

(*Helianthus annuus*)

Annuals Culture (revised 09/12/25)

Tall and strong-stemmed, these golden-yellow flowers with dark centres keep coming all season on highly branched plants for a stunning display in landscapes and gardens.

Transplant to finish: 7 to 9 weeks

- More compact in the greenhouse for easier production.
- Well-branched plants don't need to be pinched for a fast finish.
- Long lasting in the landscape, at least 2 weeks longer than the competition.
- Blooms are 100% pollen free, with lots of nectar that makes them a favourite with beneficial insects.
- Great for home garden cut flowers.

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Summer, Late Summer, Autumn	40-62 in. (102-157 cm)	30-40 in. (76-102 cm)	18-24 in. (46-61 cm)

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
RAW	128	1	2-3	3-5	5.5-6.0 pH	Heavy cover
	72	1	3-4		0.75 mmhos/cm	

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 2	Level 2
Temperature	64-77°F (18-25°C)	64-72°F (18-22°C)	64-72°F (18-22°C)	61-72°F (16-22°C)
Light	Optional			
Fertiliser	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)
PGR	paclobutrazol/2 ppm/Sprenc			

Apply paclobutrazol 2 ppm spreng at radial emergence stage to prevent stretching. When the plugs are grown under long days (14 hours or longer) or night interruption for 2 weeks, they will flower faster, regardless of subsequent daylength after transplanting.

Growing on Temperature	Target Media pH/EC	Fertiliser	Daylength
(day) 64-72°F (18-22°C) (night) 61-64°F (16-18°C)	5.8-6.2 pH 1.5-2.0 mmhos/cm	150 to 175 ppm N (1.0 to 1.2 EC)	Facultative Long Day

Facultative long day plant has a critical daylength of about 13 hours, but will flower at the same time under any daylength if plugs are given a 2-week long day (14 hours or longer) or night interruption treatment. In other words, a long day treated plug will flower faster by about 2 weeks during Spring production.

Crop Scheduling

Container Size	Plugs/Pot	Crop Time	Season	PGR
5"/6"/1 Gallon/15 cm	1 (ppp)	6-9 (weeks)	Late Spring	paclobutrazol 3 ppm Drench
8"/2 Gallon/20 cm	1 (ppp)	6-9 (weeks)	Late Spring	paclobutrazol 3 ppm Drench
12" Pot or HB/5 Gallon/30 cm	1-3 (ppp)	7-9 (weeks)	Late Spring	paclobutrazol 3 ppm Drench
5"/6"/1 Gallon/15 cm	1 (ppp)	6-8 (weeks)	Summer	paclobutrazol 3 ppm Drench
8"/2 Gallon/20 cm	1 (ppp)	6-8 (weeks)	Summer	paclobutrazol 3 ppm Drench
12" Pot or HB/5 Gallon/30 cm	1-3 (ppp)	7-8 (weeks)	Summer	paclobutrazol 3 ppm Drench

Common Problems

Insects: aphids, thrips, whitefly. Diseases: botrytis, downy mildew, powdery mildew

Finishing Key Tips

For a branched plant with multiple flowerheads, give a hard pinch at the 6 to 7 internode stage, leaving 4 internodes on the plant. This adds 10 to 14 days to flower timing. Can repeat a paclobutrazol 3 ppm drench in 2-week intervals as needed.

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.



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