

## Cheron Series Incarvillea

*I. sinensis*

Approximate seed count (raw): 38,275-52,445 S./oz.  
(1,350-1,850 S./g)

### Plug Production

#### Media

Use a well-drained, disease-free media with a pH of 5.5 to 6.3 and an EC of 0.75 mmhos/cm.

#### Sowing

Sow 2-3 seeds per cell in 288 or larger plug tray.  
Covering seed lightly with vermiculite is advised.

**Stage 1** – Germination takes 4 to 6 days.

**Soil Temperature:** 65 to 68°F (18 to 20°C)

**Light:** Not required but beneficial.

**Moisture:** Maintain the moisture level constantly medium moist to medium wet (level 3 to 4) in Stage 1.

**Humidity:** Maintain 95 to 97% relative humidity (RH) until cotyledons emerge.

#### Stage 2

**Soil temperature:** 68 to 72°F (20 to 22°C)

**Light:** Can be up to 2,500 f.c. (26,900 Lux).

**Moisture:** Reduce media moisture slightly towards medium moist (level 3).

**Fertilizer:** Apply fertilizer at rate 1 (less than 100 ppm N/less than 0.7 mS/cm EC).

#### Stage 3

**Soil temperature:** 68 to 72°F (20 to 22°C)

**Light:** Can be up to 2,500 f.c. (26,900 Lux).

**Moisture:** Maintain the moisture level constantly medium moist (level 3).

**Fertilizer:** Apply fertilizer at rate 1 (less than 100 ppm N/less than 0.7 mS/cm EC). Do not fertilize plug heavier than 100 ppm or EC greater than 0.7 mS/cm as it could stimulate stretch with long internodes.

**Growth Regulators:** Generally not needed, but if necessary B-Nine/Alar (daminozide) 2,500 ppm (3.0 g/l 85% formulation or 4.0 g/l of 64% formulation) can be used.

#### Stage 4

**Soil temperature:** 68 to 72°F (20 to 22°C).

Avoid toning plugs at a cooler temperature as it could shock plants and will take time to resume plant growth after transplanting.

**Moisture:** Same as Stage 3.

**Fertilizer:** Same as Stage 3.

**General remark for plug stage:** Spray preventively against fungi after sowing.

### Growing On to Finish

#### Media

Use a well-drained, disease-free media with a pH of 5.5 to 6.3 and an EC of 0.75 mmhos/cm.

#### Temperature

**Nights:** 63 to 65°F (17 to 18°C)

**Days:** 67 to 70°F (19 to 21°C)

Incarvillea is a warm season crop. Cooler conditions could significantly delay flower timing, especially for Cheron Pink.

#### Light

Maintain light levels as high as possible.

#### Photoperiod

Incarvillea Cheron is a day-neutral plant.

#### Irrigation

Moderate; maintain the moisture level constantly medium moist (level 3).

#### Fertilizer

Apply fertilizer every other week at rate 3 (175 to 225 ppm N/1.2 to 1.5 mS/cm) using predominantly nitrate form fertilizer with low phosphorus to avoid plant stretch.

#### Growth Regulators

Plant final height does not respond very well to plant growth regulators, but Topflor (flurprimidol) about 15 ppm (4.0 ml/l 0.38 formulation) spray could make plant stronger with darker foliage and slight height control. Avoid using B-Nine/Alar in later application as it could significant delay flowering.

## Pinching

Not necessary.

## Crop Scheduling

**Sow to transplant (288 cell plug):** 3 to 4 weeks

**Transplant to flower:**

Container Size	Plants Per Pot	Weeks From Transplant	Total Weeks
4-in. (10.5-cm)	1	7-8	10-12
5-in. (13-cm)	1	8-9	11-13

Note: Pink takes approximate 7 to 10 days longer crop time compared to White.

## Common Problems

**Insect:** Aphid, Whitefly

**Disease:** *Botrytis*

## Note:

Growers should use the information presented here as a starting point. Crop times will vary depending on the climate, location, time of year and greenhouse environmental conditions. Chemical and PGR recommendations are only guidelines. It is the responsibility of the applicator to read and follow all the current label directions for the specific chemical being used in accordance with all regulations.

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