



Citrus Growers Association

**WELCOME**

**City Deep Inland Container  
Loading Opportunity**








# Agenda

- RSA Citrus Volume Trends
- Durban Inland Container Loading Trends
- Production Point Volume Opportunities
- City Deep Concept
- City Deep Benefits
- Service Requirements



## Key to Graphs

-  Port loaded: loaded at port cold store facility
-  Inland loaded: loaded at farm or hinterland cold store
-  Conventional loaded: loaded in break-bulk vessel at port terminal
-  Effective port volume throughput based on port facility capacity
-  Port capacity cross roads curve

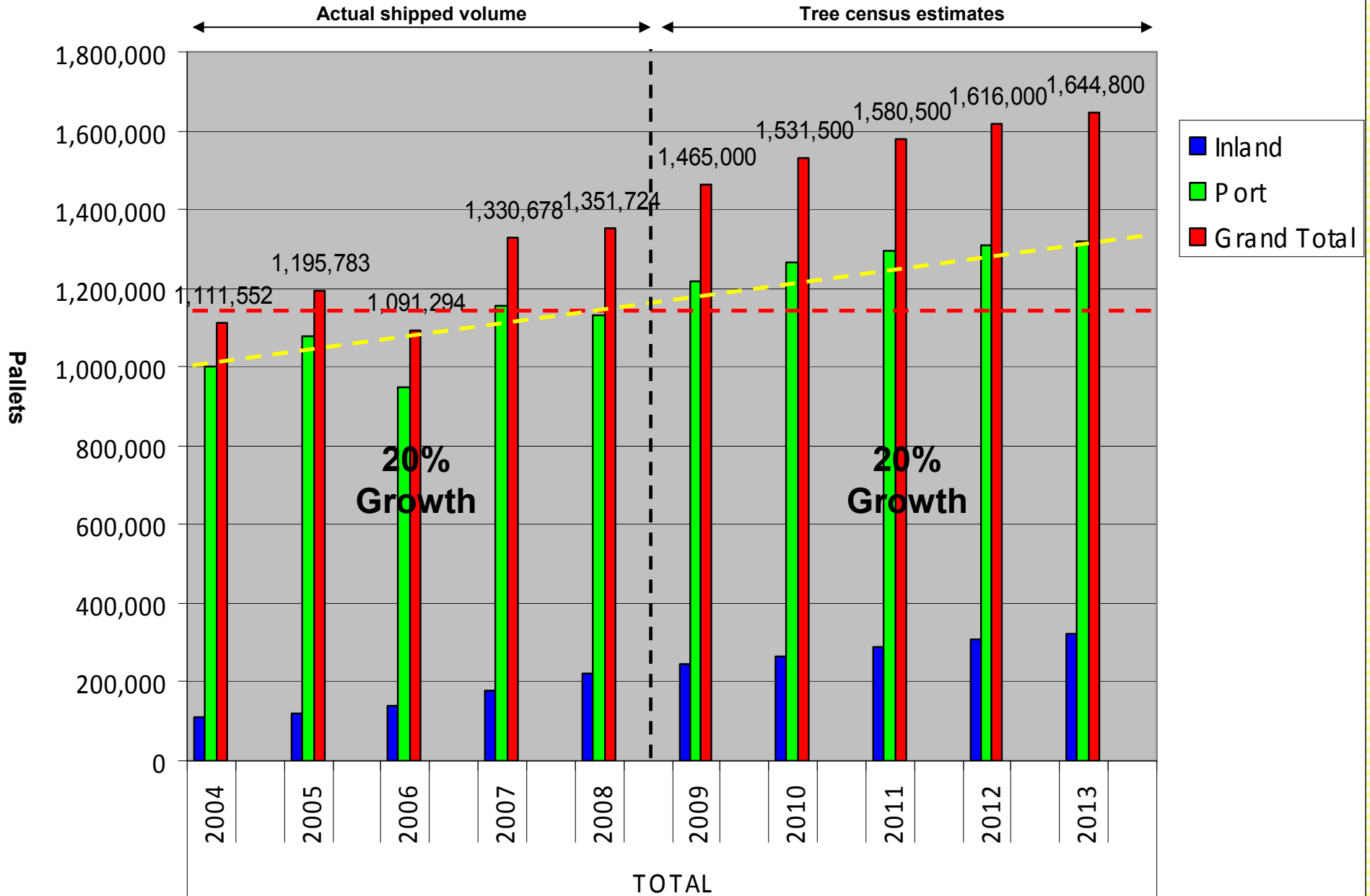
Capacity throughput calculation is based on 80% utilization during peak weeks 20 - 40 with an ave. dwell of 10 days.

= 20 weeks x 7 days = 140 days / 10 (dwell) = 14 utilization factor per slot.

e.g. Durban capacity = 60,000 pallets

= 60,000 slots x 80% utilization x 14 u.f.p.s = 672,000 pallets throughput capability

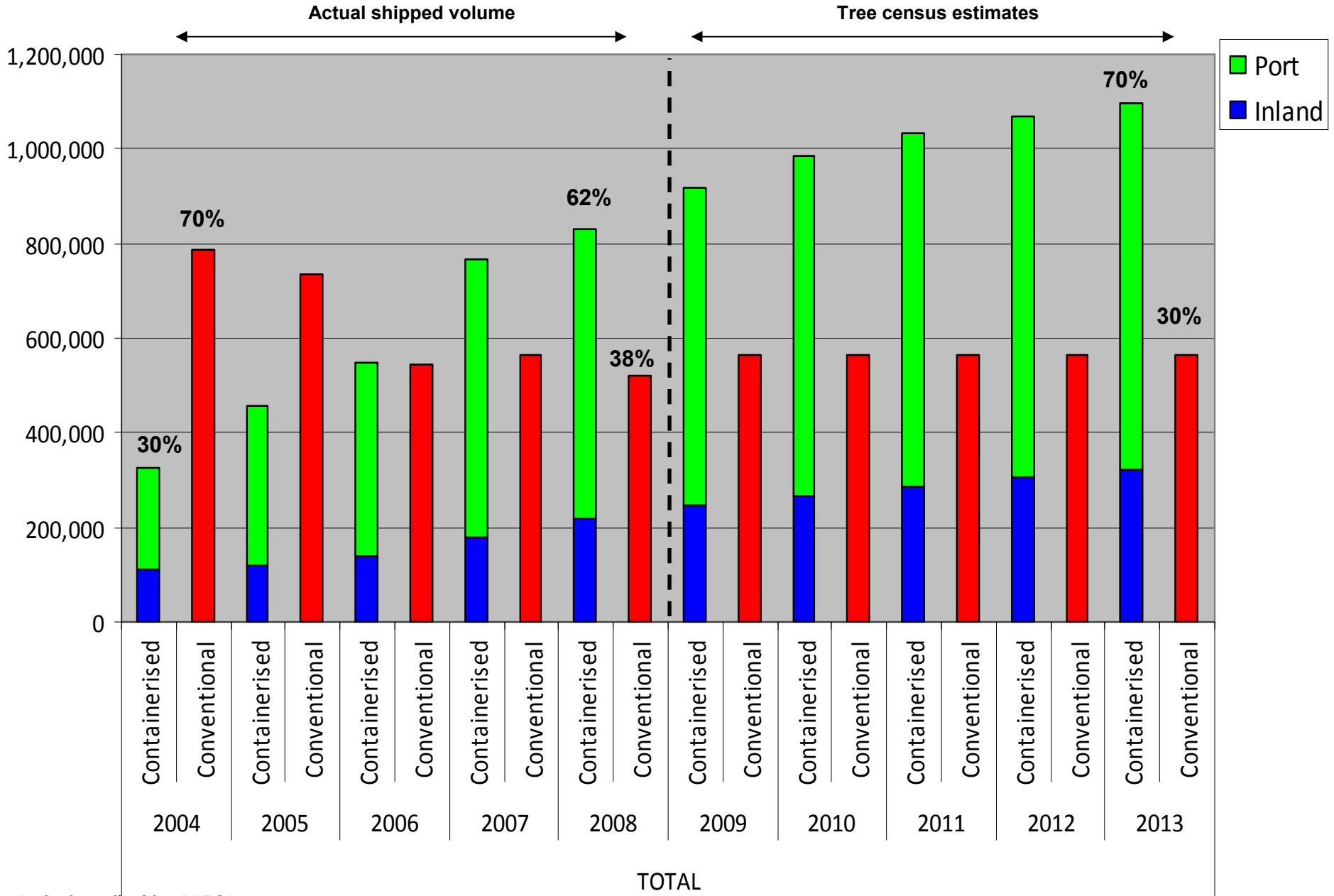
# RSA CITRUS - TOTAL VOLUME GROWTH PROJECTION



Data Supplied by PPECB

TOTAL

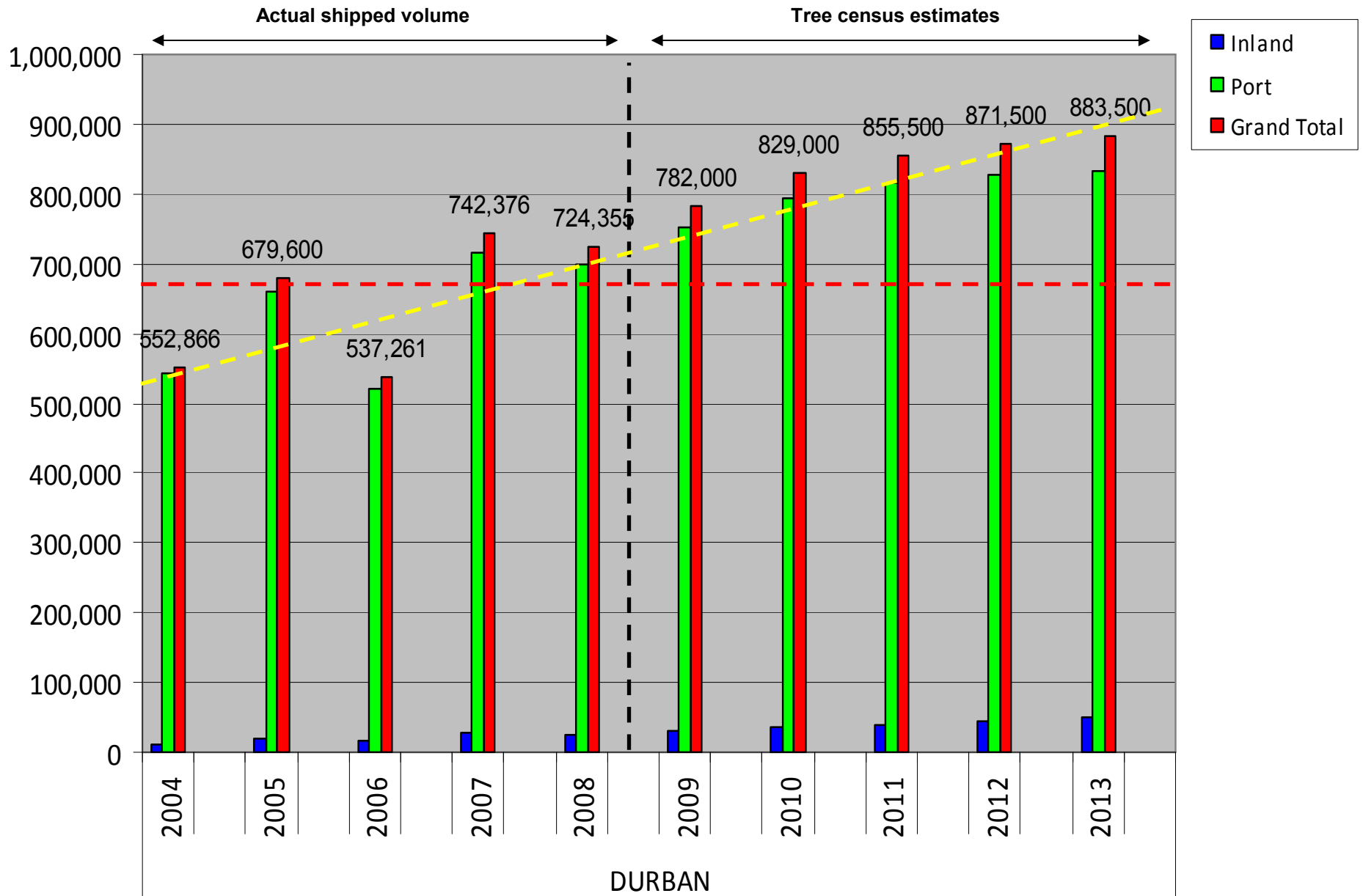
# RSA CITRUS - TOTAL SHIPPING MODE VOLUME PROJECTION



Data Supplied by PPECB

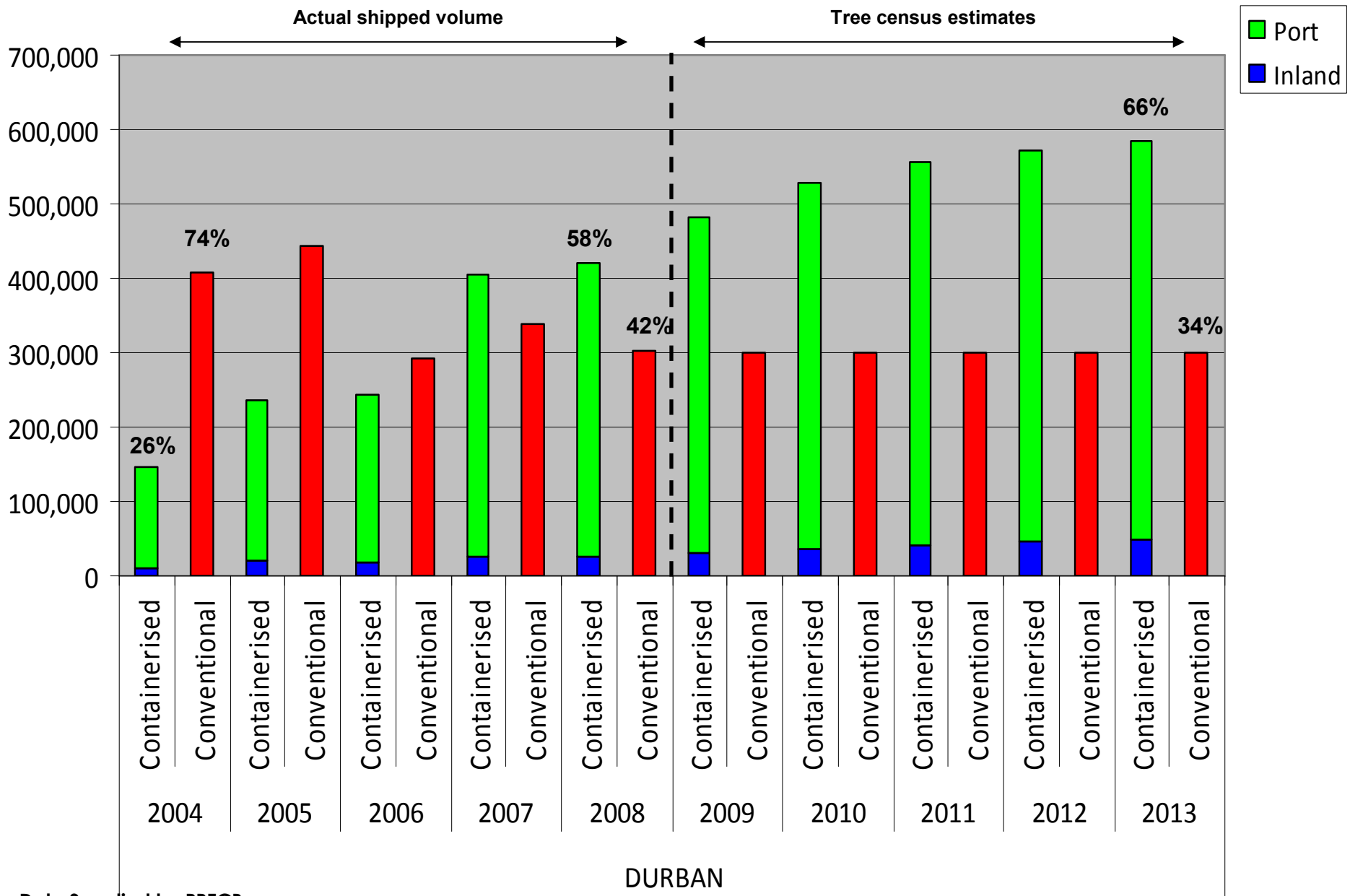
TOTAL

# RSA CITRUS - DBN VOLUME GROWTH PROJECTION



Data Supplied by PPECB

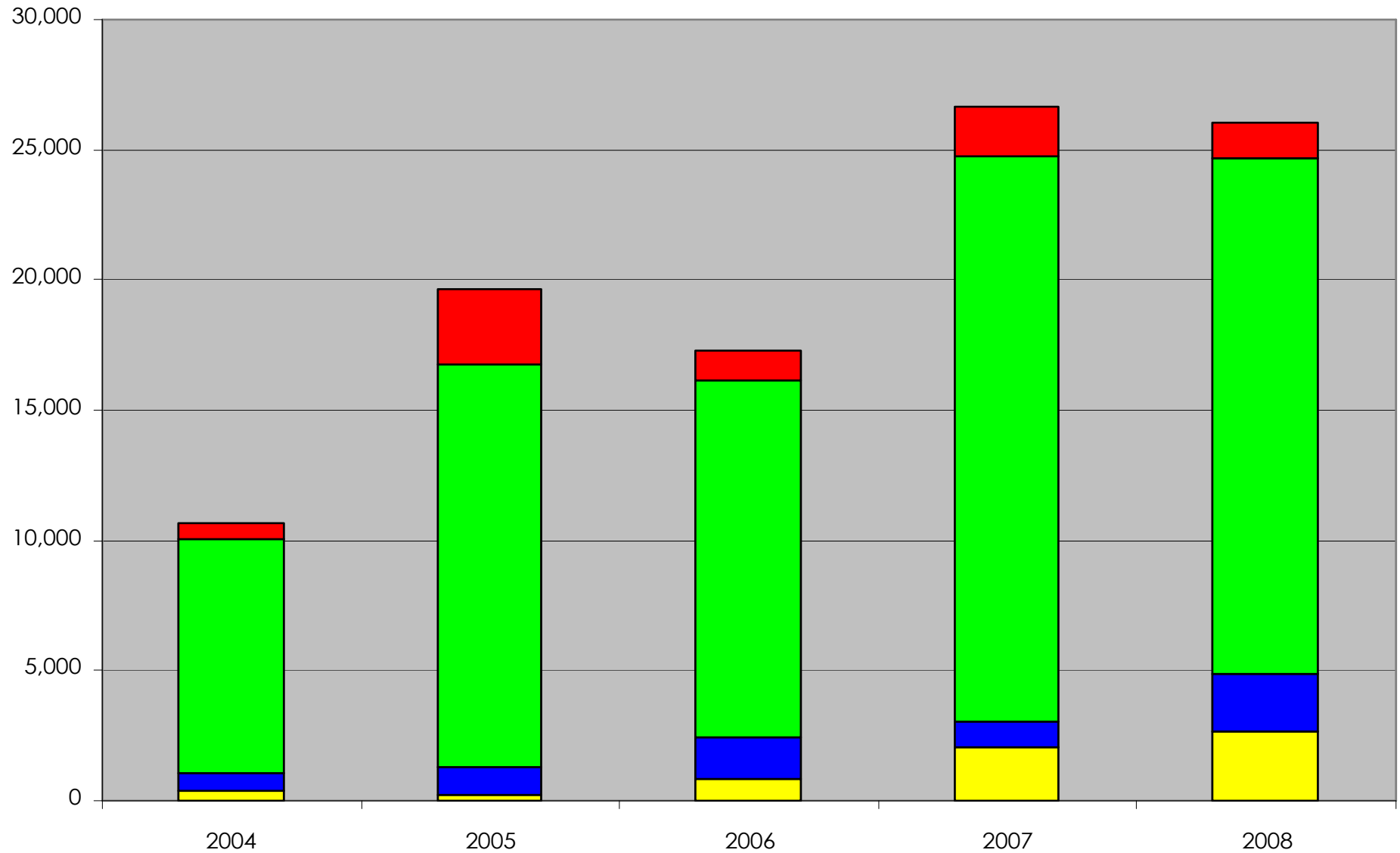
# RSA CITRUS - DBN SHIPPING MODE VOLUME PROJECTION



Data Supplied by PPECB

DURBAN

## RSA CITRUS - INLAND CONTAINER LOADING VOLUME TO DURBAN



Data Supplied by PPECB

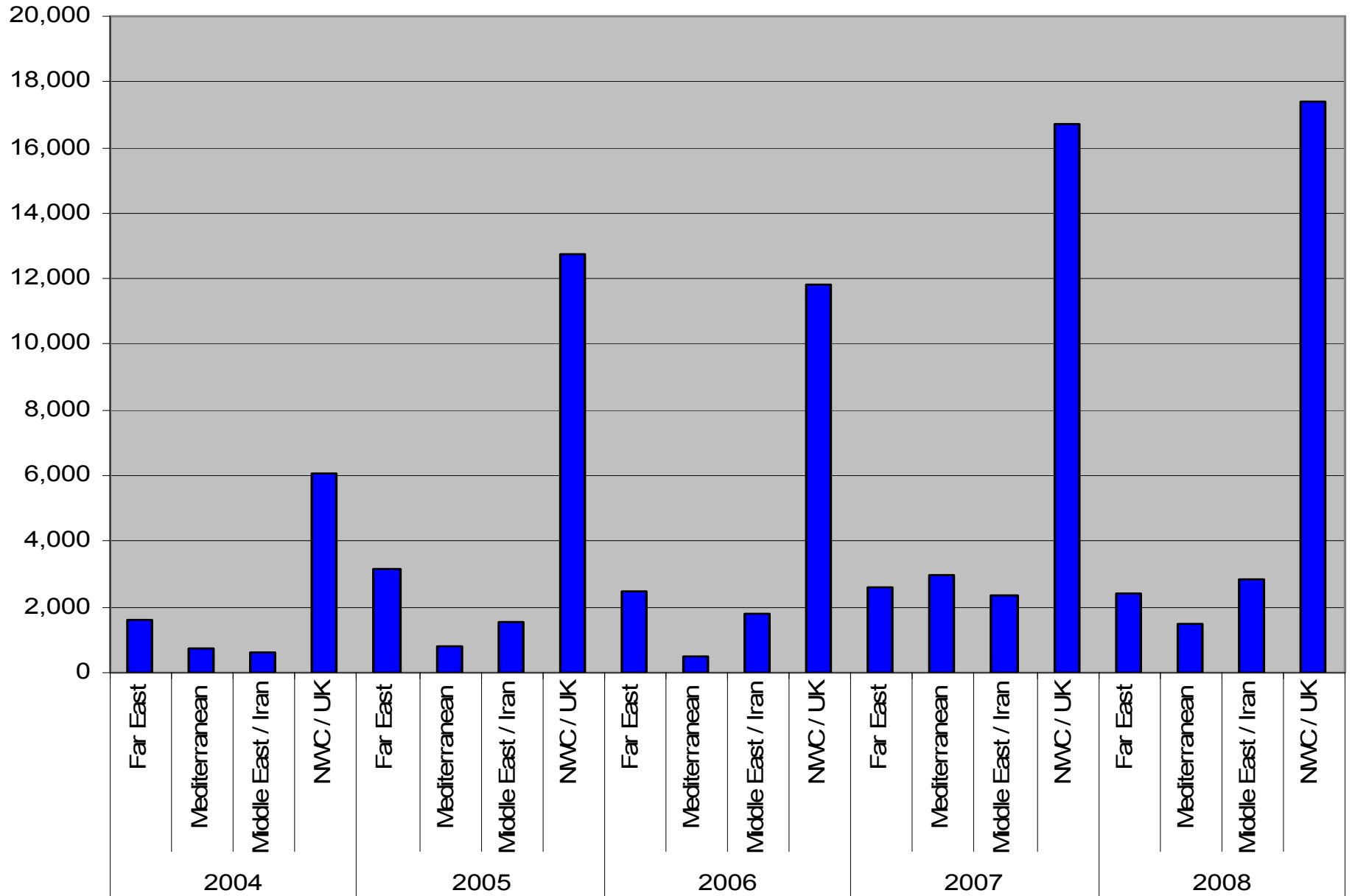
■ GRAPEFRUIT

■ LEMONS

■ ORANGES

■ SOFT CITRUS

## RSA CITRUS - INLAND CONTAINERS TO DURBAN BY MARKET



Data Supplied by PPECB



## Volume Summary

- 25% Increase in volume to DBN since 2004
  - Capacity constraints and inefficiency
- 3 Fold volume increase loaded in containers from DBN
  - Bottlenecks and delays
- Imperative for DBN projected volume increase to be loaded upstream
  - Inland containers loaded away from port
  - Sent direct to stack on rail (Tonnage off Tar / Carbon Footprint)
- Preparation for Hub and Spoke concept – Port of Ngqura?
  - <http://www.ports.co.za/coega.php>

# City Deep Production Point Opportunities

## Tree census data

Region	2007	2008	2009	2010	2011	2012	2013
Hoedspruit	45,982	51,168	56,653	59,038	64,425	66,500	65,051
Letsitele / Tzaneen / Letaba	232,951	247,318	261,256	277,271	291,127	293,305	294,577
Senwes: Groblersdal / Marble Hall	105,198	114,812	124,019	128,723	134,241	139,275	143,571
Limpopo Valley: Tshipise/Mesina	61,983	67,650	69,706	73,951	77,786	80,401	83,079
<b>Total</b>	<b><u>446,114</u></b>	<b><u>480,948</u></b>	<b><u>511,634</u></b>	<b><u>538,982</u></b>	<b><u>567,579</u></b>	<b><u>579,480</u></b>	<b><u>586,278</u></b>





## City Deep Concept

- Hub and Spoke
  - Farm trucks sent to a City Deep cold store facilities (existing within 1km radius)
  - Consolidation point to meet market specification requirements
- Citrus pre-cooled for container loading (Ambient?)
  - Within required protocols
- Containers loaded at cold stores and sent to City Deep
  - Just in Time for stacks
  - Fruit can be railed to MPT / DBN / PE (Coega) / CPT
- Containers railed to required port on genset load beds
  - Direct to stack benefits



## City Deep Benefits

- Up to 50% saving on transport to City Deep
  - Main road links to City Deep, no delays to trucks
  - Transport can potentially run with shuttle services from farms
  - Potential for reduced transport rates due to better efficiency
- Landside cost saving has been identified
  - Saving variance by production region location
- Cost saving largely dependent on rail price per container

***See attached spreadsheet for costing***

**Note: Costing calculated for landside cost only**

- **Duties, levies, sundries and all standard tariffs not included**



## Service Requirements

- City Deep cold storage facility requirements
  - Forced cooling chambers
  - Sufficient container loading bays
  - Paltrack or compatible system (Trained staff)
  - PPECB approved
- Container haulage
  - Haulage trucks to run MT containers to available cold stores
  - Stacker crane is available to load containers on rail at City Deep
  - Plug in points required for 40 reefer containers
- TFR train set
  - Rail set for estimated containers per shunt on genset load beds
  - Potential for two hauls per week



# Citrus Growers Association

## Many Thanks

[www.cga.co.za](http://www.cga.co.za)

Data Supplied by  
PPECB

Mitchell Brooke  
Logistics Coordinator

[mitchell@cga.co.za](mailto:mitchell@cga.co.za)

11/06/2009