

Divine New Guinea Impatiens Disease Resistant Impatiens



From Seed



PanAmerican Seed®

Presenters



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NGI is Impatiens Downy Mildew Resistant*

Impatiens downy mildew infects only *Impatiens walleriana* (and interspecifics)



• New Guinea impatiens are not susceptible



**2011
Ball Colegrave Trials
U. K.**

* Definition as adopted by the ISF Vegetable and Ornamental Crops Section, June 2012

Divine Varieties



DIVINE PINK



DIVINE SCARLET RED



DIVINE ORANGE



DIVINE CHERRY RED



DIVINE WHITE



DIVINE LAVENDER

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Divine Varieties



DIVINE PINK PEARL



DIVINE VIOLET



DIVINE ORANGE BRONZE LEAF

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Divine Mixes



DIVINE MIX IPD



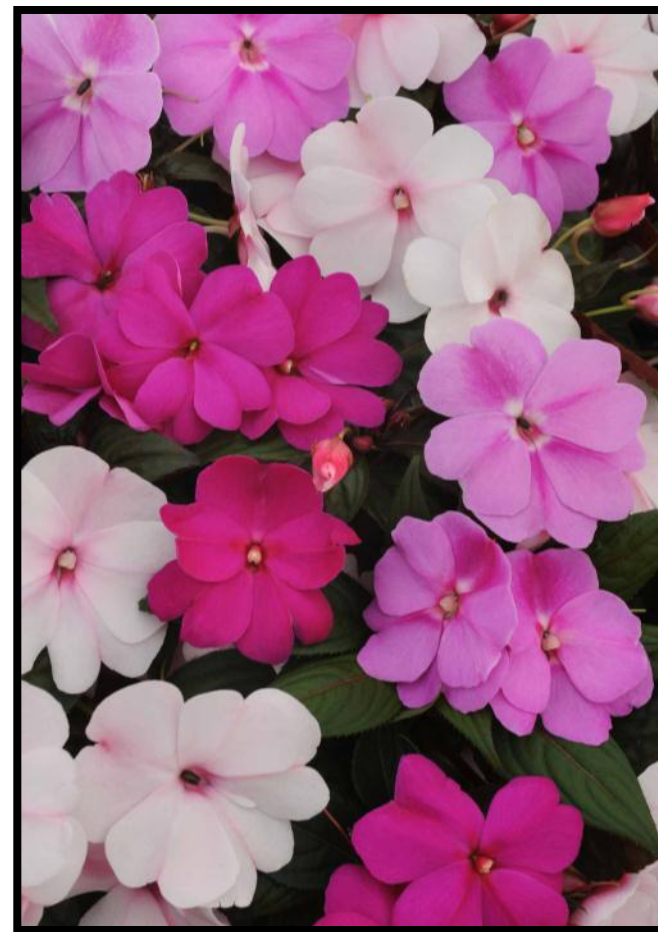
DIVINE RED & WHITE MIIX



DIVINE SALSA MIX



DIVINE HOT MIX



DIVINE MYSTIC MIX IPD

PanAmerican Seed®

2014 Introductions



DIVINE SCARLET BRONZE LEAF



DIVINE BLUE PEARL



DIVINE WHITE BLUSH



DIVINE BURGUNDY

Presentation Outline

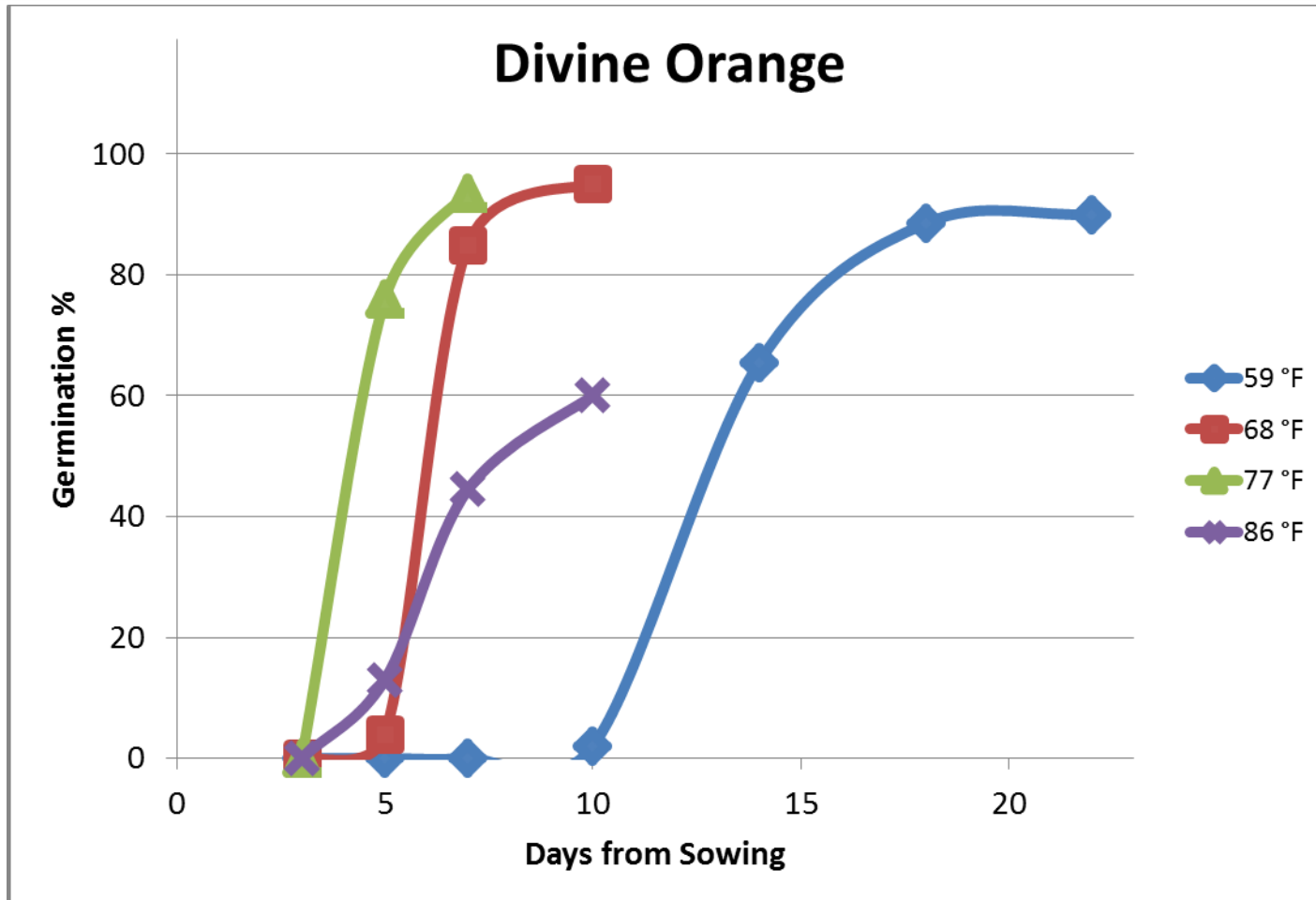
- Germination
- Plug culture
- Finish culture
- Potential future introductions
- Best matched varieties



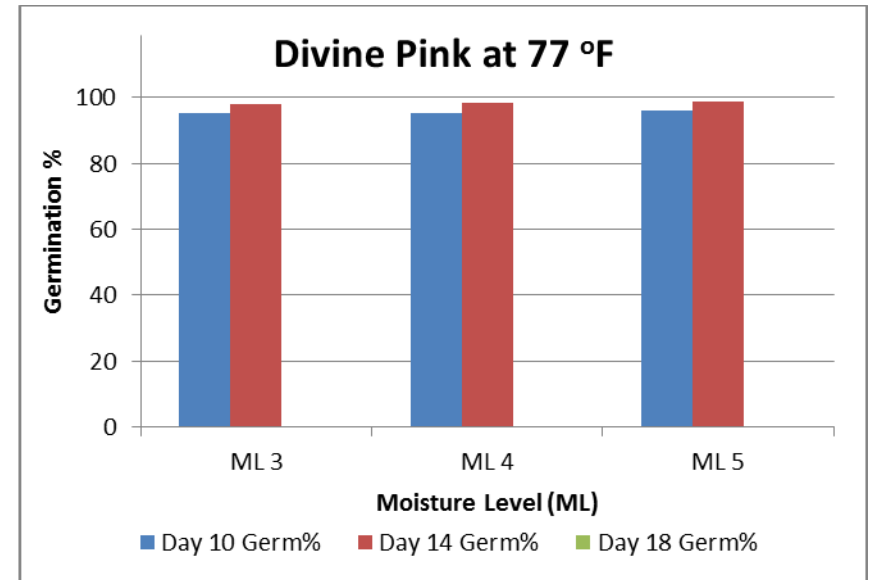
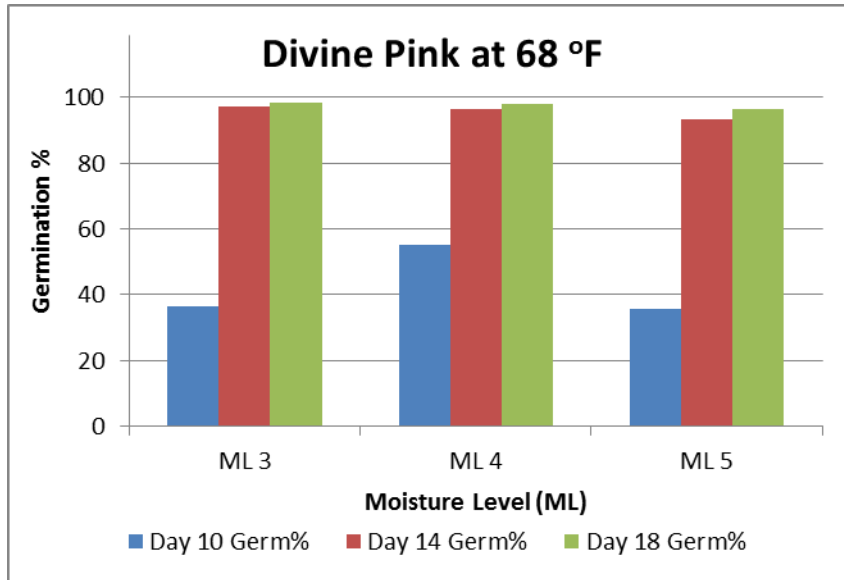
DIVINE AT DALLAS ARBORETUM 2012

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Germination: Stage-1 Temperature

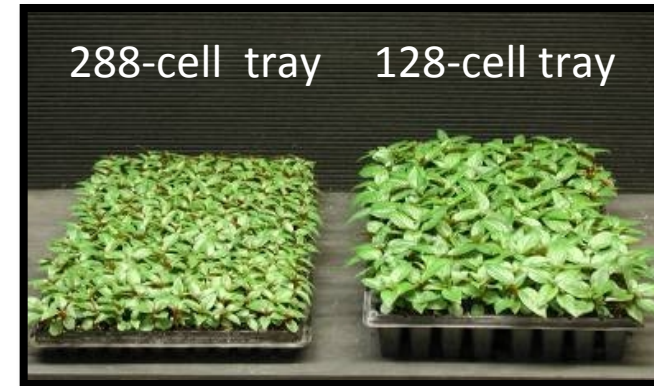


Germination: Stage-1 Moisture



Germination

- **Tray size:** 288-cell or larger
- **Stage-1 temperature:** 77 to 68 °F
 - 7 and 10 days, respectively
 - Chamber time of 5 to 7 days
- **Stage-1 moisture:** Level 4 or 5
- **Cover:** light vermiculite, if needed



Plug Culture

- **Stages 2 to 4:** Air temperatures of 68 to 73 °F
 - Soil temperature 70 °F
 - Stage 3 and 4 DLI of ≥ 15 moles/m²/d
- **Pinching:** Not needed
- **Plug height control:** PGRs may not be necessary
 - -ve DIF and DROP effective
 - Paclobutrazol spray at 2 to 7 ppm at true leaves
- **Plug crop time:** 5 to 6 weeks

Finish Culture

- **Temperature:** Day 68 to 76 °F and night 65 to 68 °F
 - ADT between 68 and 73 °F
- **DLI:** ≥ 15 moles/m²/d
- **Nutrition:** Moderate feeders with 65-125 ppm N CLF
 - Micronutrient toxicity at low pH ($\leq 5.8-6.0$)
- **Height control:**
 - Paclobutrazol spray at 2 to 10 ppm
 - Early paclobutrazol drenches at 0.25 to 1 ppm
 - -ve DIF and DROP

Finish Culture: PGR Response



Finish Culture: Height Control



Crop Times

		Spring	Autumn (southeast)*
Container	288-cell plugs per pot	Weeks from Transplant to Finish	
306/1801	1	7 to 8	8 to 10
4½ in. (10.5 cm), Quart	1	7 to 8	8 to 10
6-in. (15 cm), Gallon	1 to 3	8 to 9	9 to 11
10-in. (25 cm) Basket	3 to 4	8 to 9	9 to 11
12-in. (25 to 30 cm) Basket	4	8 to 9	9 to 11

* Heat delay possible when ADT exceeds 85 °F.

Divine Solutions

- Proven Landscape Performance
 - Establishes quickly in the landscape
 - Trialed with *Impatiens walleriana* in gardens
- Seed Propagated = Easy
 - Mechanization
 - Easy ordering, shipping & storage vs. cuttings
 - Better branching from seed
 - Economical plug culture

Best Matched Varieties

- **Flowering Time:** 11 day window
 - Earlier when warmer, slightly later when cooler
 - Groupings, with some overlap:
 - Early group : Orange, Pink, Scarlet Bronze Leaf, Cherry Red
 - Mid Group: Pink, Scarlet Red, Orange, Blue Pearl, Orange Bronze Leaf, Cherry Red, Burgundy, White Blush
 - Late Group: White (original), Scarlet Red, Lavender, Pink Pearl, Violet, Orange Bronze Leaf

Best Matched Varieties

- **Habit/ Vigor:**
 - Orange Bronze Leaf – most vigorous
 - Pink - least vigorous
 - **Best fit:** Cherry Red,, Orange, Pink Pearl, Violet, White (original), White Blush, Burgundy, Blue Pearl, Scarlet Bronze Leaf, Lavender*, Scarlet Red*

Top Selling Colors

- Historical* Sales Rank: Mix, Pink or White, Violet or Cherry Red, Scarlet Red, Orange (original Orange or Orange Bronze Leaf) & Lavender
- All color Divine Mix out sells Divine Salsa Mix, Red & White Mix, Mystic Mix or Hot Mix specialty mixes

*Historical sales rankings are based on 7 colors. There are now 9 colors in the assortment with the addition of Pink Pearl and Orange (green leaf).

Questions



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