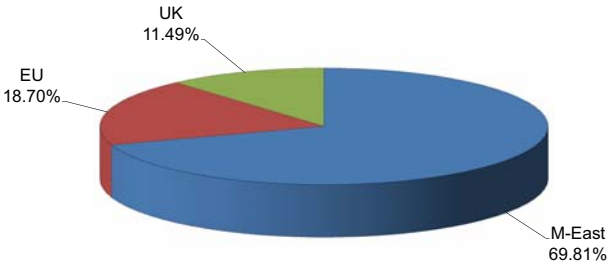
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CITRUS FRUIT

LIMES

LIMES

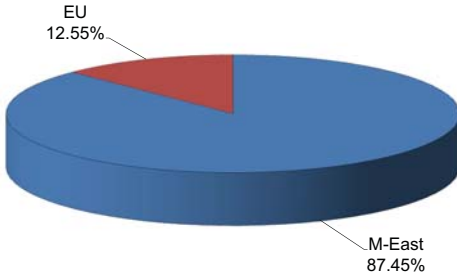


LIMES : PAST 5 YEARS - MAJOR DESTINATIONS

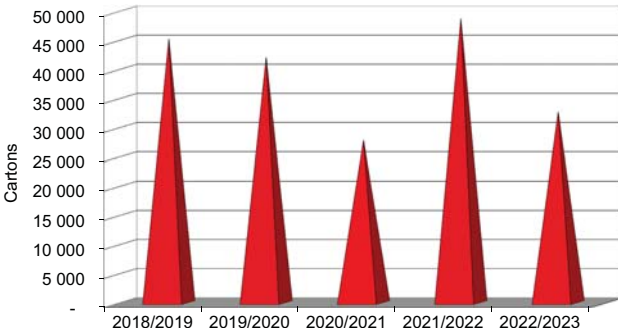


COMMERCIAL STORING

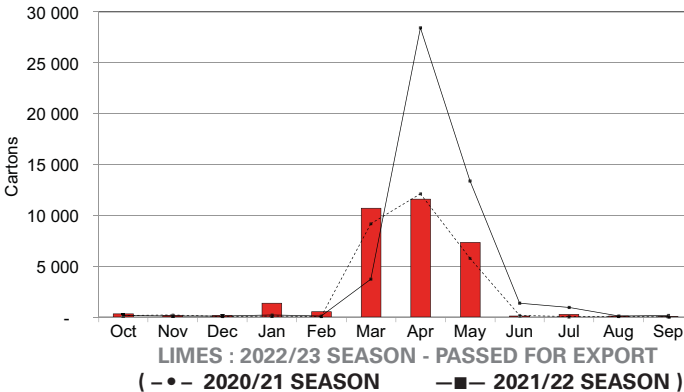
Optimum storage temp.
11,0°C
Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15



LIMES : 2022/23 SEASON - MAJOR DESTINATIONS

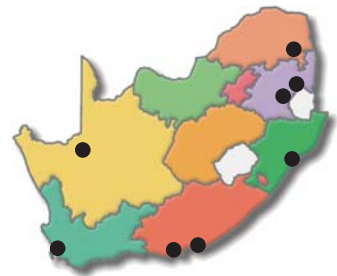


LIMES : PAST 5 SEASONS - PASSED FOR EXPORT



LIMES : 2022/23 SEASON - PASSED FOR EXPORT
(- - - 2020/21 SEASON - ■ - 2021/22 SEASON)

EXPORT PRODUCTION AREAS

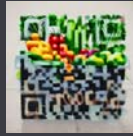


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CITRUS FRUIT

ORANGES

ORANGES



COMMERCIAL STORING

Optimum storage temp. 4,5°C

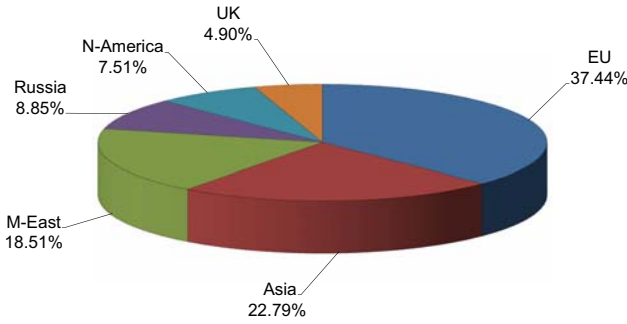
Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

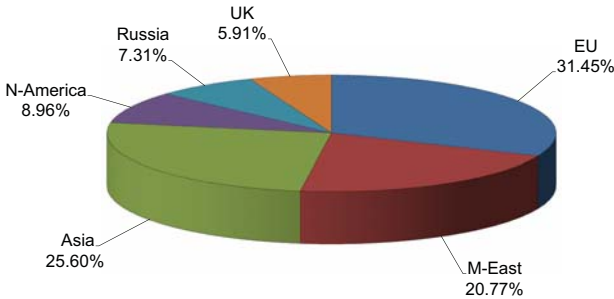
Oranges store best at a pulp temperature of 4,5°C. Early season oranges can be stored and transported at 11°C to promote external colour development. It is however recommended that a DAT of 10°C be considered especially for oranges packed in telescopic cartons to ensure a pulp temperature closer to 11°C.

Prompt cooling soon after harvest should be applied and optimum pulp temperatures should be reached within 6 days from harvest. This especially applies to the more sensitive Washington Naval cultivar.

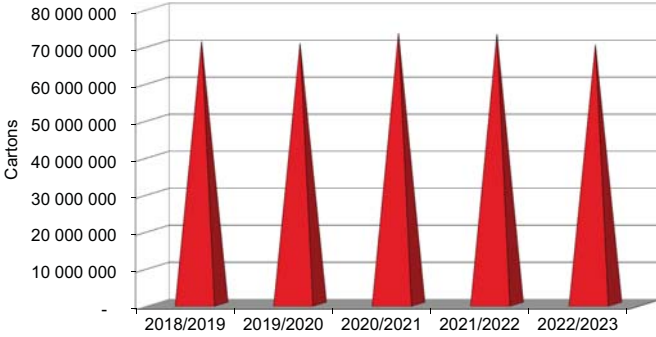
As with lemons and grapefruit, oranges can be held successfully at minus 0,5°C for 14 days to comply with cold treatment requirements.



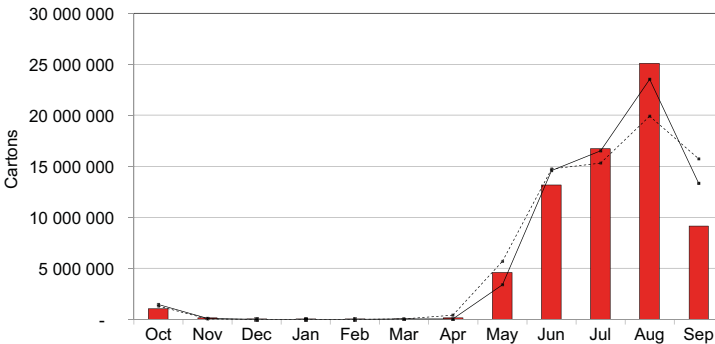
ORANGES : PAST 5 YEARS - MAJOR DESTINATIONS



ORANGES : 2022/23 SEASON - MAJOR DESTINATIONS



ORANGES : PAST 5 SEASONS - PASSED FOR EXPORT



ORANGES : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS





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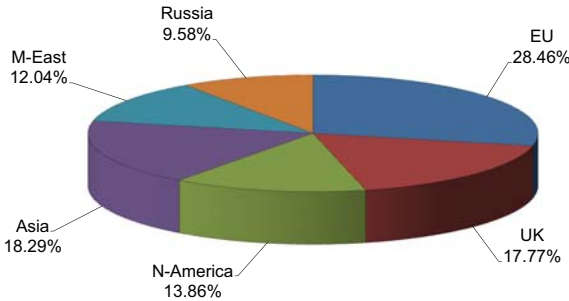
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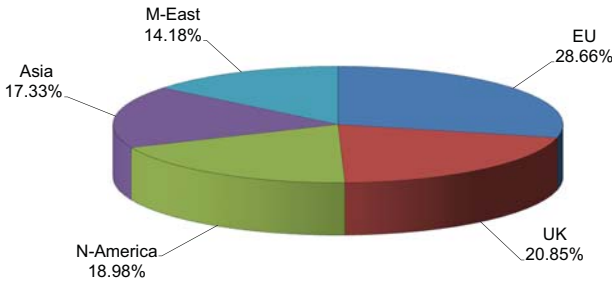
CITRUS FRUIT

SOFT CITRUS

SOFT CITRUS



SOFT CITRUS : PAST 5 YEARS - MAJOR DESTINATIONS

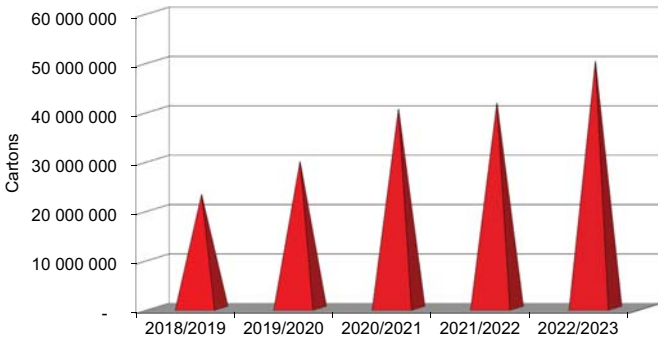


SOFT CITRUS : 2022/23 SEASON - MAJOR DESTINATIONS

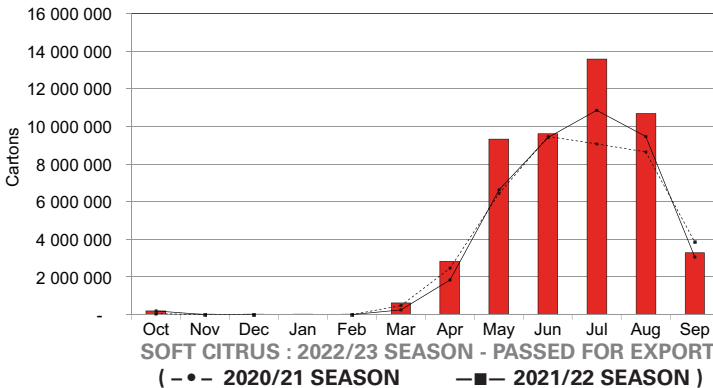
COMMERCIAL STORING
 Optimum storage temp. 3,5°C
 Optimum storage RH 95%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

Soft citrus, easy peelers or mandarins are common names for this group of citrus cultivars. Fruit of these cultivars are normally softer than the standard citrus fruit and have a loose skin that can easily be removed giving rise to these names.

Some of the commercial cultivars that are exported are Clementines, Ellendales, Minneolas, Satsumas, Shamoutis, Tambors and Tangerines. Fruit of these cultivars are very delicate in texture and flavour and are more temperature sensitive than the traditional oranges. Cooling to 3,5°C as soon as possible after harvest and maintenance of the cold chain throughout is very important to maintain quality. Soft citrus are sometimes kept at 11,0°C for relatively short periods to stimulate colour development should it be required.



SOFT CITRUS : PAST 5 SEASONS - PASSED FOR EXPORT



SOFT CITRUS : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS



NEW FACILITY'S OPERATIONAL EFFICIENCY SETS NEW STANDARD



Situated in the heart of South Africa's pome fruit production area, Betko has grown exponentially over the past 25 years and has become a prominent name in the fruit export industry. Now, courtesy of their newly completed facility, specifically designed to improve operational efficiency, Betko can accommodate the cooling and distribution of more than 300 pallets per day.



To achieve this, Betko entrusted the design and project management of fifteen new purpose-designed, 44-pallet pull-down tunnels and two new holding stores (with approximately 1,300 pallet positions per room) to the specialist refrigeration and food services group, GEA Africa. The refrigeration systems for the tunnels are based on GEAs tried-and-tested design that makes provision for a control valve assembly with associated evaporator coils for individual control of each tunnel. The product and air temperature probes in the tunnels are connected to a monitoring system that allows operators to print graphs of historical data. GEA also designed a pump re-circulated liquid ammonia cooling system that was tied into the existing plant room. To cope with the added refrigeration load, an addition screw compressor package, evaporative condenser and accumulator vessel were installed. The facility also includes dedicated dispatch facilities with three electro-hydraulic docking levellers, an additional loading platform and new operational management offices.



Apart from optimal refrigeration design, various green design principles were implemented. Daniel Visser, Project Manager for GEA, highlights a few areas: "The roofing structure has been designed to optimally utilise as much natural light and ventilation within the facility and office space. This was continued in the roof void where valves stations are situated and our service technicians require suitable working conditions. The building was also optimally orientated and designed for future solar panel installation as already proposed and planned. The two holding stores feature insulated floors to minimise energy losses through the 1,500 m² floor space. Insulation thickness was increased in the walls and roof to improve thermal performance and reduce the infiltration loads on the refrigeration system."



High-speed doors are used to prevent thermal losses and breaks in the cold chain while mobile racking with four levels of storage ensures that best use of available floor space is made. In addition, the overhead offices in the dispatch area have suspended walkways on both the marshalling yard and warehouse sides – allowing the management team to have a 360° view of operations and ensures quick intervention if needed. With eight dedicated probes per tunnel, Betko has much better control over the cooling process, and cold sterilisation shipments can now be loaded significantly sooner. The improved product flow has improved general container loading times dramatically.

"We can now, while maintaining the cold chain, load a container of 21 pallets within 15 minutes – an improvement by miles," says Hein Langenhoven, Logistic Manager at Betko. "Cold storage capacity has increased to 2,600 pallets in the holding rooms, allowing us to accommodate shipping delays which occur quite frequently in peak season. Special shipment capacity has also increased dramatically from four containers per week to sixty."



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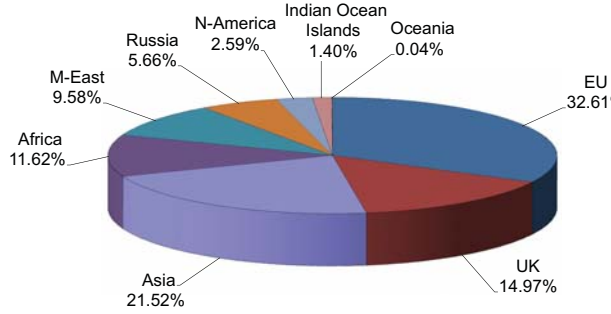
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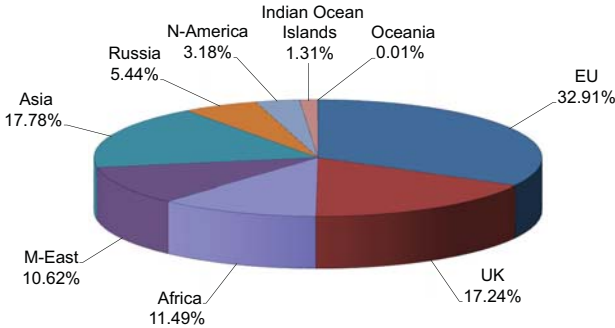
DECIDUOUS FRUIT

ALL DECIDUOUS FRUIT

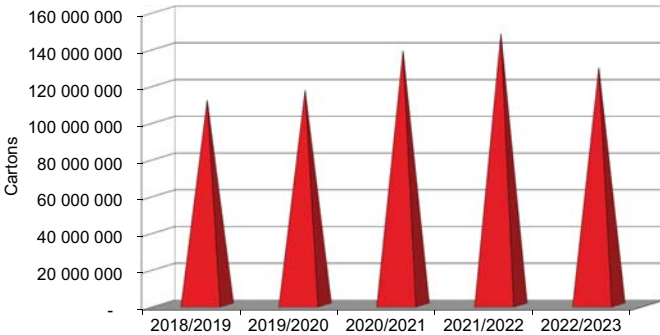


FEATURED VARIETIES

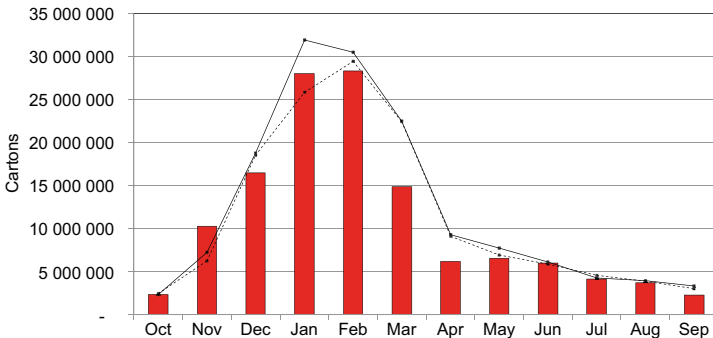
Apples	1-27
Apricots	1-29
Grapes	1-31
Nectarocots	1-35
Nectarines	1-37
Peaches	1-39
Pears	1-41
Plums/Prunes	1-43



ALL DECIDUOUS FRUIT : 2022/23 SEASON - MAJOR DESTINATIONS



ALL DECIDUOUS FRUIT : PAST 5 SEASONS - PASSED FOR EXPORT



ALL DECIDUOUS FRUIT : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)



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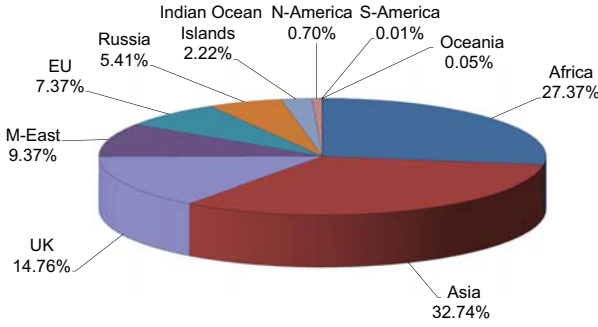
Although we enjoy the results of their labour every day, it's easy to forget the importance of farmers and the impact they have on our lives. They're truly the heartbeat of our economy, as what they grow is crucial to the growth of South Africa. That's why Standard Bank is the bank that makes a plan for farmers with a full banking suite that includes everything from equipment finance to payroll management. Because when a farmer wins, we all win. **For more information, visit standardbank.co.za/agribusiness.**

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DECIDUOUS FRUIT

APPLES

APPLES



APPLES : PAST 5 YEARS - MAJOR DESTINATIONS



COMMERCIAL STORING

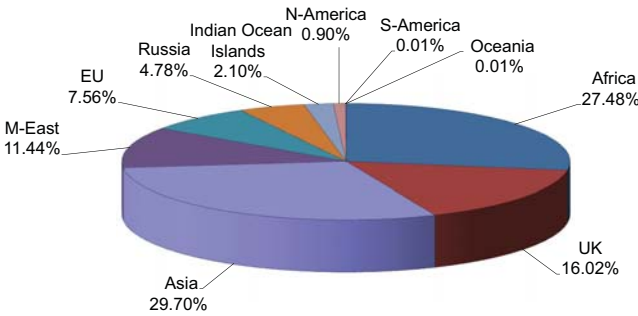
Optimum storage temp. 0,5°C

Optimum storage RH 95%

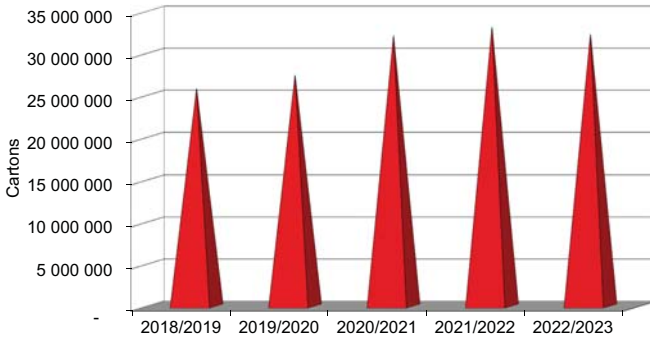
Optimum fresh air circulation (cubic m per hour – m³h⁻¹) None

All South African commercially grown apples are cold stored, transported and shipped to distant markets at a pulp temperature of minus 0,5°C. Storage life of all cultivars grown for export exceeds 4 months and this can be extended to more than 8 months by applying controlled atmosphere storage.

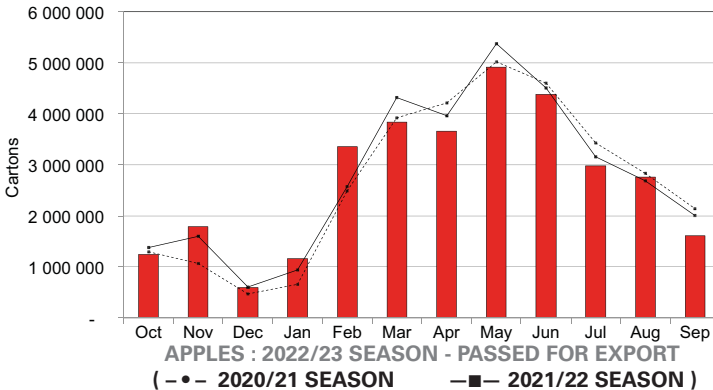
Some cultivars, however, are more sensitive to higher storage and transit temperatures. Yellowing and softening may become a problem later during the season while physiological disorders such as bitter pit are also temperature related. Maintenance of pulp temperature at minus 0,5 ± 0,5°C at all times is therefore important with cultivars such as Golden Delicious and all Red types. Some of the Red types have lower sugar content and are therefore more susceptible to freezing injury when exposed to temperatures below minus 1,5°C.



APPLES : 2022/23 SEASON - MAJOR DESTINATIONS



APPLES : PAST 5 SEASONS - PASSED FOR EXPORT



APPLES : 2022/23 SEASON - PASSED FOR EXPORT
 (---●--- 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS



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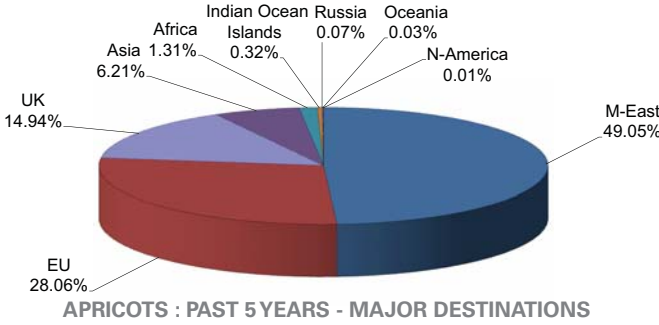
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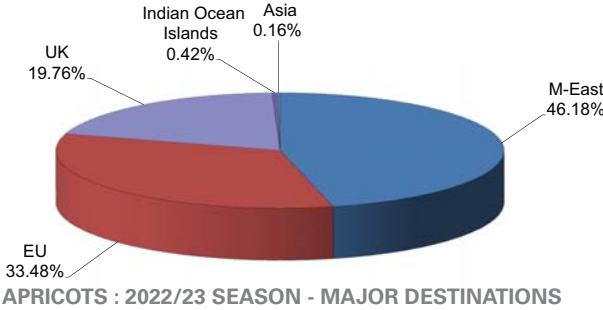
KEEPING IT COOL  **CCS**
LOGISTICS

**DECIDUOUS FRUIT
APRICOTS**

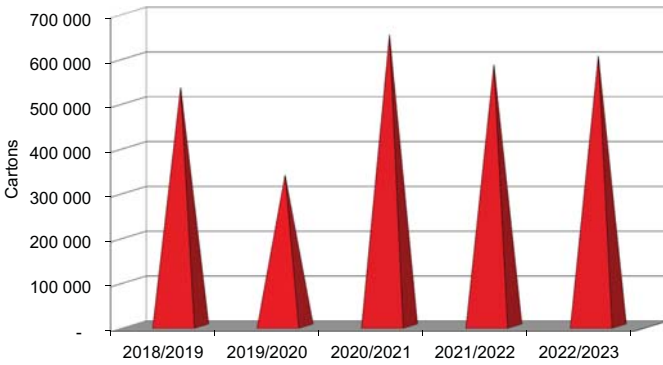
APRICOTS



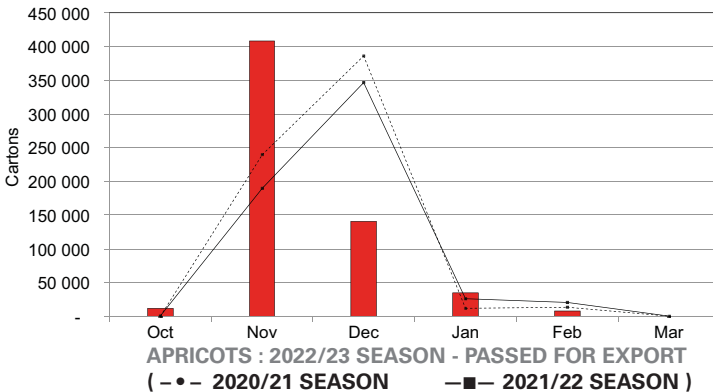
APRICOTS : PAST 5 YEARS - MAJOR DESTINATIONS



APRICOTS : 2022/23 SEASON - MAJOR DESTINATIONS



APRICOTS : PAST 5 SEASONS - PASSED FOR EXPORT



APRICOTS : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

COMMERCIAL STORING
 Optimum storage temp. 0,5°C
 Optimum storage RH 95%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) None

Apricots are very sensitive to warm pulp temperatures and must be handled and stored at optimum conditions to reduce losses. All cultivars grown for sea export have a storage life of 28 days and more at a pulp temperature of minus 0,5°C.

Apricots also have a relatively high rate of respiration and proper pre-cooling and adequate air circulation through the carton are very important.

EXPORT PRODUCTION AREAS





FROM OUR TABLE (MOUNTAIN) TO YOURS

Table grapes from South Africa

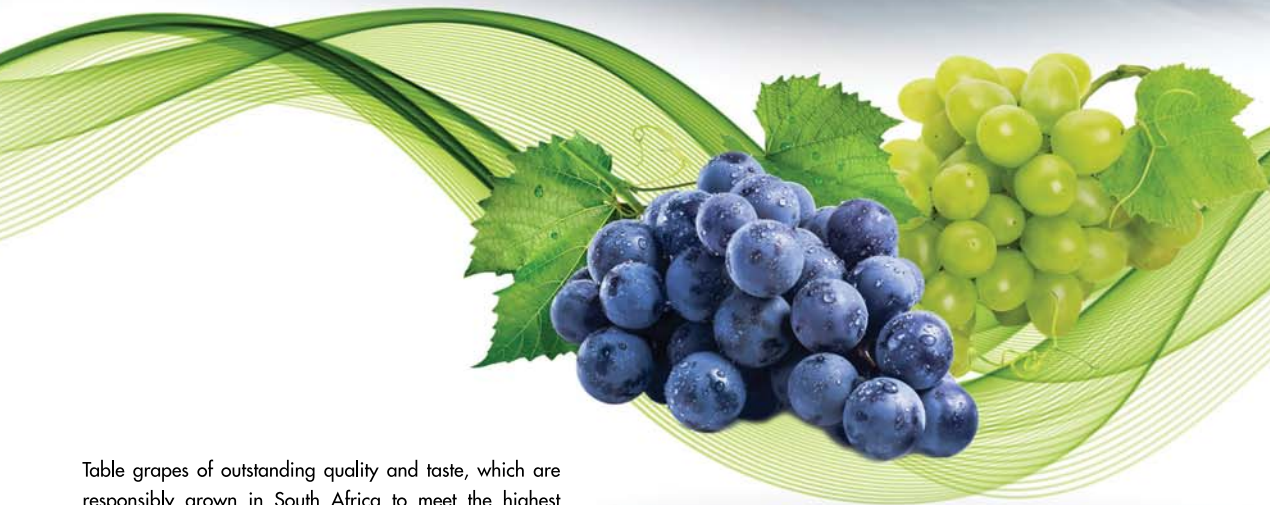


Table grapes of outstanding quality and taste, which are responsibly grown in South Africa to meet the highest global standards, start the journey from the foot of Table Mountain to reach markets and tables around the world.

Assisting producers to retain, grow and optimise markets is the most important function of the South African Table Grape Industry (SATI), an enabling grower association. SATI represents growers on key government and industry initiatives aimed at creating more opportunities from ownership to accessing new markets in a sustainable way.

SATI assists growers with industry information, transformation, research, technology and technical transfer, as well as training and education with the objective to establish South Africa as the Preferred Country of Origin for the world's best tasting grapes.

The next time you have grapes, make sure they come from our table!



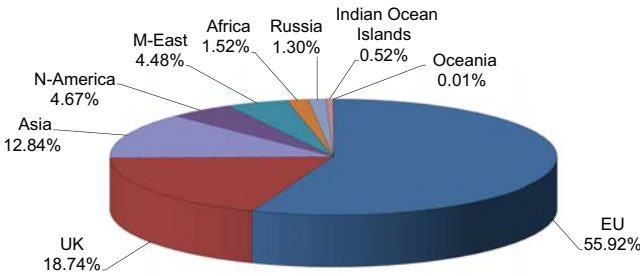
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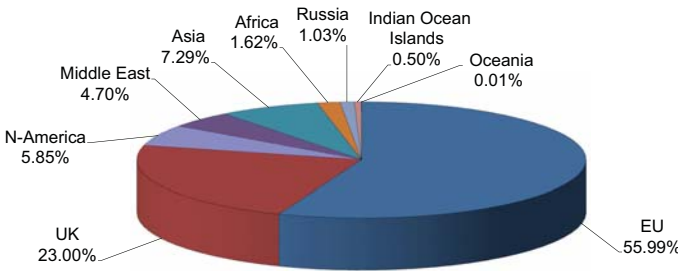
DECIDUOUS FRUIT

GRAPES

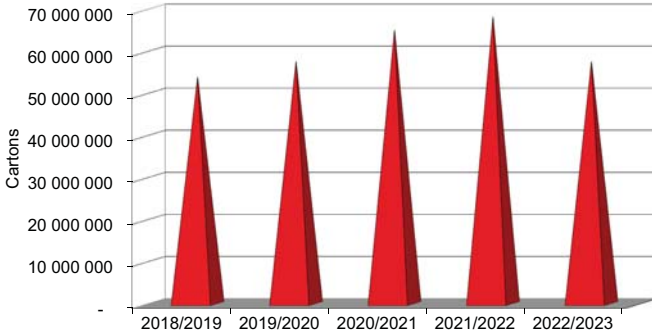
GRAPES



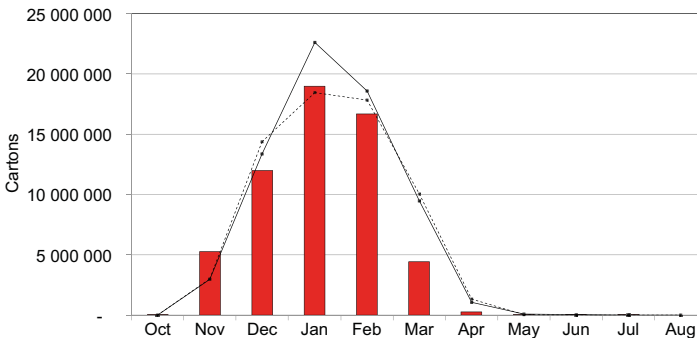
GRAPES : PAST 5 YEARS - MAJOR DESTINATIONS



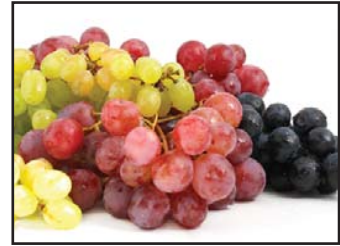
GRAPES : 2022/23 SEASON - MAJOR DESTINATIONS



GRAPES : PAST 5 SEASONS - PASSED FOR EXPORT



GRAPES : 2022/23 SEASON - PASSED FOR EXPORT
 (- • - 2020/21 SEASON - ■ - 2021/22 SEASON)



COMMERCIAL STORING

Optimum storage temp. 0,5°C

Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹) None

Grapes are non-climacteric fruit and therefore do not ripen after picking. They also have a low rate of respiration, but must be stored and shipped at a pulp temperature of minus 0,5°C and a relative humidity of 95%. This is to avoid decay (especially Botrytis cinerea) and desiccation of stems and berries.

Grapes are packed in cartons in polyethylene bags containing a sheet of specially prepared paper that produces sulphur dioxide gas. Handling procedures, packaging, cooling rates and temperature regimes are all engineered to maintain optimum sulphur dioxide and humidity conditions around the grapes in the polybag.

Although the generation of sulphur dioxide is carefully controlled and the release to the outside air much reduced by the polyethylene bag, grapes should not be shipped with sensitive products such as apples.

EXPORT PRODUCTION AREAS





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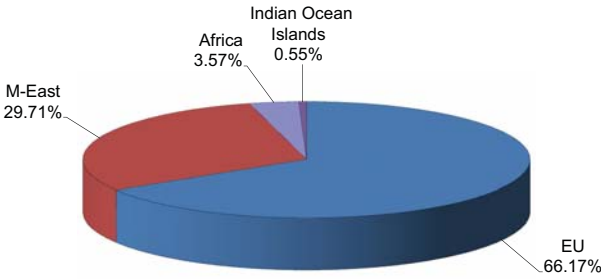
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DECIDUOUS FRUIT

NECTARCOTS

NECTARCOTS

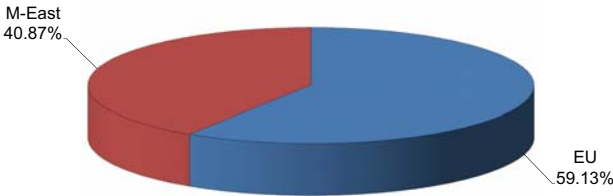


NECTARCOTS : PAST 5 YEARS - MAJOR DESTINATIONS

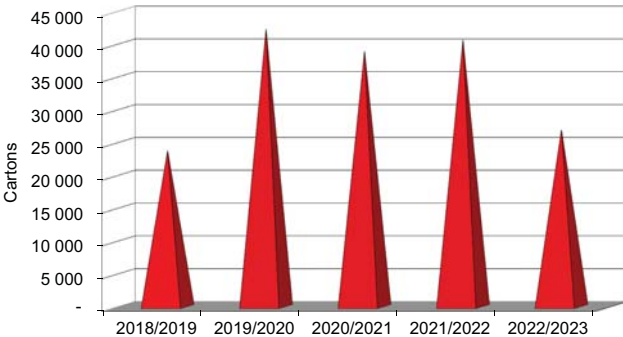
COMMERCIAL STORING
 Optimum storage temp. 0,5°C
 Optimum storage RH 95%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) None

Nectarines are sensitive to warm pulp temperatures and must be handled and stored at optimum conditions to reduce losses. All cultivars grown for sea export have a storage life of 28 days and more at a pulp temperature of minus 0,5°C.

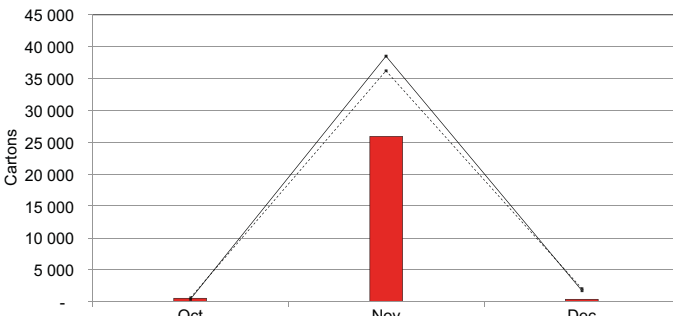
Like Apricots, Nectarines also have a relatively high rate of respiration and proper precooling and adequate air circulation through the carton are very important.



NECTARCOTS : 2022/23 SEASON - MAJOR DESTINATIONS



NECTARCOTS : PAST 5 SEASONS - PASSED FOR EXPORT



NECTARCOTS : 2022/23 SEASON - PASSED FOR EXPORT
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EXPORT PRODUCTION AREAS

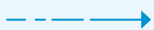




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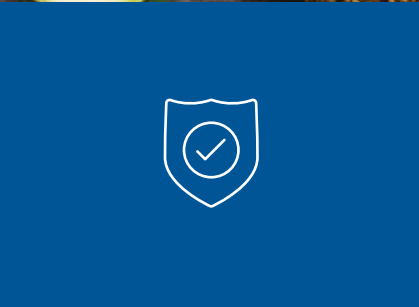
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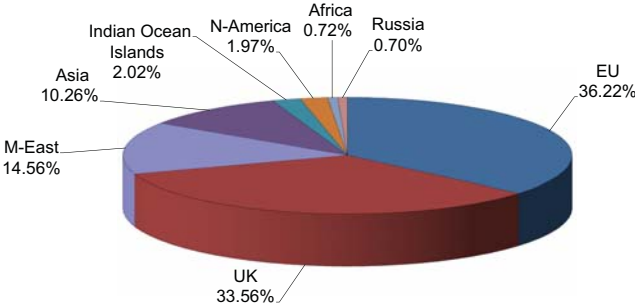
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DECIDUOUS FRUIT
NECTARINES

NECTARINES



NECTARINES : PAST 5 YEARS - MAJOR DESTINATIONS



COMMERCIAL STORAGE

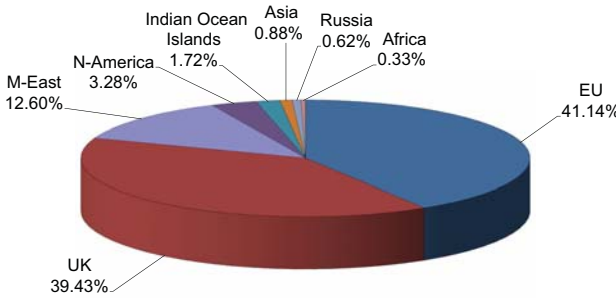
Optimum storage temp. 0,5°C

Optimum storage RH 95%

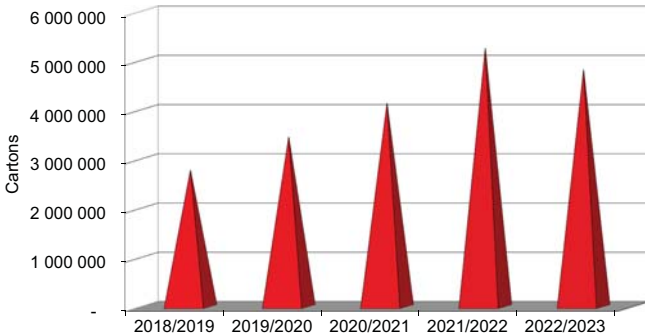
Optimum fresh air circulation (cubic m per hour – m³h⁻¹) None

Peaches and nectarines differ in appearance, but the physiology of the fruits are much the same. Peaches and nectarines are therefore handled and stored similarly although different cultivars may respond differently during storage and transport. Most cultivars of peaches and nectarines may develop a physiological disorder known as woolliness. This situation is characterised by a lack of juice at the eating (ripe) stage.

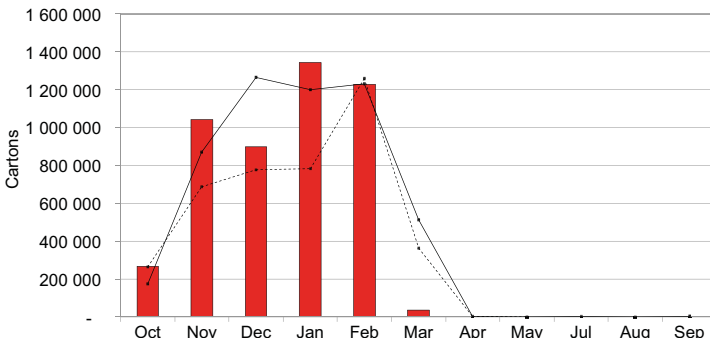
Maturity, storage and ripening temperatures are important factors in the development of this disorder. Woolliness can be controlled effectively by delaying precooling to allow the fruit to ripen up slightly before storage. Prompt and fast cooling to a pulp temperature of minus 0,5°C after the initial delay period is very important. A very strong interaction exists between maturity, temperature and storage period. For this reason every consignment, container and shipment must be considered individually. Special instructions, when necessary, will therefore be formulated.



NECTARINES : 2022/23 SEASON - MAJOR DESTINATIONS




NECTARINES : PAST 5 SEASONS - PASSED FOR EXPORT



NECTARINES : 2022/23 SEASON - PASSED FOR EXPORT
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**DECIDUOUS FRUIT
PEACHES**

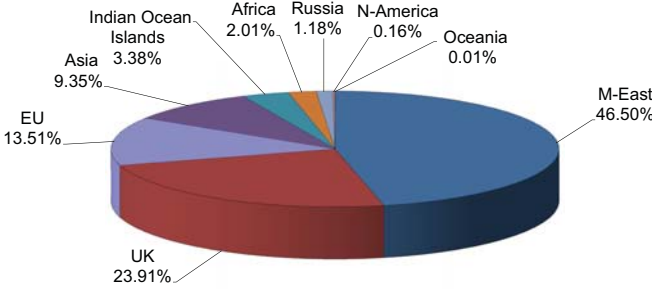
PEACHES



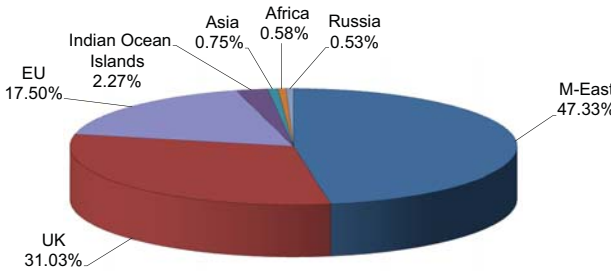
COMMERCIAL STORING
 Optimum storage temp. 0,5°C
 Optimum storage RH 95%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) None

Peaches and nectarines differ in appearance, but the physiology of the fruits are much the same. Peaches and nectarines are therefore handled and stored similarly although different cultivars may respond differently during storage and transport. Most cultivars of peaches and nectarines may develop a physiological disorder known as woolliness. This situation is characterised by a lack of juice at the eating (ripe) stage. Maturity, storage and ripening temperatures are important factors in the development of this disorder. Woolliness can be controlled effectively by delaying pre-cooling to allow the fruit to ripen up slightly before storage. Prompt and fast cooling to a pulp temperature of minus 0,5°C after the initial delay period is very important. A very strong interaction exists between maturity, temperature and storage period. For this reason every consignment, container and shipment must be considered individually. Special instructions, when necessary, will therefore be formulated.

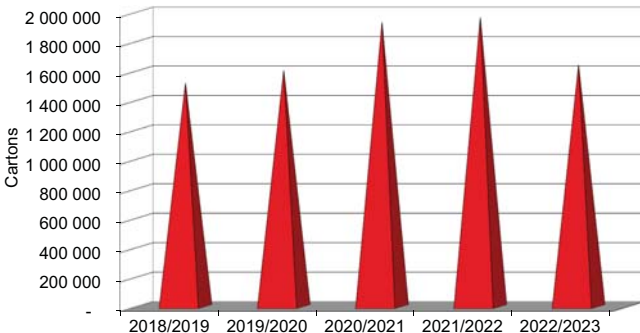
EXPORT PRODUCTION AREAS



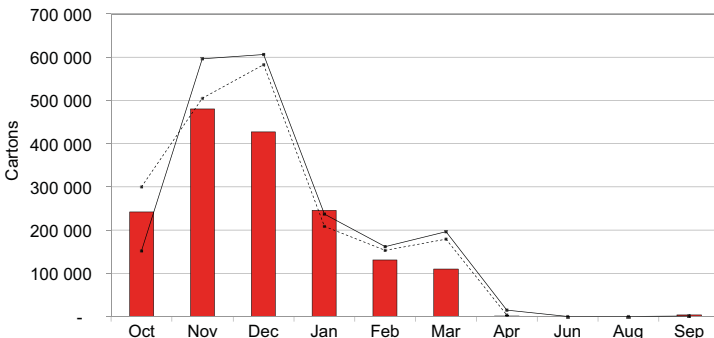
PEACHES : PAST 5 YEARS - MAJOR DESTINATIONS



PEACHES : 2022/23 SEASON - MAJOR DESTINATIONS



PEACHES : PAST 5 SEASONS - PASSED FOR EXPORT



PEACHES : 2022/23 SEASON - PASSED FOR EXPORT
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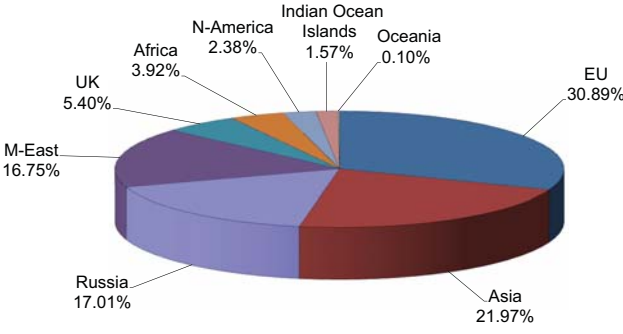
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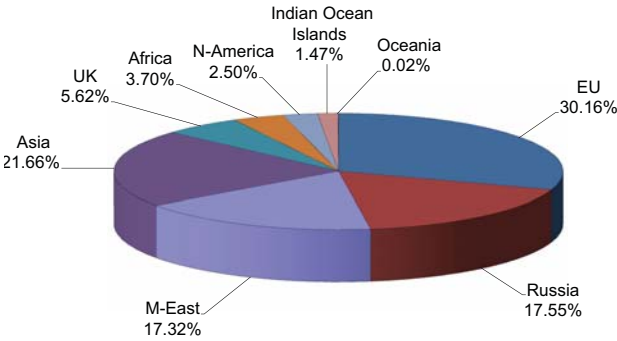
DECIDUOUS FRUIT

PEARS

PEARS



PEARS : PAST 5 YEARS - MAJOR DESTINATIONS



PEARS : 2022/23 SEASON - MAJOR DESTINATIONS

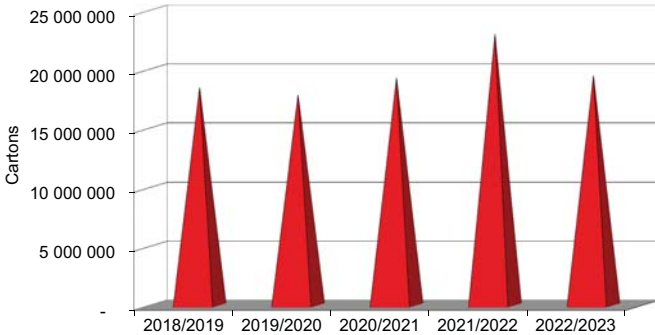
COMMERCIAL STORING

Optimum storage temp. 0,5°C

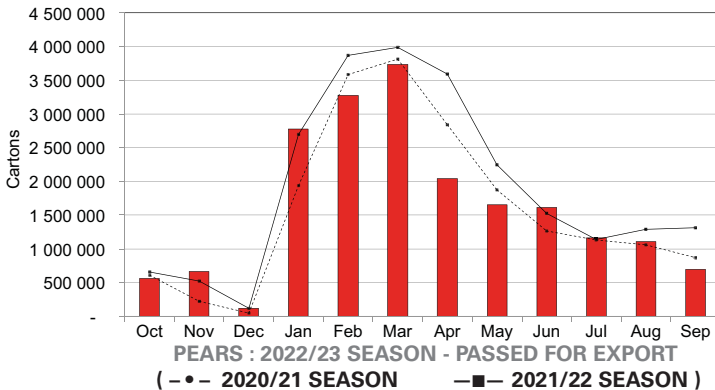
Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹) None

All commercially grown South African pears are cold stored, transported and shipped to distant markets at a pulp temperature of minus 0,5°C. Storage life differs between cultivars and ranges from 10 weeks to 10 months. Fast precooling to minus 0,5°C immediately after picking and maintenance of the cold chain is of paramount importance. Summer pears are however stored and shipped at minus 1,5°C to avoid ripening. Controlled atmosphere (CA) storage can double the storage life of most of the pear cultivars. Packaging in polyethylene bags also has beneficial effects on storage and shelf life, but affects cooling. Forced air cooling and correct handling procedures are required to maintain quality. The Summer Pear cultivars are very sensitive to temperature fluctuations and must be properly pre-cooled and handled carefully. The maximum pulp temperature of these cultivars must be 0,5°C at loading with an optimum of minus 1,5°C. Packham's Triumph pears, on the other hand, can be stored for very long periods but are more susceptible to freezing because of a relatively low sugar content.



PEARS : PAST 5 SEASONS - PASSED FOR EXPORT



PEARS : 2022/23 SEASON - PASSED FOR EXPORT

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DECIDUOUS FRUIT

PLUMS & PRUNES

PLUMS & PRUNES



COMMERCIAL STORING

Optimum storage temp.

Optimum storage temperature varies according to cultivar and voyage. Contact PPECB for more detail.

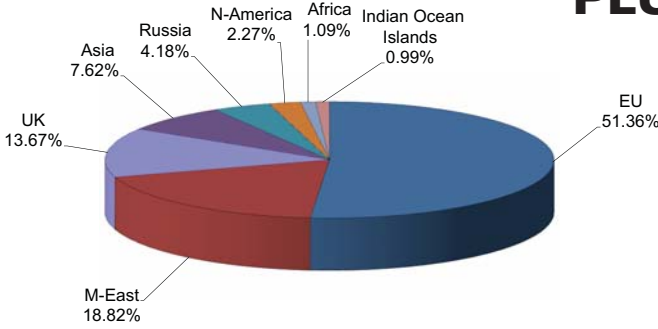
Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹)

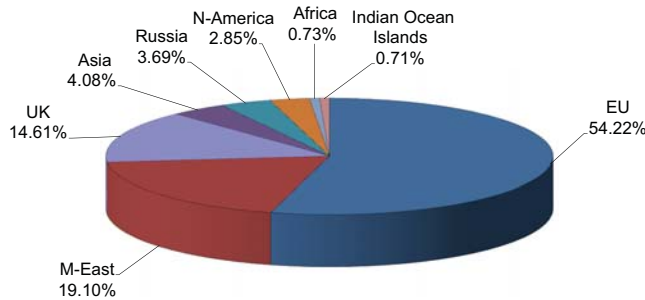
Plums: 15 Prunes: None

Locally grown plums/prunes can be cold stored for at least 28 days provided the correct storage temperature is applied. Some of the commercial cultivars except Golden King develop physiological breakdown of the flesh when cold stored at minus 0,5°C for more than 10 days. Raising the temperature from minus 0,5°C to 7,5°C 10 days after picking, very effectively controls this disorder. This concept is referred to as "dual temperature storage". Accelerated ripening associated with the development of heat of respiration occurs at 7,5°C. It is therefore necessary to again reduce the carrying temperature to minus 0,5°C after approximately 7 days at 7,5°C. The application of these temperatures sometimes varies because of different cultivar reaction, length of voyage and market requirements.

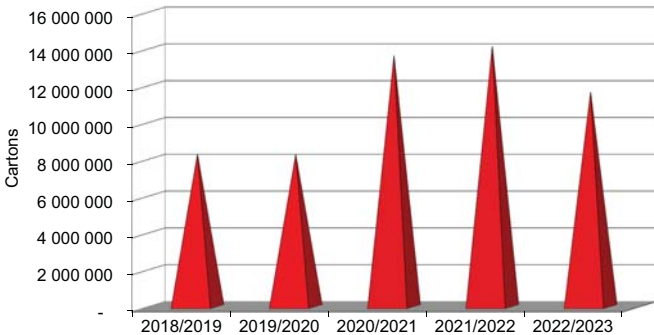
EXPORT PRODUCTION AREAS



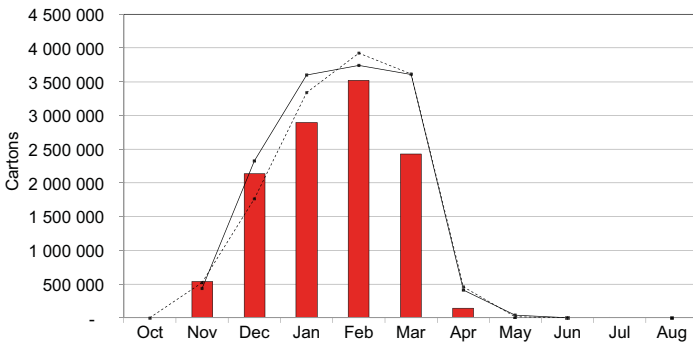
PLUMS & PRUNES : PAST 5 YEARS - MAJOR DESTINATIONS



PLUMS & PRUNES : 2022/23 SEASON - MAJOR DESTINATIONS



PLUMS & PRUNES : PAST 5 SEASONS - PASSED FOR EXPORT



PLUMS & PRUNES : 2022/23 SEASON - PASSED FOR EXPORT
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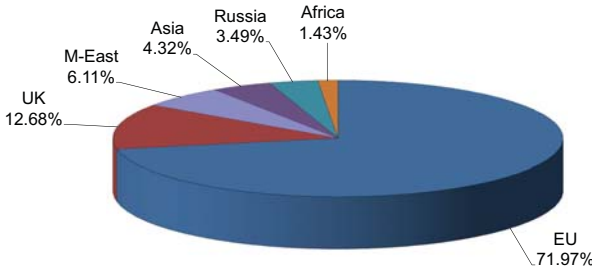
FRESHNESS FOR THE ZULU KINGDOM

SUBTROPICAL FRUIT

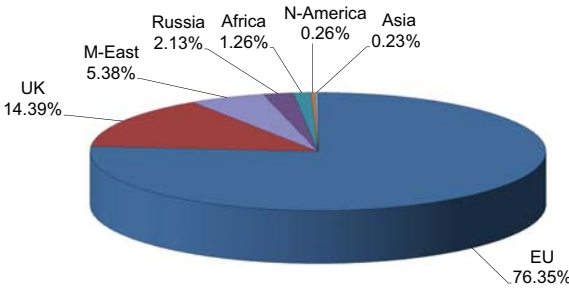
ALL SUBTROPICAL FRUIT

FEATURED VARIETIES

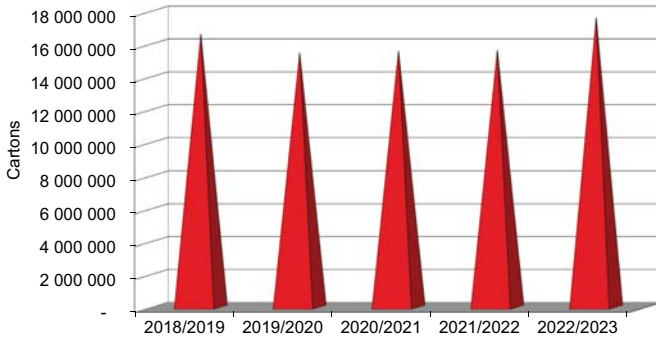
Avocados	1-45
Dragon Fruit	1-47
Lychees	1-48
Mangoes	1-49



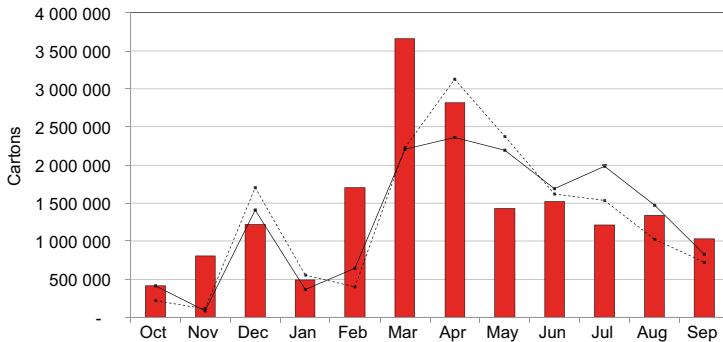
ALL SUBTROPICAL FRUIT : PAST 5 YEARS - MAJOR DESTINATIONS



ALL SUBTROPICAL FRUIT : 2022/23 SEASON - MAJOR DESTINATIONS



ALL SUBTROPICAL FRUIT : PAST 5 SEASONS - PASSED FOR EXPORT



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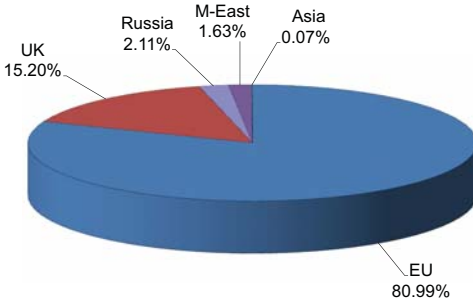
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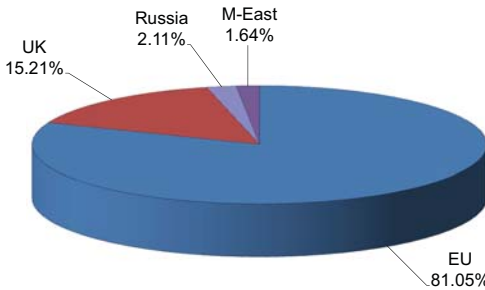
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**SUBTROPICAL FRUIT
AVOCADOS**

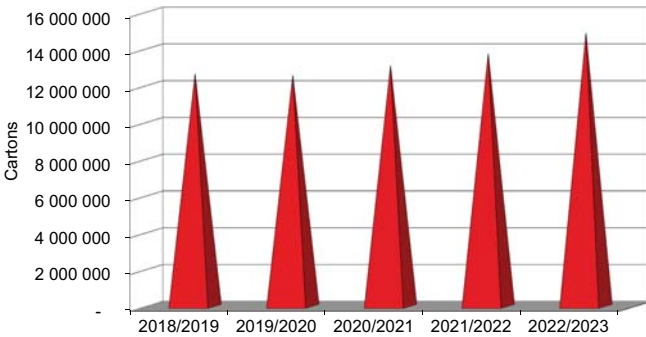
AVOCADOS



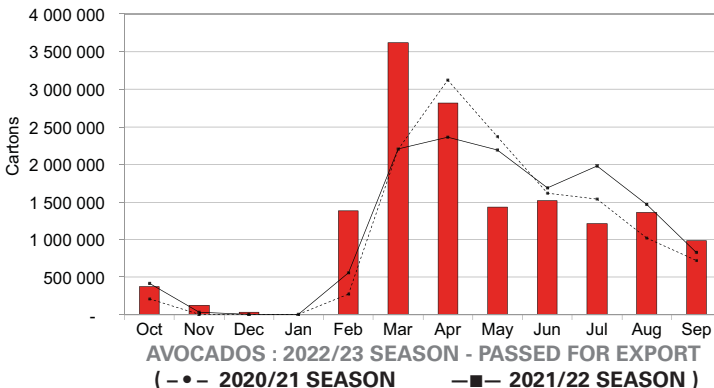
AVOCADOS : PAST 5 YEARS - MAJOR DESTINATIONS



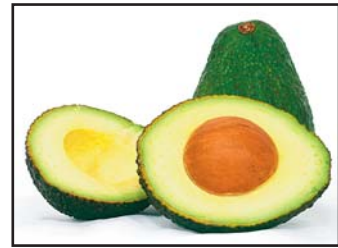
AVOCADOS : 2022/23 SEASON - MAJOR DESTINATIONS



AVOCADOS : PAST 5 SEASONS - PASSED FOR EXPORT



AVOCADOS : 2022/23 SEASON - PASSED FOR EXPORT
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COMMERCIAL STORAGE

Optimum storage temp.
5,5°C to 7,5°C

Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

Avocados are very sensitive to low storage temperatures especially if it is associated with a low relative humidity in the storage atmosphere. Optimum storage temperature is also a function of fruit maturity (oil or dry matter content) and physiological stage of development. Mature fruit picked early in the season is much more susceptible to low storage temperatures and store best at 7,5°C. Mid and late season fruit must be stored at 5,5°C or even lower. A step down delivery air temperature (DAT), approximately 7 to 10 days after picking, is recommended. The return air temperature (RAT) must always be within 1,5°C of the DAT. The DAT should be decreased by 0,5°C, if the RAT increases to more than 1,5°C of the DAT.

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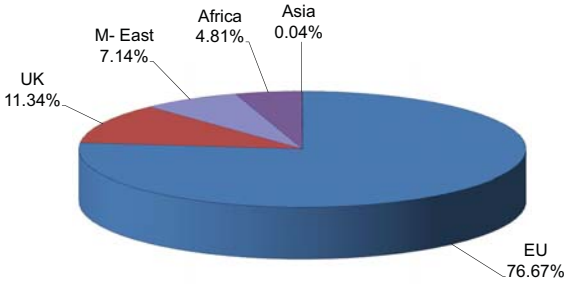
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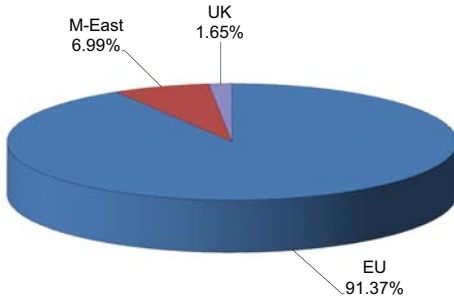
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DRAGON FRUIT

DRAGON FRUIT



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DRAGON FRUIT : 2022/23 SEASON - MAJOR DESTINATIONS

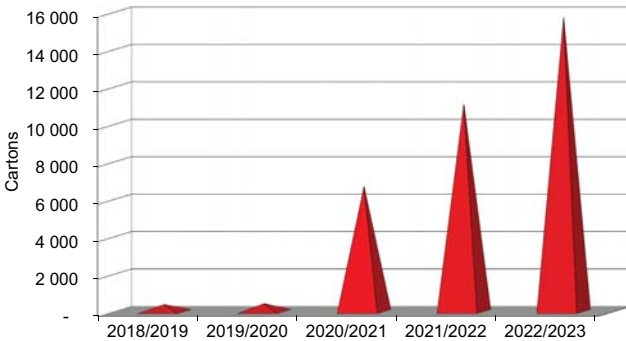


COMMERCIAL STORING

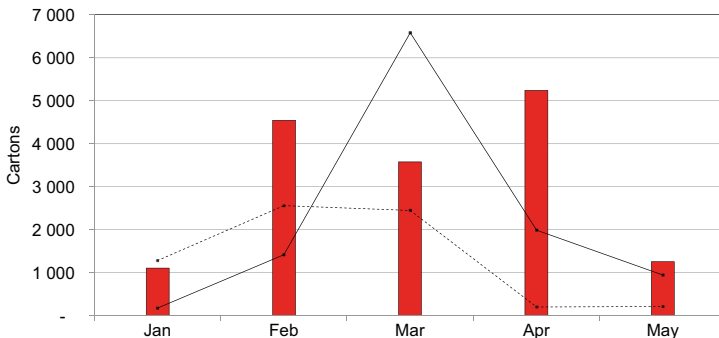
Optimum storage temp. 3-5°C
Optimum storage RH 85-95%
Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 0

Dragon fruit (red pitaya) from the cactus plant family, is indigenous to South and Central America and is now cultivated worldwide. The fruit has gained global attention due to its high antioxidant content, prominent skin color and flesh which, depending on cultivar, range between white, pink and red.

Once picked, dragon fruit does not continue ripening and postharvest life is up to 4 weeks when properly cooled and stored.



DRAGON FRUIT : PAST 5 SEASONS - PASSED FOR EXPORT

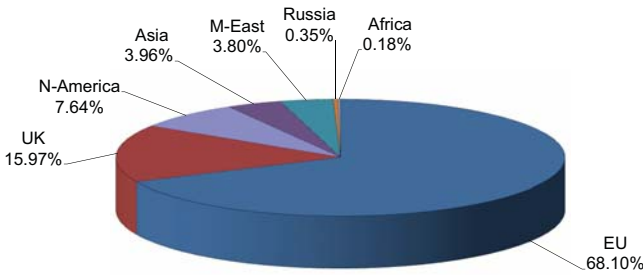


DRAGON FRUIT : 2022/23 SEASON - PASSED FOR EXPORT
(- - - 2020/21 SEASON -■- 2021/22 SEASON)

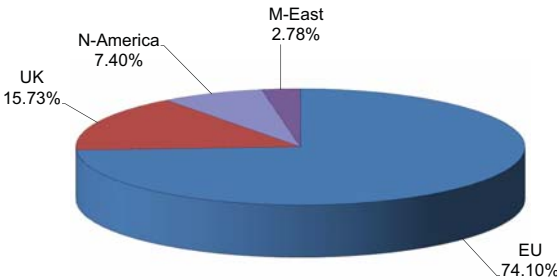
EXPORT PRODUCTION AREAS



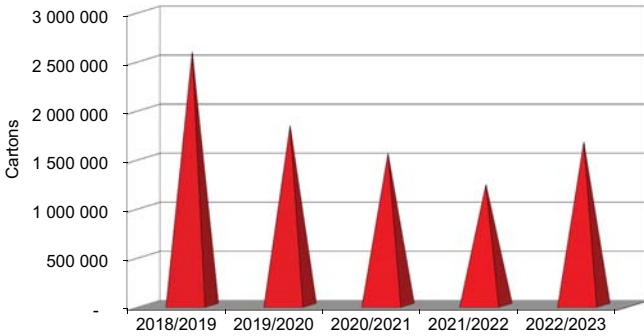
**SUBTROPICAL FRUIT
LYCHEES**



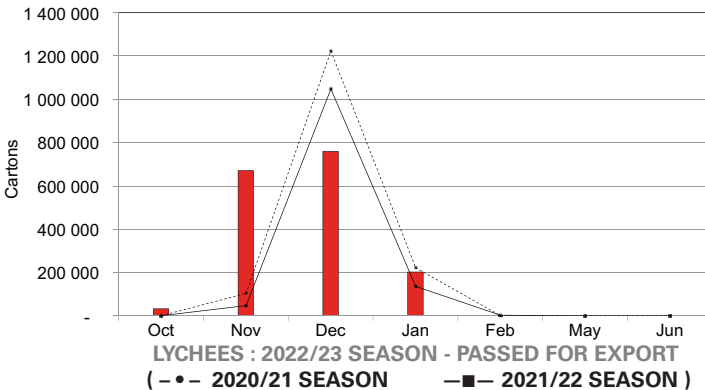
LYCHEES : PAST 5 YEARS - MAJOR DESTINATIONS



LYCHEES : 2022/23 SEASON - MAJOR DESTINATIONS



LYCHEES : PAST 5 SEASONS - PASSED FOR EXPORT



**LYCHEES : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)**

COMMERCIAL STORING
 Optimum storage temp. 1,0°C
 Optimum storage RH 95%
 Optimum fresh air circulation
 (cubic m per hour – m³h⁻¹) 15

Different selections and cultivars of the two main types are produced in the subtropical areas of South Africa. Fruit of the Mauritius type can be stored at a lower (2°C) temperature than fruit of the Madras types (4°C). Best commercial results are, however, obtained by storing fruit of both types at 1,0°C. The main reason for the lower recommended transport temperature is that litchis are very susceptible to mould growth that is suppressed fairly effectively by the lower temperature. This mould growth develops on the stem end and even in minute cracks that may form on the skin. The fruit must be kept dry and handled very carefully at all times. Lychees are often treated with sulphur dioxide (SO₂) to reduce mould growth. The SO₂ also softens and bleaches the skin to a more attractive light brown colour. Although most of the SO₂ is bound in the outer hard skin, the fruit may still give off SO₂ during transport. Treated Lychees should therefore not be stowed with other produce.

EXPORT PRODUCTION AREAS



SUBTROPICAL FRUIT
MANGOES

MANGOES



COMMERCIAL STORING

Optimum storage temp. 8,0°C

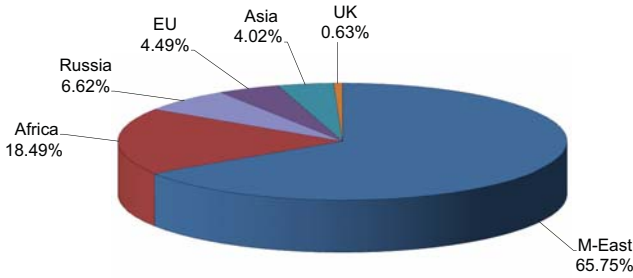
Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15-40

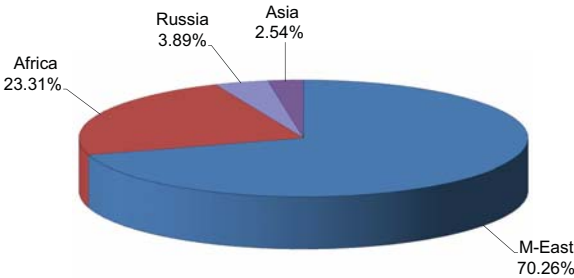
Traditionally mangoes were stored and shipped at 11°C. Most mangoes are however shipped at 8,0°C with good reliable commercial results. Fruit ripening results in an increased RAT, therefore it is important to constantly check the return air temperature (RAT) during the voyage. The delivery air temperature (DAT) should be reduced by 0,5°C, should an increased RAT be recorded.

Warmer shipping temperatures may be specified for certain cultivars such as Heidi or when the market requires en route ripening. Mangoes should not be exposed to conditions that may result in the formation of condensation on the fruit. This may result in various post harvest diseases of which anthracnose rot is the most common.

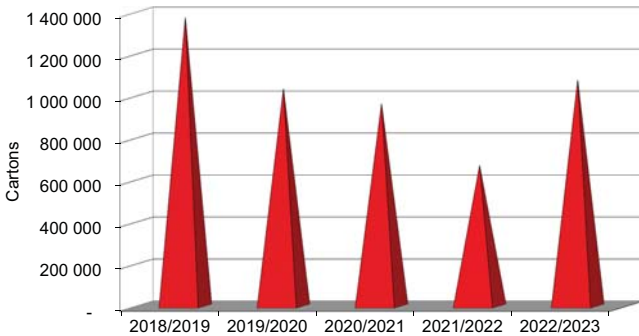
EXPORT PRODUCTION AREAS



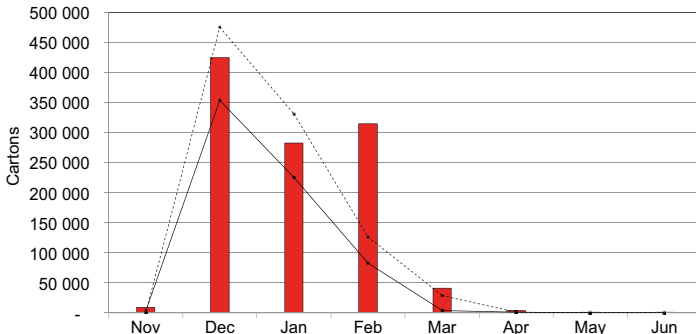
MANGOES : PAST 5 YEARS - MAJOR DESTINATIONS



MANGOES : 2022/23 SEASON - MAJOR DESTINATIONS



MANGOES : PAST 5 SEASONS - PASSED FOR EXPORT



MANGOES : 2022/23 SEASON - PASSED FOR EXPORT
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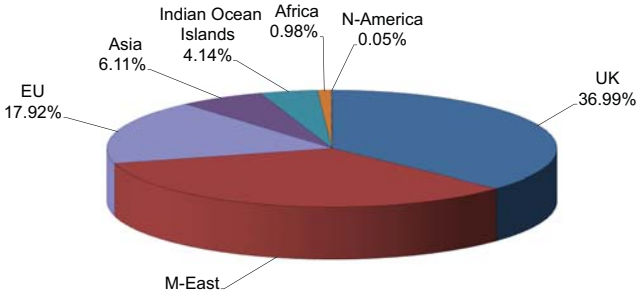
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EXOTIC FRUIT

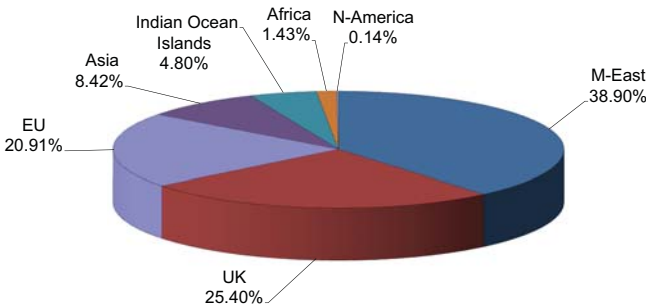
ALL EXOTIC FRUIT

FEATURED VARIETIES

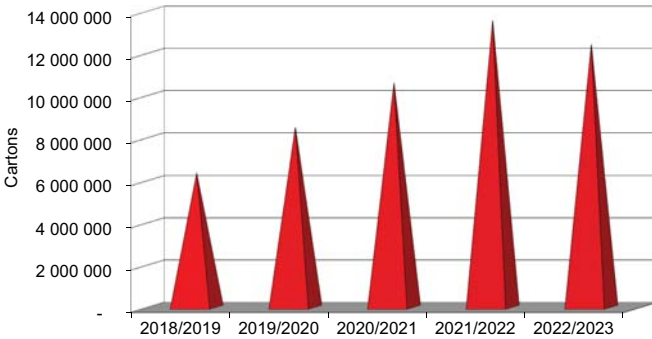
Bananas	1-52
Berries	1-53
Cherries	1-54
Dates	1-55
Figs	1-56
Kiwifruit	1-57
Melons	1-58
Passionfruit	1-59
Papayas	1-60
Papinos	1-61
Persimmons	1-62
Pineapples	1-63
Pomegranates	1-64
Watermelons	1-65



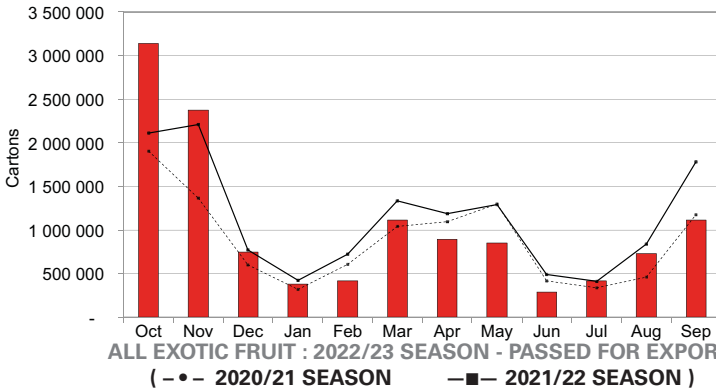
ALL EXOTIC FRUIT : PAST 5 YEARS - MAJOR DESTINATIONS



ALL EXOTIC FRUIT : 2022/23 SEASON - MAJOR DESTINATIONS



ALL EXOTIC FRUIT : PAST 5 SEASONS - PASSED FOR EXPORT



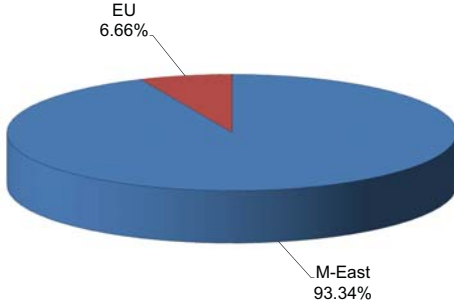
ALL EXOTIC FRUIT : 2022/23 SEASON - PASSED FOR EXPORT
(- - - 2020/21 SEASON - ■ - 2021/22 SEASON)

BANANAS

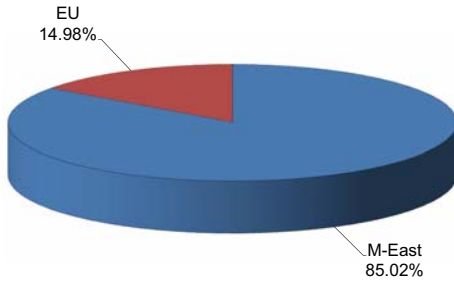


COMMERCIAL STORING
Optimum storage temp. 12°C

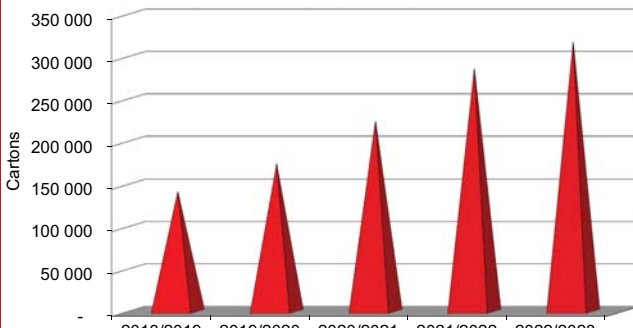
Bananas are tropical fruit, but are produced in the subtropical areas of South Africa. Ambient field temperatures colder than 18°C for only a few hours result in a phenomenon known as under peel discolouration which is very often confused with chilling injury. Under peel discolouration does not affect the quality of the fruit, but the brown vascular bundles result in a dark brown (khaki) discolouration of the peel instead of the bright yellow colour when it is eating ripe. Bananas, if harvested at the correct maturity and handled correctly, can be stored for 14 days at 12°C. The storage period, however, can be extended by picking slightly more immature fruit, prompt pre-cooling and maintenance of the cold chain. Controlled atmosphere storage at 5% oxygen and 7% carbon dioxide can further extend storage period and reduce ripening. Ethylene levels in the storage atmosphere should be kept as low as possible. These effects are achieved on a commercial scale by packaging into polyethylene bags and by strict application of the cold chain.



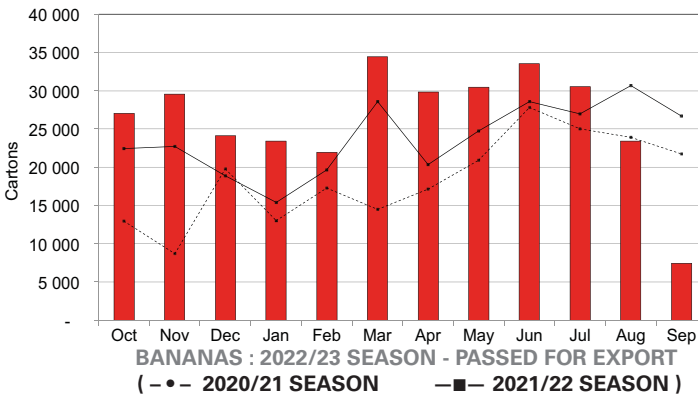
BANANAS : PAST 5 YEARS - MAJOR DESTINATIONS



BANANAS : 2022/23 SEASON - MAJOR DESTINATIONS



BANANAS : PAST 5 SEASONS - PASSED FOR EXPORT



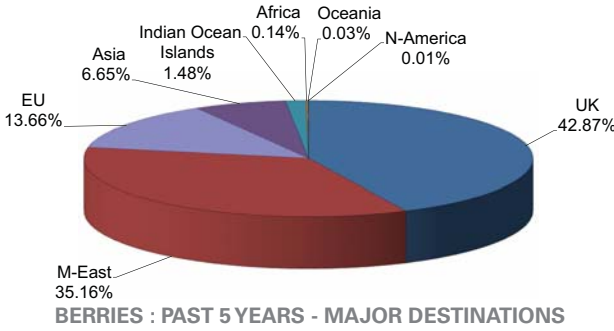
BANANAS : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS



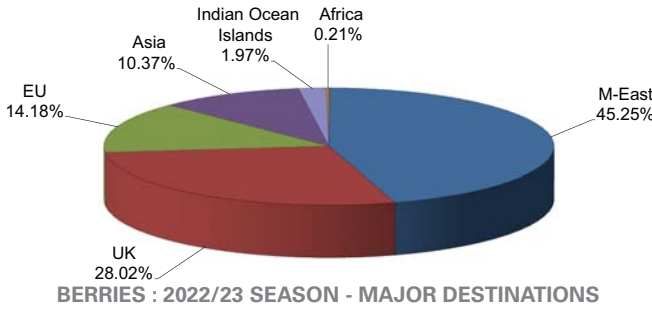
**EXOTIC FRUIT
BERRIES**

BERRIES

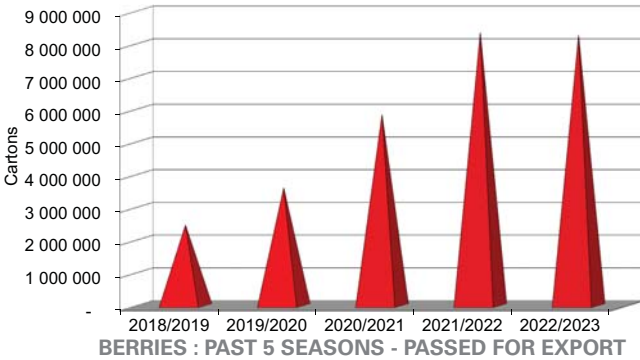


COMMERCIAL STORING
 Optimum storage temp. 0°C
 Optimum storage RH 95%
 Optimum fresh air circulation (cubic m per hour – m³h¹) n/a

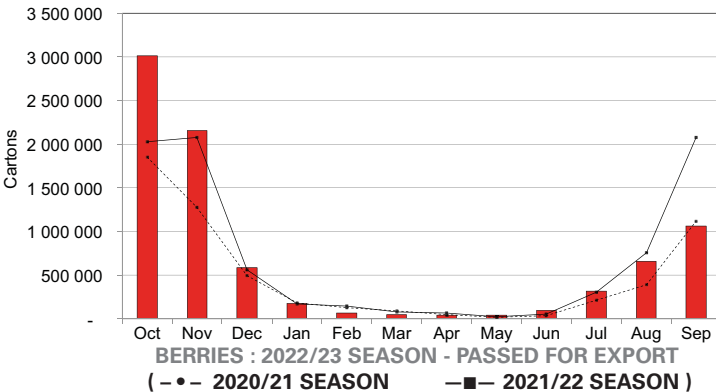
Berries are very delicate fruits and must be handled with the utmost care. This also includes prompt cooling to 0,0°C within a maximum of 6 hours after picking. The cold chain must be strictly applied, because any temperature variation will result in condensation of moisture on the fruit with subsequent increase in decay. Strawberries cannot be stored for more than 5 days as shrivelling, loss of bright colour and waste development will occur. For this reason strawberries can only be air freighted out of South Africa.



BERRIES : 2022/23 SEASON - MAJOR DESTINATIONS



BERRIES : PAST 5 SEASONS - PASSED FOR EXPORT

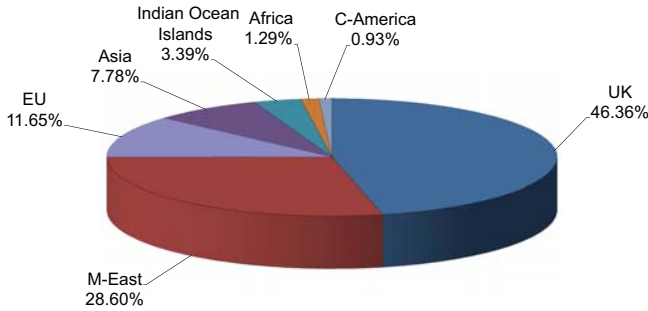


BERRIES : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)

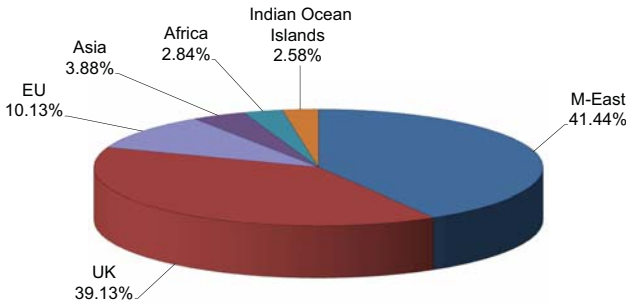
EXPORT PRODUCTION AREAS



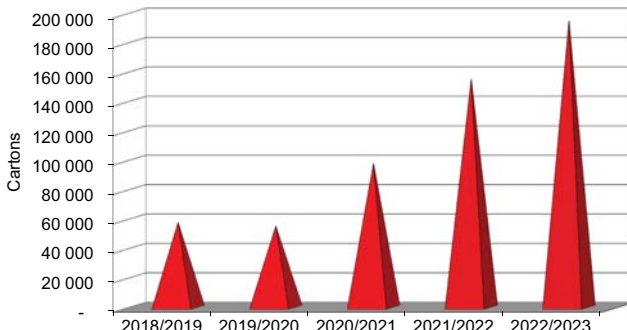
EXOTIC FRUIT CHERRIES



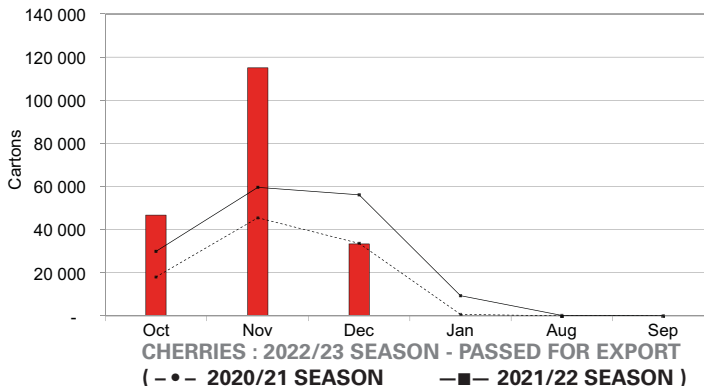
CHERRIES : PAST 5 YEARS - MAJOR DESTINATIONS



CHERRIES : 2022/23 SEASON - MAJOR DESTINATIONS



CHERRIES : PAST 5 SEASONS - PASSED FOR EXPORT



CHERRIES : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

COMMERCIAL STORING

Optimum storage temp. 0,5°C

Optimum storage RH 95%

Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) None

Most of the South African cherries are exported by air. Sea shipments can also be successful, but very strict temperature control must be exercised. The fruit is very soft, has a tender skin, ripens fairly fast and is therefore regarded as very sensitive to handling and transport. Fast cooling to minus 0,5°C immediately after harvest and not allowing the pulp temperature to exceed $\pm 0,0^{\circ}\text{C}$ during handling and transport is the key to successful sea shipment. Cherries also do not have a long storage or shelf life and should therefore be handled without delay to ensure marketing within 21 days from picking.

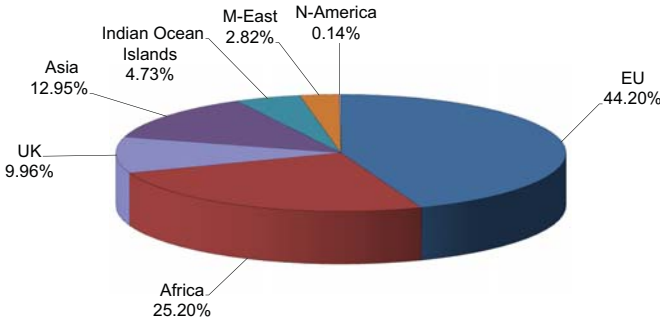
EXPORT PRODUCTION AREAS



EXOTIC FRUIT

DATES

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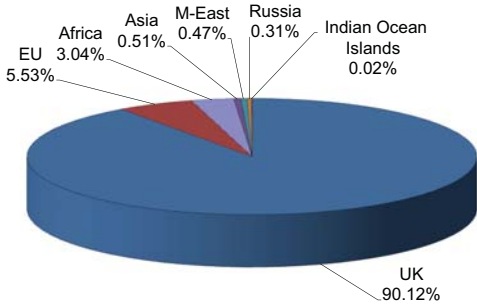


FRESH DATES : PAST 5 YEARS - MAJOR DESTINATIONS



COMMERCIAL STORING

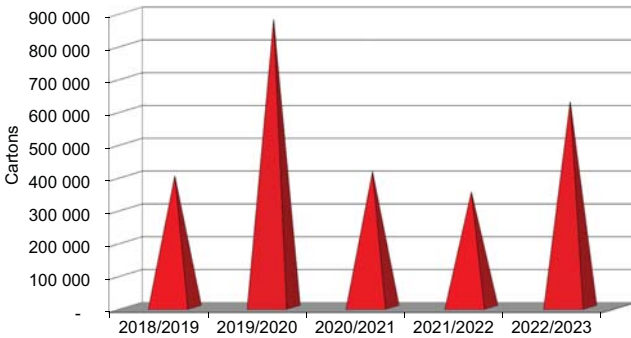
Optimum storage temp. 0°C
 Optimum storage RH 75%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 0



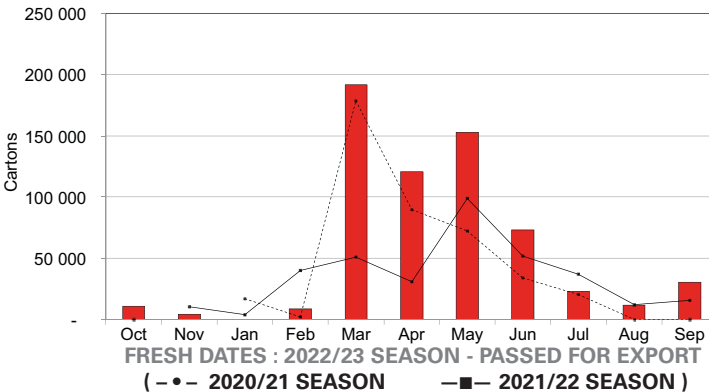
FRESH DATES : 2022/23 SEASON - MAJOR DESTINATIONS

A small quantity of dates is harvested at the “Khalal” stage (partially-ripe) when they are yellow or red (depending on cultivar), but most dates are harvested at the fully-ripe “Rutab” and “Tamar” stages, when they have much greater levels of sugars, lower moisture and tannin content, and softer than the “Khalal” stage dates. To prevent insect damage, dates are fumigated immediately after harvesting, then sorted according to size and moisture content.

Optimum storage temperature is 0°C for 6-12 months, depending on cultivar. Storage at -18°C is recommended for longer durations. (Freezing temperature is -15.7°C.)



FRESH DATES : PAST 5 SEASONS - PASSED FOR EXPORT

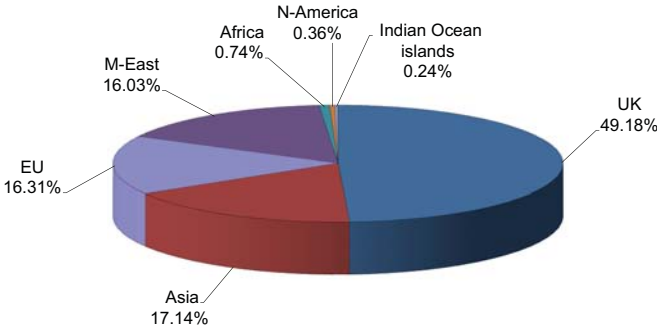


FRESH DATES : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)

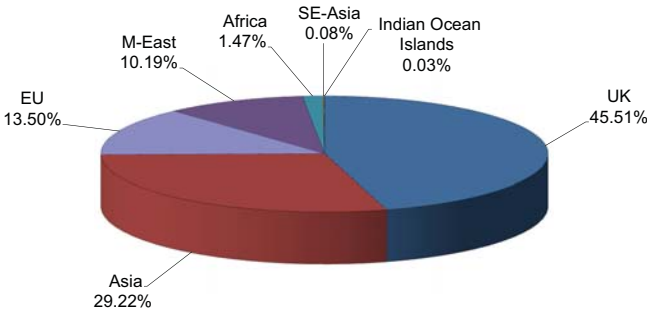
EXPORT PRODUCTION AREAS



EXOTIC FRUIT
FIGS



FIGS : PAST 5 YEARS - MAJOR DESTINATIONS



FIGS : 2022/23 SEASON - MAJOR DESTINATIONS

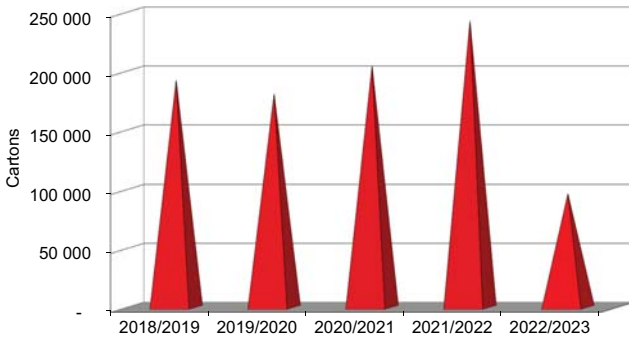
COMMERCIAL STORING

Optimum storage temperature
0°C to 2°C

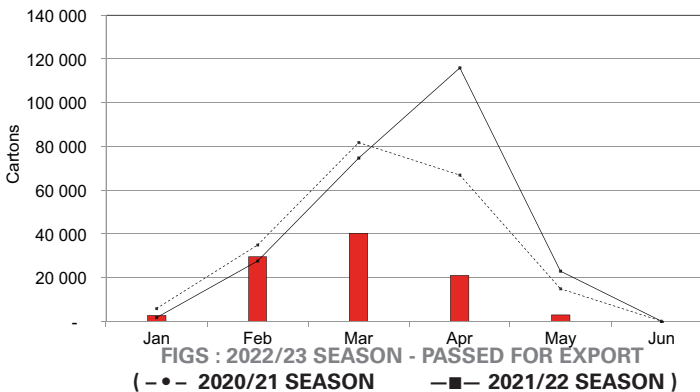
Optimum storage RH 85-95%
Optimum fresh air circulation
(cubic meters per hour – m³h⁻¹) 15

Fig ripens quickly and trees' are harvested daily, usually over a period of a couple of months. Depending on the variety and area, harvesting of figs starts from November/December and can last until April/May. Optimal harvesting is a few days before optimal ripening, about 70% ripeness. The fig is a climacteric fruit and will ripen while being transported to the consumer.

Export quality figs are packed in plastic punnets of 160 grams, or tubs for the small Ronde de Bordeaux figs. Larger figs are also exported in paper trays inside flat boxes.



FIGS : PAST 5 SEASONS - PASSED FOR EXPORT



FIGS : 2022/23 SEASON - PASSED FOR EXPORT
(- - - 2020/21 SEASON - ■ - 2021/22 SEASON)

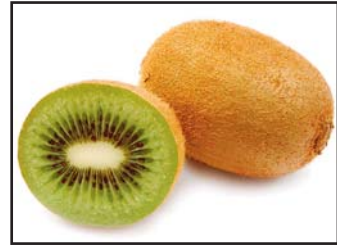
EXPORT PRODUCTION AREAS



EXOTIC FRUIT

KIWIFRUIT

K I W I F R U I T



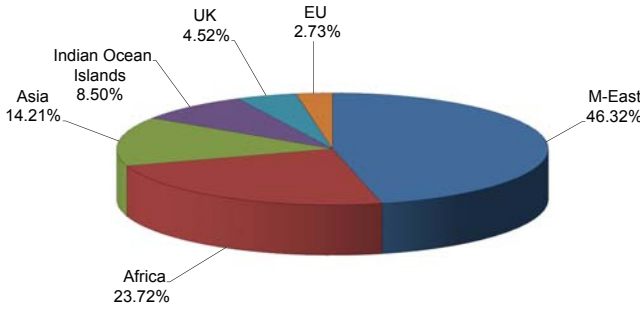
COMMERCIAL STORING

Optimum storage temp. 0,5°C

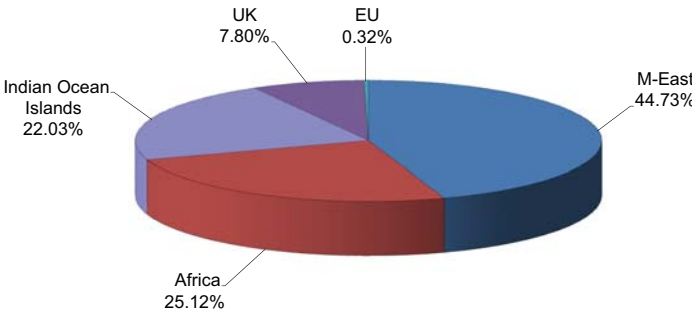
Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

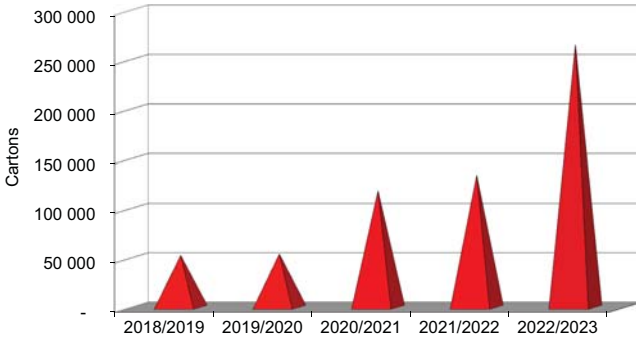
Kiwifruit can be stored for more than 6 months at a pulp temperature of minus 0,5°C. The fruit is very susceptible to weight loss and shrivels when exposed to conditions of low relative humidity. Maintenance of the cold chain to maintain a RH of 95% at minus 0,5°C is therefore important. Kiwifruit is also sensitive to ethylene and other hydrocarbon gasses (exhaust fumes etc.) in the storage atmosphere. Exposure to these gasses triggers ripening and results in soft and over mature fruit in the market place. Continuous maximum fresh air ventilation must therefore be applied.



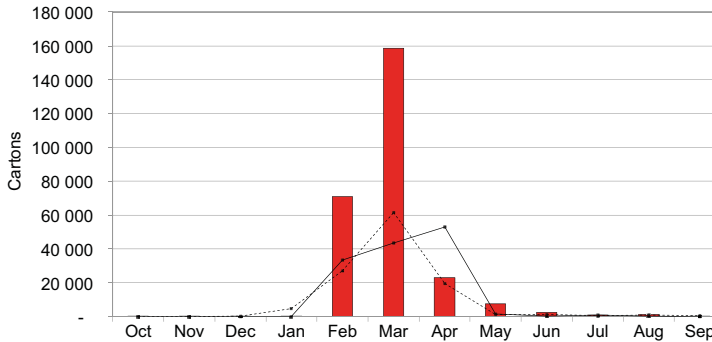
KIWIFRUIT : PAST 5 YEARS - MAJOR DESTINATIONS



KIWIFRUIT : 2022/23 SEASON - MAJOR DESTINATIONS



KIWIFRUIT : PAST 5 SEASONS - PASSED FOR EXPORT

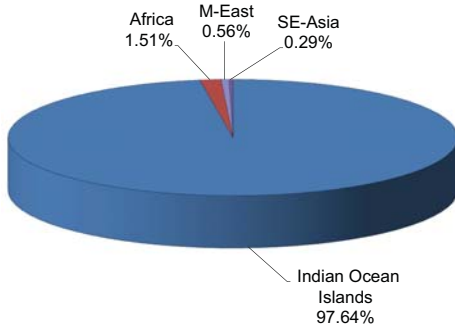


KIWIFRUIT : 2022/23 SEASON - PASSED FOR EXPORT
 (- • - 2020/21 SEASON - ■ - 2021/22 SEASON)

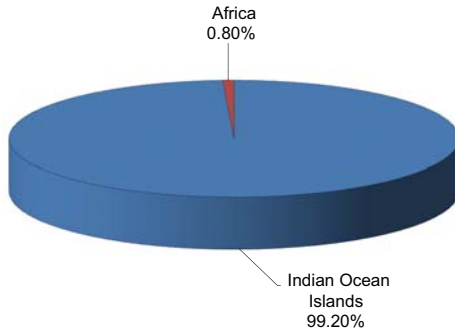
EXPORT PRODUCTION AREAS



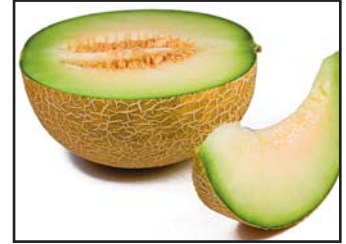
EXOTIC FRUIT
MELONS



MELONS : PAST 5 YEARS - MAJOR DESTINATIONS



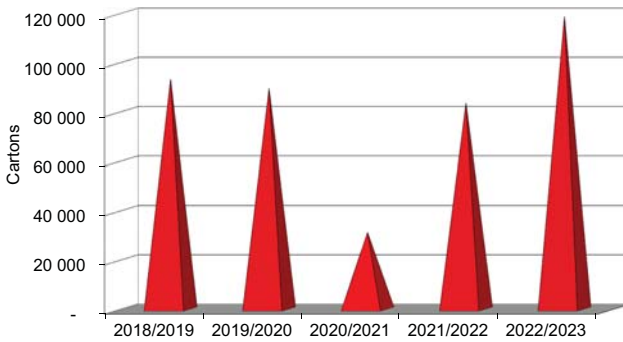
MELONS : 2022/23 SEASON - MAJOR DESTINATIONS



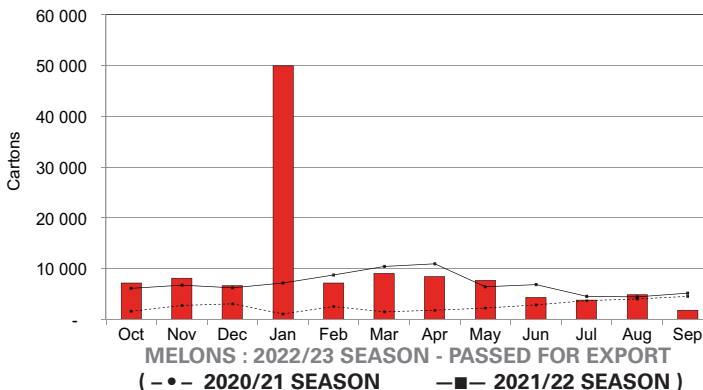
COMMERCIAL STORING
 Optimum storage temp. 14°C
 Optimum storage RH 95%
 Optimum fresh air circulation
 (cubic m per hour – m³h⁻¹) 15

Two types can be distinguished i.e.:

- The Cantaloupe, rock and muskmelon, including all netted cultivars and smooth, soft skin cultivars can be stored for about 10 to 14 days at 12°C.
- Sweet melons (Winterspanspek or Winter melons) have a hard skin that may be netted or smooth. It can be stored for about 28 days at 14°C.



MELONS : PAST 5 SEASONS - PASSED FOR EXPORT



MELONS : 2022/23 SEASON - PASSED FOR EXPORT
 (- - - 2020/21 SEASON -■- 2021/22 SEASON)

Different cultivars require different shipping conditions and even fruit of the same cultivar grown in different areas may require different storage temperatures. Exporters must therefore stipulate the shipping temperature at booking. Very careful handling and absolute hygiene is required from the selection of the seed, during fruit development and post harvest handling. Chilling injury may also often be masked by secondary fungal growth on damaged lesions leading to the misinterpretation that the fruit was stored at too high a temperature.

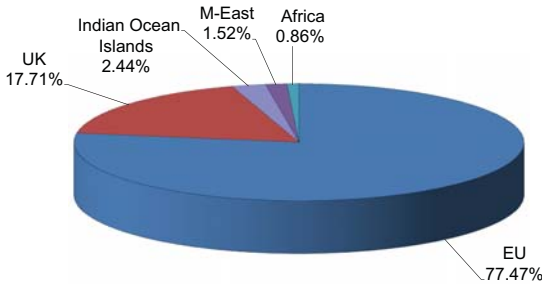
EXPORT PRODUCTION AREAS



EXOTIC FRUIT

PASSIONFRUIT

PASSIONFRUIT



PASSIONFRUIT : PAST 5 YEARS - MAJOR DESTINATIONS

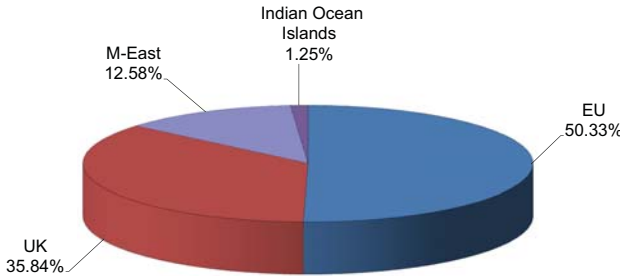


COMMERCIAL STORAGE

Optimum storage temp. 8,5°C

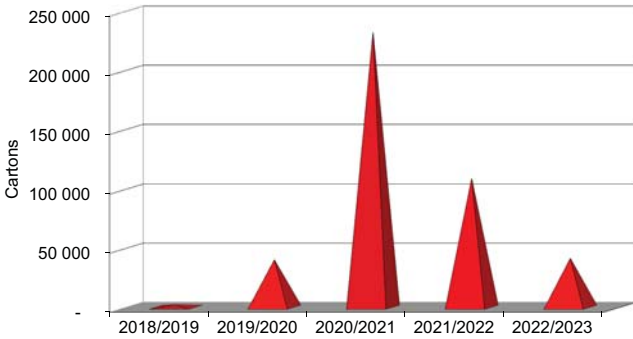
Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

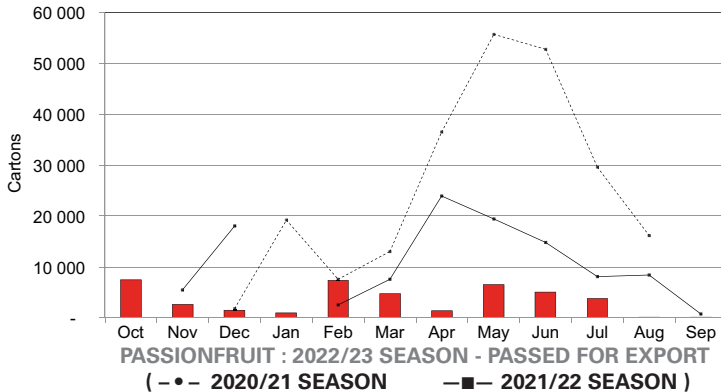


PASSIONFRUIT : 2022/23 SEASON - MAJOR DESTINATIONS

Passionfruit is also known in some countries as granadillas and are mainly produced in moderate to subtropical climates. The fruit is sensitive to chilling injury and can be stored for three weeks. Passionfruit are very sensitive to moisture loss and severe shrivelling takes place if storage is delayed and if a high RH is not maintained. Packaging in polyethylene liners and prompt cooling soon after harvest can reduce shrivelling significantly. Waxing of the fruit also reduces moisture loss, but the use of skin coatings should be verified because it is not widely accepted.



PASSIONFRUIT : PAST 5 SEASONS - PASSED FOR EXPORT



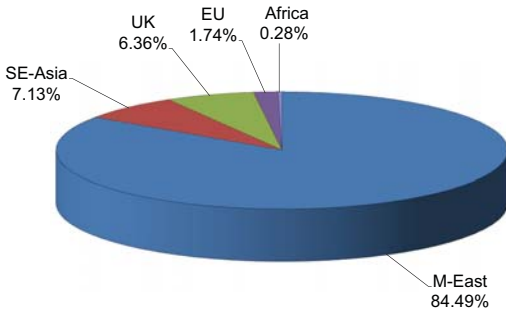
PASSIONFRUIT : 2022/23 SEASON - PASSED FOR EXPORT (- - - 2020/21 SEASON - ■ - 2021/22 SEASON)

EXPORT PRODUCTION AREAS

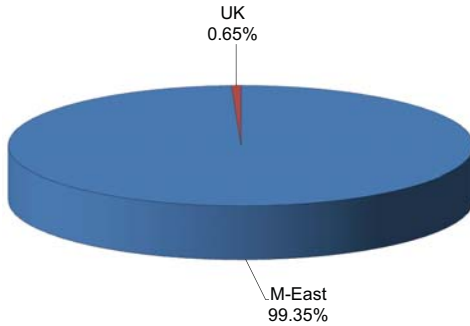


EXOTIC FRUIT

PAPAYAS



PAPAYAS : PAST 5 YEARS - MAJOR DESTINATIONS



PAPAYAS : 2022/23 SEASON - MAJOR DESTINATIONS

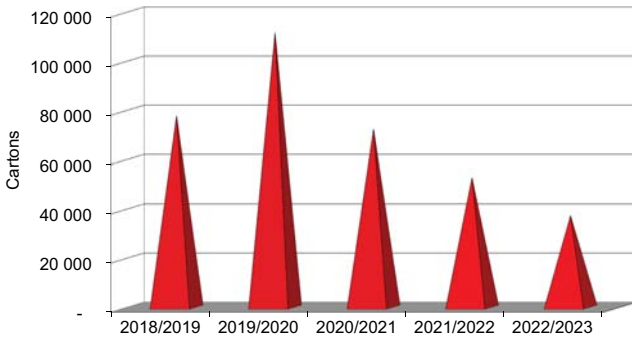


COMMERCIAL STORING

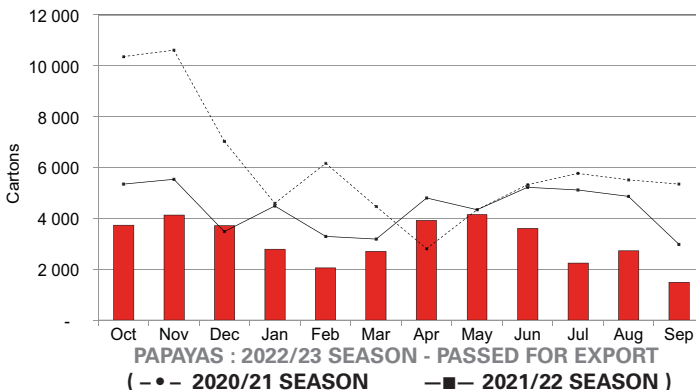
Optimum storage temp.
10°C to 15°C

Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

Papayas and Papinos are highly sensitive subtropical fruit that bruise easily and ripen very fast when exposed to high temperatures. Papaya fruits grown from seedling trees differ greatly in reaction to storage temperatures and storage life. Some selections, generally referred to as papinos, can be stored successfully for up to three weeks. Chilling injury develops when stored below 7°C, but is a function of exposure time. Some varieties however must be shipped at 12°C to 14°C. Papayas and Papinos must be handled carefully and should be kept dry during all phases of handling and transport. Anthracnose is the most common disease and the fruit should therefore not be stored too long.



PAPAYAS : PAST 5 SEASONS - PASSED FOR EXPORT



PAPAYAS : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

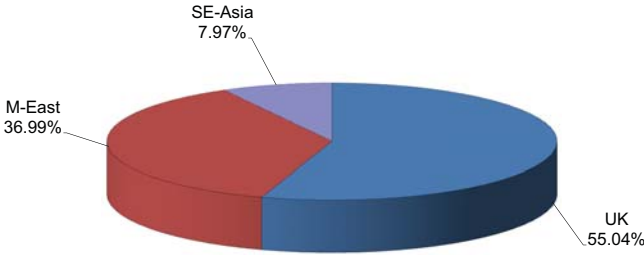
EXPORT PRODUCTION AREAS



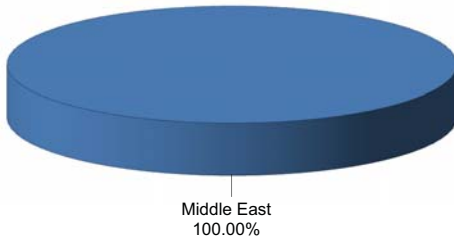
EXOTIC FRUIT

PAPINOS

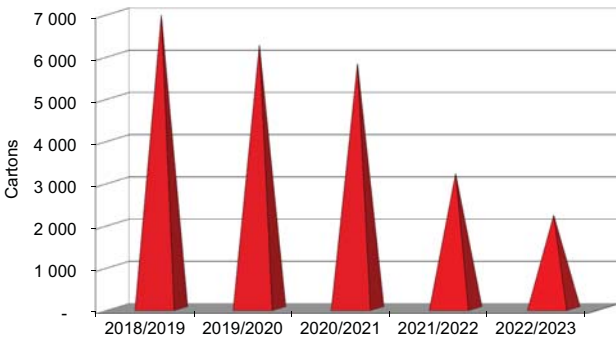
PAPINOS



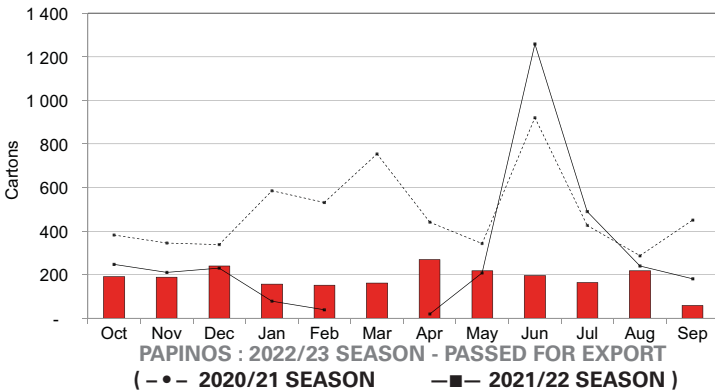
PAPINOS : PAST 5 YEARS - MAJOR DESTINATIONS



PAPINOS : 2022/23 SEASON - MAJOR DESTINATIONS



PAPINOS : PAST 5 SEASONS - PASSED FOR EXPORT



PAPINOS : 2022/23 SEASON - PASSED FOR EXPORT (- · - · 2020/21 SEASON - ■ - 2021/22 SEASON)



COMMERCIAL STORING

Optimum storage temp.
10°C to 15°C
Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

Papinos and Papayas are highly sensitive subtropical fruit that bruise easily and ripen very fast when exposed to high temperatures. Papaya fruits grown from seedling trees differ greatly in reaction to storage temperatures and storage life. Some selections, generally referred to as papinos, can be stored successfully for up to three weeks. Chilling injury develops when stored below 7°C, but is a function of exposure time. Some varieties however must be shipped at 12°C to 14°C. Papinos and Papayas must be handled carefully and should be kept dry during all phases of handling and transport. Anthracnose is the most common disease and the fruit should therefore not be stored too long.

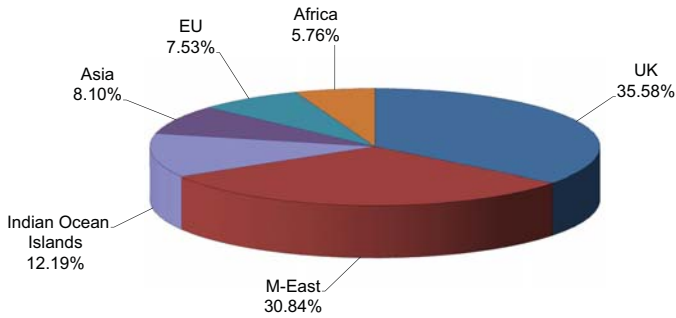
Please note: No papinos were exported during the 2021/22 season.

EXPORT PRODUCTION AREAS

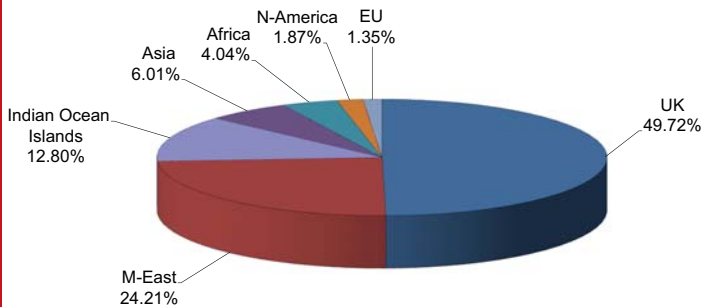


EXOTIC FRUIT

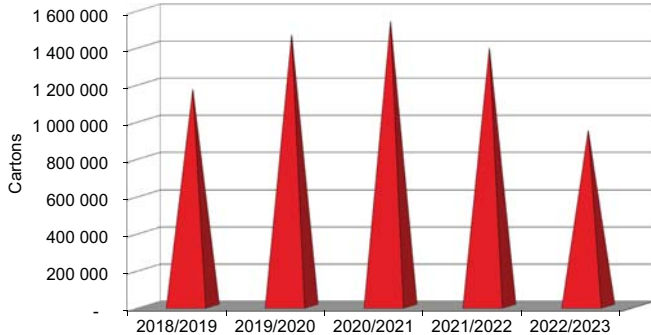
PERSIMMONS



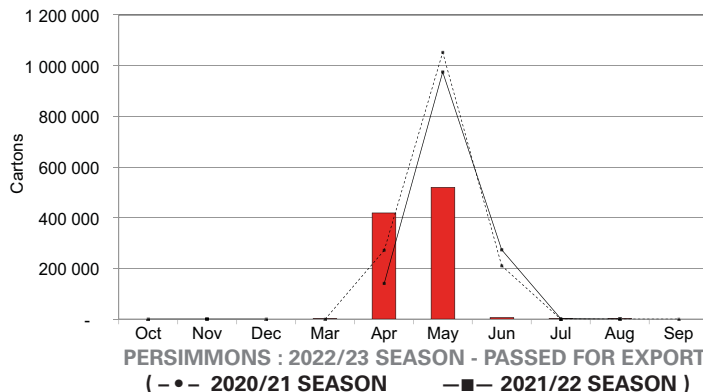
PERSIMMONS : PAST 5 YEARS - MAJOR DESTINATIONS



PERSIMMONS : 2022/23 SEASON - MAJOR DESTINATIONS



PERSIMMONS : PAST 5 SEASONS - PASSED FOR EXPORT

PERSIMMONS : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

COMMERCIAL STORING

Optimum storage temp.
minus 0,5°C

Optimum storage RH 95%

Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

Persimmons can be stored for 3 to 4 months at minus 0,5°C. The fruit is also known as Kaki fruit and the older cultivars can be very astringent especially when picked slightly immature. Most of the newly developed cultivars are not however of excellent eating quality. Persimmons can be stored under CA conditions and can tolerate as much as 4% carbon dioxide (CO₂) in the storage atmosphere. Shrivelling due to moisture loss may become a problem during storage if the RH in the atmosphere is less than 85%. Packaging in (sealed) polyethylene bags can enhance storage and shelf life.

EXPORT PRODUCTION AREAS



EXOTIC FRUIT

PINEAPPLES

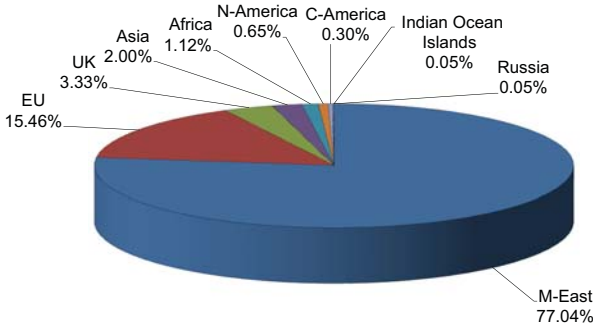
PINEAPPLES



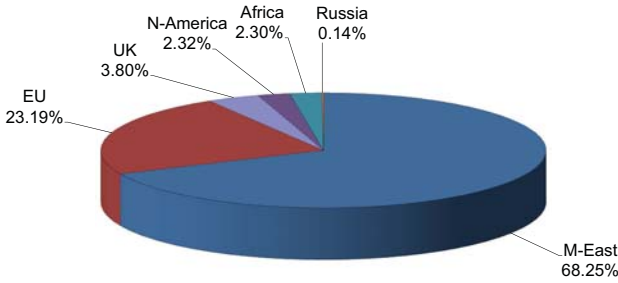
COMMERCIAL STORING

Optimum storage temp. 12°C
 Optimum storage RH 95%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

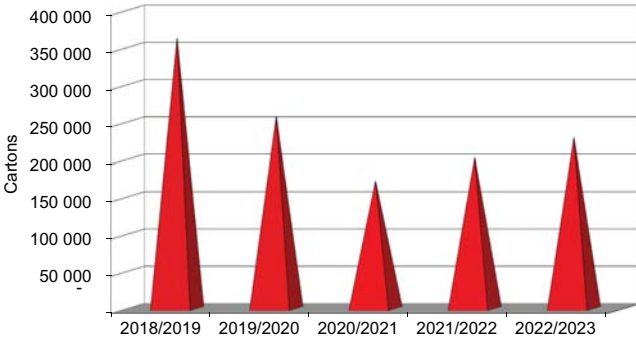
Recent research results indicated that the pineapple fruit has a better quality when stored between 12°C to 14°C, whereas the tops (crowns) retain a better condition at 10°C to 12°C. The best compromise temperature for sea shipments of the Cayenne cultivar to Europe is 12°C. Fruit of the Queen variety, however, cannot be shipped by sea. Chilling injury develops when stored at 7°C or lower and mould growth on the fruit and crowns is the most common disease problem. The strong odour given off by the fruit may taint other fruits. However, pineapples can be shipped with citrus fruit provided the shipping temperature is suitable for both products.



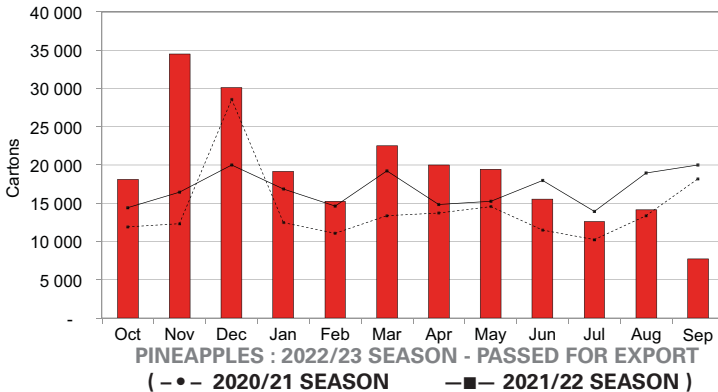
PINEAPPLES : PAST 5 YEARS - MAJOR DESTINATIONS



PINEAPPLES : 2022/23 SEASON - MAJOR DESTINATIONS

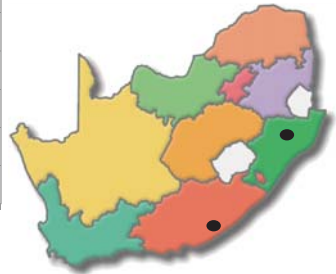


PINEAPPLES : PAST 5 SEASONS - PASSED FOR EXPORT

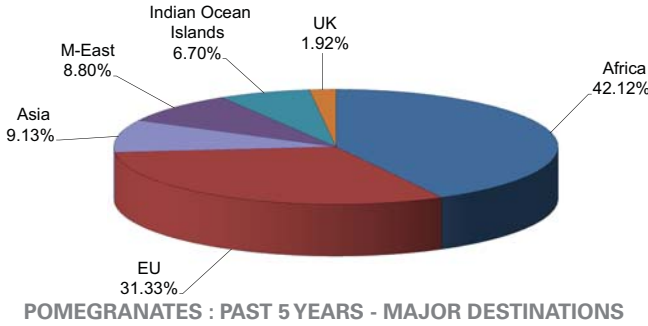


PINEAPPLES : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)

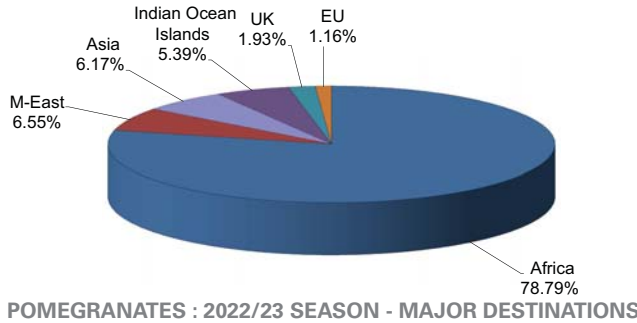
EXPORT PRODUCTION AREAS



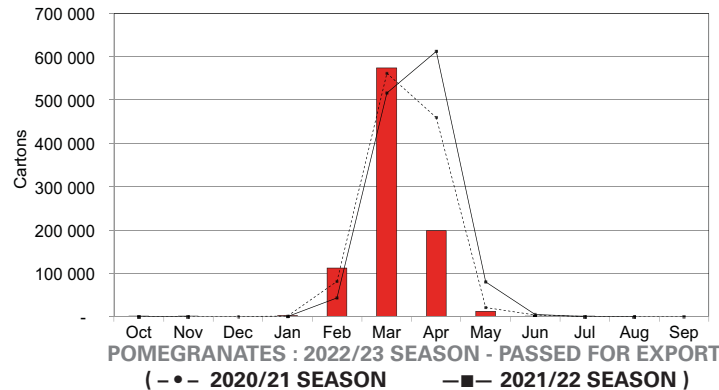
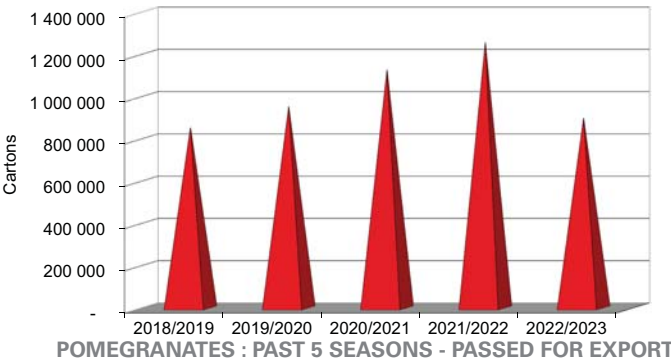
POMEGRANATES



COMMERCIAL STORING
 Optimum storage temp. 5°C to 7°C
 Optimum storage RH 90-95%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15



Pomegranates are non-climacteric fruits and do not continue ripening once detached from the tree. Pomegranates are thus harvested when they are fully ripe. Harvest maturity is determined by sugar and acid contents, sugar: acid ratio and the colour development of the fruit. Pomegranates are very sensitive to moisture loss and, to reduce shrivelling and discolouring, waxing and storage liners are recommended. Cold stores equipped with Controlled Atmosphere conditioning allow pomegranates to remain fresh considerably longer. The optimal CA storage conditions for pomegranates are 3% O₂ and 6% CO₂ at 5°C. Pomegranate fruit destined for the export markets are packed in 4kg (Class 1 and 2) or 15 kg (for processing) cartons.



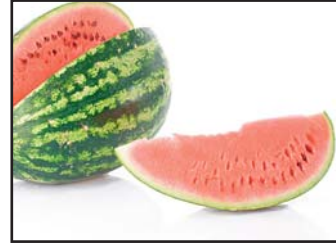
EXPORT PRODUCTION AREAS



EXOTIC FRUIT

WATERMELONS

WATERMELONS

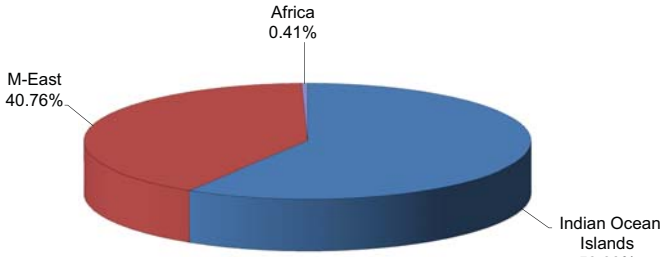


COMMERCIAL STORING

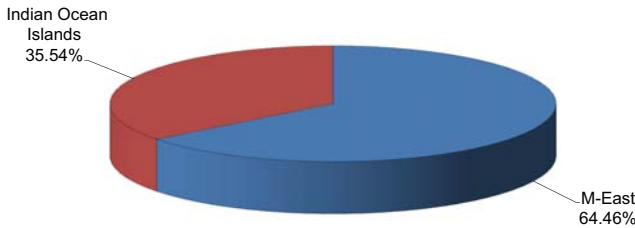
Optimum storage temp.
4,5°C to 10°C

Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

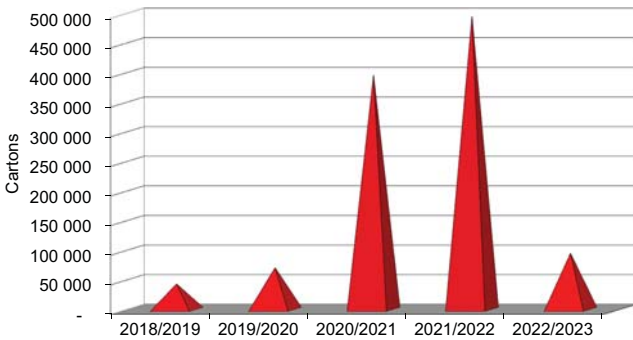
Optimum storage temperature may vary greatly with cultivar. The older types store very well at 4,5°C for up to 6 weeks. Cultivars developed more recently, however, are said to be more temperature sensitive and must be stored at 10°C. Exporters must therefore request a shipping temperature at time of export shipping booking.



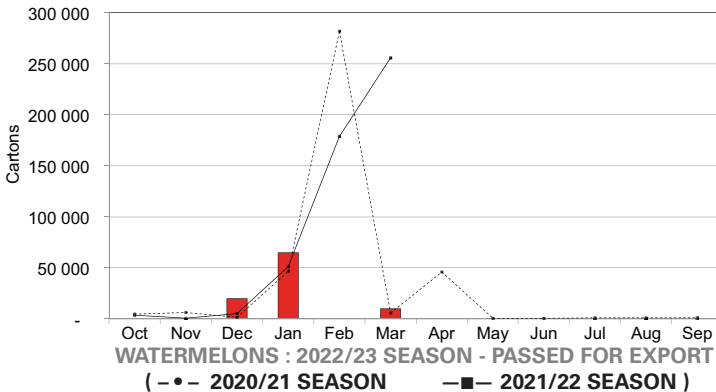
WATERMELONS : PAST 5 YEARS - MAJOR DESTINATIONS



WATERMELONS : 2022/23 SEASON - MAJOR DESTINATIONS



WATERMELONS : PAST 5 SEASONS - PASSED FOR EXPORT



WATERMELONS : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS





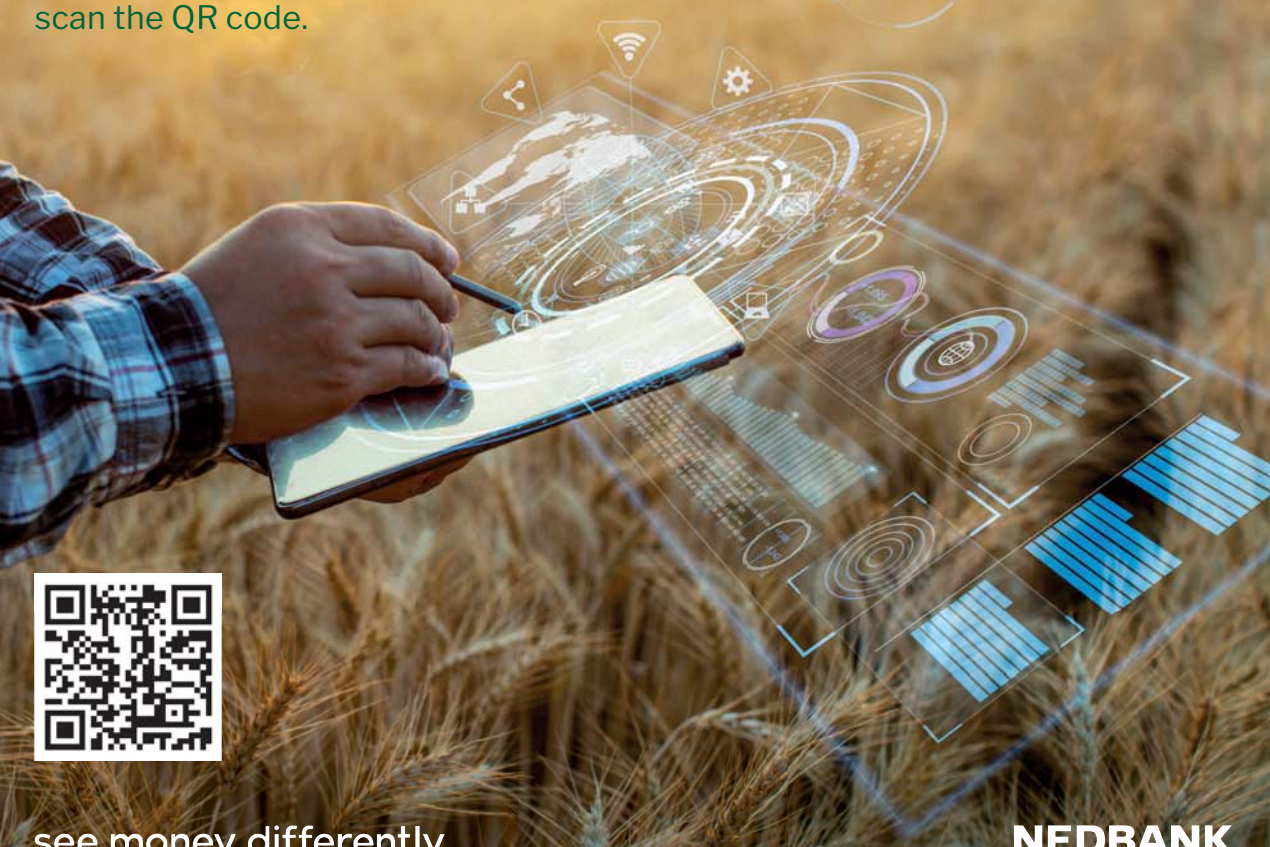
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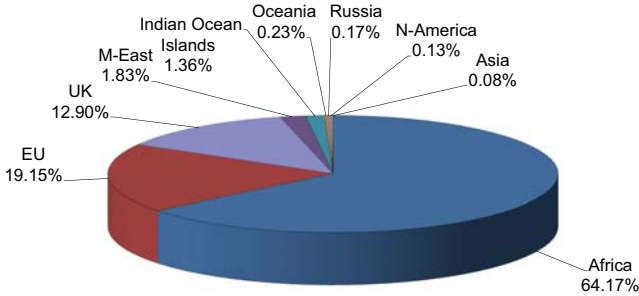
see money differently

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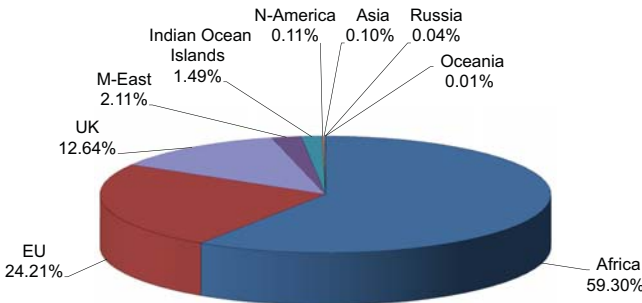
FRESH VEGETABLES SECTION 2

FEATURED PRODUCTS

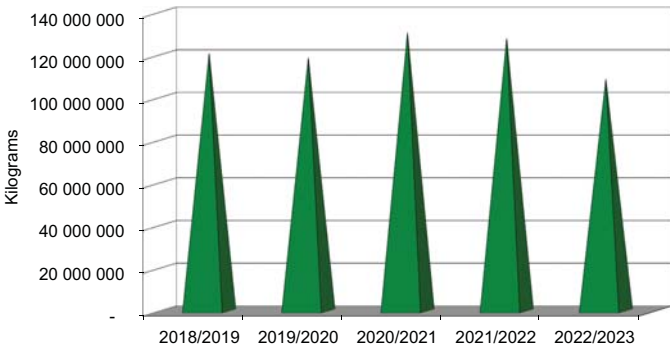
Aubergines	2-2
Baby Vegetables	2-3
Beetroot	2-4
Brussels Sprouts	2-5
Broccoli	2-6
Butternut Squash	2-7
Cabbage	2-8
Carrots	2-9
Cauliflower	2-10
Chillies	2-11
Garlic	2-12
Lettuce	2-13
Mushrooms	2-14
Onions	2-15
Patty Pan Squash	2-16
Potatoes	2-17
Pumpkins	2-18
Sweet Peppers	2-19
Sweet Potatoes	2-20
Tomatoes	2-21



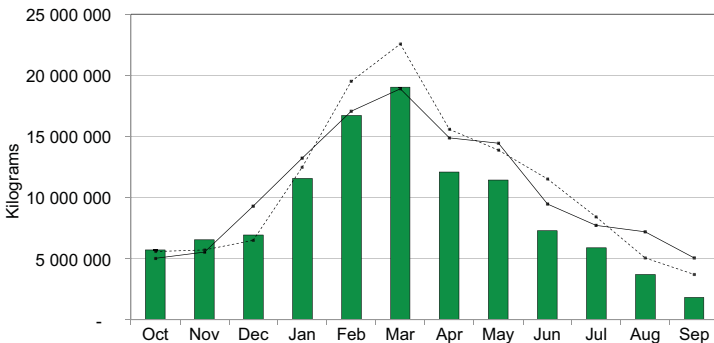
ALL FRESH VEGETABLES : PAST 5 YEARS - MAJOR DESTINATIONS



ALL FRESH VEGETABLES : 2022/23 SEASON - MAJOR DESTINATIONS



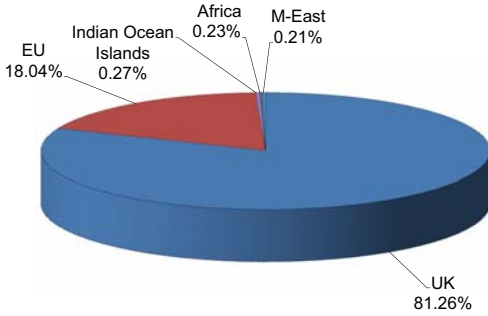
ALL FRESH VEGETABLES : PAST 5 SEASONS - PASSED FOR EXPORT



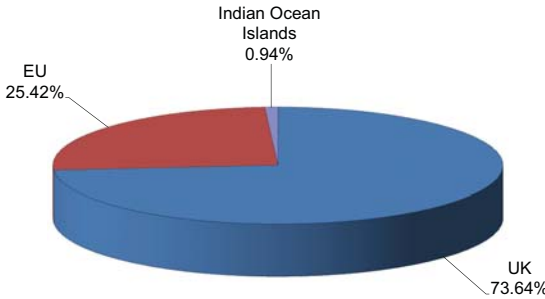
ALL FRESH VEGETABLES : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

FRESH VEGETABLES

AUBERGINES



AUBERGINES : PAST 5 YEARS - MAJOR DESTINATIONS

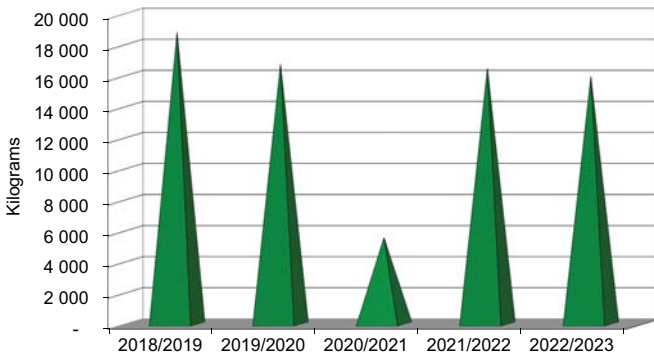


AUBERGINES : 2022/23 SEASON - MAJOR DESTINATIONS

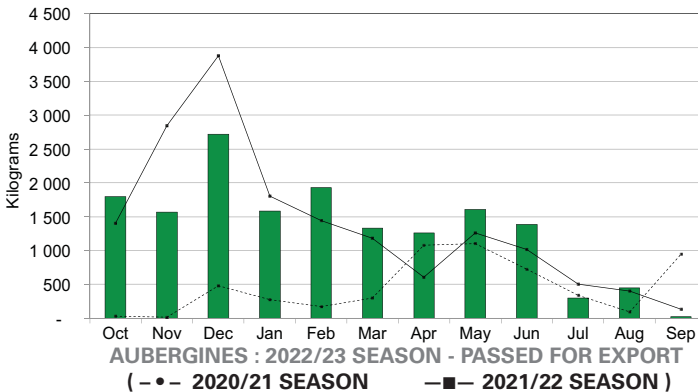
COMMERCIAL STORING
 Optimum storage temp. 8,5°C
 Optimum storage RH 95%
 Optimum fresh air circulation (cubic m per hour – m³h¹) 15

Aubergines (also known as Brinjals or Eggplant fruit) are very temperature sensitive and may develop chilling injury at 10°C or colder. Pitting and brown colour development on the skin indicates too low storage temperatures. Warm conditions also result in rapid deterioration, necessitating rapid cooling immediately after harvest.

Fruit that ripened during cool growing conditions can be stored at a lower temperature (±8,5°C) for a longer period (±10 days) than fruit maturing during summer (±7 days at ±12°C). Care must be taken to reduce moisture loss from the fruit and to handle and treat the fruit correctly to reduce microbiological waste.



AUBERGINES : PAST 5 SEASONS - PASSED FOR EXPORT



AUBERGINES : 2022/23 SEASON - PASSED FOR EXPORT
 (- ● - 2020/21 SEASON - ■ - 2021/22 SEASON)

EXPORT PRODUCTION AREAS



FRESH VEGETABLES

BABY VEGETABLES

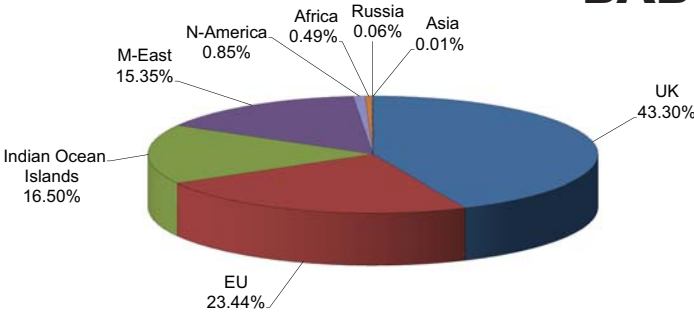
BABY VEGETABLES



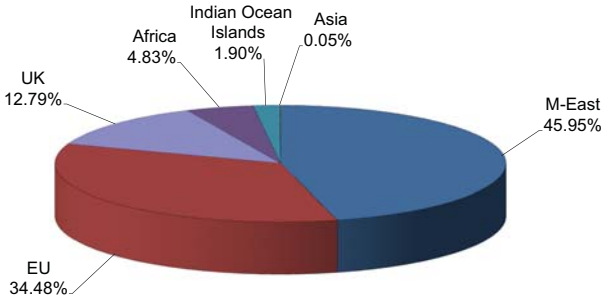
COMMERCIAL STORING

Fresh baby vegetables are air freighted to overseas destinations.

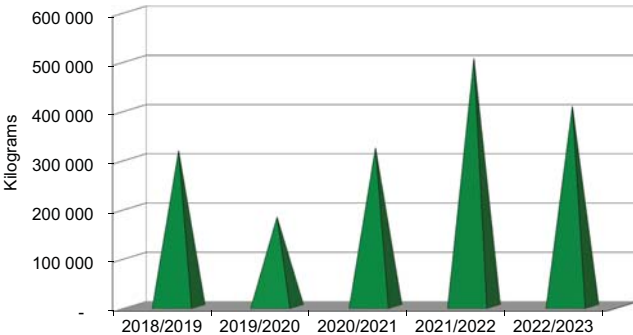
Refer to individual products for optimal storage specifications.



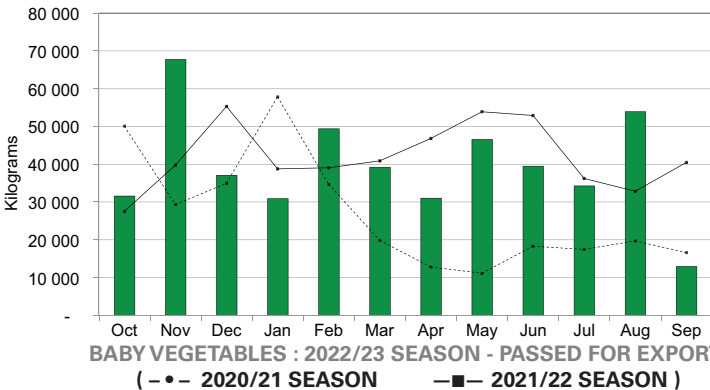
BABY VEGETABLES : PAST 5 YEARS - MAJOR DESTINATIONS



BABY VEGETABLES : 2022/23 SEASON - MAJOR DESTINATIONS



BABY VEGETABLES : PAST 5 SEASONS - PASSED FOR EXPORT

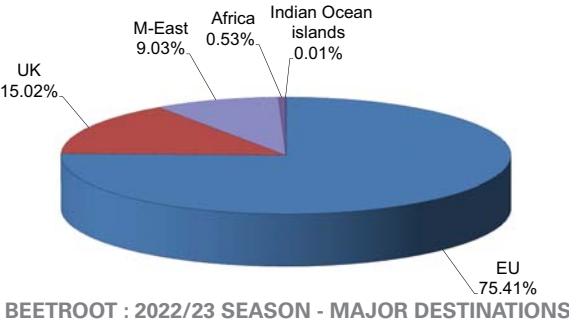
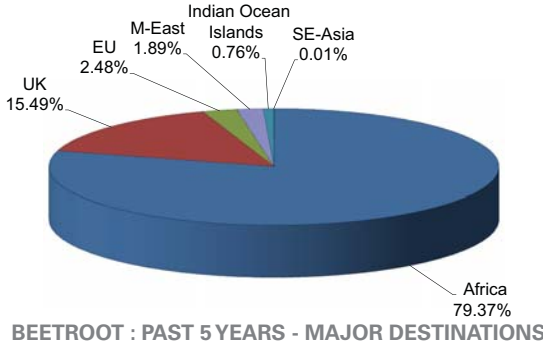


BABY VEGETABLES : 2022/23 SEASON - PASSED FOR EXPORT
 (- - - 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS



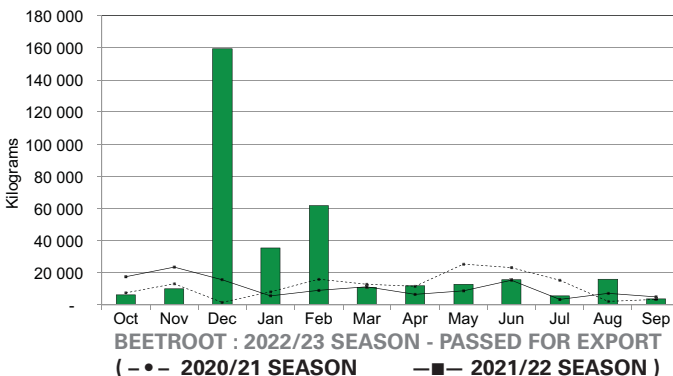
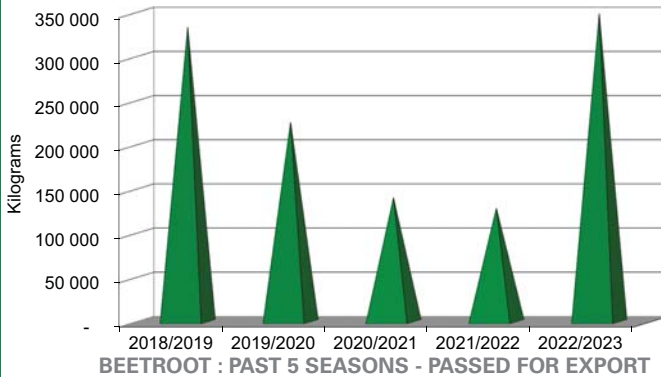
**FRESH VEGETABLES
BEETROOT**



COMMERCIAL STORING
 Optimum storage temp. 0,5°C
 Optimum storage RH 95%
 Optimum fresh air circulation
 (cubic m per hour – m³h¹) 15

Root crops must be cooled quickly to below 5°C soon after harvest. High humidity conditions must be maintained to avoid desiccation and to retain freshness and crispness. Washing with chlorinated water will reduce decay during storage and transport. Removal of the tops will also result in less moisture loss and will allow for improved air circulation.

Freezing may be a severe risk and storage at plus 0,5°C is therefore recommended for South African export situations. Most of the root crops can be stored for very long periods if they are promptly cooled and adequate air circulation is applied to maintain a low temperature and a RH of approximately 95%.

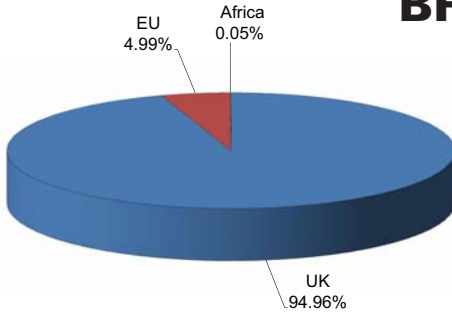


EXPORT PRODUCTION AREAS

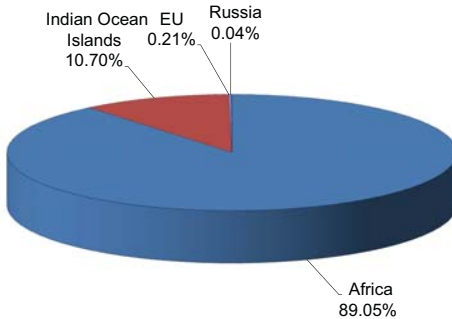


FRESH VEGETABLES

BRUSSELS SPROUTS



BRUSSELS SPROUTS : PAST 5 YEARS - MAJOR DESTINATIONS



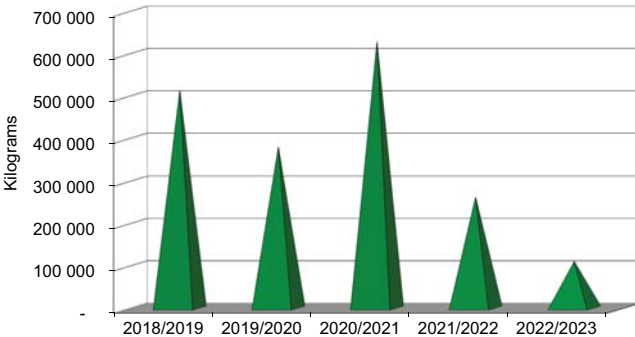
BRUSSELS SPROUTS : 2022/23 SEASON - MAJOR DESTINATIONS



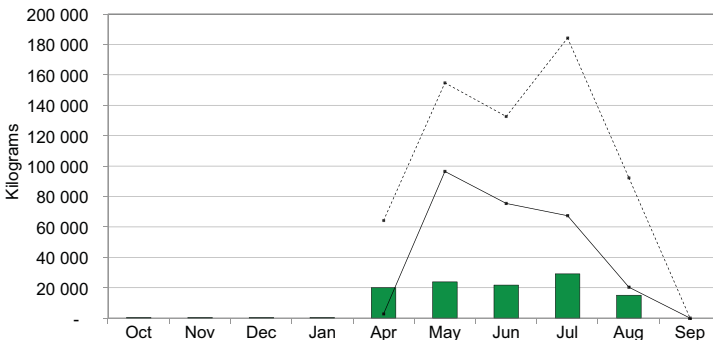
COMMERCIAL STORING
 Optimum storage temp. 0,5°C
 Optimum storage RH 100%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

The best storage temperature for leafy vegetables is 0,0°C, but a temperature of plus 0,5°C is recommended to avoid freezing damage. All leafy vegetables must be cooled quickly to below 2°C immediately after harvest. Moisture loss must be avoided at all times to retain crispness and freshness.

Free water or condensation must however be kept to the minimum to reduce decay. Adequate air movement and keeping the atmosphere absolutely free of ethylene is essential. All leafy vegetables respond favourably to CA storage. Brussels sprouts may be grown all over the country in winter, although results may be poor in subtropical areas compared to regions that have cool to cold winters.



BRUSSELS SPROUTS : PAST 5 SEASONS - PASSED FOR EXPORT



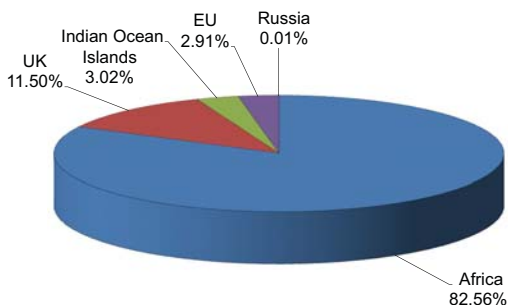
BRUSSELS SPROUTS : 2022/23 SEASON - PASSED FOR EXPORT
 (-•- 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS

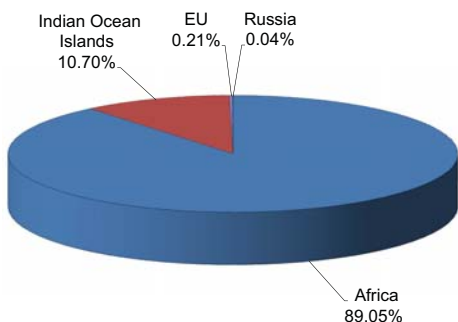


FRESH VEGETABLES

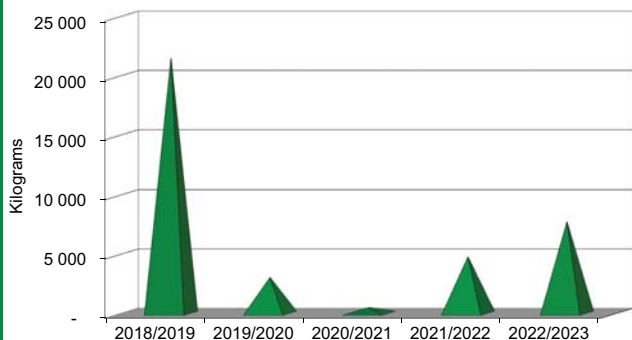
BROCCOLI



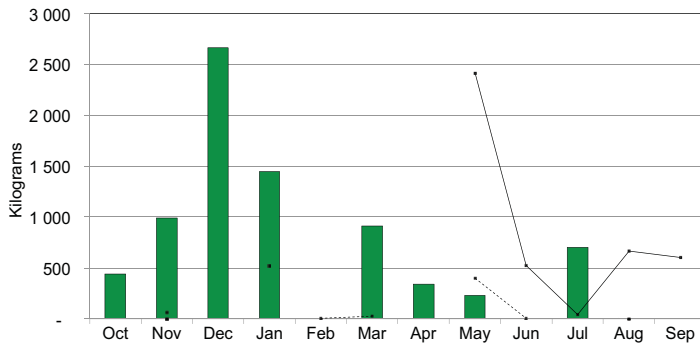
BROCCOLI : PAST 5 YEARS - MAJOR DESTINATIONS



BROCCOLI : 2022/23 SEASON - MAJOR DESTINATIONS



BROCCOLI : PAST 5 SEASONS - PASSED FOR EXPORT



BROCCOLI : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)

COMMERCIAL STORING

Optimum storage temp. 0,5°C

Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

It must be noted that leafy vegetables store best at 0,0°C. The optimum carrying temperatures are given as plus 0,5°C to reduce the danger of freezing. All leafy vegetables must be cooled quickly to below 2°C immediately after harvest.

Moisture loss must be avoided at all times to retain crispness and freshness. Free water or condensation must however be kept to the minimum to reduce decay. Adequate air movement and keeping the atmosphere absolutely free of ethylene is essential. All leafy vegetables respond favourably to CA storage. Broccoli is a cool climate crop and grows best when temperatures fluctuate between 14°C to 20°C. As a result, Broccoli is generally produced in South Africa during winter and early spring.

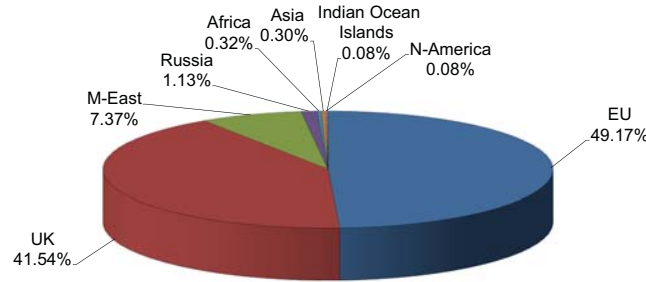
EXPORT PRODUCTION AREAS



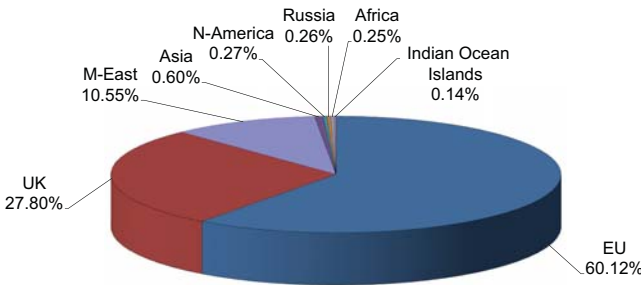
FRESH VEGETABLES

BUTTERNUT SQUASH

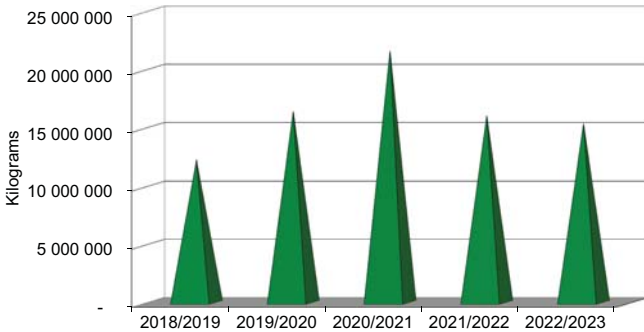
BUTTERNUT SQUASH



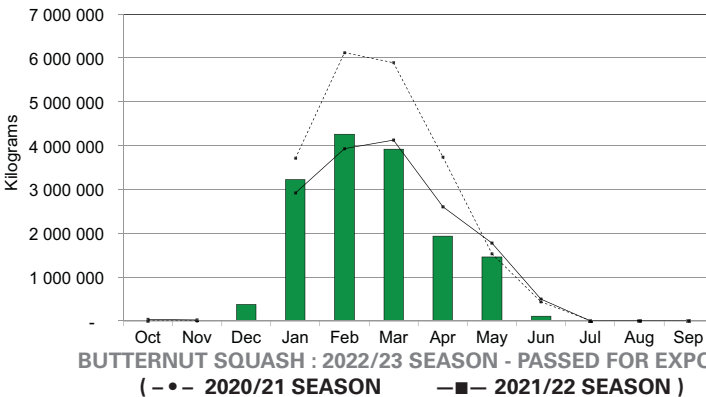
BUTTERNUT SQUASH : PAST 5 YEARS - MAJOR DESTINATIONS



BUTTERNUT SQUASH : 2022/23 SEASON - MAJOR DESTINATIONS



BUTTERNUT SQUASH : PAST 5 SEASONS - PASSED FOR EXPORT



BUTTERNUT SQUASH : 2022/23 SEASON - PASSED FOR EXPORT
(- ● - 2020/21 SEASON - ■ - 2021/22 SEASON)

COMMERCIAL STORING

Optimum storage temp.
11°C to 13°C

Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹)
15 to 25

Most of the pumpkin types and squashes can be stored for long periods at ambient temperatures provided it is kept dry at all times. Chilling injury may, however, result if the product temperature drops below 10°C. Careful handling and proper curing will also reduce losses and extend storage life.

Butternut squash is an important summer crop grown by small-holder irrigation farmers in South Africa and is increasing in popularity because production and keeping quality are good and sunburn is not a major problem. The harvested fruit is hardy and can be left on the land for a month or two. Squash is mainly grown in the Mpumalanga Highveld and Lowveld, and also in the Vaal region of Gauteng.

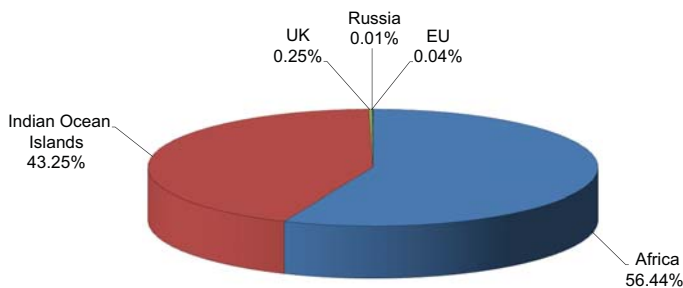
EXPORT PRODUCTION AREAS



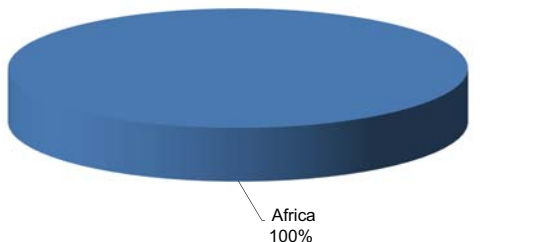
CABBAGE

FRESH VEGETABLES

CABBAGE



CABBAGE : PAST 5 YEARS - MAJOR DESTINATIONS

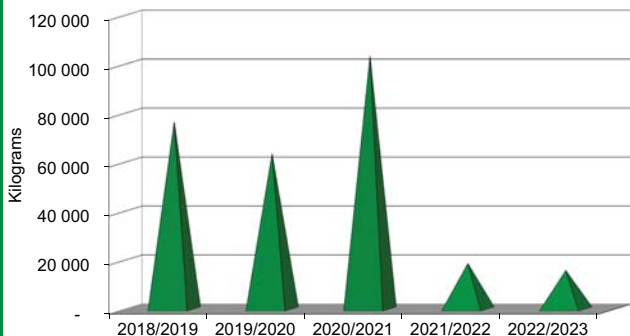


CABBAGE : 2022/23 SEASON - MAJOR DESTINATIONS

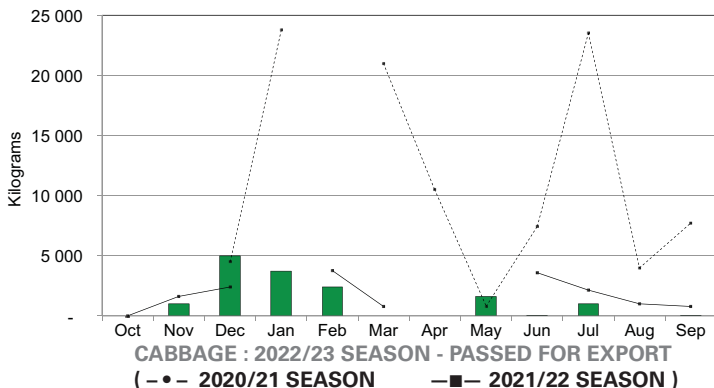
COMMERCIAL STORING

Optimum storage temp. 0,5°C
 Optimum storage RH 100%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

The best storage temperature for leafy vegetables is 0,0°C, but a temperature of plus 0,5°C is recommended to avoid freezing damage. All leafy vegetables must be cooled quickly to below 2°C immediately after harvest. Moisture loss must be avoided at all times to retain crispness and freshness. Free water or condensation must however be kept to the minimum to reduce decay. Adequate air movement and keeping the atmosphere absolutely free of ethylene is essential. All leafy vegetables respond favourably to CA storage. Cabbage is one of the most popular vegetables in South Africa and is grown country-wide. Most commercial production is concentrated in Mpuma-langa and the Camperdown and Greytown districts of KwaZulu-Natal.



CABBAGE : PAST 5 SEASONS - PASSED FOR EXPORT



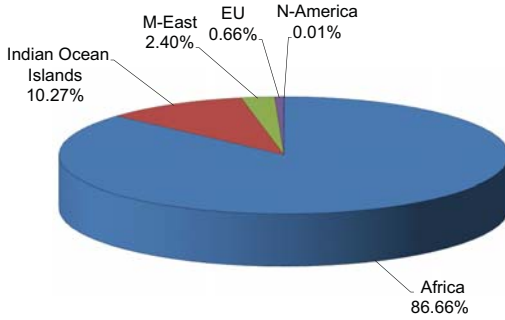
CABBAGE : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)



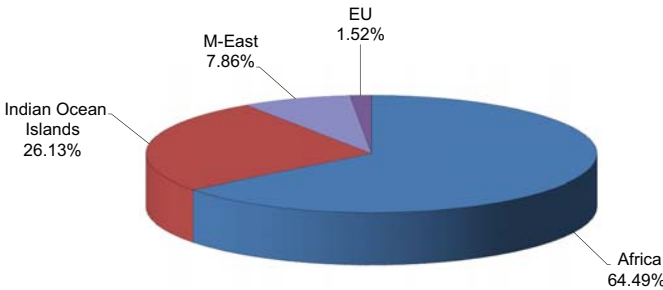
FRESH VEGETABLES

CARROTS

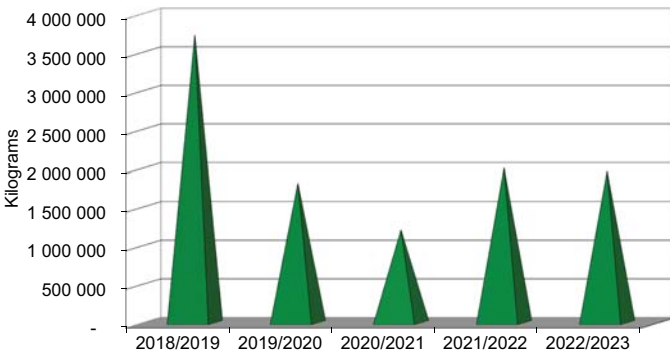
CARROTS



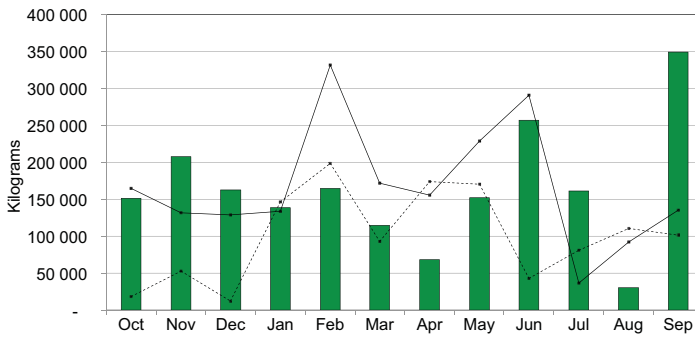
CARROTS : PAST 5 YEARS - MAJOR DESTINATIONS



CARROTS : 2022/23 SEASON - MAJOR DESTINATIONS



CARROTS : PAST 5 SEASONS - PASSED FOR EXPORT



CARROTS : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

COMMERCIAL STORING

Optimum storage temp.
0,5°C to 3,0°C

Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h¹) 15

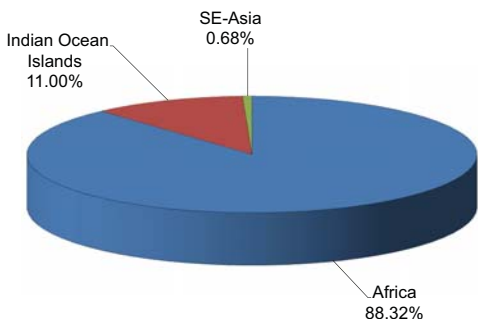
Root crops must be cooled quickly to below 5°C soon after harvest. High humidity conditions must be maintained to avoid desiccation and to retain freshness and crispness. Washing with chlorinated water will reduce decay during storage and transport. Removal of the tops will also result in less moisture loss and will allow for improved air circulation. All root crops store best at 0,0°C but freezing may be a severe risk.

Storage at plus 0,5°C is therefore recommended for South African export situations. Carrots become bitter if stored warmer than 4°C. Most of the root crops can be stored for very long periods if they are promptly cooled and adequate air circulation is applied to maintain a low temperature and a RH of approximately 95%. Carrots are grown all over South Africa and particularly near urban areas.

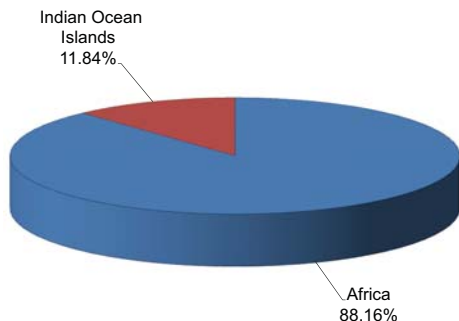
EXPORT PRODUCTION AREAS



CAULIFLOWER



CAULIFLOWER : PAST 5 YEARS - MAJOR DESTINATIONS



CAULIFLOWER : 2022/23 SEASON - MAJOR DESTINATIONS



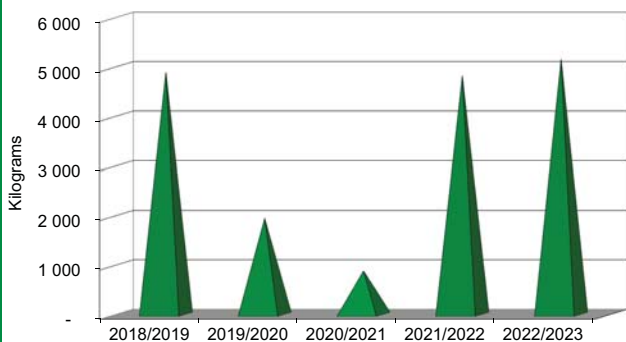
COMMERCIAL STORING

Optimum storage temp. 0,5°C

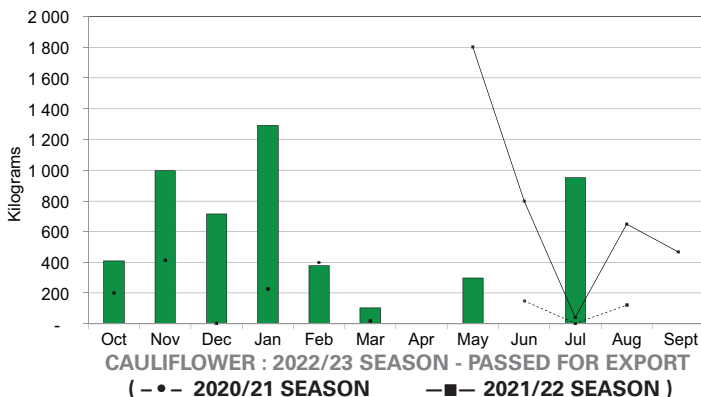
Optimum storage RH 100%

Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

The best storage temperature for leafy vegetables is 0,0°C, but a temperature of plus 0,5°C is recommended to avoid freezing damage. All leafy vegetables must be cooled quickly to below 2°C immediately after harvest. Moisture loss must be avoided at all times to retain crispness and freshness. Free water or condensation must however be kept to the minimum to reduce decay. Adequate air movement and keeping the atmosphere absolutely free of ethylene is essential. All leafy vegetables respond favourably to CA storage. Cauliflower performs and grows well in most parts of the country, ranging from Brits and Marble Hall, the central Free State, cool Lowveld areas, Eastern Free State, Gauteng, Mpumalanga Highveld, KwaZulu-Natal coastal area, KwaZulu-Natal interior, Eastern Cape, Limpopo (Marble Hall and Groblersdal), North West, Northern Cape, Western Cape, warm Lowveld areas, Southern Cape, Polokwane and Dendron.



CAULIFLOWER : PAST 5 SEASONS - PASSED FOR EXPORT



CAULIFLOWER : 2022/23 SEASON - PASSED FOR EXPORT
(-•- 2020/21 SEASON -■- 2021/22 SEASON)

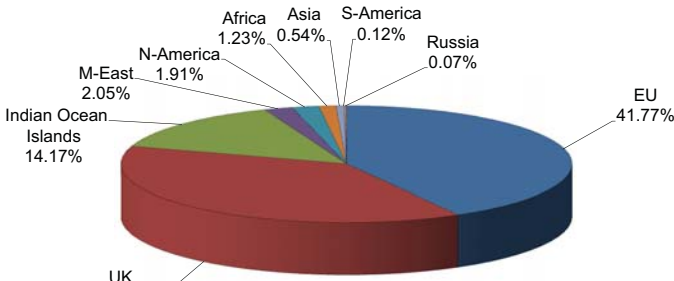
EXPORT PRODUCTION AREAS



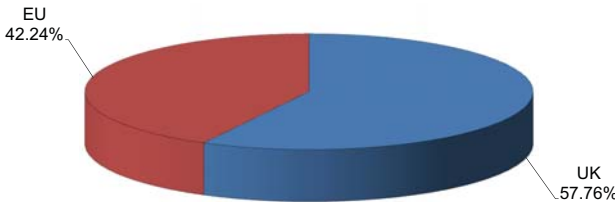
FRESH VEGETABLES

CHILLIES

CHILLIES



CHILLIES : PAST 5 YEARS - MAJOR DESTINATIONS



CHILLIES : 2022/23 SEASON - MAJOR DESTINATIONS

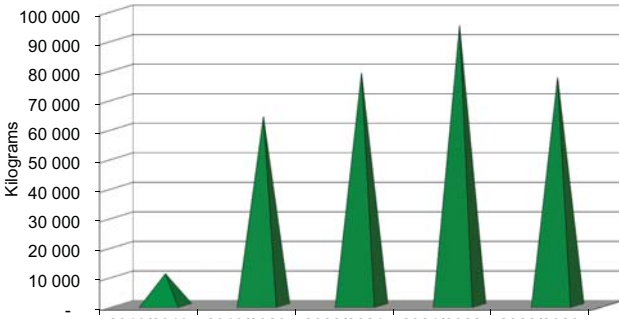
COMMERCIAL STORING

Optimum storage temp. 8.0°C to 12°C

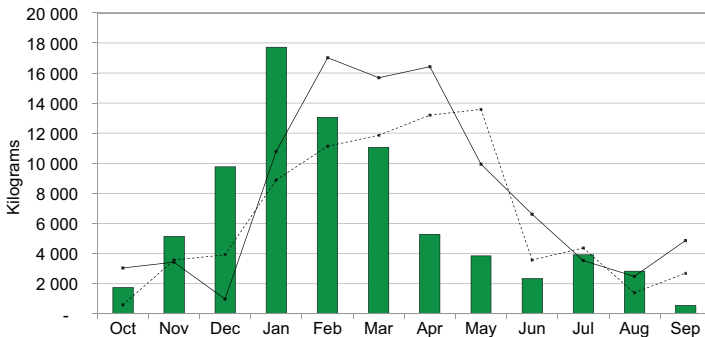
Optimum storage RH 95%

Optimum fresh air circulation (cubic m per hour – m³h) 15

Chillies are harvested for use as green vegetables when they are fully mature but change colour from green to red as they age. Fresh green chillies are only occasionally cold stored. This crop is grown in different parts of South Africa along with a large variety of other vegetable and field crops on individual farms, namely Gauteng (in the highveld and lowveld areas), Northern Cape, Eastern Cape, Western Cape, Limpopo and KwaZulu-Natal.



CHILLIES : PAST 5 SEASONS - PASSED FOR EXPORT



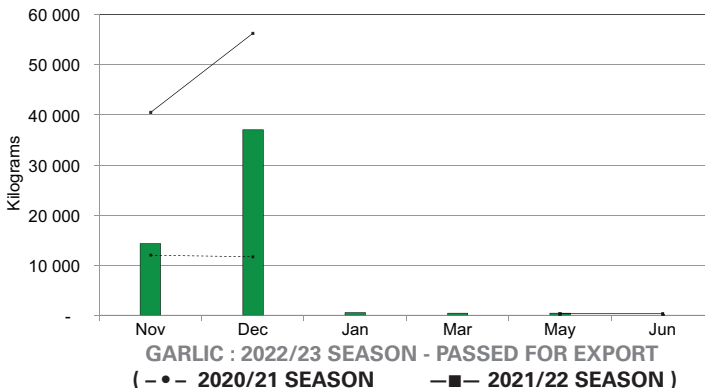
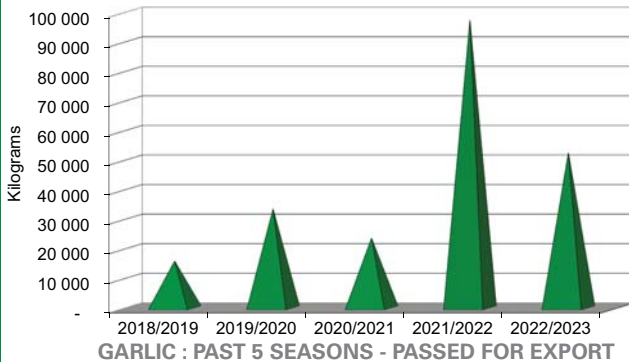
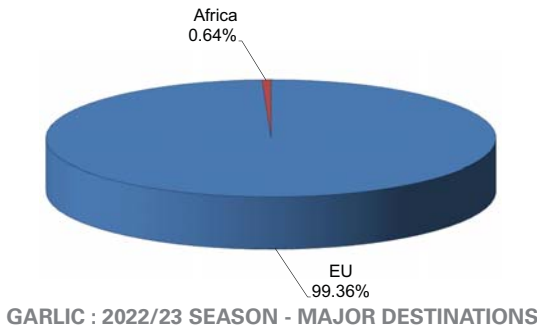
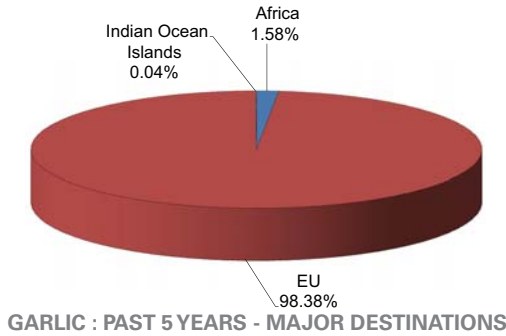
CHILLIES : 2022/23 SEASON - PASSED FOR EXPORT (- - - 2020/21 SEASON - ■ - 2021/22 SEASON)

EXPORT PRODUCTION AREAS



FRESH VEGETABLES

GARLIC

**COMMERCIAL STORING****Optimum storage temp.**

0,5°C to 20°C with a min. of 0°C

Optimum storage RH 70%**Optimum fresh air circulation**
(cubic m per hour – m³h⁻¹) Max.

Many factors such as growing conditions, climate prior to, during and after harvesting, cultivar and storage conditions will influence storage quality. Garlic must be properly cured and dried before storage. Condensation should never form on or between the dry outer leaves as this will result in the black sooty blotch fungus growth.

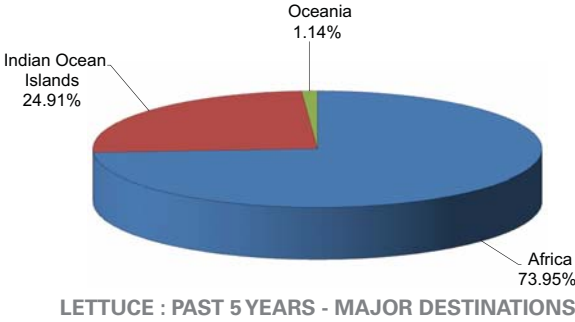
A high rate of air circulation and maintenance of a 70% RH is absolutely essential. An increased RH will result in root growth and loss of brittleness of the outer leaves. High temperatures will result in an increase in decay and also sprouting. Cooling however should only be applied 7 to 10 days after lifting to allow proper curing at warmer temperatures. High rates of air circulation are required immediately after storage at 0°C to remove all condensation. Garlic should never be stored with other produce as this results in severe tainting.

EXPORT PRODUCTION AREAS

FRESH VEGETABLES

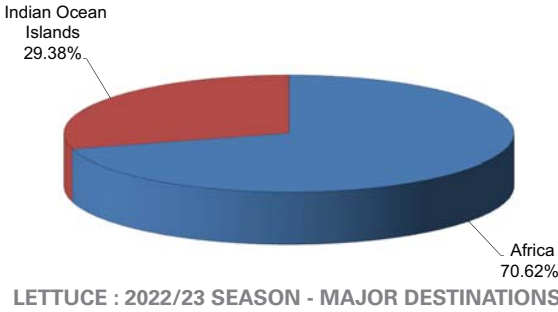
LETTUCE

LETTUCE

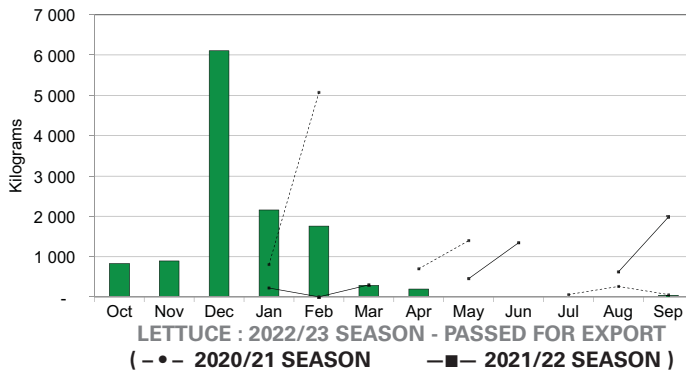
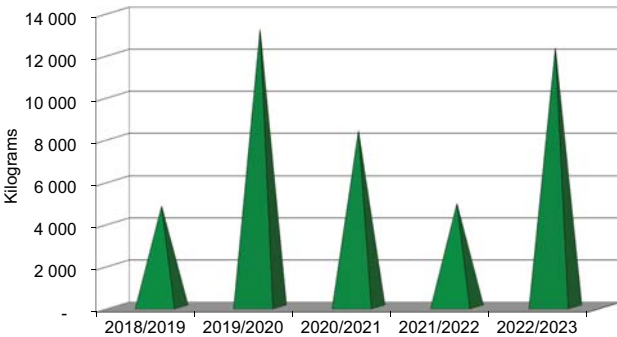


COMMERCIAL STORING

Optimum storage temp. 0,5°C
 Optimum storage RH 100%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15



The best storage temperature for leafy vegetables is 0,0°C, but a temperature of plus 0,5°C is recommended to avoid freezing damage. All leafy vegetables must be cooled quickly to below 2°C immediately after harvest. Moisture loss must be avoided at all times to retain crispness and freshness. Free water or condensation must however be kept to the minimum to reduce decay. Adequate air movement and keeping the atmosphere absolutely free of ethylene is essential. All leafy vegetables respond favourably to CA storage. Lettuce is grown all over South Africa and particularly near urban areas.

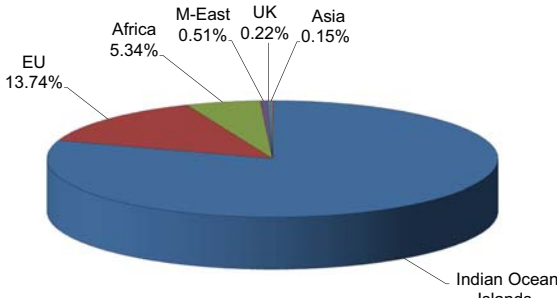


EXPORT PRODUCTION AREAS

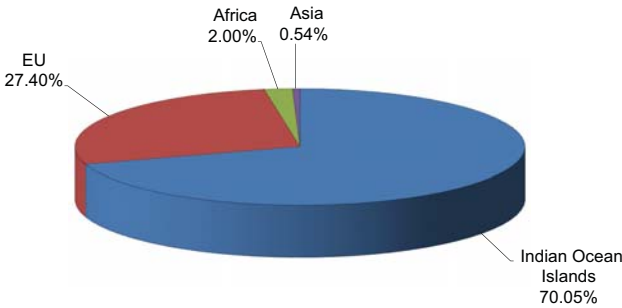


FRESH VEGETABLES

MUSHROOMS



MUSHROOMS : PAST 5 YEARS - MAJOR DESTINATIONS



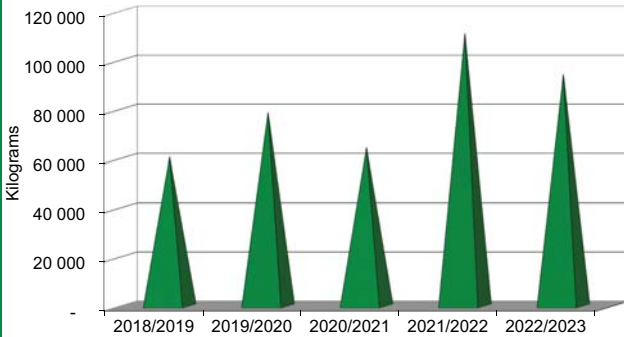
MUSHROOMS : 2022/23 SEASON - MAJOR DESTINATIONS



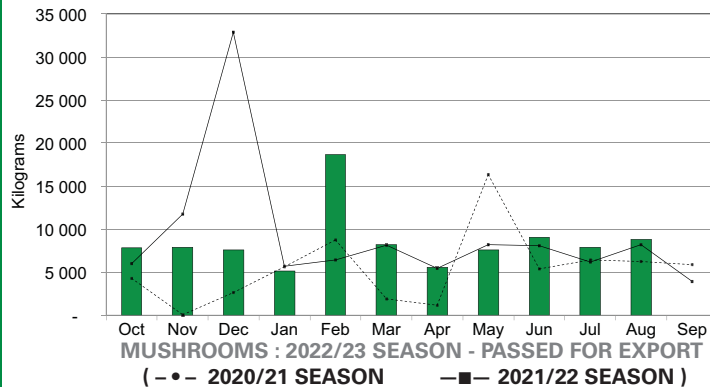
COMMERCIAL STORING

Optimum storage temp. 0°C
 Optimum storage RH 70%
 Optimum fresh air circulation
 (cubic m per hour – m³h⁻¹) 15

Mushrooms can only be stored for a couple of days, but this will depend on handling practices and rate of cooling. At 0°C the expected storage life is approximately 5 days, but is reduced to only 1 day at 10°C. Moisture loss is also a big problem and apart from maintaining a 95% RH, it is highly recommended to pack mushrooms in poly liners prior to storage. Condensation, however, must never form as this will result in decay and blackening of the mushroom.



MUSHROOMS : PAST 5 SEASONS - PASSED FOR EXPORT



MUSHROOMS : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)

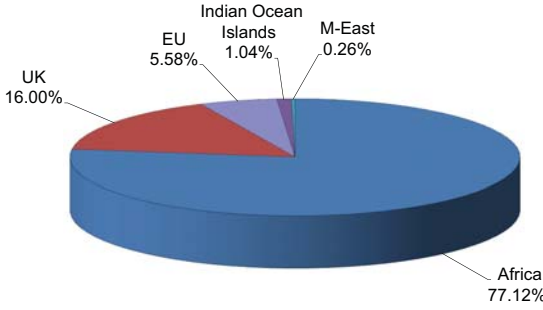
EXPORT PRODUCTION AREAS



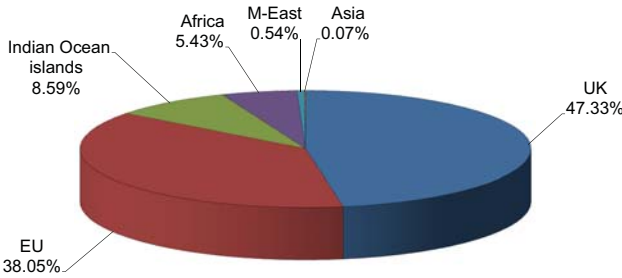
FRESH VEGETABLES

ONIONS

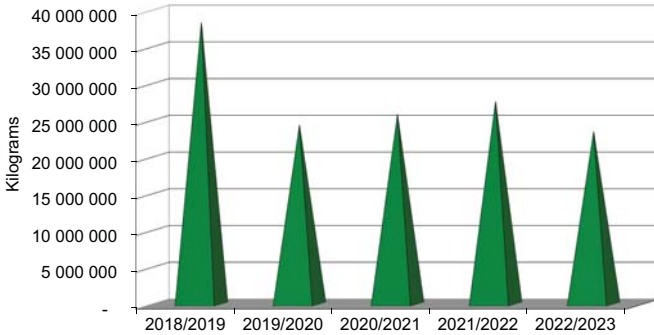
ONIONS



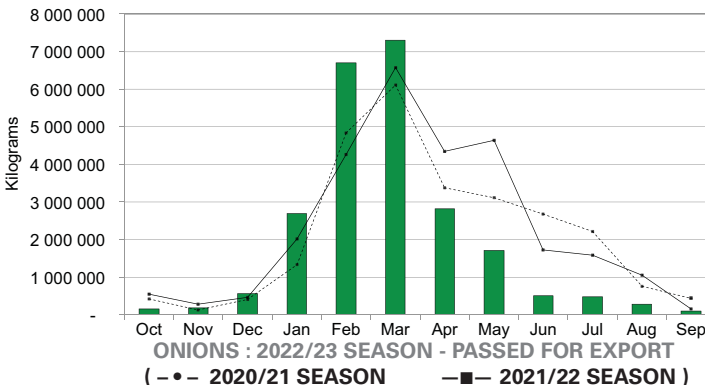
ONIONS : PAST 5 YEARS - MAJOR DESTINATIONS



ONIONS : 2022/23 SEASON - MAJOR DESTINATIONS



ONIONS : PAST 5 SEASONS - PASSED FOR EXPORT



ONIONS : 2022/23 SEASON - PASSED FOR EXPORT
 (-●- 2020/21 SEASON -■- 2021/22 SEASON)



COMMERCIAL STORING

Optimum storage temp. 0,5°C to 20°C with a min. of 0°C.
Optimum storage RH 70%
Optimum fresh air circulation (cubic m per hour – m³h¹) Max.

Growing conditions, climate prior to, during and after harvesting, cultivar and storage conditions will influence storage quality. Onions must be properly cured and dried before storage. Condensation should never form on or between the dry outer leaves as this will result in the black sooty blotch fungus growth. A high rate of air circulation and maintenance of a 70% RH is absolutely essential. An increased RH will result in root growth and loss of brittleness of the outer leaves. High temperatures will result in an increase in decay and also sprouting. Cooling however should only be applied 7 to 10 days after lifting to allow proper curing at warmer temperatures. Onions can also be shipped ventilated but quality requirements and voyage conditions must be considered. A shipping temperature of 16°C at a reduced RH, results in least quality losses provided the onions are ventilated immediately after discharge. High rates of air circulation are required immediately after storage at 0°C to remove all condensation. Onions should never be stored with other produce as this results in severe tainting.

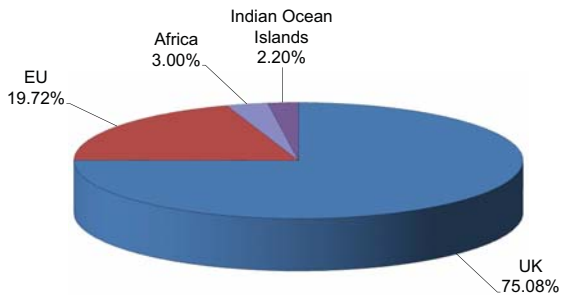
EXPORT PRODUCTION AREAS



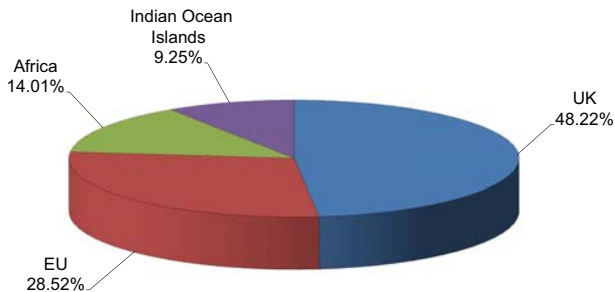
FRESH VEGETABLES

PATTY PAN SQUASH

PATTY PAN SQUASH



PATTY PAN SQUASH : PAST 5 YEARS - MAJOR DESTINATIONS



PATTY PAN SQUASH : 2022/23 SEASON - MAJOR DESTINATIONS



COMMERCIAL STORING

Optimum storage temp.

11°C to 13°C

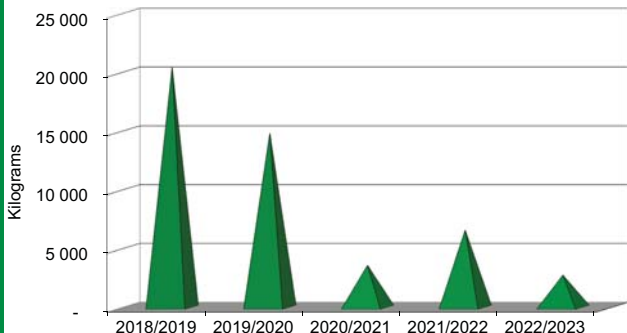
Optimum storage RH 95%

Optimum fresh air circulation

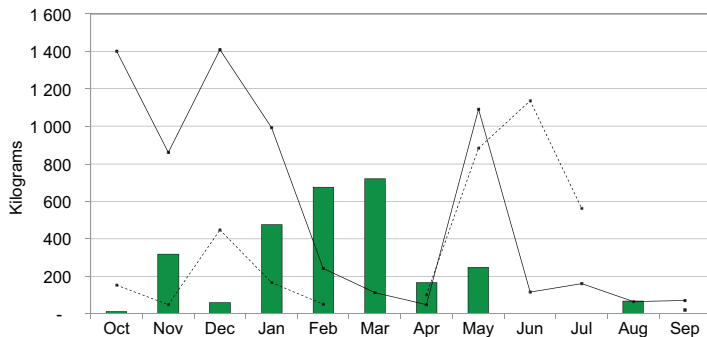
(cubic m per hour – m³h⁻¹)

15 to 25

Most of the pumpkin types and squashes can be stored for long periods at ambient temperatures provided it is kept dry at all times. Chilling injury may, however, result if the product temperature drops below 10°C. Careful handling and proper curing will also reduce losses and extend storage life. Squashes are mainly grown in the Mpumalanga Highveld, Mpumalanga Lowveld, Gauteng's Vaal river region and the Northern Free State.



PATTY PAN SQUASH : PAST 5 SEASONS - PASSED FOR EXPORT



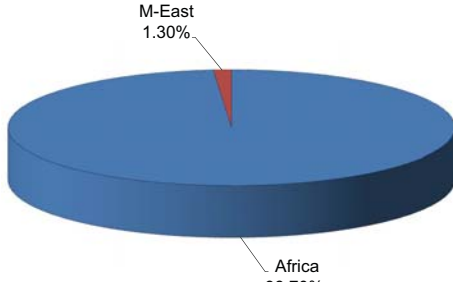
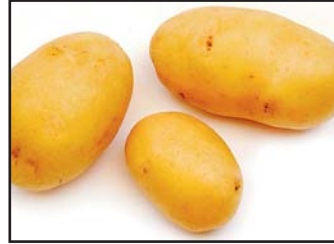
PATTY PAN SQUASH : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

EXPORT PRODUCTION AREAS

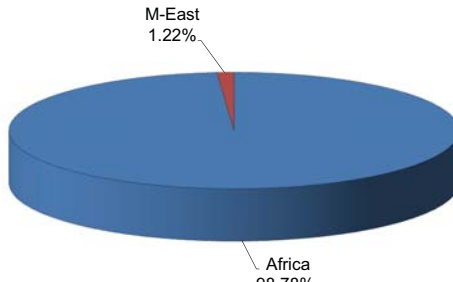


**FRESH VEGETABLES
POTATOES**

POTATOES



POTATOES : PAST 5 YEARS - MAJOR DESTINATIONS



POTATOES : 2022/23 SEASON - MAJOR DESTINATIONS

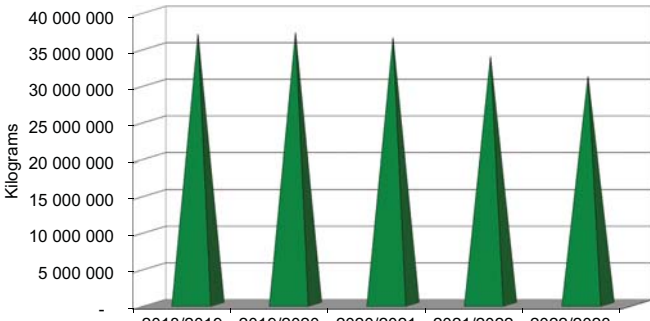
COMMERCIAL STORAGE

- Optimum storage temp.**
- Eating potatoes** 5,5°C (4,5°C min. for up to 7 days)
- Processing** 12,0°C (French fries, chips)
- Seed potatoes** 2,0°C

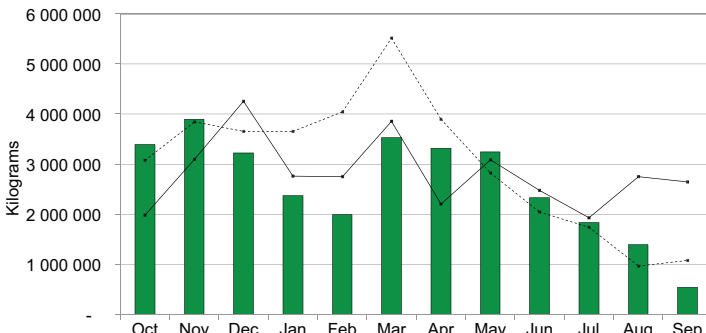
- Optimum storage RH** 95%
- Optimum fresh air circulation** (cubic m per hour – m³h⁻¹) 15-25

The potato is a tuber and botanically a shoot with growth buds. These buds will die if stored too long at too low a temperature or when exposed to ethylene gas in the storage atmosphere. Being a shoot, it turns green due to chlorophyll formation. This process is associated with the formation of an alkaloid that gives the potato a bitter taste and is also poisonous when taken in large quantities.

Potatoes must be packed in knitted bags if the voyage exceeds 10 days. Ventilated transport can be used if the voyage is less than 10 days provided that the potatoes are not stored in sea containers for more than 4 days prior to or after the voyage.

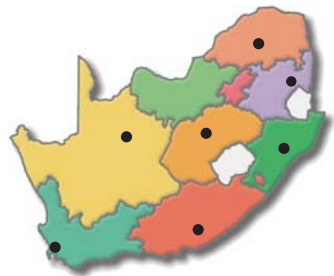


POTATOES : PAST 5 SEASONS - PASSED FOR EXPORT

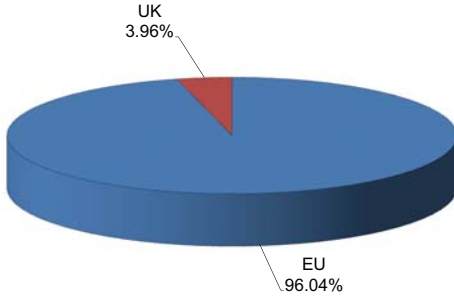


POTATOES : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

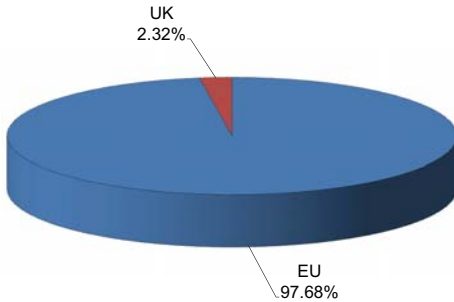
EXPORT PRODUCTION AREAS



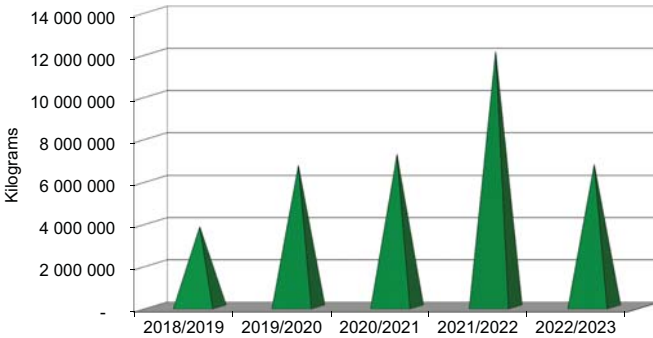
FRESH VEGETABLES
PUMPKINS



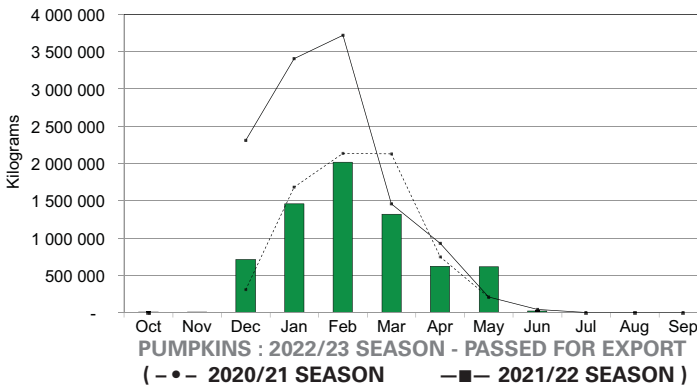
PUMPKINS : PAST 5 YEARS - MAJOR DESTINATIONS



PUMPKINS : 2022/23 SEASON - MAJOR DESTINATIONS



PUMPKINS : PAST 5 SEASONS - PASSED FOR EXPORT



PUMPKINS : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)

COMMERCIAL STORING

Optimum storage temp.

11°C to 13°C

Optimum storage RH 95%

Optimum fresh air circulation

(cubic m per hour – m³h⁻¹)

15 to 25

Most of the pumpkin types and squashes can be stored for long periods at ambient temperatures provided it is kept dry at all times. Chilling injury may, however, result if the product temperature drops below 10°C. Careful handling and proper curing will also reduce losses and extend storage life. Pumpkins are produced on a large scale in the Mpumalanga Highveld and Lowveld; Vryburg in North West; Western Cape and Vereeniging in Gauteng.

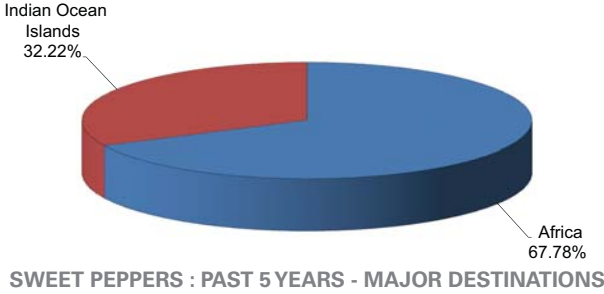
EXPORT PRODUCTION AREAS



FRESH VEGETABLES

SWEET PEPPERS

SWEET PEPPERS

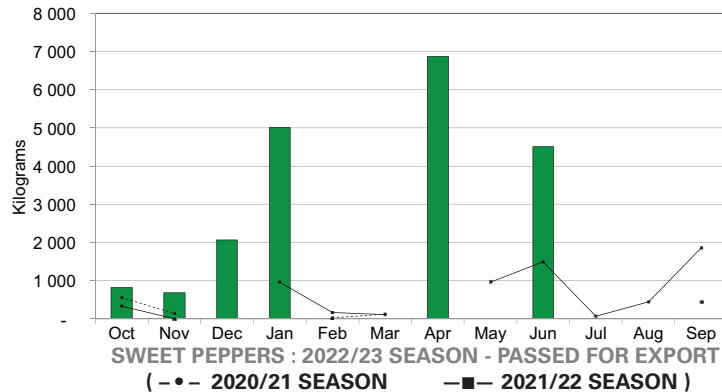
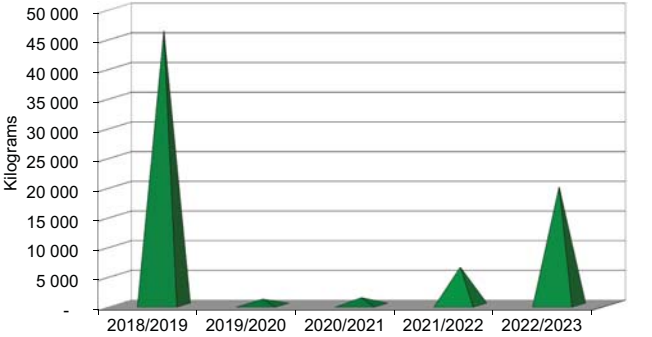
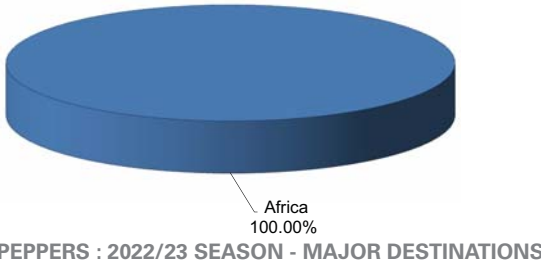


COMMERCIAL STORAGE

Optimum storage temp. 8.5°C
 Optimum storage RH 95%
 Optimum fresh air circulation (cubic m per hour – m³h⁻¹) 15

All peppers (green, yellow, red etc.) are very temperature sensitive. Peppers develop chilling injury when stored for short periods at 7,5°C and will show signs of senescence when stored above 10°C. The RH in the storage atmosphere must be 95% to reduce moisture and quality loss but no condensation must take place.

Plenty of air movement is required to remove heat of respiration and ethylene produced. Accumulation of ethylene in the atmosphere will result in discolouration and senescence. Polyliners or over wraps may be used to reduce moisture loss. Peppers must never be stored with any other produce as it will severely taint such produce. Sweet peppers are grown in different parts of South Africa along with a large variety of other vegetable and field crops in Gauteng (highveld and lowveld), Northern Cape, Eastern Cape, Western Cape, Limpopo and KwaZulu-Natal.

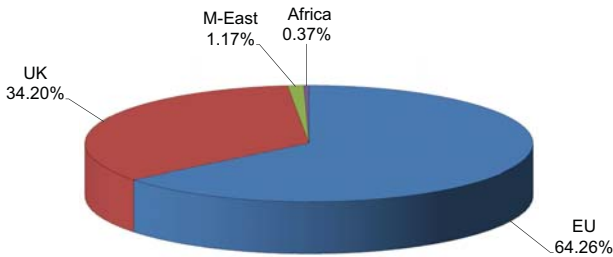


EXPORT PRODUCTION AREAS

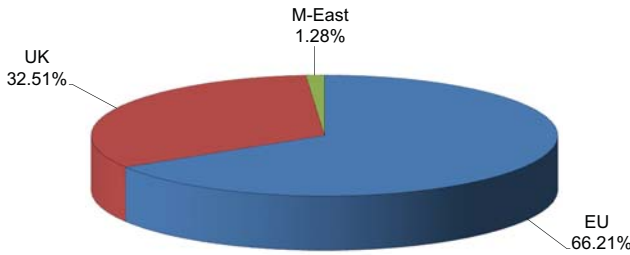


FRESH VEGETABLES

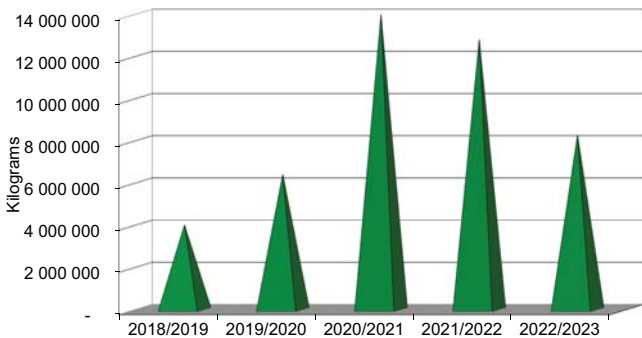
SWEET POTATOES



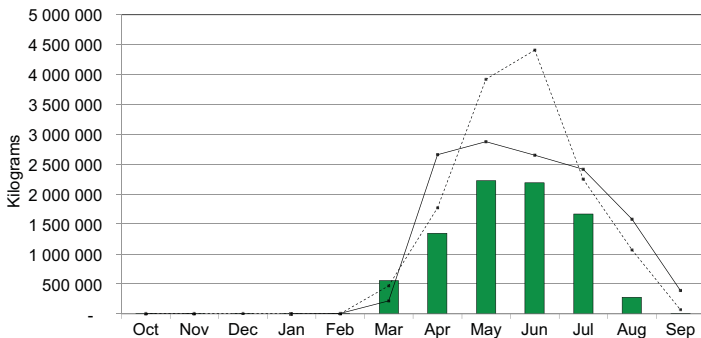
SWEET POTATOES : PAST 5 YEARS - MAJOR DESTINATIONS



SWEET POTATOES : 2022/23 SEASON - MAJOR DESTINATIONS



SWEET POTATOES : PAST 5 SEASONS - PASSED FOR EXPORT

SWEET POTATOES : 2022/23 SEASON - PASSED FOR EXPORT
(- • - 2020/21 SEASON - ■ - 2021/22 SEASON)

COMMERCIAL STORING

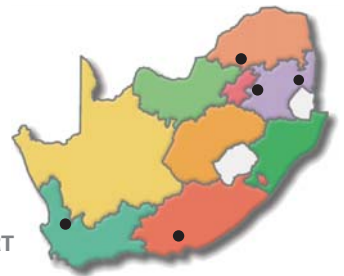
Optimum storage temp. 14°C

Optimum storage RH 95%

Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

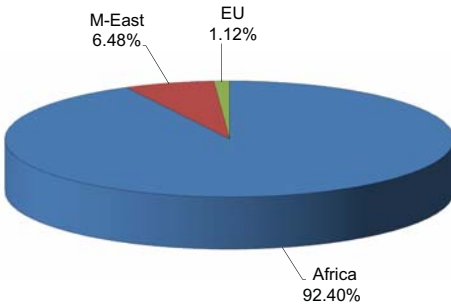
Sweet potatoes must be properly cured before storage, and moisture of condensation must never be allowed to form. Adequate air circulation is required to keep the product dry and to remove respiration heat. Chilling injury will develop after only a few hours at 9°C and sprouting develops at temperatures above 14°C. Handling always causes injuries and this will result in decay. Sweet potatoes must therefore be handled carefully and be packed in strong containers. Some curing should be allowed after packing to reduce decay during transit.

EXPORT PRODUCTION AREAS

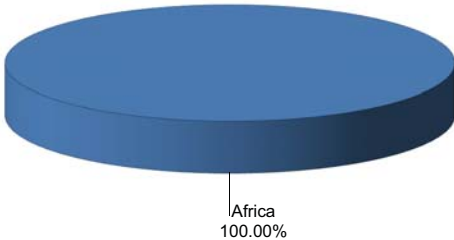


FRESH VEGETABLES
TOMATOES

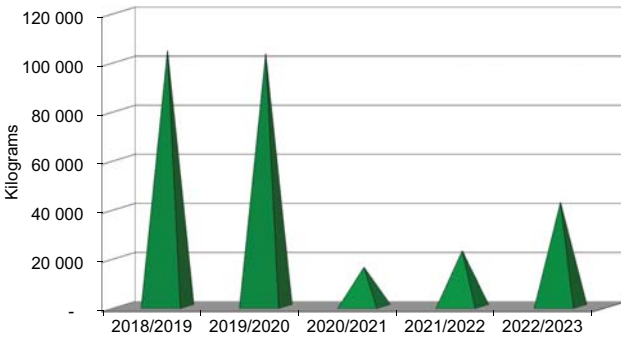
TOMATOES



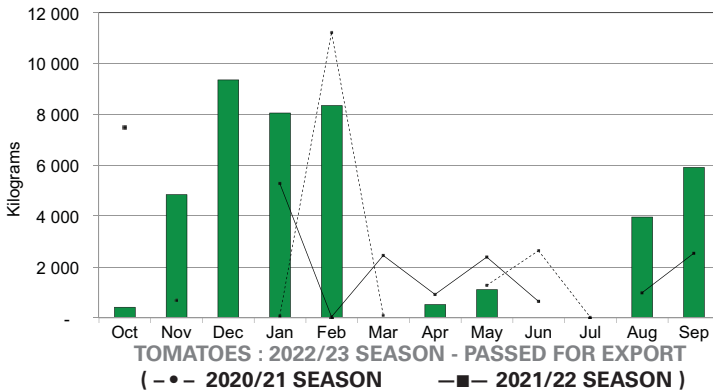
TOMATOES : PAST 5 YEARS - MAJOR DESTINATIONS



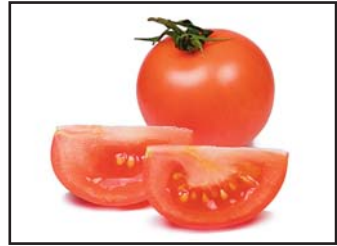
TOMATOES : 2022/23 SEASON - MAJOR DESTINATIONS



TOMATOES : PAST 5 SEASONS - PASSED FOR EXPORT



TOMATOES : 2022/23 SEASON - PASSED FOR EXPORT
(-●- 2020/21 SEASON -■- 2021/22 SEASON)



COMMERCIAL STORING

Optimum storage temp.
Mature green: 12,5°C
Firm ripe: 4,5°C

Optimum storage RH 95%
Optimum fresh air circulation
(cubic m per hour – m³h⁻¹) 15

Green tomatoes are very susceptible to chilling injury and must be kept at 12,5°C. Ripe tomatoes on the other hand soften and deteriorate very fast at temperatures above 4,5°C. Fruit of some of the newly developed cultivars retain colour and ripen very slowly. Although it has an extended market life, it must be promptly cooled and kept cold. Only tomatoes specially produced, selected, picked, handled, packed and cooled for export should be shipped.

EXPORT PRODUCTION AREAS





PLANTING THE SEEDS TO DEVELOP AGRO-INDUSTRIES

The Industrial Development Corporation's Agro Processing and Agriculture Strategic Business Unit (SBU) supports a wide range of economically viable activities in the horticulture, food and beverage, animal protein (meat, dairy and aquaculture) and forestry sectors. Investing in this industry is critical to the economic direction of the country's development plans. It is for this reason we encourage development in the sector via, amongst others, on-going economic growth, job creation and inclusivity.

Our strategic focus is to facilitate competitive import replacement in South Africa and the rest of the African continent, capitalize on our niche and high value crops (including those exported), as well as to support job-rich sub-sectors, rural development and inclusive development models, thereby promoting transformation and inclusivity in this sector. Currently the SBU has over R5 billion of exposure and commitments in this sector and plans to increase its role in this highly important value chain. We are taking the lead in developing the Agro-Industry to reach its full potential by providing on-site job opportunities and turning raw products into consumable goods in the agro processing sector. We also look at financing projects with backward integration, adopting a value chain approach.

The IDC partners with new or existing companies within the Agro-Industries sector that plan to create new or expand their industrial capacity to create sustainable jobs and viable businesses. We also consider supporting BBBEE acquisitions for expansionary purposes in this sector and can consider financing in the rest of the continent as well.

Agro-Industries are often based in rural areas, and therefore we remain committed to developing the agriculture value chain. An increased agricultural output will not only result in the creation of additional rural agro-processing businesses but will also boost the country's food security and economic growth. Promoting BEE and broad-based participation in turn supports transformation and inclusivity in this sector.

If you require funding, apply to the IDC by submitting a complete business plan. A business plan guide can be found on the IDC website.

For more information visit www.idc.co.za



Your partner in development finance

SECTION 3

STEP-BY-STEP MANUAL FOR EXPORTERS OF SOUTH AFRICAN FRESH PRODUCE



agriculture, land reform
and rural development

Department:
Agriculture, Land Reform and Rural Development
REPUBLIC OF SOUTH AFRICA

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ACRONYMS AND ABBREVIATIONS

AGOA	African Growth and Opportunity Act
APAC	Agricultural Produce Agents Council
APS	Agricultural Product Standards (Act)
AQSIQ	Administration of Quality Supervision, Inspection and Quarantine
CBS	Citrus black spot
CCS	Commercial Cold Store
CD	Container Depot
CGA	Citrus Growers' Association
CIF	Cost Insurance Freight
Cites	Convention on International Trade in Endangered Species
CRI	Citrus Research Institute
CSIR	Council for Scientific and Industrial Research
DALRRD	Department of Agriculture, Land Reform and Rural Development
D: APIS	Directorate Agricultural Product Inspection Services, Dept. of Agriculture, Land Reform & Rural Dev.
D: FSQA	Directorate Food Safety and Quality Assurance, Dept. of Agriculture, Land Reform & Rural Dev.
D: ITR	Directorate International Trade
DIP	Delivered in Port
D: PH	Directorate Plant Health, Dept. of Agriculture, Land Reform & Rural Development
dtic	Department of Trade and Industry and Competition
ECIC	Export Credit Insurance Corporation Ltd
EBTIDA	Earnings Before Tax, Interest, Dividends and Amortisation
EC	European Commission
EFTA	European Free Trade Agreement
EMIA	Export Marketing and Investment Assistance
EU	European Union
FBO	Food Business Operator
FDI	Foreign Direct Investment
FOB	Free on Board
FPEF	Fresh Produce Exporters' Forum
GAP	Good Agricultural Practices
GSP	General System of Preferences
HACCP	Hazard Analysis Critical Control Points
HD	Historically Disadvantaged
Hortgro	Formerly Deciduous Fruit Producers' Trust (DFPT)
IPPC	International Plant Protection Convention (FAO)
IDC	Industrial Development Corporation
NEF	National Empowerment Fund (Trust)
NP	National Pavilions
NPPO	National Plant Protection Organisation
OIM	Outward Investment Missions
OSM	Outward Selling Trade Missions
PFMA	Public Finance Management Act
PHC	Pack-House Code
PIPAS	Provincial Investment Promotion Agencies
PMR	Primary Market Research
PPOCES	Processing Plant Code
PPECB	Perishable Products Export Control Board
PUC	Production Unit Code
QMS	Quality Management System
SA	South Africa
SAAGA	SA Avocado Growers' Association
SABS	South African Bureau of Standards
SACU	South African Customs Union
SADC	Southern African Development Community
SAECS	South Africa Europe Container Service
SAMAF	South Africa Micro Finance Apex Fund
SARS	South African Revenue Service
SATI	South African Table Grape Industry
SEDA	Small Enterprise Development Agency
SIZA	Sustainability Initiative of South Africa
SMME	Small, Medium and Micro Enterprise
SPS	Sanitary and Phytosanitary
TDCA	Trade, Development and Cooperation Agreement
TRANS	Transport Operator
US	United States
USDA	United States Department of Agriculture
UK	United Kingdom
WTA	World trade atlas
WTO	World Trade Organization

INTRODUCTION

WHY THIS MANUAL?

The Dept. of Agriculture, Land Reform & Rural Development's Directorate: International Trade Promotions receives many inquiries from potential traders ranging from how to export, where to export, what are the requirements needed to meet the standards of the importing countries and who to contact for such information. This manual aims to provide answers to exporters' questions regarding the requirements for exporting fresh produce.

FOR WHOM IS THE MANUAL?

Potential fruit exporters who want to know more about what to do and whom to contact about becoming a fresh produce exporter should find this information useful.

USING THE MANUAL

This manual is intended to provide a deeper understanding of processes and requirements applicable to fresh produce exporters in South Africa. It is structured as follows:

- **Chapter one** provides information on all the statutory requirements for fresh produce exporters (SARS, DALRRD, PPECB and APAC). It also gives information on export protocols for markets with specific phytosanitary requirements ('special markets'), registration for phytosanitary certificates and PPECB inspections.
- **Chapter two** has information on packaging, traceability, product labelling and fresh produce supply chain software.
- **Chapter three** is about standards that are required by private companies or individual retailers. These standards are not set through bilateral government-to-government agreements.
- **Chapter four** provides information about modes of transport that can be used when exporting and provides an overview of the role of logistics agents.
- **Chapter five** provides information on trading terms/Incoterms®, pricing, claims and agency agreements.
- **Chapter six** has an illustration of a cost breakdown of a shipment, showing percentages of money spent in different stages of a value chain.
- **Chapter seven** provides information on fruit industry associations that can assist one with more information and support on becoming export ready as a grower or export marketing agent.
- **Chapter eight** has a list and contact details of training and provincial institutions that can provide training and support in export-related topics.
- **Chapter nine** contains information on how to access export markets for emerging farmers.
- **Chapter ten** provides information about various sources of financial support available for exporters both in the government and private sector.
- **Chapter eleven** provides a checklist that potential exporters can use to check if they are ready to export their products and references to some databases that can be used for market analysis when searching for potential markets and when an exporter wants to investigate its competitors.
- **Chapter twelve** provides checklists for export documents required by the importer – either to satisfy the country's trade control authorities or to enable a documentary credit transaction to be implemented.

CHAPTER 1

STATUTORY REGISTRATIONS AND COMPLIANCE

1.1 REGISTRATION WITH SARS AS AN EXPORTER

All exporters need to register with SARS, specifically with Customs and Excise, a division of SARS. SARS/Customs and Excise have a multitude of interconnected forms that must be completed for different requirements. Individuals, sole proprietors, companies, close corporations and trusts can all register as exporters. When you register, you will be issued with a customs client number and an exporter registration number.

SARS web address: www.sars.gov.za
 Head Office: 299 Bronkhorst Street, Nieuw Muckleneuk, Pretoria
 Telephone number: +27 12 422 4000
 Fax number: +27 12 422 6820
 Postal address: Private Bag X923, Pretoria 0001
 Business hours: Weekdays 07:30 to 16:15

Categories for which an exporter can register and their web links:

- (a) You want to register as a general exporter and do not plan to take advantage of any of the trade agreements that South Africa has in place.
 - ⇒ www.exporthelp.co.za
 - ⇒ *Export Documentation*
 - ⇒ *Register as an exporter*
 - ⇒ *(Choose option 1)*
- (b) You want to register as an exporter under the AGOA (African Growth and Opportunity Act) trade agreement (to the US).
 - ⇒ www.exporthelp.co.za
 - ⇒ *Export Documentation*
 - ⇒ *Register as an exporter*
 - ⇒ *(Choose option 2)*
- (c) You want to register as an exporter of GSP (General System of Preferences) goods to the following countries: the European Union, Norway, Switzerland, Russia and Turkey.
 - ⇒ www.exporthelp.co.za
 - ⇒ *Export Documentation*
 - ⇒ *Register as an exporter*
 - ⇒ *(Choose option 3)*
- (d) You want to register as an approved exporter in terms of the TDCA (Trade, Development and Cooperation Agreement) that exists between the European Community (EC) and South Africa.
 - ⇒ www.exporthelp.co.za
 - ⇒ *Export Documentation*
 - ⇒ *Register as an exporter*
 - ⇒ *(Choose option 4)*
- (e) You want to register as an approved exporter in terms of the SACU-EFTA (South African Customs Union-European Free Trade Agreement) trade agreement.
 - ⇒ www.exporthelp.co.za
 - ⇒ *Export Documentation*
 - ⇒ *Register as an exporter*
 - ⇒ *(Choose option 5)*
- (f) You want to register as an exporter in terms of the SADC (Southern African Development Community) trade agreement.
 - ⇒ www.exporthelp.co.za
 - ⇒ *Export Documentation*
 - ⇒ *Register as an exporter*
 - ⇒ *(Choose option 6)*

1.2 REGISTRATION AND INSPECTION SERVICES BY THE DEPT. OF AGRICULTURE, LAND REFORM & RURAL DEVELOPMENT (DALRRD)

1.2.1 Registration as a Food Business Operator (FBO)

All export marketing agents need to register with DALRRD as a Food Business Operator (FBO) and obtain a FBO code. Similarly, farms need to register with DALRRD as a FBO to obtain an agricultural Production Unit Code (PUC) and pack houses need to register to obtain a pack house code (PHC) to enable their produce to be exported to other countries including special markets. Those who have food business operations other than for exports must also register their businesses to obtain codes.

The various codes are:

PHC	Pack House (On-farm)/(Off-farm) Code
PUC	Production Unit Code
CCS	Commercial Cold Store Code
PPOCES	Processing Plant Code
CD	Container Depot Code
TRANS	Transport Operator Code.

This is mandatory and it is done at the Department of Agriculture, Forestry and Fisheries, Directorate Food Safety and Quality Assurance (D: FSQA). The FBO registration can be done by e-mail, faxes or on-line registration on the Department's website at:

⇒ www.dalrrd.gov.za

⇒ Branches

⇒ Agricultural Production, Health & Food Safety

⇒ Food Safety & Quality Assurance

⇒ Food Business Operator Registration

Contact the Director: FSQA at +27 12 319 7306 or email DFSQA@dalrrd.gov.za for more information, or alternatively contact +27 12 319 6387/6018/6070 or email BernardMA@dalrrd.gov.za, HanlieW@dalrrd.gov.za, codes@dalrrd.gov.za, AnsieE@dalrrd.gov.za or MarutlaS@dalrrd.gov.za

The department will issue a PUC and PHC code, which must be marked on every carton for products destined for sale in export markets. Each carton must be marked with the name and address of the producer, exporter or owner of the carton. This is done to facilitate traceability for food safety, quality, sanitary and phytosanitary reasons.

1.2.2 Phytosanitary registration and phytosanitary certificates

All fresh produce export consignments require a phytosanitary certificate to confirm that the shipment complies with the phytosanitary requirements of the importing country. Phytosanitary certificates are now issued via DALRRD's new electronic, paperless eCert platform. All exporters must therefore register as eCert users via the following link:
⇒ <https://ecert.co.za/getting-started>

The eCert website provides instructions on how to register and apply for phytosanitary certificates (ePhyto) via the following link:

⇒ <https://ecert.co.za/guides>

Please note that manual application for phytosanitary certificates is being discontinued and that in future all registrations and applications must be done through the eCert platform or third party applications, such as PPECB's TITAN system (refer to 1.3.1), which are linked to the eCert platform.

1.2.3 Registration for special markets

DALRRD has negotiated bilateral agreements (protocols) with various countries for different products. These specify the requirements to reduce the risk of quarantine pests and diseases. The information is accessible on the department's website.

An export agent, producer or pack house manager or inspection point manager who is intending to export fruit to special markets, must apply for phytosanitary approval and registration of their FBO (it applies for PUC and PHC only) at the Directorate Plant Health. Registration for special markets is now done through the online PhytClean platform, which can be found at (www.phytclean.co.za). Registration instructions are available via the following link:
⇒ <https://ecert.co.za/guides/how-to-apply-for-phytosanitary-special-markets-puc-user-guide>

Alternatively, contact the Director: Plant Health at +27 12 319 6529 or email: pa.dph@dalrrd.gov.za or dph@dalrrd.gov.za for further information. It is mandatory to apply for approval to export to special markets.

If exporters do not yet meet the requirements for the special markets they can direct their exports to other markets either locally or to countries with less stringent market requirements and not listed as special markets. Producers or exporters must obtain the official phytosanitary import requirements of the country to which they want to export through the relevant client or importer. Contact the department (Directorate: Plant Health) for assistance. Only pro-

duction units and pack houses (i.e. PUC and PHC) that are registered with the department (Directorate: Food Safety and Quality Assurance) and have registered FBO codes are allowed to apply for phytosanitary approval and registration for special markets. To verify if your PUC and PHC codes are updated or registered by D: FSQA please visit:

⇒ <http://fbo.dalrrd.gov.za>

⇒ FBO

⇒ index

The closing dates for applications for updating FBO codes or phytosanitary registration for special markets are indicated annually on the departmental website.

By registering for special markets, the FBO confirms that the production unit or pack house complies with the phytosanitary measures of the relevant importing countries. Compliance is the responsibility of the exporters, with the assistance of their representative commodity organisations (refer to chapter 7 for further details), e.g. the Citrus Growers' Association (CGA), the Fresh Produce Exporters' Forum (FPEF), the South African Table Grape Industry (SATI), Hortgro and the Subtropical Growers Association.

Application via eCert, does not guarantee automatic approval to participate in the export programme to special markets. All facilities (PUC and PHC) must go through the process of phytosanitary inspection and verification for compliance by the Directorate: Agricultural Products Inspection Services (D: APIS). Depending on the outcome of the inspection, the units may or may not be approved.

Confirmation of the approved facilities is sent to the relevant importing country for final approval. The Dept. of Agriculture, Land Reform & Rural Development's website is regularly updated in respect of PUCs and PHCs currently approved for export. A registration fee revised annually is payable into the department's bank account. Contact the Directorate: Plant Health (D: PH) for the amount and banking details or consult the departmental website.

Detailed information regarding the special markets and the requirements of each is accessible on the department's website by following these links:

⇒ www.dalrrd.gov.za

⇒ Branches

⇒ Economic Development, Trade & Marketing

⇒ International Trade

⇒ Trade Agreements

The following are countries with which South Africa has bilateral agreements (export protocols) or for which specific phytosanitary requirements are required:

Product Group	Country	Product Types
Citrus fruits	China	All types of citrus (mandarins, sweet oranges, lemons and grapefruit) produced in all provinces.
	EU/Trading partner	All types of citrus (mandarins, sweet oranges, lemons and grapefruit) produced in all provinces.
	Iran	All types of soft citrus, oranges, lemons and grapefruit produced from all provinces.
	Japan	Sweet oranges (Valencia variety, Washington variety, Tomango variety and Protea variety), lemons and grapefruit from SA and Swaziland.
	South Korea	Sweet oranges (Valencia and navel varieties) produced from all SA
	USA	All types of soft citrus, sweet oranges, lemons and grapefruit exported only from officially approved citrus black spot-free areas, i.e. from 28 magisterial districts in the Western Cape and two magisterial districts in the Northern Cape. Additional areas were approved in 2010. Contact the Dept. of Agriculture, Land Reform & Rural Development to get an up-to-date list of CBS-free areas approved by the USDA.
Deciduous fruits	China	Table Grapes
	Israel	Table grapes (produced from the Hex River Valley and Berg River Valley in the Western Cape and the Orange River Valley in the Northern Cape). Persimmons produced from the Greyton and Swellendam Warrenton districts. Additional areas are still under negotiation.
	Mexico	Apples and Pears
	Taiwan	Apples
	USA	Table grapes, apples and pears as well as specific stone fruit types (<i>Prunus</i> spp.) – produced in all provinces.

1.2.4 Application of GAPs for phytosanitary registration

An exporter has to apply Good Agricultural Practices (GAPs) and procedures for specific plant pests in order to be able to export to some countries. These phytosanitary GAP documents relate to the quarantine of pests concerned to the importing country, as listed in the relevant bilateral export protocol. Producers that are approved and registered to participate in the relevant export programme must apply the required GAPs. The Directorate: Plant Health can be contacted for more information.

1.2.5 Inspection of orchards and packhouses

After application for the phytosanitary registration of an orchard or pack house, the relevant unit will be inspected. The inspections are carried out by the Dept. of Agriculture, Land Reform & Rural Development's Directorate: Agriculture Products Inspection Services (D: APIS). The inspections are to ensure that the orchards and pack houses comply with the conditions of the relevant importing countries. For all special markets (including EU countries) the vineyards and orchards must be inspected and verified as being compliant.

Inspections can be booked via the PhytClean platform (www.phytclean.co.za) or via the eCert platform. Please see below a link with instructions for booking orchard inspections:

⇒ <https://ecert.co.za/guides/einspect-application-for-orchard-inspection-end-user/>

For further enquiries, contact the Director: APIS at email: dapis@dalrrd.gov.za or pa.dapis@dalrrd.gov.za.

1.3 PPECB REGISTRATION AND INSPECTIONS

It is mandatory for all fresh produce shipments to be inspected and passed for export by the Perishable Products Export Control Board (PPECB), as the inspection service appointed by DALRRD, and it is therefore mandatory for all fresh produce exporters to register with the PPECB. Details about the registration process can be found on the PPECB website via the following link:

⇒ <https://ppecb.com/registration-process>

The PPECB delivers inspection and food safety services assigned by DALRRD under the APS Act, No.119 of 1990. As a national public entity, the PPECB is also constituted and mandated in terms of the Perishable Products Export Control Act (PPEC Act), No 9, of 1983 to perform cold chain services. The presence of the PPECB in the export industry is furthermore enhanced by its recognition as an approved third country under the European Commission Regulation 543 of 2011. This agreement recognises the South African inspection systems as equivalent to that of the EU inspection bodies and therefore ensures less frequent checks at the port of import into the EU.

PPECB Inspectors, stationed across South Africa, are suitably qualified and extensively trained to deliver consistent quality inspection services on over 200 product types at more than 1 500 locations. Products approved for export carry the passed for export stamp, regarded as a symbol of quality assurance to clients and consumers around the world. As South Africa's official certification agency for perishable export products, the PPECB's impartial and independent services significantly reduces risks for producers and exporters.

The PPECB's services for exporters continues during loading and transportation. During loading the PPECB confirms the temperature of the product, inspects the physical condition of the pallets and ensures the container is set to the optimum carrying temperature for the specified product. When cargo is loaded onto the specified vessels the temperature of the vessel is determined at various points of the journey to ensure the optimum temperature is maintained.

1.3.1 TITAN Registration

Each export consignment must be inspected by the PPECB and requires an export certificate with an accompanying addendum to be issued by the PPECB. Applications for inspections and the issuing of documents are all processed via the PPECB's mobile technology platform, the TITAN system. TITAN, is aimed at eliminating the manual processes involved with quality inspections and export certification. The platform serves as a paperless system for inspections, export certification, and generating export addendums. Titan client registration can be accessed via the following link:

⇒ <https://titan.ppecb.com>

1.4 APAC REGISTRATION

It is mandatory (Section 16 (1)(a) of the APA Act) for all South African fresh produce exporters to be registered with the Agricultural Produce Agents Council (APAC). The application form and details about the application process can be found on the APAC website at:

⇒ <https://www.apacweb.org.za/export-agents>

1.5 COMPLIANCE WITH GLOBAL PESTICIDE REGULATIONS

To protect consumer health, most countries have maximum legal limits for pesticide residues in foods (MRLs). In addition to this, most countries also have a list of restricted or banned pesticides.

It is the responsibility of fresh produce exporters to know what pesticides are restricted or banned in the receiving country, to know what the MRLs are in the receiving country for the crop in question, and to ensure that the crop to be exported does not contain residues of any banned pesticides or exceed the MRLs. Commodity organisations (refer to chapter 7) assist exporters and growers in staying up to date in this regard.

Many receiving countries conduct random residue tests and should a consignment be found to contain residues of banned or restricted pesticides, or exceed the MRLs of the receiving country, the shipment will be destroyed. In some cases it may be possible to transfer the consignment to another country where the product complies with regulations.

In addition to national MRLs, some retailers have stricter MRL requirements which suppliers need to adhere to. At farm level, certification such as GLOBALG.A.P. is an important tool in proactively managing spray programmes and the application of pesticides to prevent MRL exceedance.

CHAPTER 2

PACKAGING, MARKING AND LABELLING

2.1 TRACEABILITY AND TRACKING

Traceability refers to the ability to trace all fresh produce in the value chain back to the farm it originated from FBO codes, pallet identification numbers, container numbers, amongst others, assist with tracking fruit through the value chain and to ensure that fresh produce can be traced back to the place where it originated from. A good traceability system links a food safety problem to a specific country, pack house, producer orchard or vineyard. This is important for a number of reasons:

- A problem can be linked to one specific producer rather than a whole group.
- It is a fast and accurate way to get to the source of the problem, which limits risks relating to health and diseases.
- It limits unnecessary costs.
- It limits public concerns and fears.

In South Africa all export cartons must carry certain markings on the packaging of fresh produce, which is used to provide the consumer with accurate and relevant information on the product, including information on where it was grown. Markings on the carton must, among others, include the following:

- Produce of South Africa.
- Class of the product, for example Class 1.
- The name and address of the exporter and/or pack house.
- The Producer Unit Code (PUC), now called the Food Business Operator (FBO) code, which is registered with the Dept. of Agriculture, Land Reform & Rural Development.
- The product type.
- The variety.
- The count (or size) of the product.

2.2 FRESH PRODUCE SUPPLY CHAIN SOFTWARE

Export agents require software programmes to manage the tracking and traceability of fruit in the value chain and other operational processes such as managing stock and producer payments. There are a number of service providers in the industry who provide suitable software systems such as *Dipar*, *Farsoft* and *Prophet*.

2.3 WOOD PACKAGING / PALLETS

Wood packaging material is regulated in international trade to reduce the risk of introduction and/or spread of the associated quarantine pests. All regulated wood packaging material (e.g. wooden pallets) must be debarked, heat treated and bears the relevant IPPC mark to indicate that it complies with ISPM 15. The IPPC mark should be legible, permanent and not transferable, placed in a visible location, preferably on at least two opposite sides of the pallet.

2.4 MARKING AND LABELLING

There are certain requirements that producers or exporters have to fulfil on their marking and labelling for the various markets (special markets including the EU). For instance, the following information must be on the business end of each carton: PUC and PHC of the relevant facility approved and registered with the Dept. of Agriculture, Land Reform & Rural Development, as well as a date code. Each market has its own different marking and labelling requirements, which may change from time to time. To view the latest information visit the departmental website using the following links:

⇒ www.dalrrd.gov.za

⇒ Branches

⇒ Economic Development, Trade & Marketing

⇒ International Trade

⇒ Trade Agreements

Currently, for example, the following information must be on the business end of every carton of fresh fruit destined for China in terms of the relevant protocols 本产品输往中华人民共和国 (for the People's Republic of China) with the following in English: Place of production, the name or registered number of the vineyard, pack house and storage facility.

CHAPTER 3

PRIVATE QUALITY, FOOD SAFETY, SOCIAL AND ENVIRONMENTAL STANDARDS

In addition to the statutory (minimum) standards prescribed by the APS Act, the various statutory SPS requirements and SA GAP, there are also private, commercial and retailer standards. These standards are set by global organisations or individual retailers. Farmers and pack houses can subscribe on a voluntary basis to these standards (e.g. GLOBALG.A.P.). Thus, growers and packers of fresh produce destined for many first world markets are continually subjected to proliferating and ever changing standards relating to food safety, good agricultural and environmental practices and social accountability. Despite several attempts from retailer groups to standardise one set of requirements, in many instances individual retailers continue to demand their own standards in addition to broader standards. This has a significant impact on small and especially new and developing growers, as they often lack the infrastructure to manage the multitude of requirements and are therefore compelled to limit their trade to customers with less stringent requirements.

To demonstrate proof of compliance with their specific quality standards, the relevant retailers require that their producers or suppliers be audited by third-party certification bodies. These audits are usually paid for by the grower. Therefore, the producer must analyse the costs involved in meeting the quality standards of the different market segments available to him/her, and determine the benefits of supplying that market segment. Such a cost-benefit analysis will help the producer to decide on the overall marketing strategy of his/her enterprise.

Certification can broadly be grouped into four main categories as follows; agricultural, packhouse, social and environmental Standards. However, note that many of these standards cover cross cutting issues, for example, GLOBALG.A.P. includes an element of environmental sustainability.

The following table provides an overview of some of the standards required by export customers:

Agricultural	Packhouse	Social	Environmental
GLOBALG.A.P.	BRCGS (formerly BRC)*	SIZA Social Standard	SIZA Environmental Standard
Tesco Nurture	IFS Food Standard*	SMETA / SEDEX	
LEAF (Waitrose)	*Based on HACCP principals	Ethical Trading Initiative (ETI)	
Field to Fork (M&S)	ISO 22000	SA 8000	
Albert Heijn Protocol		Fair Trade	
Filières Qualité (Carrefour)			

Further to the above agricultural standards, compliance for organic produce requires the following country specific certification:

- Soil Association (especially relevant in the UK);
- Naturland (Germany);
- BioSuisse (Switzerland).

3.1 RETAILER, INDUSTRY AND PRIVATE STANDARDS

3.1.1 GLOBALG.A.P.

GLOBALG.A.P. is the most widely accepted standard at farm level, to the extent that it has almost become a non-negotiable for any fresh produce farmer who wishes to be export ready.

GLOBALG.A.P. (formerly EUREPG.A.P.), comprises three categories of control points based on different required levels of compliance designed to promote and monitor Good Agricultural Practices (G.A.P.). These are the Major Musts (100% compliance required), Minor Musts (95% compliance) and Shoulds (recommendation level). The Major and Minor Musts constitute most of the food safety issues at the production sites with strong emphasis on the regulation of G.A.P. in the application of agricultural chemicals. Food producers are required to demonstrate their commitment to:

- Maintaining confidence in food quality and safety
- Minimising any detrimental impact on the environment, while conserving nature and wildlife
- Reducing the use of agrochemicals through the adoption of Integrated Production Systems
- Improving efficiency of use of natural resources such as soil, water, air and energy
- Ensuring a responsible attitude to worker health and safety, welfare and training

To receive and retain a GLOBALG.A.P. certificate, third-party verification by a certification body is required every twelve months. Verification is done by on-site audits. These audits usually take four to six hours.

In addition to the implementation of numerous standard operating procedures and implementing record keeping to prove that procedures have been followed, GLOBALG.A.P. requires that farm infrastructure, such as chemical store rooms, fuel storage tanks and staff toilets meet the minimum requirements. This often requires capital expenditure to upgrade infrastructure.

3.1.2 Retail G.A.P. Standards

Many retailers such as Tesco, Waitrose, M&S, Albert Heijn have their own G.A.P standards, which suppliers need to comply with (refer to the table above under the Chapter 3 Introduction). These generally have a large degree of overlap with the GLOBALG.A.P requirements, together with a number of additional requirements.

3.1.3 Packhouse Standards

The main focus of packhouse standards is to ensure food safety. Similar to G.A.P's, they require that packhouses meet the minimum infrastructural requirements (eg screens over light fittings, insect proofing, suitable hand wash facilities etc) and the implementation and monitoring of food safety protocols. The two most commonly required packhouse standards mentioned below (BRSGS and IFS), are based on Hazard Analysis Critical Control Points (HACCP) principals, which essentially entail the identification of all possible food safety risks in the process and putting proactive measures in place to prevent the occurrence of events which compromise food safety. These standards are therefore designed to be proactive rather than reactive.

Most retailers in the UK require BRCS certification (formerly called the BRC standard). The BRC standard was initially developed by the British Retail Consortium in 1996, by retailers who wanted to harmonise food safety standards across the supply chain. In 2016 the standard was purchased by the LGC Group, after which it was renamed the BRC Global Standard (BRCS).

The IFS Food Standard is required by a number of retailers on the European continent, particularly in Germany. Similar to BRCS, food safety is a key focus of the standard, which also has a proactive approach to food safety risks.

3.1.4 SIZA Social Standard

The SIZA improvement process has been designed to ensure ethical trade compliance from all suppliers in South-Africa. The goal is to have a commitment to continuous improvement of labour and environmental conditions on all farms in a practical and comprehensive manner, which has the potential to benefit businesses and positively impact employees. The SIZA Social Standard is built on the following 8 principles:

- Commitment to implementing Management Systems
- No forced and Bonded Labour
- No Child Labour
- Freedom of Association & Collective Bargaining
- No Discrimination, Harassment & Abuse
- Health & Safety
- Working Hours
- Wages, Benefits & Terms of Employment

The SIZA standard was an initiative launched collaboratively by the South African fruit commodity organisations. A key goal of the initiative, which it has achieved, was to gain broad support for the standard from international retailers to avoid the need for compliance with multiple different retailer social standards.

3.1.5 3.5. SIZA Environmental Standard

Although compliance with specific environmental standards is not commonly required by most international retailers, there is increasing pressure from retailers for suppliers to reduce the environmental impact of their supply chains. Consequently, it is possible that retailers may start to require environmental certification in future.

SIZA has developed an environmental standard available to South African fruit producers, which provides a valuable tool for proactive producers who wish to reduce their environmental impact.

The SIZA Environmental Assurance model has been designed to assist growers in evaluating their current compliance and environmental risks, both at a farm and regional/catchment level. This process is accomplished through the completion of a Self-Assessment Questionnaire (SAQ), the results of which feed into a risk profile report, which can be used to address market requirements, whilst also informing the drafting of site-specific improvement plans and farm environmental management plan and monitoring system. The questions included in the self-assessment questionnaire runs from minimum legal requirements to leading practice across four main topics such as:

- Water
- Soil
- Energy, materials & waste; and
- Farm ecosystems & biodiversity

CHAPTER 4

SHIPPING AND LOGISTICS

4.1 4.1. SHIPPING: REEFER CONTAINERS VS CONVENTIONAL REEFER VESSELS

Since deregulation in 1997 a number of significant changes have taken place regarding the operation of the supply chain. Today's chain is technically advanced, market-driven, flexible, customer-focused and owner-controlled and provides door-to-door services. With this come advantages such as customisation, competition, choice and accountability.

The pattern of shipping mode usage has also shifted in keeping with worldwide trends. On a global basis, it is expected that the use of containers will continue to increase. Today over 90% of fruit exported from South Africa is exported in reefer containers with less than 10% shipped in reefer vessels.

Note that the industry uses the informal word "reefer" to denote refrigerated. Confusion arises when, for example, the phrases "reefer container" and "reefer vessel" are used. This is because the former refer to the container shipping industry while the latter refers to the conventional shipping industry – yet both have the word reefer in them. Reefer vessel means conventional vessel, whilst a reefer container is a refrigerated container.

4.2 CONTAINER SHIPPING

The expansion of the global container-shipping industry is a result of intense, inter-container liner competition, with governments subsidising their shipping and ship-building industries, the entrance of new, low-cost Asian shipping lines and the ease with which containers are able to be transhipped from one mode of transport to another.

International shipping is moving away from the traditional port-to-port services towards door-to-door solutions. The severe competition between container shipping lines has forced ship owners to adopt innovative, productivity enhancing and cost-cutting measures which include:

- Using larger vessels
- Participating in strategic alliances and mergers
- Reducing the number of port calls thus increasing the volume of transshipment cargo
- Developing a network of feeder services linking hub and regional ports
- Developing new types of shipping services

4.3 CONVENTIONAL SHIPPING

The fundamental reason for the decline in the conventional shipping sector is the fact that no new conventional vessels have been built in the sector in recent years. Also, existing fleets are ageing and older reefer vessels are being scrapped. Factors that favour conventional shipping include:

- (a) The combined shipping of cargo below deck and containers on deck
- (b) Self-contained vessels which have built-in cranes on the ship's deck, making them independent of shore crane equipment
- (c) Capacity to sail at high speed
- (d) Flexibility in terms of ports of loading and discharge (Transit times to certain markets on a conventional vessel are shorter than with the container lines, and cold sterilisation techniques used in conventional ships are more reliable than in container ships. In addition, break bulk ship loading can continue in high winds while container loading has to stop at a certain wind speed for safety reasons. Currently there is also the question of whether the container industry can manage the entire fruit export crop with the infrastructural limitations being experienced – particularly in the ports and including the shortage of container boxes to meet the rising demand.)
- (e) The general tendency to move smaller volumes of export products in containers, while larger volumes are moved in break bulk fashion (However, the mode of shipping employed also depends on the market being served and the exporter involved.)

4.4 AIRFREIGHT

Airfreight of fresh produce is expensive and has a high carbon footprint, however it is commonly used in two instances:

- For highly perishable products such as berries which have insufficient shelf life for long seafreight transit times (although many blueberry varieties now have a long enough shelf life for seafreight).
- In some instances when there is a shortage of product on the shelves, some retailers may ask for product to be airfreighted to keep the shelves stocked until seafreight product arrives.

4.5 THE ROLE OF LOGISTICS AGENTS

Logistics agents perform a number of key functions within the industry as service providers to fresh produce exporters. Larger exporters may fulfil a number of the logistics functions in house, while smaller exporters generally outsource the majority of the logistics functions. Logistics agents provide the following services amongst others:

- Pre-season booking of shipping volumes with shipping lines and negotiation of shipping rates and rebates

- Provide or broker road freight services for the transfer of fruit from one cold store to another and for the transport of containers to ports
- Co-ordination of road freight transfers including booking and collection of empty containers and co-ordination of loading at coldstores
- In season update of shipping volumes with shipping lines and container booking on vessels
- Co-ordination of port services and payment of cargo dues, plug in fees etc
- Logistics documentation, customs clearance and forwarding

4.6 DOCUMENTATION

Exporting requires an enormous amount of thought and attention to detail, especially documentation. If documents are missing or wrongly completed, the transaction the step-by-step flow of export documents. Some of the documents are the responsibility of the export agent, some the logistics agent and some the shipping line but all play a vital role in the export process:

- Export Certificate
- Export Addendum
- Phytosanitary Certificate
- Customs Invoice
- Loading Instruction
- Export Notification Q67
- Booking Confirmation
- Certificate of Origin
- Customs Declaration
- SARS SAD500, SAD507
- Cargo Dues Order
- Packing List
- Sea Waybill

CHAPTER 5

TRADING TERMS / INCOTERMS®, PRICING, CLAIMS AND AGREEMENTS

5.1 TRADING TERMS / INCOTERMS®

Incoterms® are standard trade definitions most commonly used in international sales contracts. Incoterms® are the terms of sale as agreed upon by the seller and buyer to facilitate the handing over of a consignment and to specify who is responsible for transportation costs up to a designated point and where the transfer of risk from one party to the other takes place. All Incoterms® are referred to by the recognised three-letter codes and mention the names and place of delivery. Visit www.iccwbo.org for more information on Incoterms®.

The Incoterms® you are most likely to use:

eXW	Ex works
FoB	Free on board
CIF	Cost insurance and freight
CPt	Carriage paid to
DDU	Delivered duty unpaid

The Incoterms® are grouped into four categories:

- The first, **E-group**, has only one trade term: Ex Works (EXW).
- The second, **F-group**, indicates the obligation of the seller to hand over the goods to a carrier free of risk and expenses to the buyer.
- The third, **C-group**, includes terms that indicate the seller's obligation to bear certain costs after main carriage, which is a critical point in the sales contract: the obligation to bear risks and costs change from one party to the other.
- The fourth, **D-group**, includes terms that prescribe that the goods must have arrived at a specified destination.

Group E: Departure

eXW ex Works

When goods are made available to the buyer at the seller's premises for collection with minimum obligation to the seller for transporting the goods to the buyer. At this point, the responsibility of risk is transferred to the buyer, who is obligated to clear the goods for export and pay all costs involved for transportation, including insurance if required.

Group F: Main carriage unpaid

FCA Free Carrier

The seller arranges delivery of the goods cleared for export to the appointed carrier as nominated by the buyer and is responsible for the risk and costs up to the named point of handover.

FAs Free Alongside ship

The seller delivers the goods alongside the vessel at the named port of shipment as nominated by the buyer. The buyer will be responsible for all costs and risk from point onwards.

FoB Free on Board

The seller is responsible for the clearing and delivering the goods for export on board the vessel to the nominated port of exit. Once the goods have passed over the ship's rail at the port of loading the risk is then transferred to the buyer.

Group C: Main carriage paid

CFR Cost and Freight

The seller is responsible for the cost and freight charges for delivering the goods to the named port of destination and bears all risks up to this point.

CIF Cost, Insurance and Freight

The seller is responsible for costs, insurance and freight charges for delivering the goods to the named port of destination and bears all the risks.

CPt Carriage Paid to

The seller undertakes to deliver the goods to their appointed carrier to the named port of destination at the seller's expense. The responsibility of risk is then passed onto the first carrier up to the named place of delivery and the cost of the goods are borne by the seller until they arrive at the named place up to where carriage has been paid.

CIP Carriage and Insurance Paid to

The seller undertakes to deliver the goods to their appointed carrier to the named port of destination, including insurance at the seller's expense. The responsibility of risk is then passed onto the first carrier up to the named place of delivery and the cost of the goods is borne by the seller until they arrive at the named place up to where carriage has been paid.

Group D: Arrival**DAF Delivered at Frontier**

The seller clears and places the goods for export at the buyer's disposal, unloaded at the named place of destination and bears all risks for transportation up to this point.

Des Delivered ex ship

The seller delivers and places the goods at the buyer's disposal, not cleared for imports at the named place of destination and bears the risk until they arrive at the named place of destination.

DeQ Delivered ex Quay

The seller delivers and places the goods at the buyer's disposal, not cleared for import on the quay side (wharf) at the named place of destination. At this point the responsibility of risk is on the buyer.

DDU Delivered Duty Unpaid

The seller undertakes to deliver the goods to the buyer's premises unloaded at the place of final destination, and bears all costs excluding any applicable duty and taxes.

DDP Delivered Duty Free

The seller undertakes to deliver the goods to the buyer's premises unloaded at the place of final destination and bears all costs including any applicable duty and taxes.

5.2 PRICING

There are three types of pricing arrangements commonly used by South African fresh produce exporters, both with growers and export customers:

- **Consignment**

In the case of consignment transactions, the foreign buyer does not commit to a price prior to shipment of the produce, nor does the exporter in turn commit to a price to the grower. After the foreign buyer has concluded the sale of the produce, they send the exporter an account sale detailing the sales price less all costs incurred by the buyer and the net payment due to the exporter. The exporter then in turn deducts all costs incurred including their commission and sends an account sale to the grower detailing the sales return, costs and the growers net return. Exporters must be transparent with growers regarding their commission and all deductions. Exporters commission is often around 8% of FOB value.

- **Fixed Price**

In the case of a fixed price transaction, the exporter agrees a fixed price in advance with the foreign buyer (either prior to the season or for each week or shipment) and will often also agree a fixed price with the grower. Fixed price transactions are becoming much more common than in the past where consignment business was the norm. It is important that all fixed price transactions are agreed in writing.

- **Minimum Guarantee Price (MGP)**

In the case of a MGP, the foreign buyer will commit to a minimum price and in some cases, any amount achieved in the market above the MGP will be shared equally between the exporter and the buyer.

5.3 CLAIMS

Due to the perishable nature of fresh produce, quality issues on arrival are commonplace. Upon arrival foreign buyers conduct an arrival quality inspection and based on the extent of the quality problems may institute a claim reducing the amount paid for the shipment or in some cases they may even reject the shipment.

If the result of the quality issue is a latent defect which originated on the farm but was not visible at the time of packing, the grower is normally responsible for the losses resulting from a claim. If the quality claim resulted from a problem during the logistics chain after the produce left the packhouse, such as a temperature problem in a container, the exporter is responsible to carry the losses resulting from the claim.

5.4 AGENCY AGREEMENTS

It is important that exporters conclude written agency agreements with growers covering key aspects such as commission, risk transfer, payment terms, delivery terms etc. This serves to clarify the expectations for both parties and to protect both the producer and exporter in the case of a disagreement.

CHAPTER 6

EXPORT COST BREAKDOWN

6.1 COST BREAKDOWN EXAMPLE OF A SPECIFIC SHIPMENT

It is vital for exporters to understand all the cost elements associated with each customer, market and Incoterm® combination in order to calculate and negotiate competitive prices in relation to alternative market options and to maximise returns to growers.

The example below illustrates the costs and returns for a 12.5 kg carton of apples shipped to a European retailer to serve as an example of what a typical export cost chain looks like. All costs are illustrated per 12.5 kg carton.

From the example it can be seen that the consumer paid an equivalent price of R342 for 12.5 kg's of apples. The biggest cost in the value chain in this example is the retailer margin at 28% of the retail price. Retailers typically take a margin on the retail sales price of between 20 – 35%, with premium retailers taking a higher margin than “discounters”. After all the costs have been deducted as detailed in the illustration the grower received R94 per carton, which is 27% of the retail sales price.

It is important to remember that each player in the value chain offers a service for the cost incurred. It is therefore not possible to remove a player in the value chain without replacing the service they provide. It is the exporters responsibility where possible to select service providers who offer good value for money. It is a highly competitive industry with relatively low margins and there is therefore little room for value chain players who do not offer value for money services.

FRUIT EXPORT COST CHAIN : POME FRUIT TO EU - 12.5 KG CARTON			
DESCRIPTION	PERCENTAGE	CURRENCY	RAND VALUE
Retail selling price	100,00%	EUR	342.00
Retail margin	28,41%	EUR	97.18
Europe transport	2,12%	EUR	7.25
Free on Truck (FOT) value	69,47%	EUR	237.58
Less costs	11,34%		38.79
Importer's commission (7% FOT)	4,86%	EUR	16.62
Europe logistics	6,48%	EUR	22.16
Cost insurance freight (CIF) value	58,13%		198.79
Less costs	9,36%		32.02
Freight	8,99%	USD	30.75
Insurance	0,37%	USD	1.28
Free on board (FoB) value	48,76%		166.67
Less costs	5,24%		17.91
Exporters commission	3,90%	ZAR	13.34
Port cost	1,13%	ZAR	3.85
Wharfage – conventional	0,21%	ZAR	0.72
Delivered in port (DIP) value	43,52%	ZAR	148.85
Less costs	2,07%	ZAR	7.09
Transport to port	1,06%	ZAR	3.63
Finance charges & interest advances	0,50%	ZAR	1.70
SPT levies	0,29%	ZAR	1.00
PPECB / Inspections	0,22%	ZAR	0.75
Ex pack house (Ex-works) value	41,45%		141.77
Less costs	13,84%		47.34
Packing materials	7,55%	ZAR	25.82
Packing charges (tipping cost)	6,29%	ZAR	21.52
Back to Farm	27,61%		94.43

6.2 INSURANCE

Insurance provides an important risk management tool for exporters and it is important that exporters take out the necessary insurance to protect themselves and producers. The following insurance is vital:

- Marine Insurance: covers cargo losses (for example breakdown of refrigeration units on containers) or damage caused to ships
- Credit Guarantee Insurance*: Covers exporters resulting from loss if a foreign buyer does not pay for goods.

Note: In some instances it is not possible to get credit guarantee insurance in high risk markets, in which case it is highly recommended to require that customers pay a percentage of the shipment value in advance.

*The Export Credit Insurance Corporation Ltd (ECIC) is an independent, limited liability company with the government of South Africa, through the dtic, as the sole shareholder. The principal objective of the corporation is to facilitate and encourage South African export trade by underwriting bank loans and investments outside the country, in order to enable foreign buyers to purchase capital goods and services from the Republic. To achieve this objective, the corporation evaluates export credit and foreign investment risks and provides export credit and foreign investment insurance cover on behalf of the government.

In terms of the Export Credit Agreement concluded between the government and the ECIC, the corporation was mandated by government to enter into contracts of insurance with or for the benefit of persons carrying on business in South Africa in the course of trade with countries outside South Africa, primarily for medium-term and long-term export credit and investment insurance.

To meet its obligations in terms of the Export Credit Agreement in a responsible manner, the corporation performs the following functions:

- It formulates an export credit underwriting policy.
- It evaluates potential projects.
- It establishes rationale for support.
- It assesses export credit risk.
- It structures securities to mitigate risk.
- It sets country and sector credit limits.
- It manages and diversifies the export credit risk portfolio.

For more information visit www.thedtic.gov.za

CHAPTER 7

INDUSTRY ASSOCIATIONS

The South African fresh produce export sector is represented by a number of industry/commodity associations. In all cases except for the FPEF, they are statutory bodies with statutory levies. FPEF membership is voluntary, however the FPEF has over 140 members representing over 90% of the fresh produce exported from South Africa. All the commodity organisations fall under the umbrella organisation Fruit South Africa. The structure is illustrated below.



The purpose of the commodity organisations is to represent their members in areas of common interest such as transformation, gathering and dissemination of industry information (technical, phytosanitary, legislative, markets etc), research, market access, market development, statutory compliance and industry collaboration with local and national government.

The following table summarises the crops covered by each industry organisation together with contact details:

ASSOCIATION	CROPS / MANDATE	TEL	EMAIL & WEB ADDRESS
Fruit South Africa	Umbrella organisation	+27 12 433 6402	ceo@fruitsa.co.za www.fruitsa.co.za
Fresh Produce Exporters' Forum (FPEF)	Exporters – all produce	+27 21 526 0474	info@fpef.co.za www.fpef.co.za
Agricultural Produce Agents' Council (APAC)	Agents' Council – all produce	+27 11 894 3680	lizel@apacweb.org.za www.apacweb.org.za
Citrus Growers' Association of Southern Africa (CGA)	Citrus	+27 31 765 2514	info@cga.co.za www.cga.co.za
African Table Grape Industry (SATI)	Table grapes	+27 21 872 1438	info@satgi.co.za www.satgi.co.za
Hortgro	Apples, pears, stone fruit	+27 21 870 2900	info@hortgro.co.za www.hortgro.co.za
Subtrop	Avocados, mangoes, litchis	+27 15 307 3676	info@subtrop.co.za www.subtrop.co.za
Berries ZA	Blueberries, raspberries, blackberries, strawberries	+27 82 411 0500	elzette@berriesza.co.za www.berriesza.co.za

CHAPTER 8

TRAINING AND PROVINCIAL SUPPORT AGENCIES

8.1 FRESH PRODUCE EXPORTERS' FORUM (FPEF)

The FPEF provides training on the entire fresh produce export value chain from field to fork through its Top of the Class training programme. For more information contact:

Tel: +27 21 526 0474
www.fpef.co.za

8.2 PROVINCIAL INVESTMENT PROMOTION AGENCIES (PIPAS)

Eastern Cape

Tel: +27 43 704 5600
 Eastern Cape Development Corporation
www.ecdc.co.za

Free State

Tel: +27 51 400 0802
 Free State Development Corporation
www.fdc.co.za

Gauteng

Tel: +27 11 883 8750
 Gauteng Growth and Development Agency
www.ggda.co.za

KwaZulu-Natal

Tel: +27 31 368 9600/7050
 Trade and Investment KwaZulu-Natal
www.tikzn.co.za

Limpopo

Tel: +27 15 295 5171
 Limpopo Economic Development Agency (LEDA)
www.Lieda.co.za

Mpumalanga

Tel: +27 13 752 6413
 Mpumalanga Economic Growth Agency
www.mega.gov.za

North West

Tel: +27 18 381 3663/4/5
 North West Development Corporation
www.nwdc.co.za

Western Cape

Tel: +27 21 487 8600
 Wesgro (Western Cape Investment and Trade Promotion Agency)
www.wesgro.co.za

8.3 ADDITIONAL RESOURCES

For more information on private training institutions visit www.exporthelp.co.za

CHAPTER 9

EXPORT MARKET ACCESS FOR EMERGING FARMERS

There are two key factors that farmers need to take into consideration when considering export market access, the first is their state of **export readiness** and the second is considering the **risk and cost against the reward**.

9.1 EXPORT READINESS

The following factors need to be taken into consideration when a farmer evaluates whether they are export ready:

- **GLOBALG.A.P. Certification**
Many export markets require GLOBALG.A.P. certification and as a result it is often a minimum requirement with respect to export readiness (refer to chapter 3). GLOBALG.A.P. certification will ensure that all the important food safety protocols are in place such as spray programmes with registered chemicals, spray records, correct harvest intervals and hygiene practices. Further to this it will ensure that adequate worker safety measures are in place and that key environmental factors are taken into consideration in keeping with the requirements of export markets.
- **Variety selection and quality**
Growers need to ascertain whether they have the right varieties in terms of export market demand and they need to produce fruit of a quality suitable for export markets in terms of attributes such as size, colour, blemishes and pest and disease infestation.
- **Access to a suitable export ready packhouse**
Growers need to have access to a packhouse which can pack their fruit to the required export standards and compliance requirements.
- **Economies of scale**
It is often not practical and viable for small scale farmers to produce fruit for export markets due to insufficient economies of scale. Factors which play a role in this regard are the additional cost of implementing the measures required to become GLOBALG.A.P. compliant and the necessity of traceability, which requires that each batch of fruit be run separately over a packline, which is not cost effective and practical for small batches. In some instances it may however be possible for small scale growers to aggregate their fruit and/or production units with growers in their vicinity to improve economies of scale.

9.2 RISK AND COST VERSUS REWARD

In most instances, if growers have fruit varieties which are sought after by export markets and the fruit is of a suitable quality for export markets, the grower will achieve a better return in the export market than the local market. However, the risks relating to exports are far greater than the local market, particularly for fruit of marginal quality, as quality problems often develop in transit during the long seafreight voyage. In such instances, when quality issues are related to inherent fruit quality defects, the grower is liable for any customer claims, which in some instance can even lead to negative returns when the net return is lower than the export shipping and associated costs.

Further to this, as highlighted above under 8.4 for smaller farms the cost of becoming export compliant may exceed the benefit of higher prices achieved in export markets.

Finally, growers need to take into consideration the cashflow implication for the farm as export markets have much longer payment terms, often up to 90 days, whilst local market payment terms are often shorter than 14 days.

9.3 PREPARATION FOR EXPORT READINESS

All the primary producer organisations listed under chapter 7, have support structures to support emerging farmers in becoming export ready. Producers who wish to receive support to become export ready can use the table in chapter 7 to contact the relevant commodity organisation for the product/s they grow. Note that two of the commodity organisations have entities within their structure established specifically to support emerging farmers. These are:

- **CGA** - Citrus Growers Association Grower Development Company (CGA-GDC) <http://cga-gdc.org.za/contact-us>
- **Hortgro** - Deciduous Fruit Development Chamber (DFDC) enquiries@dfdcsa.org.za

9.4 ACCESSING EXPORT MARKETS

Most commercial growers make use of export marketing agents to access export markets rather than exporting on their own directly due to the complexity, cost, and risks associated with export marketing. Further to this it is difficult without adequate economies of scale to export cost effectively and gain access to many markets which require length of season and a comprehensive range of products and varieties.

If you are an export ready grower and wish to access export markets, the FPEF can put you in touch with their members, who can provide export market agency services with market related returns.

CHAPTER 10

FINANCE

10.1 BANKS

Obtaining finance or resources for your exports

One of the most common ways of financing exports is by obtaining credit from commercial banks (much like you would finance your domestic activities). This tends to be a traditional source of finance. This credit may be in the form of an overdraft that you negotiate with the bank or it may be a loan for a specific project, although the banks prefer not to finance individual orders as they prefer to establish an ongoing business relationship with customers. Another common finance instrument used in the fresh produce export sector is pre-shipment finance, which is a short term loan whereby the produce itself is used as security.

Banks are the key source of export finance around the world. Banks are not reluctant to provide financing. Indeed, providing financing or credit is one of the main ways for them to earn income. At the same time, banks do not want to simply throw their money away and so they take great care in considering and analysing the requests for financing that they receive from prospective exporters. In so doing they take many factors into consideration.

Why do you need finance?

When your export plan is in place and you are ready to start, perhaps the first step on the road of exports is to give consideration to how you will finance your exports. Exporting is a complicated and expensive process. It requires time, considerable planning, extensive research (much of it overseas), highly skilled staff, product adaptations, international travel, expensive international promotions and management involvement. At the same time, your prices (and margins) are often keener in export markets and your payment terms may mean that you only get paid in 30, 60, 90 or 120 days. Together, this translates into high expenses and slow income. Cash-flow is often a major problem facing the smaller exporter.

When do you need finance?

You will need financing almost from the moment you decide to get into exports. These financing requirements can be divided into four parts (the first three are the pre-contract phases, while the last stage is the post-contract phase):

- (a) Financing to do some research on the internet and spend some time with your planning and cost and benefit analysis. Your expenses are related more to the time you need to put into the planning and preparation process than to actual outlays on travel, research and promotion. You should be able to cover these financing outlays yourself.
- (b) Financing to help you with your export marketing research efforts. This is the stage where you may take a lot of time and effort to select your target countries and gain a better understanding of the target market you wish to enter. Your expenses will probably be related to a fairly extensive desk-research effort (which may involve buying various trade magazines, directories, newspapers and other sources of information), as well as at least one visit to the target market where you may spend a week or more researching the market from within, speaking to industry associations, chambers, potential buyers and, more than likely, visiting a trade fair or two. If you plan your research carefully, you may be able to achieve all of your in-market research goals in one visit. A second visit may, however, be desirable, while larger companies may want to acquire the services of professional research agencies which would push up the price considerably. It is very difficult to estimate accurately what a trip like this would cost, but a realistic estimate would be between R25 000 and R50 000 (2009) for ten days to two weeks of in-market research. At this point you may already need to consider finding financing for this research (the dtic provides assistance for smaller exporters for their in-market research efforts).
- (c) Financing to help you implement your export plan. Based on the research you have done, you will prepare an export plan. Your next step is to implement this plan – this is where you are now! This is another expensive step in the export process. It will involve promoting your products over the internet, via direct mail, through advertisements in trade magazines, taking part in one or more trade fairs and visiting potential buyers. It is highly unlikely that you will be able to achieve your objectives without visiting the market in question. Indeed, it is suggested that you will need to undertake at least two or three visits to the market before your marketing has any effect. The cost of these trips could easily amount to R25 000 per trip, with three trips costing you R75 000 or more. If you add to this the advertising you have done, then it is not unrealistic to consider spending R100 000 to R120 000 during this phase of the export process.
- (d) Financing to help you achieve your contractual obligations. Assuming that your marketing effort has paid off and you have secured a contract, your next step is to produce the goods, package and label them, ship them off to the customer, provide the agreed-upon service and wait for payment. This is perhaps the costliest part of the whole process and is very difficult to estimate. It may cost you hundreds of thousands to millions of rands. This will be the stage where your financing needs are the most acute. It is also likely that this will only take place about two years or so from starting down the road of exports and you may find that you have already spent R100 000 to R250 000 (and more) to secure the order.

10.2 SMALL ENTERPRISE DEVELOPMENT AGENCY (SEDA)

The Small Enterprise Development Agency (SEDA) is the Department of Trade and Industry's agency for supporting small business in South Africa. SEDA offers the following services:

- (a) Business registration (close corporations, cooperatives, patents)

- (b) Business planning and management
 - Business plans
 - Feasibility studies
 - Costing systems
 - Financial management – bookkeeping and accounting
 - Human resource management – policies, performance management, employee contracts
- (c) Marketing – research, planning
- (d) Facilitating access to finance
 - Submission to the banks – preparation
- (e) Assistance with access to market
 - Promotional material
 - Export assistance
 - Business-to-business facilitation
- (f) Trade exhibitions
- (g) Technology access
 - Product testing – SABS
 - Product development – CSIR, laboratories and universities
 - QMS – implementation and certification
 - Productivity improvement – layout, process flow, problem-solving techniques
- (h) SMME training
 - Basic business skills
 - Export training
 - Cooperatives training – management of cooperatives

For more information visit www.seda.org.za or call +27 12 441 1000

10.3 EXPORT INCENTIVES

Export marketing and investment assistance (EMIA) scheme

The purpose of assistance under the EMIA scheme is to give partial compensation to exporters for costs incurred in respect of activities aimed at developing export markets for South African products and services and to recruit new foreign direct investment into South Africa.

EMIA is broadly divided into two types – individual participation schemes and group schemes:

- (a) Individual Participation Incentive Schemes
 - Individual Exhibitions and In-Store Promotions
 - Primary Market Research (PMR) and Foreign Direct Investment (FDI)
 - Individual Inward-Bound Missions
- (b) Group Participation Incentive Schemes
 - Group Inward Buying Trade Missions
 - Group Inward Investment Missions
 - National Pavilions
 - Outward Selling Trade Missions and Outward Investment Missions
 - Sector-Specific Assistance

For more information visit www.thedtic.gov.za/trade_investment/emia

10.4 DEVELOPMENT FINANCE INSTITUTIONS

Khula Enterprise finance

Khula Enterprise Finance Ltd (Khula) was established in 1996 as an independent agency of the Department of Trade and Industry. As the flagship development finance institution focusing on small businesses, Khula has for more than 10 years operated as a financial facilitator for the development of the rapidly growing Small and Medium Enterprise (SME) sector of the South African economy.

For more information on Khula Enterprise Finance products call 0800 11 88 15 or visit www.khula.org.za.

South Africa Micro-Finance Apex Fund

The South Africa Micro Finance Apex fund (SAMAF) is a wholesale funding institution formally established in April 2006. Prior to its establishment the wholesale funding concept was incubated at Khula Enterprise Finance Limited. SAMAF as a trading entity is governed by the Public Finance Management Act (PFMA) of 1999 and is accountable to the executive authority of the dtic. Its mandate is to facilitate the provision of affordable access to finance by micro, small and survivalist business for the purpose of growing their income and asset base. It also has to act as a catalyst in the development of a vibrant micro-finance industry.

For more information visit www.samaf.org.za.

National Empowerment Fund (NEF)

The National Empowerment Fund Trust (NEF) will be a catalyst of Broad-Based Black Economic Empowerment in South Africa. The NEF enables, develops, promotes and implements innovative investment and transformation solutions to advance sustainable black economic participation.

The NEF was established by the National Empowerment Fund Act (Act No. 105 of 1998) for the purpose of promoting and facilitating economic equality and transformation. The NEF operates under the umbrella of the dtic. The NEF's objectives are:

- To redress the economic inequalities bequeathed by apartheid by providing historically disadvantaged persons (HDPs) with opportunities to acquire shares in both restructured state-owned assets and private business enterprises, and by encouraging a culture of savings and investment among HDPs and fostering entrepreneurship.
- To achieve its goals of sustainable empowerment and transformation by promoting and supporting business ventures pioneered and run by HDPs.
- To promote a better universal understanding of equity ownership. Each of its activities is calculated to redress the inequalities of the past, and promote a competitive and efficient economy capable of generating employment opportunities.

For more information visit www.nefcorp.co.za

Industrial Development Corporation (IDC)

The IDC is a self-financing, state-owned development finance institution whose primary objectives are to contribute to the creation of balanced sustainable economic growth in Southern Africa and to further the economic empowerment of the South African population, thereby promoting the economic prosperity of all citizens.

Established in 1940, the Industrial Development Corporation of South Africa Limited (IDC) provides financing for entrepreneurs engaged in competitive industries. Even though IDC is state-owned, it functions as a private enterprise, following normal company policy and procedures in its operations, paying income tax at corporate rates and dividends to its shareholder, while reporting on a fully consolidated basis. Core strategies:

- Maintaining financial independence.
- Providing risk capital for the widest range of industrial projects.
- Identifying and supporting opportunities not yet addressed by the market.
- Establishing local and global involvement and partnerships in projects that are rooted in or that benefit South Africa, the Southern African Development Community (SADC) and the rest of Africa.
- Investing in human capital in ways that systematically and increasingly reflect the diversity of South Africa's society.

For more information visit www.idc.co.za

Micro Agricultural Financial Institutional Scheme of South Africa (MAFISA)

For more information on this scheme contact the Director: Agriculture Development Finance at +27 12 319 7324/7295 or email dadf@dalrrd.gov.za or pa.dadf@dalrrd.co.za

Alternative Sources of Financing

For more information on alternative sources of financing visit www.exporthelp.co.za.

CHAPTER 11

EXPORT READINESS CHECKER AND OTHER RESOURCES

13.1 IS YOUR PRODUCT READY TO BE EXPORTED?

Whether or not your product is export ready is a function of the buyer's needs, your product's ability to meet those needs and how your product will shape up against international competition. Your product's exportability would also be dependent on your business's ability to export.

In order to determine export readiness, you need information on the target market, potential competitors and the buyers themselves. Your product may also raise specific questions relating to that industry. For more information on the export readiness checklist visit www.exporthelp.co.za/tools/checker and refer to the statutory requirements outlined in chapter 1 of this document.

13.2 DATABASE FREQUENTLY USED BY THE DIRECTORATE: INTERNATIONAL TRADE PROMOTIONS

World Trade Atlas

www.gtis.com/english/GtIs_WtA

(Not Free – Contact gtis or the Dept. of Agriculture, Land Reform & Rural Development for information)

The Directorate: International Trade (D: ITR) subscribes to the WTA database, which is based on SARS customs data. South African trade data are available and are based on the Harmonised System.

CHAPTER 12

EXPORT CHECKLISTS

12.1 BASIC EXPORT DOCUMENTS

Following is a list of basic export documents required by the importer – either to satisfy the country’s trade control authorities or to enable a documentary credit transaction to be implemented. Many exporters find it more convenient to control the volumes and variety of paperwork and related matters by designing a file folder that has printed on the covers the entire control procedure covering documentation, payment, shipping instructions, etc. (although paperless systems are also becoming popular). The following checklist provides for road, air and sea freight.

DOCUMENT	ROAD FREIGHT	AIR FREIGHT	SEA FREIGHT
Invitation to quote	X	X	X
Quote	X	X	X
Pro forma invoice	X	X	X
Order confirmation/acknowledgement	X	X	X
Packing list	X	X	X
Airway bill		X	
Sea waybill			X
Insurance policy (marine and credit guarantee)	X	X	X
Commercial invoice	X	X	X
Certificate of origin	X	X	X
Specification sheet	X	X	X
Export certificate and addendum	X	X	X
Phytosanitary certificate	X	X	X
Customs invoice	X	X	X
Customs Declaration: SAD500 and SAD507	X	X	X
CCA1 form	X		

12.2 CHECKLIST FOR COMMERCIAL DOCUMENTS

Packing List

An inventory document showing the net quantity of goods, number of packages, weight and total measurement.

Pro forma Invoice

This is a form of quotation by the seller to a potential buyer. It is the same as the commercial invoice except for the words “Pro Forma Invoice”.

Certified Invoice

A certified invoice may be an ordinary signed commercial invoice specifically certifying that the goods are in accordance with a specific contract or pro forma, that the goods are, or are not, of a specific country of origin and certifying any statement the buyer requires from the seller.

Commercial Invoice

The following details must appear on a commercial invoice:

- Names and addresses of buyer and seller and date
- Complete description of goods
- Unit prices where applicable and final price against shipping terms
- Terms of settlement
- Transport mark and number
- Weight and quantity of goods, and name of vessel if known and applicable.

12.3 OFFICIAL DOCUMENTS

Export Permit

An export document issued by the Dept. of Agriculture, Land Reform and Rural Development for the importation of certain commodities that must be submitted for customs clearance.

Phytosanitary Certificate

A document that shows the origin of the shipment and confirms inspection in the source country by the member of the importing country NPPO.

Customs Invoice (This is absent if the consignment is not for sale)

A commercial invoice issued by the seller to a buyer declaring such information as:

- Shipper and consignee physical address
- Description of goods
- Quantity and value of consignment
- Shipping/Incoterms®.

CCA1 Form

A formal customs document that must be completed for all products that are not documents and that are shipped within the SACU region.

Certificate of Origin

These constitute signed documents evidencing origin of the goods and are normally used by the importer's country to determine the tariff rates. They should contain the description of goods and phytosanitary inspection signature.

Customs Declaration (SAD500 and SAD507)

Documents used to SARS to control the receipt of export proceeds.

12.4 INSURANCE DOCUMENTS**Letter of Insurance**

This is usually issued by a broker to provide notice that insurance has been placed pending the production of a policy or a certificate.

Insurance Certificate

These are issued by insurance companies to embrace either open covers or floating policies.

12.5 TRANSPORT DOCUMENTS**Airway Bill**

This is a non-negotiable airline document that covers the transportation of cargo from a designated point of origin to a named final destination, whether it is an international or a domestic consignment. It states all details of cargo loaded on board an aircraft.

Sea Waybill

This is a legal contract between the owner of the consignment and the shipping line or agent to transport consignments. It states all details of cargo loaded onto a vessel.

SECTION 4

Service Provider listings	4-2
Quick Reference	4-28

SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

Producer Services
 Refrigeration & Coldstore Equip.
 Processing & Packaging Equip.
 Packaging & Post Harvest Equip.
 Logistics & Produce Processing
 Exporter/Trader or Agent
 Refrigeration & Cold Storage
 Forwarding and Clearing
 Freight Handling & Transport
 Industry Support Services

PRODUCE GROUPS



BERTIE VAN ZYL (PTY) LTD
 PO Box 19, Mooketsi 0825, RSA
 Tel: +27 (0)15 395 2040
info@zz2.co.za
www.zz2.co.za



Acired: FPEF Associate Member

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BETKO FRESH PRODUCE
 PO Box 147, Villiersdorp 6848, RSA
 Tel: +27 (0)28 840 2313
info@betko.co.za
www.betko.co.za

Acired: BRCS, FPEF Member
See pages 1-22 to 1-23 for more information

D				



BONO FARM MANAGEMENT (PTY) LTD
 PO Box 36428, Glosderry 7702, RSA
 Tel: +27 (0)21 680 5360
evans@bonoholdings.co.za
info@bonoholdings.co.za
www.bonoholdings.co.za
 Acired: FPEF Member, GLOBALG.A.P., GRASP, SIZA

C				
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CAPE FRUIT COOLERS (PTY) LTD
 PO Box 60119, Table View 7439, RSA
 Tel: +27 (0)21 521 3700
steve@cfcoolers.co.za
www.cfcoolers.co.za



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CAPESPAN SOUTH AFRICA (PTY) LTD
 PO Box 505, Bellville 7535, RSA
 Tel: +27 (0)21 917 2600
info@capespan.co.za
www.capespan.com



Acired: FPEF Member
See page 1-20 for more information

C				
D				

SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

- Package Services
- Produce
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Packing & Produce Processing
- Logistic Control & IT Services
- Export, Trade or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Field Handling & Transport
- Industry Support Services

PRODUCE GROUPS



CCS LOGISTICS
 PO Box 686, Cape Town 8000, RSA
 Tel: +27 (0)87 350 7350
info@ccslogistics.co.za
www.ccslogistics.co.za
 Accred: FSSC 22000 Certified, PPECB approved,
 HACCP Compliant
See page 1-28 for more information

C		
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CHLOGISTICS.CO.ZA

CH LOGISTICS (PTY) LTD
 PO Box 6889, Cape Town 8000, RSA
 Tel: +27 (0)21 446 2700
info@chlogistics.co.za
www.chlogistics.co.za
 Accred: EDI



CH Logistics supplies sophisticated, personalised, logistics services in the Southern African sector. Backed by over fifteen years of market presence we are excited to receive an inquiry on how we can help you.

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CITROGOLD

CITROGOLD (PTY) LTD
 PO Box 12369, Die Boord 7613, Stellenbosch, RSA
 Tel: +27 (0)21 880 0650
info@citrogold.co.za
www.citrogold.co.za
 Accred: Ciopora Member, FPEF Associate Member



As a leading variety development and management company, Citrogold offers plant breeders and owners a specialised platform for commercializing their new varieties both in South Africa and internationally. Our current product range includes citrus (oranges, lemons, mandarins, grapefruit), mango, avocado, macadamia amongst others.

See page 1-32 for more information

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CITRUS GROWERS' ASSOCIATION OF SOUTHERN AFRICA
 PO Box 461, Hillcrest 3650, RSA
 Tel: +27 (0)31 765 2514
info@cga.co.za
www.cga.co.za
See page 1-6 for more information

C		

SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

- Produce Services
- Producer
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packing & Post Harvesters
- Logistics Control & IT Services
- Export/Importer or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Freight Handling & Transport
- Industry Support Services

PRODUCE GROUPS



CONTOUR LOGISTICS (PTY) LTD
 PO Box 6092, Welgemoed 7538, RSA
 Tel: +27 (0)21 918 4900
mandy@contourlogistics.co.za
www.contourlogistics.co.za
 Accred: FPEF Associate Member, SAAFF

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CORE FRUIT (PTY) LTD
 PO Box 129, Paarl 7620, RSA
 Tel: +27 (0)21 863 6300
info@corefruit.com
www.corefruit.com
 Accred: APAC, BRCS, FPEF Member, GLOBALG.A.P., HACCP, IFS, Rainforest Alliance, SIZA

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CORRUSEAL GROUP
 PO Box 14632, Wadeville 1422, RSA
 Tel: +27 (0)11 824 8440
johann@corruseal.co.za
www.corruseal.co.za
 Accred: FPEF Associate Member
See outside back cover for more information

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DELECTA FRUIT (PTY) LTD
 PO Box 3134, Paarl 7620, RSA
 Tel: +27 (0)21 860 3999
info@delecta.co.za
www.delecta.co.za
[f](#) [in](#) [t](#)
 Accred: FPEF Member, APAC, IFS, SEDEX, SIZA

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DEPARTMENT OF AGRICULTURE, LAND REFORM & RURAL DEVELOPMENT
 Private Bag X250, Pretoria 0001, RSA
 Tel: +27 (0)12 319 6000
www.dalrrd.gov.za
[f](#) [t](#) [v](#)
See Preliminary section page V and the Step-by-step Export Manual for more information

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SERVICE PROVIDERS

- C** Citrus Fruit
- D** Deciduous Fruit
- S** Subtropical Fruit
- E** Exotic Fruit
- M** Mini Vegetables
- R** Roots & Tubers
- F** Flower/Fruit/Seed Vegetables
- L** Leaf & Stem Vegetables
- O** Other Fresh Produce

- Package Services
- Produce
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Packing & Produce Processing
- Logistic Control & IT Services
- Export, Trade & IT Services
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Field Handling & Transport
- Industry Support Services



DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

Private Bag X84, Pretoria 0001, RSA
 Tel: +27 (0)12 394 9500
www.thedtic.gov.za

C	E	F
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DURBAN FRESH PRODUCE MARKET

PO Box 464, Durban 4000, RSA
 Tel: +27 (0)31 311 5100
 Mobile: +27 (0)83 251 4046
andre.young@durban.gov.za
www.durban.gov.za (see Services)

See page 1-42 for more information

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ELE TRADING

Unit 18, Frazzitta Business Park, Langeberg Road, Durbanville, Cape Town 7550, RSA
 Tel: +27 (0)21 976 0604
 Mobile: +27 (0)82 855 9014
 Skype: Gary Britz
gary@eletrading.co.za
www.eletrading.co.za

 Accred: FPEF Member
 See page 1-16 for more information

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EMEX INTERNATIONAL

PO Box 20493, Big Bay, Cape Town 7448, RSA
 Tel: +27 (0)21 554 0522
 Mobile: +27 (0)82 771 8289 (Michael)
 Skype: michael-pretorius-rsa
sales@emexintl.com
www.emexintl.com

 Accred: FPEF Member

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D		

SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

Produce Services
 Refrigeration & Coldstore Equip.
 Processing & Packaging Equip.
 Packaging & Part Suppliers
 Pallets & Pallet Processing
 Logistic Control & IT Services
 Exporter/Importer Agent
 Refrigeration & Cold Storage
 Forwarding and Clearing
 Freight Handling & Transport
 Industry Support Services

PRODUCE GROUPS



ENERGY PARTNERS REFRIGERATION (PTY) LTD

Unit 5-6, 2 Sterling Road, Samrand Business Park, Centurion, RSA

Tel: +27 (0)10 276 0125

refrigeration@energypartners.co.za
www.energypartners.co.za

Energy Partners Refrigeration supplies consistent, clean and reliable cooling across the industrial and commercial sectors through turnkey or smart financing solutions like Cooling as a Service (CaaS).

See page 1-40 for more information

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ETHEKWINI COLD STORES

ECS1: 54/56 Jeffels Road, Prospecton, Durban 4113, KwaZulu-Natal, RSA

ECS2: 2 Sundew Road, Cornubia, Durban 4339, KwaZulu-Natal, RSA

Tel: +27 (0)31 913 1800

info@ethekwinics.co.za
www.ethekwinics.co.za



Acred: Int. Procurement & Logistics (IPL) Supply Chain Security Programme, GLOBALG.A.P. Chain of Custody Version 6.0, SA GAP, PPECB and DALRRD approved, SOLAS, EtheKwini Municipality Certificate of Acceptability for Food Premises, FPEF Associate Member

See pages 1-4 to 1-5 for more information

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EVERSEASON (PTY) LTD

PO Box 418, Citrusdal 7340, RSA

Tel: +27 (0)921 3444

stiaan@everseason.co.za
www.everseason.co.za



Acred: BRC, FPEF Member, GLOBALG.A.P., HACCP, TNC

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EXSA (PTY) LTD

PO Box 1486, Paarl 7620, RSA

Tel: +27 (0)21 914 8280

marketing@exsa.com
www.exsa.com



Acred: FPEF Member

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SERVICE PROVIDERS

- C** Citrus Fruit
- E** Exotic Fruit
- F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit
- M** Mini Vegetables
- L** Leaf & Stem Vegetables
- S** Subtropical Fruit
- R** Roots & Tubers
- O** Other Fresh Produce

- Package Services
- Pre cooler
- Refrigeration & Cooling Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Packing & Produce Processing
- Logistic Control & IT Services
- Export, Trade or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Field Handling & Transport
- Industry Support Services

PRODUCE GROUPS



**FIRST NATIONAL BANK
AGRI COMMODITIES**
 PO Box 1195, Johannesburg 2000, RSA
 Tel: +27 (0)11 649 0928
agric@fnbagricomms.co.za
www.fnbagricomms.co.za




See page 1-14 for more information

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FOODINVEST SA (PTY) LTD
 PO Box 2913, Somerset West 7129, RSA
 Tel: +27 (0)21 851 3750
info@foodinvest-sa.co.za
www.foodinvest-sa.co.za
Established in 2011, Foodinvest SA aims to build and strengthen suppliers & producer relationships in South Africa, providing financial, commercial and logistical support to South African growers, for production and distribution of their products world-wide. Foodinvest SA is a member of ATP ITALGRUP Group.

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**FRESH PRODUCE
EXPORTERS' FORUM**
 Private Bag X5, Century City 7446, RSA
 Tel: +27 (0)21 526 0474
info@fpef.co.za
www.fpef.co.za



See Preliminary section pages VIII and IX for more information

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FRESHCHAIN (PTY) LTD
 Polo Village Offices unit A4, Val de Vie Estate, Paarl 7646, RSA
 Tel: +27 (0)21 914 2180
info@freshchain.co.za
www.freshchain.co.za


C	E	F
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SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
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- Produce Services
- Producer
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Packing & Produce Processing
- Logistics, Control & IT Services
- Export/Trade or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Freight Handling & Transport
- Industry Support Services

PRODUCE GROUPS



FRESHWORLD (PTY) LTD
 PO Box 7235, Stellenbosch 7599, RSA
 Tel: +27 (0)21 808 7100
info@freshworld.co.za
www.freshworld.co.za



Acired: FPEF Member
See pages 1-18 to 1-19 for more information

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FRUIT SOUTH AFRICA
 Grain Building, Agri-hub Office Park, 477 Witherite Road, The Willows, Pretoria 0040, RSA
 Tel: +27 (0)12 007 1150
admin@fruitsa.co.za
www.fruitsa.co.za



See page 1-2 for more information

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FRUITALYST (PTY) LTD
 23 Weidenhof Street, Stellenbosch 7600, RSA
 Tel: +27 (0)21 883 9723
info@fruitalyst.com
www.fruitalyst.com

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FRUITONE
 Building A, Cotillion Place, 22 Techno Drive, Stellenbosch 7600, RSA
 Tel: +27 (0)21 883 3447
info@fruitone.com
www.fruitone.com
 Acired: FPEF Member, HACCP, GLOBALG.A.P., SIZA

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FRUITWAYS MARKETING (PTY) LTD
 Unit F8, 1st Floor, The Sanctuary, Cnr. de Beer Ave and R44, Somerset West 7130, RSA
 Tel: +27 (0)21 851 9742
marketing@fruitways.co.za
www.fruitways.co.za
 Acired: BRCS, FPEF Member, GLOBALG.A.P., SIZA

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SERVICE PROVIDERS

- C** Citrus Fruit
- E** Exotic Fruit
- F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit
- M** Mini Vegetables
- L** Leaf & Stem Vegetables
- S** Subtropical Fruit
- R** Roots & Tubers
- O** Other Fresh Produce

- Package Services
- Produce
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Packing & Produce Processing
- Logistic Control & IT Services
- Export, Trade or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Field Handling & Transport
- Industry Support Services



GAC LASER INTERNATIONAL LOGISTICS (PTY) LTD

2 Waterpas Street, Cnr Waterpas & Van Acht Street, Isando 1609, Johannesburg, RSA
 Tel: +27 (0)11 398 7600
yvonne.nagy@gaclaser.co.za
www.gaclaser.co.za

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GERBER FRESH (PTY) LTD

PO Box 1751, Halfway House 1685, RSA
 Tel: +27 (0)10 001 5222
info@gerberfresh.co.za
www.gerberfresh.co.za

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GLOBAL PACIFIC PRODUCE SOUTH AFRICA (PTY) LTD

PO Box 516, Suider Paarl 7624, RSA
 Tel: +27 (0)21 202 8080
johnnie.loubser@gpfg.com
www.globalpacificproduce.com
 Accred: FPEF Member

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GOGLOBAL GROUP

20 Sacks Circle, Sacks Circle Industrial, Bellville 7530, RSA
 Tel: +27 (0)21 912 5900
gobeyond@goglobal.group
www.goglobal.group

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Accred: FPEF Associate Member
See inside back cover for more information



GREEN MARKETING INTERNATIONAL (PTY) LTD

PO Box 516, Suider Paarl 7624, RSA
 Tel: +27 (0)21 874 1055
ryno@gmint.co.za
www.gmint.co.za
 Accred: FPEF Member

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SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

- Produce Services
- Producer
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Post Harvest
- Packing & Produce Processing
- Logistics, Control & IT Services
- Export/Trade or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Freight Handling & Transport
- Industry Support Services

PRODUCE GROUPS



GROWN4U

PO Box 403, Kirkwood 6120, RSA

Tel: +27 (0)42 230 0760

info@grown4u.co.za

www.grown4u.co.za

Acred: FPEF Member

Grown4u (Pty) Ltd is a grower-owned citrus export company situated in the heart of the Sundays River Valley. We pride ourselves in transparency and our close relationships with our producers.

See page 1-8 for more information

C			



HALLS FRESH PRODUCE

Samora Machel Drive, Mbombela 1200, RSA

Tel: +27 (0)13 753 5700

daniela@halls.co.za

ayanda@halls.co.za

www.hallsfreshproduce.com



Acred: BRC, GLOBALG.A.P., IFS Broker, SIZA, Rainforest Alliance

A socially conscious fresh produce business active across the complete fresh produce value chain with over 130 years of leadership in the industry. Included in our subtropical fruit range are avocado (as our primary product), litchi and citrus amongst others.

S			



HORTEC, A DIVISION OF MÉRIEUX NUTRISCIENCES

Unit D45, Olive Grove Industrial Estate, 5 Old Paardevlei Road, Somerset West 7130, RSA

Tel: +27 (0)21 851 1044

john@hortec.co.za

www.hortec.co.za



Acred: FPEF Associate Member, ISO 17025:2017, SANAS

Hortec is a South African company with more than 20 years' experience in the fruit industry. Hortec provides various services to the agriculture and food sectors including Fruit Maturity Services, Weather stations and iLeaf software, and Pesticide Residue Analysis. Our laboratories are accredited according to ISO 17025:2017 and provide a high-quality professional service which meets the requirements of local and export markets.

C	E		
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SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

- Package Services
- Produce
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Packing & Produce Processing
- Logistic Control & IT Services
- Export/Import of Goods
- Refrigeration & Light
- Forwarding and Clearing
- Field Handling & Transport
- Industry Support Services

PRODUCE GROUPS



HORTGRO
 PO Box 163, Paarl 7620, RSA
 Tel: +27 (0)21 870 2900
info@hortgro.co.za
www.hortgro.co.za
www.hortgro-science.co.za



See page 1-24 for more information

D		



KARPUS EXPORTS
 PO Box 899, Northlands 2116, RSA
 Tel: +27 (0)11 483 3360/1/2
 Mobile: +27 (0)82 904 9403
rema@karpussa.com
www.karpussa.com
 Accred: FPEF Member

C	E	F
D	M	L
S	R	O



KOMATI FRUIT (PTY) LTD
 PO Box 880, Malelane 1320, RSA
 Tel: +27 (0)13 007 0308
info@komatifruit.co.za
www.komatifruit.co.za
 Accred: FPEF Member

C		
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KROMCO (PTY) LTD
 PO Box 133, Grabouw 7160, RSA
 Tel: +27 (0)21 850 6700
info@kromco.co.za
www.kromco.co.za



Accred: BRCS, FPEF Member, GLOBALG.A.P., SIZA

D		



LCL LOGISTICS SOUTHERN AFRICA (PTY) LTD
 Postnet Suite 111, Private Bag X7,
 Tyger Valley 7536, RSA
 Tel: +27 (0)21 943 6760
comm.za@lcllog.com
www.lcllog.com



Accred: FPEF Associate Member, ISO 9001:2015, SAMSA, Authorised Economic Operator Certified

C	E	F
D	M	L
S	R	O

SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

Producer Services
 Producer
 Refrigeration & Coldstore Equip.
 Processing & Packaging Equip.
 Packaging & Pallet Suppliers
 Packing & Produce Processing
 Logistic, Control & IT Services
 Exporter/Trader or Agent
 Refrigeration & Cold Storage
 Forwarding and Clearing
 Freight Handling & Transport
 Industry Support Services

PRODUCE GROUPS



LONA CITRUS (PTY) LTD
 PO Box 53206, Kenilworth 7745, Cape Town, RSA
 Tel: +27 (0)21 481 8200
 Mobile: +27 (0)83 646 4455
charlm@lona.co.za
www.lona.co.za

[in](#)
 Acred: FPEF Member

C		



MAERSK SOUTH AFRICA (PTY) LTD
 8th Floor, Roggebaai Place, 4 Jetty Street,
 Foreshore, Cape Town 8001, RSA
 Tel: +27 (0)21 408 6000
Craig.McCarthy@maersk.com
www.maerskline.com

See Preliminary section pages X and XI
 for more information

C	E	
D		
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MARITIME CARRIER SHIPPING (PTY) LTD
 PO Box 3422, Cape Town 8000, RSA
 Tel: +27 (0)21 405 3400
marc.frauendorf@macship.com
www.macship.com

C	E	
D		
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MEDITERRANEAN SHIPPING COMPANY (PTY) LTD
 PO Box 10687, Marine Parade 4056, RSA
 Tel: +27 (0)31 360 7911
zane.godwin@msc.com
www.msc.com

C	E	F
D	M	L
S	R	O



NEDBANK AGRICULTURAL BUSINESS
 PO Box 1144, Johannesburg 2000, RSA
 Tel: +27 (0)10 234 9801
www.nedbank.co.za

Nedbank Business Banking's agricultural specialists create banking solutions to meet the challenges of the sector and sustainably grow your business, whether it's horticulture, animal production, field crops or part of the value chain.

See page 1-66 for more information

C	E	F
D	M	L
S	R	O

SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

Package Services
 Pre cooler
 Refrigeration & Cooling Equip.
 Processing & Packaging Equip.
 Packaging & Pallet Suppliers
 Logistic Control & IT Services
 Exporter, Trade or Agent
 Refrigeration & Cold Storage
 Forwarding and Clearing
 Field Handling & Transport
 Industry Support Services

PRODUCE GROUPS



OCEAN NETWORK EXPRESS (SA) (PTY) LTD

17th Floor, The Towers, Tower South,
2 HeerenGracht Cnr Herzog Blvd, Foreshore,
Cape Town 8001, RSA

Tel: +27 (0)21 205 2852

robyn.siebritz@one-line.com

www.one-line.com



Acired: FPEF Associate Member

See page 1-46 for more information

C	E	F
D	M	L
S	R	O



OREX EXPORT (PTY) LTD

PO Box 117, Kakamas 8870, RSA

Tel: +27 (0)54 495 0087

marthia@orexexport.co.za

www.orexexport.com

Acired: FPEF Member, GLOBALG.A.P., NOP, SIZA,
USDA Organic

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D		



PALTRACK (PTY) LTD

PO Box 6501, Welgemoed 7538, RSA

Tel: +27 (0)21 818 4200

jeanette@paltrack.co.za

www.paltrack.co.za



Acired: FPEF Associate Member, IFPA Member

C	E	F
D	M	L
S	R	O



PERISHABLE PRODUCTS EXPORT CONTROL BOARD

PO Box 15289, Panorama 7506, RSA
45 Silverboom Ave, Platteklouf, Parow

Tel: +27 (0)21 930 1134

www.ppecb.com

FPEF Associate Member

The PPECB is an independent service provider of quality certification and cold chain management services for producers and exporters of perishable food products. Established in 1926, the PPECB has delivered valuable services to the perishable products industry for 94 years by enhancing the credibility of the South African export certificate and supporting the export competitiveness of South Africa's perishable product industries. As a national public entity, the PPECB is constituted and mandated in terms of the Perishable Products Export Control Act (PPEC Act), No 9, of 1983 to perform cold chain services. The PPECB also delivers inspection and food safety services assigned by the Department of Agriculture, Forestry and Fisheries (DAFF) under the Agricultural Products Standards Act (APS), No.119 of 1990. The presence of the PPECB in the export industry is furthermore enhanced by its approval as a third country inspection authority through the EU 543/2011 standard.

C	E	F
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SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

- Produce Services
- Producer
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packing & Post Harvest
- Packing & Produce Processing
- Logistic, Control & IT Services
- Export/Trade or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Freight Handling & Transport
- Industry Support Services

PRODUCE GROUPS



POTATONET SA
 Postnet Suite 125, Private Bag X1866,
 Middelburg 1050, RSA
 Tel: +27 (0)13 243 0544
neels@potatonet.co.za
www.potatonet.co.za
ANSA is the National Seedpotato marketing channel for South Africa and supplier to neighbouring countries.

	R	



PREMIER FRUIT EXPORTS (PTY) LTD
 PO Box 751, Hillcrest 3650, RSA
 Tel: +27 (0)31 767 3875
info@pfe.co.za
www.pfe.co.za

C	E	
S	R	O



PRODUCER ALLY (PTY) LTD
 PO Box 2915, Durbanville 7551, RSA
 Tel: +27 (0)21 979 4870 (Cape Town)
 +27 (0)31 566 4196 (Durban)
 +27 (0)41 581 4040 (Port Elizabeth/Gqeberha)
info@producerally.co.za
www.producerally.co.za

C	E	F
D	M	L
S	R	O



PROPHET SYSTEMS SA
 PO Box 1824, Somerset West 7129, RSA
 Tel: +27 (0)21 852 9521
info@prophetize.co.za
www.prophetize.com

C	E	F
D	M	L
S	R	O

Acred: FPEF Member
Prophet delivers working ERP and real automation to hundreds of satisfied Fresh Produce companies. Prophet is a highly configurable software solution and we have a team of dedicated experts who understands every stage of the perishable supply chain, so we can help companies drive down cost and deliver high margins.
See page 1-16 for more information



QUANTUM FOODS
 PO Box 1183, Wellington 7655, RSA
 11 Main Road, Wellington, RSA
 Tel: +27 (0)21 864 8600
coenie.nel@quantumfoods.co.za
www.quantumfoods.co.za

		O

SERVICE PROVIDERS

- C** Citrus Fruit
- E** Exotic Fruit
- F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit
- M** Mini Vegetables
- L** Leaf & Stem Vegetables
- S** Subtropical Fruit
- R** Roots & Tubers
- O** Other Fresh Produce

- Package Services
- Pre cooler
- Refrigeration & Cooling Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Logistic Control & IT Services
- Export, Import or Light
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Field Handling & Transport
- Industry Support Services

PRODUCE GROUPS



REDFERN LONG RUN LABELS (PTY) LTD
 PO Box 403, Milnerton 7435, RSA
 Tel: +27 (0)21 552 9680
louisef@redfernlongrun.co.za
www.redfern.co.za



Acired: B-BBEE Level 4 Contrib., BRCGS, FSC, ISO 9001:2015

See inside front cover for more information

C	E	F
D	M	L
S	R	O



ROOIBOS LTD
 PO Box 64, Clanwilliam 8135, RSA
 Tel: +27 (0)27 482 2155
info@rooibosltd.co.za
www.rooibosltd.co.za



Acired: Fair Trade, FSSC 22000, Organic, Rainforest Alliance

Rooibos Ltd offers an extensive product range designed to meet the needs of clients in the food, beverage, health care and cosmetics industry. It includes Rooibos, Green Rooibos, Honeybush, herbal blends, flavoured teas and powder extracts.

		O

RSA GROUP
 PO Box 86005, City Deep 2049, RSA
 Tel: +27 (0)11 613 4391
info@rsa.co.za
www.rsa.co.za



Acired: FPEF Member, Level 5 BEE contributor

See pages 1-18 and 1-19 for more information

C	E	F
D	M	L
S	R	O



SA FRUIT PROMOTERS (PTY) LTD
 PO Box 5951, Walmer 6065, Gqeberha, RSA
 Tel: +27 (0)41 581 0886/7
info@safpro.net
www.safpro.net

C		
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SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

- Produce Services
- Producer
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Post Suppliers
- Packing & Produce Processing
- Logistics, Control & IT Services
- Export/Trade or Agent
- Refrigeration to Cold Storage
- Forwarding and Clearing
- Freight Handling & Transport
- Industry Support Services

PRODUCE GROUPS



SAFRESCO SA

Ground 1, B Block, Walmer Park Office Suites,
16th Avenue, Walmer 6001, Gqeberha, RSA

Tel: +27 (0)41 517 2000

jgreyvenstein@safrescoglobal.com
www.safrescoglobal.com



Acred: Ethical Audit, Field to Fork, Tesco

C		



SAFT HEAD OFFICE

Atlantic Drive, Atlantic Hills, Durbanville 7550, RSA

Tel: +27 (0)21 202 7440

ockert@saft.co.za
www.saft.co.za

Acred: FPEF Associate Member

See page 1-44 for more information

C	E	F
D	M	L
S	R	O



SAFT ATLANTIC

Atlantic Drive, Atlantic Hills, Durbanville 7550, RSA

Tel: +27 (0)21 202 7440

marius@saft.co.za
www.saft.co.za

Acred: SAGAP, Walmart Security Standard,
Phytosanitary Markets Approved

C	E	F
D	M	L
S	R	O



SAFT KILLARNEY

Sati Road, Killarney Gardens 7441, RSA

Tel: +27 (0)21 202 7400

ockert@saft.co.za
www.saft.co.za

Acred: SAGAP, Walmart Security Standard,
Phytosanitary Markets Approved

C	E	F
D	M	L
S	R	O



SAFT COLDHARVEST

Oosbosch Street, Daljosaphat, Paarl 7646, RSA

Tel: +27 (0)21 202 2500

deonh@saft.co.za
www.saft.co.za

Acred: SAGAP, Walmart Security Standard,
Phytosanitary Markets Approved

C	E	F
D	M	L
S	R	O

SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

Package Services
 Pre cooler
 Refrigeration & Cooling Equip.
 Processing & Packaging Equip.
 Packaging & Pallet Suppliers
 Logistic Control & IT Services
 Exporter, Trade or Agent
 Refrigeration & Cold Storage
 Forwarding and Clearing
 Freight Handling & Transport
 Industry Support Services

PRODUCE GROUPS



SAMAPRO TRADING

106 Belvedere Rd, Claremont 7708, Cape Town, RSA

Tel: +27 (0)87 822 1201

kevin@samapro.co.za

julian@samapro.co.za

www.samapro.co.za



Acired: FPEF Member

Samapro is a fresh produce exporter and importer that also specialises in the safety and freshness of produce during storage and transport by removal of volatile gases that cause the deterioration of fruit quality. Our filter products are designed to naturally treat and protect perishable produce and its atmosphere without adding or removing any components of the produce itself.

See page 1-40 for more information

C	E	
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SENSITECH SOUTHERN AFRICA (PTY) LTD

PO Box 1894, Somerset West 7129, RSA

Tel: +27 (0)21 852 5458

sensitech@iafrica.com

www.sensitech.com



See page 1-34 for more information

C	E	F
D	M	L
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SHEPSTONE & WYLIE ATTORNEYS

PO Box 305, La Lucia 4153, RSA

Tel: +27 (0)31 575 7000 (Durban)

+27 (0)21 419 6495 (Cape Town)

+27 (0)11 290 2540 (Johannesburg)

+27 (0)33 355 1780 (Pietermaritzburg)

+27 (0)35 7807250 (Richards Bay)

info@wylie.co.za

www.wylie.co.za



C	E	F
D	M	L
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SIZA: SUSTAINABILITY INITIATIVE OF SOUTH AFRICA

Beechhead, Section 5, 10 Niblick Way, Somerset West 7130, RSA

Tel: +27 (0)21 852 8184

info@siza.co.za

www.siza.co.za



See Preliminary section pages IV and XII for more information

C	E	F
D	M	L
S	R	O

SERVICE PROVIDERS

- C** Citrus Fruit
- E** Exotic Fruit
- F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit
- M** Mini Vegetables
- L** Leaf & Stem Vegetables
- S** Subtropical Fruit
- R** Roots & Tubers
- O** Other Fresh Produce

- Package Services
- Pre cooler
- Refrigeration & Cooling Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Logistic Control & IT Services
- Export, Trade & Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Flight Handling & Transport
- Industry Support Services

PRODUCE GROUPS



STANDARD BANK AGRI
 PO Box 6720, Johannesburg 2000, RSA
 Tel: +27 (0)11 721 9816
keneilweAnna.Nailana@standardbank.co.za
www.standardbank.co.za



See page 1-26 for more information

C	E	F
D	M	L
S	R	O



STAR SOUTH FRUITS
 PO Box 100, Wellington 7654, RSA
 Tel: +27 (0)21 864 3655
info@starsouth.co.za
www.starsouth.co.za
 Accred: APAC, FPIA, FPEF Member
Star South is a world class supplier of fresh produce to the South African, African and International market.



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C	E	F
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SUNKIST GLOBAL LLC
 27770 N. Entertainment Drive,
 Valencia, CA 91355-1092, USA
 Tel: +1 661 290 8791 / +27 (0)21 808 7100
www.sunkist.com



See page 1-12 for more information

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C		



SYNGENTA
 Private Bag X60, Halfway House 1685, RSA
 Tel: +27 (0)11 541 4000
christian.giesel@syngenta.com
www.syngenta.co.za



See page 1-36 for more information

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C	E	F
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SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

- Produce Services
- Producer
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Pallet Suppliers
- Packing & Produce Processing
- Logistics, Control & IT Services
- Export/Trade or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Freight Handling & Transport
- Industry Support Services



TRANSITEX SOUTH AFRICA

17 Bradford Road, Bedfordview,
Germiston 2008, RSA
1st Floor, 6A Century Square, Heron Crescent,
Century City, Cape Town 7441, RSA
Tel: +27 (0)11 387 8880
sales@transitex.co.za
capetown@transitex.co.za
www.transitex.com/en



Acired: ISO 9001:2005

Transitex is a global logistics operator specialized in door-to-door transport services and a fresh transport expert. With a network of offices, warehouses and a fleet of trucks in Africa, Transitex is capable to connect the region with the world's main markets.



TWENTE PARTNERS SOUTH AFRICA (PTY) LTD

Optima House, 279 Main Road, Walmer 6001,
Gqeberha, RSA
Tel: +27 (0)87 150 9256
contact@twentepartners.com
www.twentepartners.com



UNICHOICE PRODUCE DIRECT (PTY) LTD

Polo Village Offices unit B2, Val de Vie Estate,
Paarl 7646, RSA
Tel: +27 (0)21 914 5838
info@unichoice.co.za
www.unichoice.co.za



Acired: FPEF Member



UNIFRUTTI SA (PTY) LTD

PO Box 721, Somerset West 7129, RSA
Tel: +27 (0)21 852 8494
info@unifrutti.co.za
www.unifrutti.co.za



Acired: FPEF Member

PRODUCE GROUPS

C	E	F
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C	E	
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SERVICE PROVIDERS

- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

Produce Services
 Produce
 Refrigeration & Coldstore Equip.
 Processing & Packaging Equip.
 Packaging & Pallet Suppliers
 Palleting & Produce Processing
 Logistic Control & IT Services
 Export, Trade or Light
 Refrigeration & Cold Storage
 Forwarding and Clearing
 Field Handling & Transport
 Industry Support Services

PRODUCE GROUPS



UNITEC
 (SOUTH AFRICA FRUIT TECHNOLOGY LTD.)
 Unit 3, Zandwyk Park, Paarl 7646, RSA
 Tel: +27 (0)21 862 1974
unitecsouthafrica@unitec-group.com
www.unitec-group.com



Unitec offers innovative and patented solutions for fruit and vegetable selection and sorting.

See page 1-38 for more information

C	E	F
D	M	L
S	R	O



VAN DOORN CITRUS
 PO Box 1817, Bellville 7535, RSA
 Tel: +27 (0)21 914 8618
info@vandoornsa.co.za
www.vandoornsa.co.za



Acired: FPEF Member

C		



VANGUARD INTERNATIONAL
 PO Box 994, Somerset West 7129, RSA
 Tel: +27 (0)21 883 9811
henk.wever@vanguardteam.com
www.vanguardteam.com

Acired: FPEF Member

C	E	F
D	M	L
S	R	O



VITANOVA INTERNATIONAL cc
 PO Box 51350, V&A Waterfront 8002, RSA
 Tel: +27 (0)21 419 3051
nico@vita.co.za
simon@vita.co.za
www.vita.co.za

C	E	F
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S	R	O



VROEGOP BEMIDDELING
 2e Industriestraat 14 - 1723 LG
 Noord-Scharwoude, The Netherlands
 Tel: +31(0)22 638 2382

info@vroegop-bemiddeling.nl
www.vroegop-bemiddeling.nl

Vroegop Bemiddeling connects the farmer to a buyer in a personal manner to ensure teamwork of competent, professional people. Well understanding each other within a governance model to create a solid EBITDA.

C	E	
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SERVICE PROVIDERS

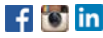
- C** Citrus Fruit **E** Exotic Fruit **F** Flower/Fruit/Seed Vegetables
- D** Deciduous Fruit **M** Mini Vegetables **L** Leaf & Stem Vegetables
- S** Subtropical Fruit **R** Roots & Tubers **O** Other Fresh Produce

- Produce Services
- Producer
- Refrigeration & Coldstore Equip.
- Processing & Packaging Equip.
- Packaging & Post Harvest
- Packing & Produce Processing
- Logistics, Control & IT Services
- Export/Importer or Agent
- Refrigeration & Cold Storage
- Forwarding and Clearing
- Freight Handling & Transport
- Industry Support Services

PRODUCE GROUPS



VRUGTEBOOM SA (PTY) LTD
 Subtropico Business Park, Route 44,
 Klapmuts, Stellenbosch 7625, RSA
 Tel: +27 (0)71 213 2410
info@vrugteboom.com
www.vrugteboom.com



C		
D		



WESTFALIA FRUIT (PTY) LTD
 PO Box 52288, Saxonwold 2132, RSA
 Tel: +27 (0)11 076 8358
info@westfaliafruit.co.za
nelenen@westfaliemarketing.co.za
www.westfaliafruit.com



Acred: BRCGS, Fairtrade, GLOBALG.A.P., HACCP, LEAF, RFA, Sedex, SIZA, SMETA

A leading multinational supplier of fresh subtropical fruit and related products, Westfalia Fruit grows, sources and ripens, packs, processes and markets sustainably-grown avocados year round. Its vertically-integrated supply chain enables Westfalia to market quality fruit from across the globe.

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S		



YUKON

YUKON INTERNATIONAL (PTY) LTD
 57 Main Road, KWV Building, Unlimited Group,
 Yukon, Paarl 7620, RSA
 Tel: +27 (0)21 860 1800
info@yukon.co.za
www.yukon.co.za



Acred: Farming for the Future, For Life, GLOBALG.A.P., LEAF, Tesco Nurture, WW IBL

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	M	L



ZEST FRUIT (PTY) LTD
 43 Mark St, Stellenbosch 7600, RSA
 Tel: +27 (0)21 888 9100
info@zestfruit.co.za
www.zestfruit.co.za
 Acred: FPEF Member



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C		
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QUICK REFERENCE

COMPANY / ORGANISATION	PAGE	COMPANY / ORGANISATION	PAGE
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