



Passion Fruit Lantana Culture

Baill FloraPlant®

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The logo features a cluster of orange and purple flowers above the text. 'Passion Fruit' is written in a green and purple script font, while 'LANTANA' is in a bold, orange, sans-serif font.

Passion Fruit

LANTANA

- Incredible trailing, “spreading” lantana has abundant flowers and dark green foliage.
- Perfect habit for hanging baskets.
- Multicolor flowers are ideal for monoculture containers.
- Season extender that never cycles out of flower!



Lantana: Crop Basics



- **Liner time:** ~4-6 wks
- **Common Sizes:** 72, 84, 102
 - Really any size you can think of and justify heating!
- **Stage 1 to Stage 2:** ~4-7 days, highly dependent on time of year it is propagated.
- **Temps:** As warm as possible, avoid media temps creeping past the 78°F. (Northern climates in Spring)
- **Stick timing/priority:** right after Geraniums!

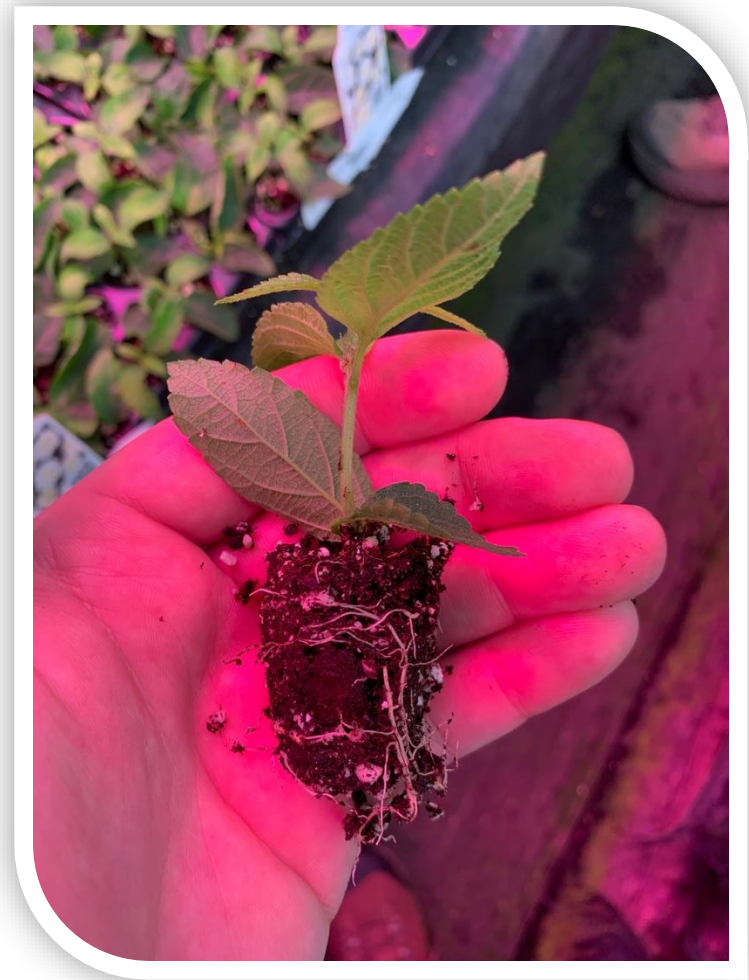
Lantana: Dips to Rehydrate

- Key with this crop is **speed to stick**, due to the high **sensitivity to ethylene in transit**.
- But if we are not rehydrated in the cooler, what can we do?
 - A simple low-rate capsil bath for ~45-60 seconds can do wonders to rehydrate stressed URCs.
 - Typically, it doesn't have the same disease risk as other genera when dunking URCs together. It's still recommended that containers be sanitized between batches or colors.
- Rehydrating prior to placing under mist can help reduce the chance for over-misting.



Lantana: Prop Nutrition & Lighting

- As many supplemental mols as you can provide.
 - Prop DLI: $8+ \text{ mol} \cdot \text{m}^{-2} \cdot \text{d}^{-1}$ (Purdue)
 - The increased DLI will shorten crop time and hasten development.
- Will not show signs of deficiency like Petunias; but needs to be fed at stage 2 in prop.
 - Commonly see 20-10-20 used in prop zones, as the stretch from the additional P is desired in certain regions.



Lantana Prop: PGRS



- Typical Dazide (1,250-2,500 ppm) & Cycocel (500-1,000 ppm) rates separately or reduced if tank mixed.
 - *Be careful applying Cycocel on cloudy/overcast days, as the dreaded Cycocel “halo” can occur.*
- Florel (250-500 ppm) repeated applications may prolong flowering; not as effective for a long delay like with Petunia & Calibrachoa.
- Dazide (1,250-2,500 ppm) + Florel (250-500 ppm) tank mix. Some internode length control, but not a no-pinch solution.

Configure Liner Trials - West Chicago Spring 2023 Dr. Nathan Jahnke & team

- Stick week 11.
- Application of tank mix in the week prior to pinch.

Conclusion: A Configure PGR application does not replace a pinch.

Dazide @ 5,000 ppm + **Configure**



Control 0 ppm | 500 ppm | 1,000 ppm | 1,500 ppm

Pinched & applied with Dazide @ 5,000 ppm + Configure



Control 0 ppm | 500 ppm | 1,000 ppm | 1,500 ppm

Lantana: Pests & Diseases

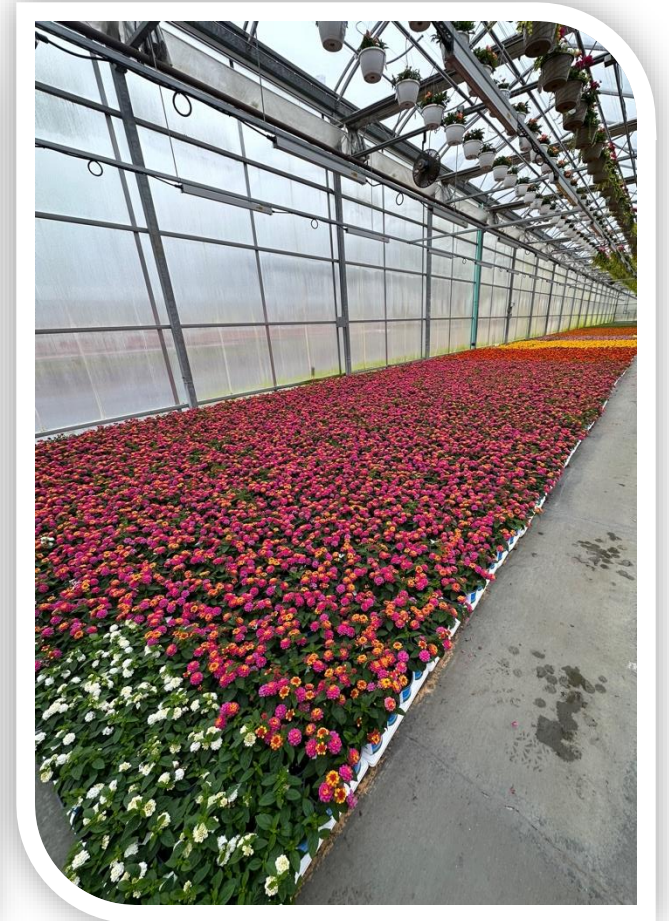
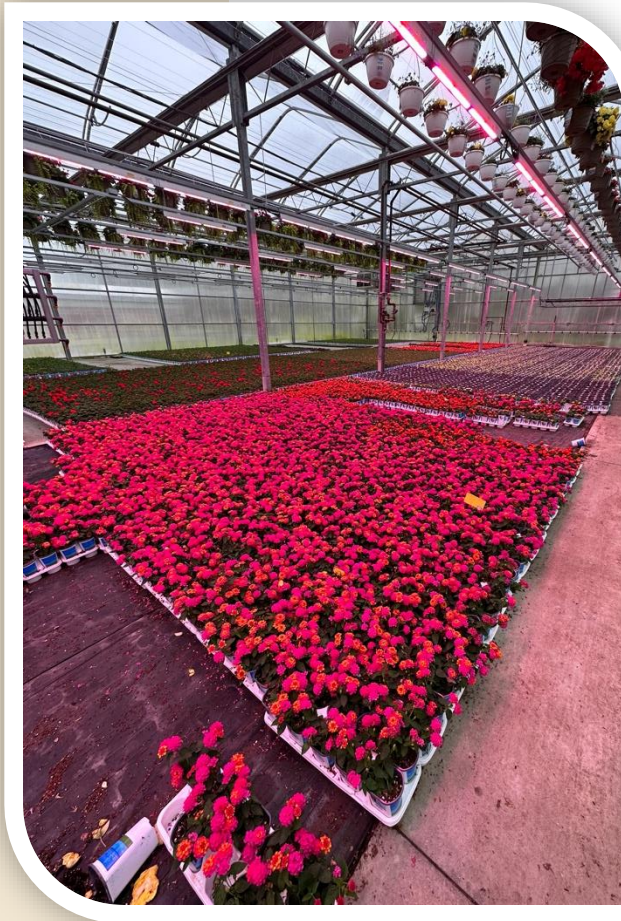
- In cool, low-light areas, periods of excessive media moisture can create a favorable environment for fungus gnats to attack. As the season progresses, this is less of an issue.
- Keep an eye out for whitefly and aphids, which are more typical in Summer production/late-season liners.
- In cool, dark areas, botrytis can wipe out growing tips. Extended periods can see botrytis attack the stems.



Ethylene damage; no pests or diseases.

Lantana Finishing: Lighting & Environment

- Light levels are **extremely important** in finishing. DLI's below minimum will stall growth and prolong crop times.
 - Early season, as many supplemental mols as you can provide.
 - Finishing DLI: 10-12+ mol·m⁻²·d⁻¹ (Purdue)
 - The increased DLI will shorten crop time.
- In stretches of overcast weather, create an active environment, reducing humidity in structures where possible to support transpiration.
- Target a moderately-high ADT and try to place in areas with other temperature-sensitive crops like NGIs, Begonias and Foliage/Tropicals.



Lantana Finishing: Nutrition



- Feed 17-5-17 at 150-200 ppm recommended rate; 20-10-20 is OK, but excessive high rates/frequency can elongate the naturally long internode spacing that is the basis for the trailing habit.
- Low fertility into flowering can result in a lighter shade of pink color, which appears to be from some environmental influence as well.

West Chicago Finishing Trial – No Pinch

Stick WK4 – Transplant WK10 – Treatments application WK12 – Photos WK17
12HB/2GAL: 3 ppp



Control



No Pinch, Florel



No Pinch, Configure

West Chicago Finishing Trial – Pinch

Stick WK4 – Transplant WK10 – Treatments application WK12 – Photos WK17
12HB/2GAL: 3 ppp



Control



Pinch, Florel



Pinch, Configure



Pinch, Configure+Florel

Case Study: Application 2 wks after TP



Control

Florel 500 ppm + Configure 750 ppm

Spring Finishing Recommendations



- **Pinch liners or pinch at transplant.**
 - If desired, trimming to the rim of the basket can be done when going to hang/space. Some have used chemical pinching agents to get the same effect (not recommended without specific site trialing first).
- **Florel + Configure can enhance branching and fill,** while controlling internodal stretch in place of a second pinch in finishing.
- **A light PGR touch is recommended in finishing,** as at normal light levels, it will branch and fill in on itself.
- If extra hold is required at finish size, use a Bonzi 1-2 ppm drench, but this will not be a long-term strategy longer than 2 wks (Bonzi rates are higher in Summer).
 - Reduce fertility (if flower coverage and development is met).



Thank you!

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