GrowerFacts Extra Zinnia Zesty[™] Additional Culture Research from

PanAmerican Seed.

Plant Growth Regulator Research, published 2020

PanAmerican Seed.

OBJECTIVE

To evaluate the effect of PGRs on Zinnia Zesty[™] plugs.

MATERIALS AND METHODS

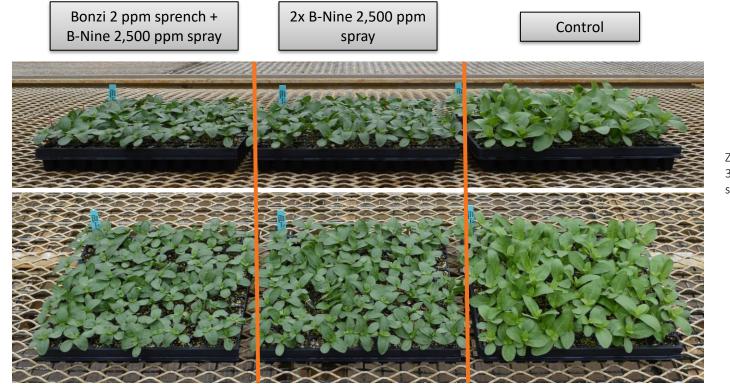
- Varieties: Zesty Fuchsia, Pink, Purple, Scarlet, and White
- Sow date: week 12
- Plug tray size: 288 cell
- Plug PGR treatment:
 - Paclobutrazol (Bonzi) 2 ppm sprench at sowing, then daminozide (B-Nine or Alar) 2,500 ppm spray 2 weeks after sowing
 - Daminozide (B-Nine) 2,500 ppm spray at 1 week after sowing, repeated 1 week later
 - Control



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Zesty Fuchsia 3 weeks after sowing

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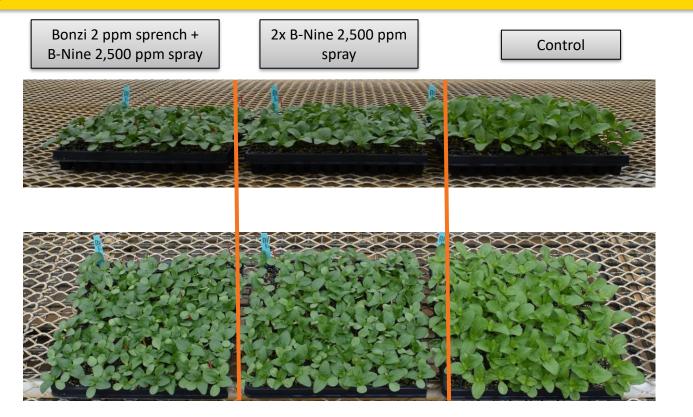


Zesty Pink 3 weeks after sowing

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Zesty Purple 3 weeks after sowing

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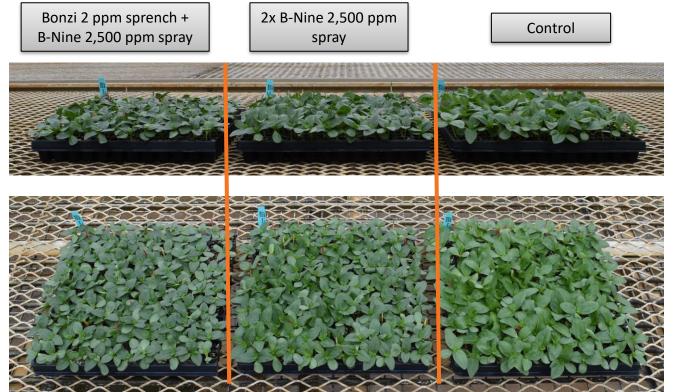


Zesty Scarlet 3 weeks after sowing

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Zesty White 3 weeks after sowing

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PLUG STAGE RECOMMENDATION

- Zinnia Zesty plugs are responsive to B-Nine 2,500 ppm spray at 1 week after sowing. Repeat 1 week later if necessary.
- The alternative PGR treatment is to use Bonzi 2 ppm sprench at sowing or radicle emergence stage to control hypocotyl stretch. Follow up with a B-Nine 2,500 ppm spray 2 weeks later.



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OBJECTIVE

To evaluate the effect of PGRs on Zinnia Zesty[™] at finish stages.

MATERIALS AND METHODS

- Varieties: Zesty Fuchsia, Pink, Purple, Scarlet, and White
- Transplant date: week 15
- Container size: Quart with 1 ppp
- Finish PGR treatments:
 - Paclobutrazol (Bonzi) 5 ppm drench at 2 weeks after transplant (WAT)
 - 2x daminozide (B-Nine) 2,500/chlormequat chloride (CCC) 350 ppm spray at 2 and 4 WAT
 - 2x daminozide (B-Nine) 2,500 ppm spray at 2 and 4
 WAT

– Control

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Zesty Fuchsia

Zesty Pink

7 weeks after transplant

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Zesty Purple

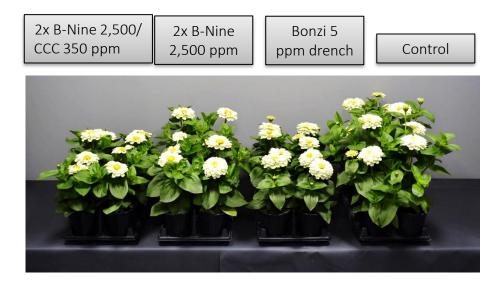
7 weeks after transplant

Zesty Scarlet

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Zesty White

7 weeks after transplant

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8 weeks after transplant



9 weeks after transplant

Bonzi drench had a longer residual activity.

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FINISH STAGE RECOMMENDATION

- All PGRs elicited height reduction in Zinnia Zesty.
- B-Nine 2,500 ppm spray at 2 and 4 weeks after transplant worked well. If necessary, B-Nine and CCC tank mix can be used for stronger control. However, it is not recommended to use CCC rate higher than 350 ppm, as we have found it could reduce flower doubleness.
- Bonzi 5 ppm drench was the strongest, and the residual will last longer than B-Nine or B-Nine/CCC tank mix. This is recommended for warmer conditions.

