

GrowerFacts

Jolt F₁ Interspecific Dianthus

Dianthus barbatus interspecific

Seed Form and Sowing Recommendations:

Pelleted Seed, 1 Seed per Cell

Stage	Plugs Stage 1	Plugs Stage 2	Plugs Stage 3	Plugs Stage 4	Transplant to Finish	Comments
Plug Stage and Time	Germination to Radicle Emergence, 3-5 Days	Radicle Emergence to Cotyledon Expansion	Cotyledon Expansion to True Leaves	Pullable Plug		
Photo						
Media Moisture	Level 4, medium-wet	Level 4 to 3	Cycle between levels 2 and 3	Cycle between levels 2 and 3	Maintain optimal media moisture	Do not allow the seedlings to wilt
Temperature	64 to 68°F (18 to 20°C)	65 to 70°F (18 to 21°C)	60 to 65°F (15 to 18°C)	55-60°F (13-15°C)	Provide 65-75°F (18-24°C) day temperatures and 60°F (15°C) night temperatures for the first 2 weeks of greenhouse production to establish the plants. Can finish at 60-70°F (15-21°C) days, and nights in the low 50s (11 to 12°C). Lower temperatures can be tolerated, but it will lengthen the crop time. Jolt will flower earlier under warmer temperatures.	Jolt is the most heat tolerant Dianthus and is very well suited for Summer production/programs.
Light Requirements	Light is not required for germination, but can be beneficial.	Can be up to 2,500 f.c. (26,900 Lux). DLI 5 to 8 moles·m ⁻² ·d ⁻¹	Can be up to 2,500 f.c. (26,900 Lux). DLI 8 to 10 moles·m ⁻² ·d ⁻¹	Can be up to 5000 f.c. (54,000 Lux). DLI >10 moles·m ⁻² ·d ⁻¹	Jolt will benefit from being grown under high light levels.	Growing under low light conditions (<5 moles·m ⁻² ·d ⁻¹) could significantly delay flowering.
pH and EC Management	Maintain pH at 5.8 to 6.2 and EC of 0.5 to 0.75 mS/cm.	Maintain pH at 5.8 to 6.2 and EC of 0.5 to 0.75 mS/cm.	Maintain pH at 5.8 to 6.2 and EC of 0.7 to 1.0 mS/cm	Maintain pH at 5.8 to 6.2 and EC of 0.7 to 1.0 mS/cm	Maintain pH at 5.8 to 6.2 and EC of about 1.5 mS/cm by providing adequate fertilization.	
Plant Growth Regulators		When grown under low light conditions (DLI <5 moles·m ⁻² ·d ⁻¹), a paclobutrazol (Bonzi, Piccolo) 5ppm foliar spray at radicle emergence stage will help in controlling early hypocotyl stretch.	A paclobutrazol (Bonzi, Piccolo) 4 to 6ppm foliar spray applied at stage 3 (at about 18 days from sowing) is effective for plug height control. This application is not necessary if the plugs are already treated at radicle emergence.	If necessary, can repeat the paclobutrazol (Bonzi, Piccolo) 4 to 6ppm foliar application.	When producing Jolt in premium containers such as quarts and 1-gallons, foliar sprays of paclobutrazol (Bonzi, Piccolo) 20 ppm applied at about 2 to 3 weeks after transplant will be effective. If necessary, repeat 2 to 3 weeks later.	
Disease and Pest Management	Similar to that as for other Dianthus	Similar to that as for other Dianthus	Similar to that as for other Dianthus	Similar to that as for other Dianthus	Similar to that as for other Dianthus	Similar to that as for other Dianthus

Crop Scheduling			
Season	Plug crop time (weeks)	Transplant to finish (weeks)	Total crop time from sow (weeks)
Late Spring through Autumn finishing	5-6	11-13	16-18
Winter to Early Spring finishing	5-6	14-18	19-23

Note: These crop times are based on a 288-cell size plug for finishing in a Quart with 1 PPP and in a 1-gal with 3PPP. Crop times may vary depending on environmental conditions & cultural practices.

Photoperiod requirement

Jolt is a facultative/quantitative long day plant and can flower under different day lengths, but it will take slightly longer to flower under short days than long days. Also, its flowering is influenced by light intensity and temperature, especially during winter and early spring season.

Variety List

Jolt Pink - 2015 AAS ALL AMERICA SELECTIONS NATIONAL WINNER
Jolt Cherry

PanAmericanSeed.