

## Delphinium Diamonds Blue F<sub>1</sub>

(*Delphinium grandiflorum*)

Perennials Culture (revised 01/20/21)

**Plug crop time:** 6 to 7 weeks

**Transplant to finish:** 10 to 12 weeks

- The first F<sub>1</sub> 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 from 50% to maximum germination	Initial Media pH/EC (1:2)	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
<b>Moisture</b>	Level 4	Level 3	Level 2	Level 2
<b>Temperature</b>	65-70°F (18-21°C)	65-68°F (18-20°C)	65-68°F (18-20°C)	60-65°F (16-18°C)
<b>Light</b>	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)
<b>Fertilizer</b>		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 (1:2)	Fertilizer	Daylength
<b>(day)</b> 65-70°F (18-21°C) <b>(night)</b> 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

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Crop Type	Container Size	Plugs/Pot	Crop Time	Season	PGR
Annual	5"/6"/1 Gallon/15 cm	1-3 (ppp)	10-12 (weeks)	Summer	paclobutrazol 20 ppm Spray
Annual	5"/6"/1 Gallon/15 cm	1-3 (ppp)	12-14 (weeks)	Spring	paclobutrazol 20 ppm Spray
Annual	8"/2 Gallon/20 cm	3 (ppp)	10-12 (weeks)	Summer	paclobutrazol 20 ppm Spray
Annual	8"/2 Gallon/20 cm	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

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Diamonds Blue

PanAmericanSeed™

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