

Delphinium Diamonds Blue F₁

(*Delphinium grandiflorum*)

Perennials Culture (revised 02/22/19)

Plug crop time: 6 to 7 weeks

Transplant to finish: 10 to 12 weeks

- The first F₁ spurless delphinium from seed, Diamonds Blue eliminates the need for tissue culture inputs and is supplied with up to 25% higher germination than O.P. types for more efficient young plant production.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Early Spring, Spring	16-24 in. (41-61 cm)	10-12 in. (25-30 cm)	30-35 in. (76-89 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
RAW	288	1	6-7	5-7	5.8-6.0 pH 0.75 mmhos/cm	Yes

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3	Level 2	Level 2
Temperature	65-70°F (18-21°C)	65-68°F (18-20°C)	65-68°F (18-20°C)	60-65°F (16-18°C)
Light	Optional	2,000-2,500 f.c. (21,500-26,900 Lux)	2,000-2,500 f.c. (21,500-26,900 Lux)	4,000-5,000 f.c. (43,100-53,800 Lux)
Fertilizer	Less than 100 ppm N - Less than 0.7 EC	Less than 100 ppm N - Less than 0.7 EC	100 to 175 ppm N - 0.7 to 1.2 EC	100 to 175 ppm N - 0.7 to 1.2 EC

Vernalization

No

Propagation Key Tips

For forcing info: See Perennials Forcing Guide.

Avoid low light conditions.

Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
(day) 65-70°F (18-21°C) (night) 55-63°F (13-17°C)	5.6-6.2 pH 1.5-2.0 mmhos/cm	225 to 300 ppm N - 1.5 to 2.0 EC	Facultative Long Day

Crop Scheduling

Crop Type	Container Size	Plugs/Pot	Crop Time	Season	PGR
Annual	5"/6"/1 Gallon	1-3 (ppp)	10-12 (weeks)	Summer	paclobutrazol 20 ppm Spray
Annual	5"/6"/1 Gallon	1-3 (ppp)	12-14 (weeks)	Spring	paclobutrazol 20 ppm Spray
Annual	8"/2 Gallon	3 (ppp)	10-12 (weeks)	Summer	paclobutrazol 20 ppm Spray
Annual	8"/2 Gallon	3 (ppp)	12-14 (weeks)	Spring	paclobutrazol 20 ppm Spray

Fertilizer Notation

Starting 1 week after transplant, apply fertilizer at rate 4 (225 to 300 ppm N/1.5 to 2.0 mS/cm) once a week using a predominately nitrate-based fertilizer with low phosphorus and high potassium.

Maintain the media EC at 1.5 to 2.0 mS/cm and pH at 5.8 to 6.2. For a constant fertilizer program, fertilizer at rate 3 (175 to 225 ppm N/1.2 to 1.5 mS/cm) can be applied, while maintaining the above recommended EC and pH ranges.

Common Problems

Insects: Aphids Diseases: Powdery Mildew

Finishing Key Tips

Avoid planting plugs too deep. Maintain good fertilization, especially at flower initiation. Monitor for Aphids, Botrytis, Powdery Mildew.

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



Diamonds Blue



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PanAmericanSeed™

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