

PACKAGING UPDATE and FEEDBACK on 2020

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Volumes: (Million cartons)

- 2018 - 136,0
- 2019 - 127,5
- 2020 - Original estimate 143,3
- Packed 149,8

2020 lock down - very challenging season.

The 2020 season was a miracle.

Problems experienced:

Collapsed cartons and unstable pallet loads

- **Rough handling**
- **Palletisation protocols not followed (Securing sheets and corner pieces)**
- **Poor quality corner pieces (Dimensions)**
- **Wide range of pallets used (8)**
- **A11D cartons - Folding and gluing**
- **Transport - Loads not properly secured**
- **No end panel ventilation holes on some open display cartons**

Packaging update and feedback

Rough handling



Poor quality corner pieces



Packaging update and feedback

Wide range of pallets used



Vertical airflow on this pallet - an absolute nightmare.

Wide range of pallets used



Spacing of top deck slats. Corners not placed on wood.

A11D Cartons?? Folding/gluing and paper combinations



Transport problems: Loads not properly secured



Transport problems: Loads not properly secured



No ventilation holes on end panels. Unacceptable and rejected



Research & Development on more cost effective cartons:

- Conducted trials with A15C cartons with newly developed KP Liners and UF+ Fluting
 - Control Cartons - 175g/m² KP and 165g/m² UF
 - Experimental Cartons - 170g/m² KP and 150g/m² UF+
- Following typical values of Liners and Fluting very important:
 - Burst
 - Cobb (Liners)
 - SCT
 - Ring crush
 - Tensile
- Typical values of newly developed KP and UF+ the same or better than previous/heavier KP and UF
- Semi-commercial scale trials will be conducted in 2021

Packaging update and feedback

Trial on request: “Box on Pallet” bulk bin. Not successful.

Sideways bulging



Collapsed in pack house already



Coated corrugated paper packaging used in Australia?



**Not coated corrugated paper but extruded corrugated plastic. Unacceptable!
Very expensive, worldwide resistance against plastic, recyclability etc.**

Packaging update and feedback

Stretch Film. Request to conduct trials



Unacceptable! Negative effect on cooling, not cost effective and worldwide resistance against plastic.

Carton Accreditation System

- **Following carton manufacturers are accredited for 2021:**
 - **APL Cartons**
 - **Corruseal**
 - **Everest Packaging**
 - **Houers Koöperatief**
 - **Mpact Corrugated**
 - **New Era Packaging**
 - **Sunnypacks**
- **Grateful to report that Sappi agreed to continue with the testing of cartons during 2021 at their costs**
Sincere thanks and appreciation to Sappi.



CRI Packaging Material Specifications and Palletisation Protocols for 2021

Finalised and distributed during the 2nd week in January

We wish all our citrus growers, their staff and all the other role players a very successful 2021 season.

Thank you! Baie dankie!