

## Delphinium Blue Donna

(*Delphinium x belladonna*)

Perennials Culture (revised 02/25/20)

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:** 12 to 16 weeks

- True blue Delphinium has improved uniformity and colour, increased productivity and more stems per sq. ft./sq. m.

### General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Late Spring, Summer, Late Summer	32-40 in. (81-102 cm)	8-10 in. (20-25 cm)	

### Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
RAW	288	1	6-8	7-10	5.8-6.2 pH 0.75 mmhos/cm	Yes

### Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
<b>Moisture</b>	Level 4	Level 3	Level 2-3	Level 2
<b>Temperature</b>	68-72°F (20-22°C)	65-68°F (18-20°C)	65-68°F (18-20°C)	60-65°F (16-18°C)
<b>Light</b>	Optional	6-8 mol·m <sup>-2</sup> ·d <sup>-1</sup>	6-8 mol·m <sup>-2</sup> ·d <sup>-1</sup>	6-8 mol·m <sup>-2</sup> ·d <sup>-1</sup>
<b>Fertilizer</b>	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.

Spray damp-off fungicide.

### Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
(day) 65-70°F (18-21°C) (night) 57-60°F (14-16°C)	5.8-6.2 pH 1.3-1.6 mmhos/cm	175 to 225 ppm N - 1.2 to 1.5 EC	Day Neutral

### 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)	11-13 (weeks)	Spring	paclobutrazol 20 ppm Spray

### Fertilizer Notation

Container production: Fertilize every other irrigation with 15-0-15 at 150 to 200 ppm.

## Common Problems

Insects: Aphids, Cut Worms Bacterial Diseases: Powdery Mildew

## Finishing Key Tips

See Cut Flower section for cut flower production for both field and greenhouse. Monitor for 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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