



**Department of
Primary Industries**




Naphthalene acetic acid (NAA) to reduce suckers in reworked trees

NSW DPI Citrus roadshow 2017




Andrew Creek, Development Officer – Citrus

www.dpi.nsw.gov.au



Naphthalene acetic acid (NAA) research

*NAA is **not** registered for Australian citrus*

- Minimum rate
- Maximum rate
- Scion variety effect
- Delayed application
- Application method



Horticulture

Minimum rate

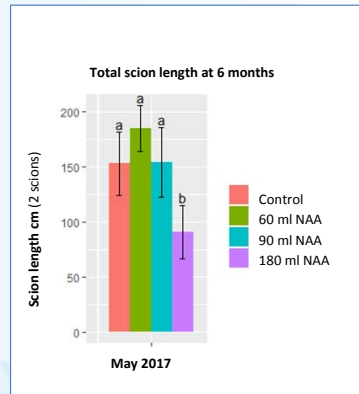
- PVA paint mix
- 10 ml, 20 ml, 30 ml, 60 ml NAA
 - in 1 L of PVA paint mix



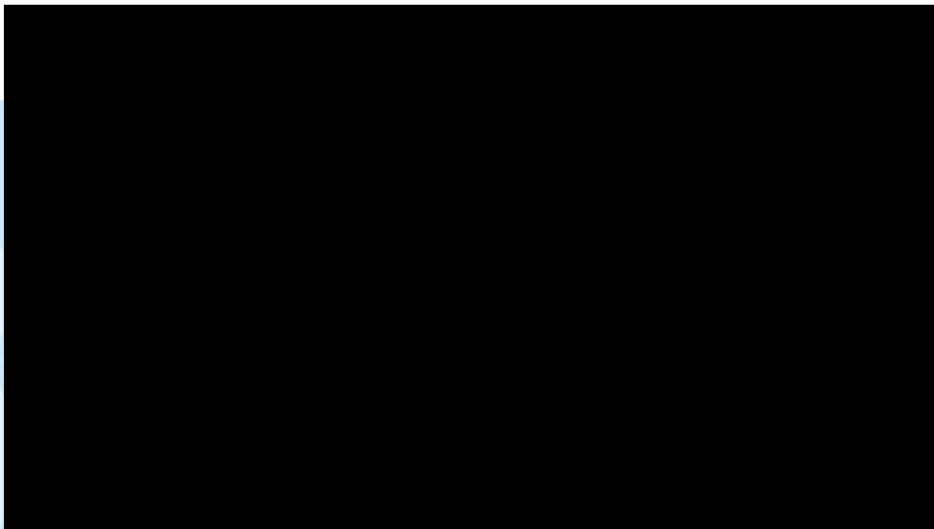
Horticulture

Maximum rate

- PVA paint mix
- 60 ml, 90 ml, 180 ml of NAA
 - in 1 L of PVA paint mix



Horticulture



Horticulture

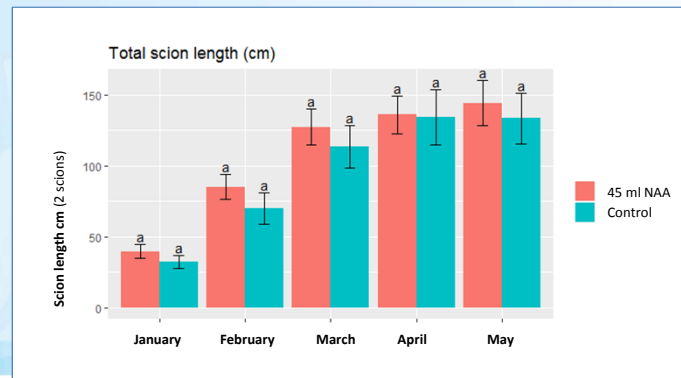
Scion variety effect



- PVA paint mix vs 45 ml NAA in 1L paint mix

- Lemon, Afourer mandarin, Valencia and Washington navel orange

Graft date 4Nov2017 = monitor monthly for 6 months = Dec, Jan, Feb, Mar, Apr, May

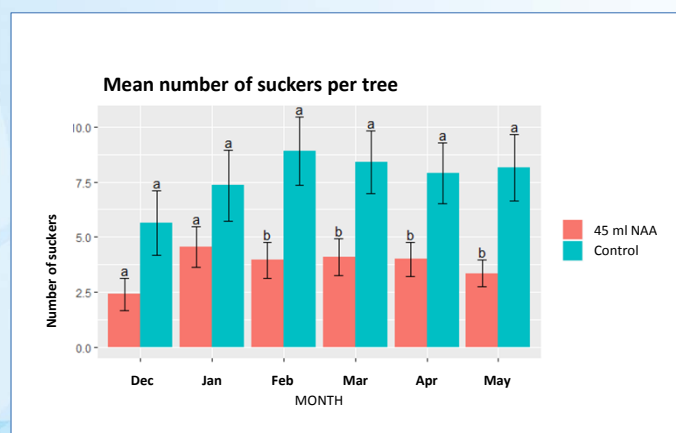


Horticulture

Scion variety effect



- PVA paint mix vs 45 ml NAA in 1L paint mix



Horticulture

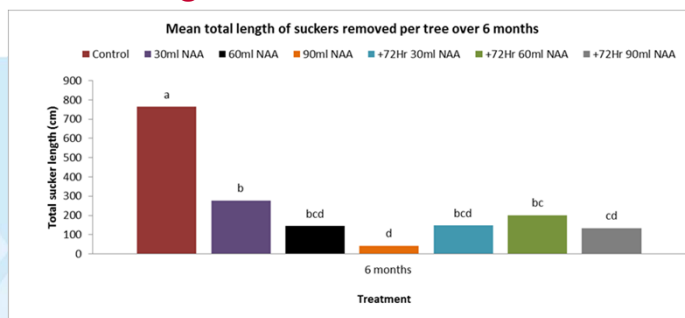
Delayed application

- PVA paint mix
- 60 ml NAA at 1day, 3 day, 7 day, 14 day



Horticulture

Stanbridge 2015 / 2016



Application method

- Brush Vs Knapsack 60 ml NAA per L



Horticulture

Application method

- Cost of NAA

Site	Paint mix per tree (ml)	NAA rate (ml/L)	NAA cost per tree	Control tree cost of rub suckers 3x
Stanbridge	60	60	\$0.22	\$0.20
Hillston	200	60	\$0.72	\$0.45
Wamoon - delay	83	60	\$0.30	\$0.25
Griffith - variety	150	45	\$0.41	not removed
Griffith - brush	166	60	\$0.60	\$0.75
Griffith - Knapsack	480	60	\$1.73	\$0.75

Horticulture

Summary

- No registration
- Variable results
- Reduce number of suckers
- Cost neutral
- **Trial adjuvant** to improve uptake into bark



Department of
Primary Industries

Horticulture