



Primary
Industries



Horticulture
Innovation
Australia

Reworking challenges and rootstock compatibility

NSW DPI citrus roadshow, October 2017

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Reworking - key factors to consider

- Rootstock and interstock
- Herbicides
- Tree age
- Tree health and scion wood
- Painting (sunburn)
- After-care
 - Bag opening
 - Graft management
 - De-suckering
 - Nurse limb removal
- Costs



GOVERNMENT | Industries



ARC Nadorcott SL



Re-grafting top-worked trees



Buddy tape wrapped graft stick



6 weeks



15 weeks

Other top-working methods

Chip bud into regrowth



Patch bud - Spain



Reworking to Orri, Spain (March 2017)



Bordeaux (copper) paint



Orri mandarin de-suckering (Dareton)



Selecting a rootstock requires:

- Knowledge of the site conditions.
- Knowledge of the rootstocks limitations and compatibilities.
- An understanding of how rootstocks influence the horticultural performance of different cultivars.



Scion Incompatibility

- Can be highly specific.
- Several visual symptoms.
- Becomes obvious as early as <3 years of age or as late as 8-12 years or more.



Rootstock 'suckering'



Navelina on Swingle



Amigo mandarin on citrange rootstock

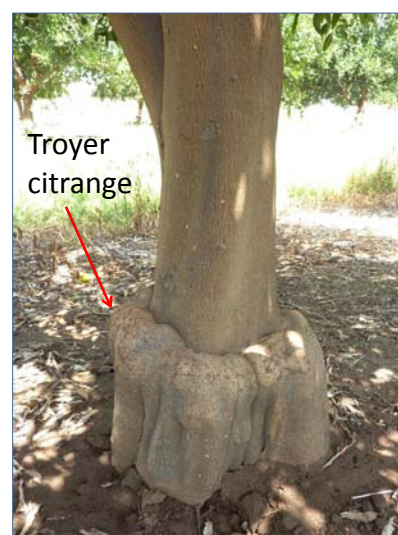
Decline at year 18 from planting



Daisy mandarin on Swingle, Bindoon WA



Imperial mandarin



Afourer (Nadorcott) mandarin on Swingle, Spain



19 year old

Eureka seedless lemon

Cox



Gin Gin, WA 2012

Benton citrange



Cox

Dareton, NSW 2016

Interstocks

Eureka lemon/**Clymenia**/Troyer



Imperial/**Valencia**/Troyer



Interstock – Double bud

1. Valencia

2. Variety

Rootstock

