



Osteospermum Genesis Liner Vs. Direct Stick

Spring 2016

Ball Flora Plant
Research & Development

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Ball FloraPlant

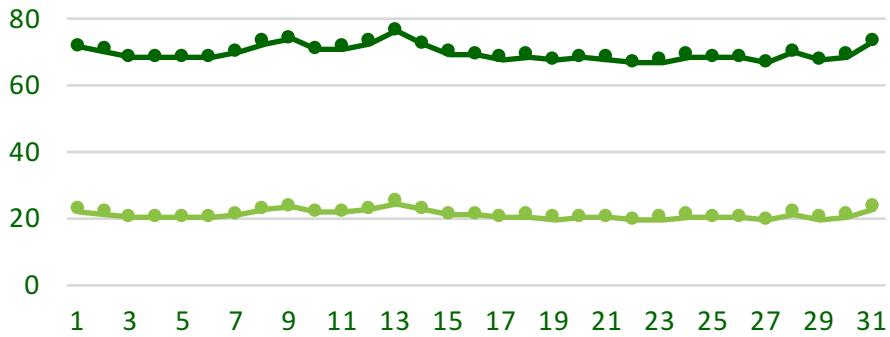
Trial Purpose: Determine if an Osteo Genesis cutting can be stuck directly into a 1 gallon pot on the same day as a liner transplant.

Osteospermum Genesis Data Points

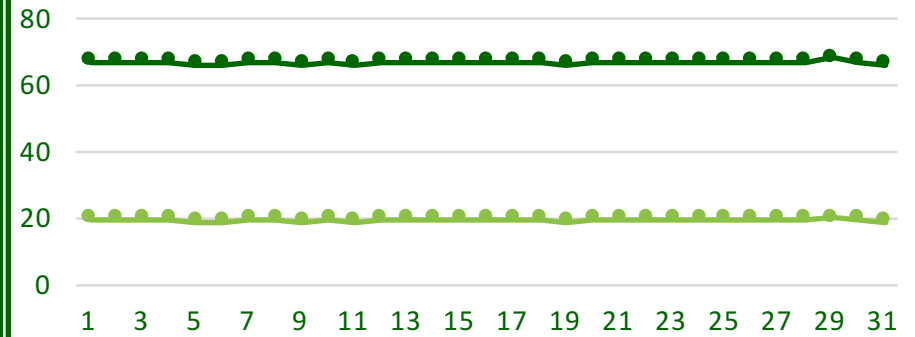
	Liner	Genesis Cutting
Stick Tray Size:	102 tray	Direct stick into 1 gallon pots
Days Under Mist:	10 days in propagation	Reference misting chart below
Stick:	Week 42	Week 47
Transplant:	Week 47	Directly stuck week 47
Pinch:	Week 50	Week 50
PGR:	Week 1: B-Nine 2,500/Cycocel 750 ppm	Week 1: B-Nine 2,500/Cycocel 750 ppm
Finish:	Week 9	Week 9
Total Crop Time:	20 Weeks	15 Weeks

Type Of Propagation	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Genesis - Hand Misted In Greenhouse No Bottom Heat - With Remay Cloth (Increase frequency in arid conditions)	3-5 times during the day	3-5 times during the day	1-3 times during the day	Hand Mist As Needed	Hand Mist As Needed	Hand Mist As Needed	Off Mist

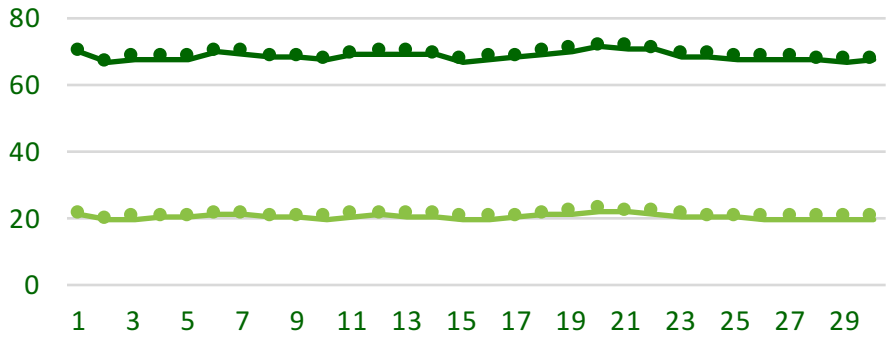
October Average Temperatures



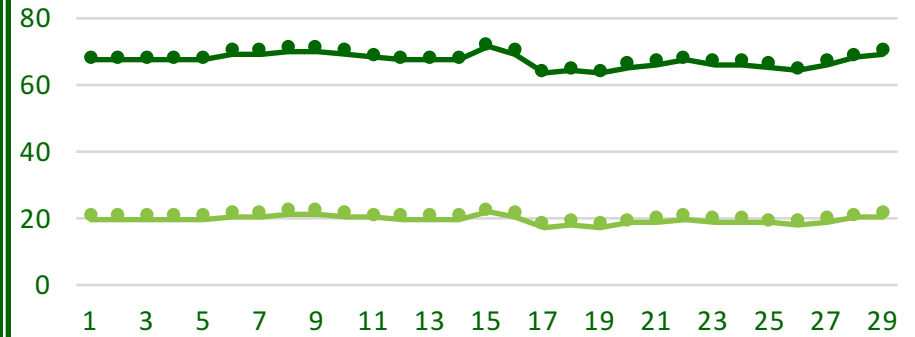
January Average Temperatures



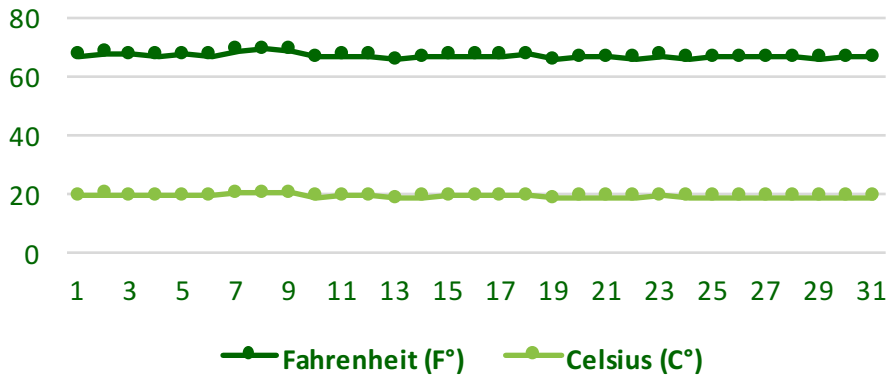
November Average Temperatures



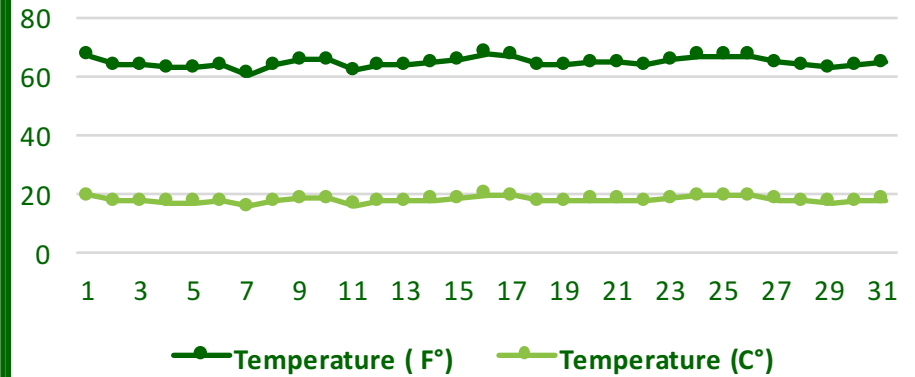
February Average Temperatures



December Average Temperatures



March Average Temperatures



Average Moles/day

- October 2015: 8.1 mol/m⁻²d⁻¹
- November 2015: 6.3 mol/m⁻²d⁻¹
- December 2015: 5.3 mol/m⁻²d⁻¹
- January 2016: 13.8 mol/m⁻²d⁻¹
- February 2016: 25.0 mol/m⁻²d⁻¹



- Osteospermum Dark Purple liner 5 weeks after stick, ready to transplant into 1 gallon pot.



- Osteospermum Genesis Dark Purple cuttings directly stuck into 1 gallon pots.



Osteospermum Dark Purple

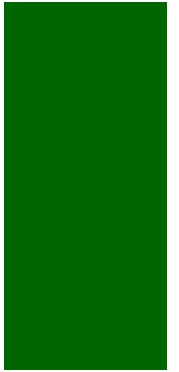


Liner Transplant – 22 weeks after stick



Genesis Direct Stick - 17 weeks after stick

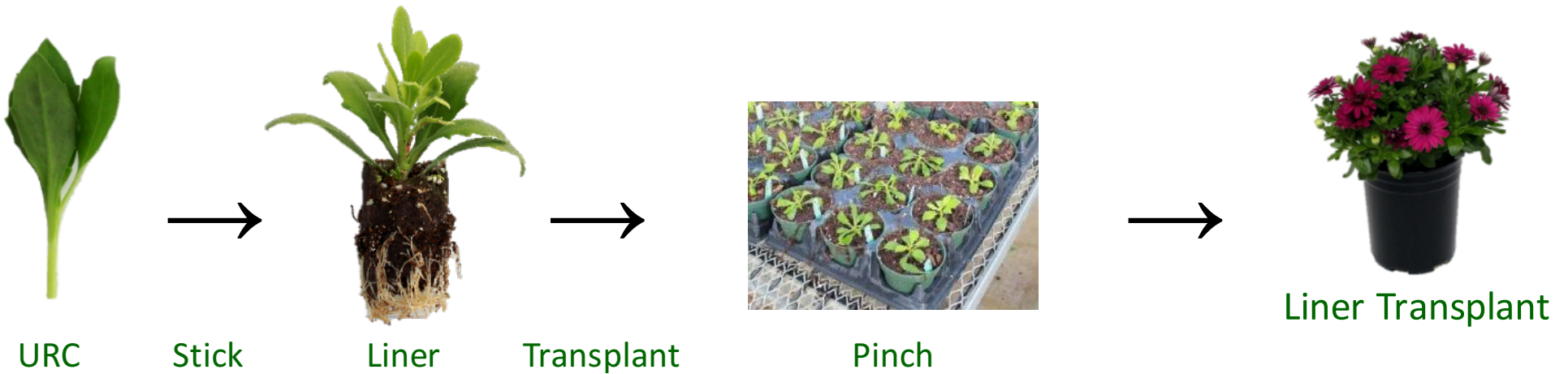
Liner Vs. Direct Stick Rooting



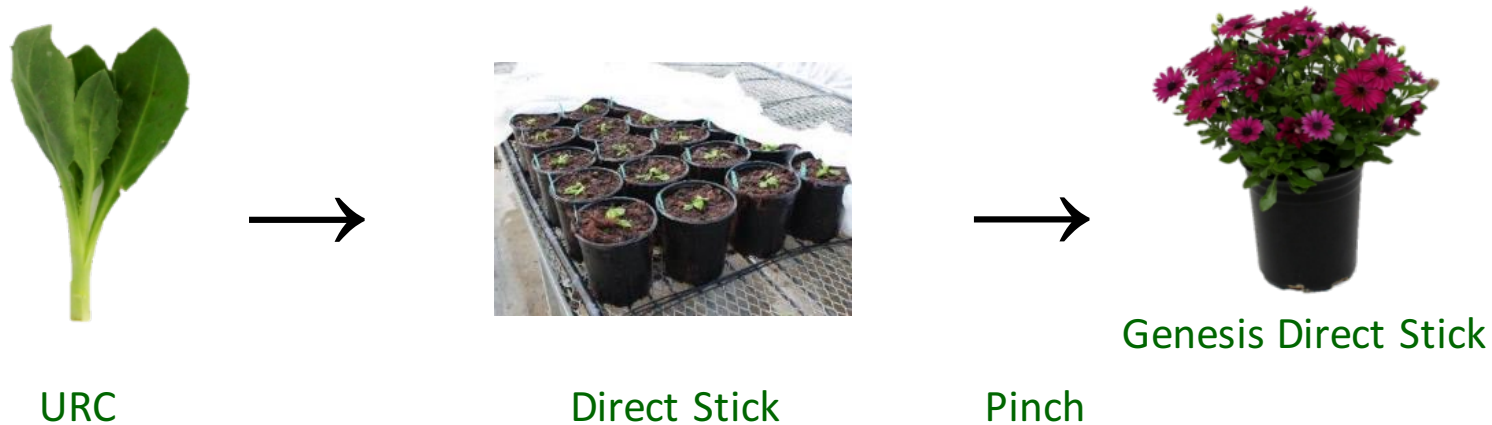
Dark Purple Liner

Dark Purple Direct Stick

Osteospermum Serenity Dark Purple URC



Osteospermum Serenity Dark Purple Genesis Direct Stick



Osteospermum Genesis

Liner Transplant

- Total Crop Time: 22 Weeks
- 5 weeks to create a liner ready to transplant
- Diverts resources to transplant liner
- Faster rooting to the edge of pot

Genesis Direct Stick

- Total Crop Time: 17 Weeks
- Can be propagated without bottom heat (under remay cloth).
- Directly stick into 1 gallon pot
- Reduce the need of labor (no need to transplant).
- Quickly matches liner rooting
- Faster development
- Frees up bench space quicker (reduces crop time).