GrowerFacts

PanAmerican Seed®

Dianthus (Interspecific) Jolt™ F_1 Series

(Dianthus barbatus interspecific)

Annuals Culture (revised 12/02/24)

Plug crop time: 4 to 5 weeks
Transplant to finish: Late Spring through Autumn finish, 11 to 13 weeks; Winter finish, 14 to 18 weeks

- *Shocking Summer Colour*™ from one of the most heat-tolerant interspecific dianthus series!
- Electrifying colours and all-season performance make Jolt stand out in landscapes and premium containers.
- Highly durable plants withstand hot conditions with few disease issues and continue to flower without setting seed.
- Easy to produce with fewer to no PGRs.
- Perfect for Summer premium grower choice quarts and gallons to command a higher price point.
- Performs as a semi-hardy annual in Zone 7a (0°F/-18°C minimum temperature) to 11 and milder.

2019 Louisiana State University Super Plant

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Spring, Late Spring, Summer, Late Summer, Autumn	16-20 in. (41-51 cm)	12-14 in. (30-36 cm)	10-14 in. (25-36 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days from 50% to maximum germination	Initial Media pH/EC (1:2)	Cover Seed
PEL	288	1	5-6	3-4	5.8-6.2 pH 0.75 mmhos/cm	Yes

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 2-3	Level 2-3
Temperature	64-68°F (18-20°C)	65-70°F (18-21°C)	60-65°F (16-18°C)	55-60°F (13-16°C)
Light	Optional	5-8 $mol \cdot m^{-2} \cdot d^{-1}$	8-10 $mol \cdot m^{-2} \cdot d^{-1}$	10 $mol \cdot m^{-2} \cdot d^{-1}$
Fertiliser		Less than 100 ppm N (Less than 0.7 EC)	100 to 175 ppm N (0.7 to 1.2 EC)	175 to 225 ppm N (1.2 to 1.5 EC)
PGR		paclobutrazol/5 ppm/Spray	paclobutrazol/5 ppm/Spray	

Propagation Key Tips

A small percentage (3-5%) of flowering off-types can be observed with Jolt dianthus at 4 to 5 weeks from sowing. These plants should be removed/discarded at transplant. Jolt Purple is more sensitive to paclobutrazol than others and the rate should be reduced to half of others.

Growing on to Finish

Growing on Temperature	Target Media pH/EC (1:2)	Fertiliser	Daylength
(day) 65-75°F (18-24°C) **(night)** 60°F (16°C)	5.8-6.2 pH 1.5-2.0 mmhos/cm	175 to 225 ppm N (1.2 to 1.5 EC)	Facultative Long Day

Daylength Notation

Will flower under all photoperiods but ~1 week earlier at 15 hours (LD) than 10 hours (SD). At a given photoperiod, plants flower up to 1.5 weeks faster under high daily light integral than low.

Crop Scheduling

Container Size	Plugs/Pot	Crop Time	Season	PGR
4"/4.5"/Quart/10 cm	1 (ppp)	14-18 (weeks)	Spring	paclobutrazol 20 ppm Spray
5"/6"/1 Gallon/15 cm	1-3 (ppp)	14-18 (weeks)	Spring	paclobutrazol 20 ppm Spray
4"/4.5"/Quart/10 cm	1 (ppp)	11-13 (weeks)	Summer	paclobutrazol 20 ppm Spray
5"/6"/1 Gallon/15 cm	1-3 (ppp)	11-13 (weeks)	Summer	paclobutrazol 20 ppm Spray

Fertiliser Notation

Starting a week after transplant, apply fertilizer at rate 3 (175 to 225 ppm N/1.2 to 1.5 mS/cm) once a week from a nitrate-based fertilizer with low phosphorus.

Common Problems

Insects: Thrips, Mites

Finishing Key Tips

Temperature and light intensity have greater impact on flowering, especially during Winter and early Spring. Jolt will benefit from being grown under high light levels and is a facultative/quantitative long-day plant. It can flower under different daylengths, but will take slightly longer to flower under short days than long days. A small percentage (up to 3%) of early off-types can be observed with Jolt dianthus at 4 to 5 weeks from sowing. These plants should be removed/discarded at transplant. JoIt Purple is more sensitive to paclobutrazol than others and the rate should be reduced to half of others.

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

Variety Pictures


Cherry


Pink


Pink Magic


Purple

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