

## Sunflower Ballad F<sub>1</sub>

(*Helianthus annuus*)

Potted Plants Culture (revised 01/18/21)

**Plug crop time:** 2 to 3 weeks

**Transplant to finish:** 8 to 9 weeks

- Excellent florist gift item or indoor plant; also well-suited to warm landscape markets like Florida.
- Pollen-free, dwarf sunflower produces well-formed, 4 to 5-in./10 to 13-cm flowers.
- Flowers at short height under short days; under long Summer days, plants are taller without growth regulators.

### General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Summer, Late Summer	24-30 in. (61-76 cm)	6-8 in. (15-20 cm)	6-10 in. (15-25 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
TRT	288	1	2-3	3-5	5.5-6.0 pH 0.75 mmhos/cm	Yes

### Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
<b>Moisture</b>	Level 4	Level 3-4	Level 2	Level 2
<b>Temperature</b>	68-72°F (20-22°C)	68-72°F (20-22°C)	64-72°F (18-22°C)	61-72°F (16-22°C)
<b>Light</b>	Optional	1,000-2,500 f.c. (10,800-26,900 Lux)	1,000-2,500 f.c. (10,800-26,900 Lux)	2,500-5,000 f.c. (26,900-53,800 Lux)
<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)

### Propagation Key Tips

Can also be propagated by direct sowing when grown in smaller pots (4-in./10 cm, 4.5-in./11-cm, 5-in./13-cm).

### Growing on to Finish

Growing on Temperature	Target Media pH/EC (1:2)	Fertilizer	Daylength
<b>(day)</b> 64-72°F (18-22°C) <b>(night)</b> 61-64°F (16-18°C)	5.8-6.2 pH 1.5-2.0 mmhos/cm	100 to 175 ppm N (0.7 to 1.2 EC)	Facultative Short Day

### Daylength Notation

Can flower under different daylengths, but will flower slightly quicker under short days.

### Crop Scheduling

Container Size	Plugs/Pot	Crop Time	Season	PGR
5"/6"/1 Gallon/15 cm	1-3 (ppp)	8-9 (weeks)	Spring	daminozide 3,500-5,000 ppm Spray
5"/6"/1 Gallon/15 cm	1-3 (ppp)	7-8 (weeks)	Summer	daminozide 3,500-5,000 ppm Spray

## Finishing Key Tips

Plants grow shorter under short days. Plants will grow taller under longer days when no PGRs are applied. We recommend 1 ppp in 5-in. (13-cm) pots and 1 to 3 ppp in gallon pots.

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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