

## Marigold (French) Bonanza™ Series

(*Tagetes patula*)

Annuals Culture (revised 01/14/21)

### Bigger blooms + better performance

The market leader in French marigolds, Bonanza is the series to choose when you want to pump up your pack sales. This popular series delivers earliness, large flowers, uniformity and superior performance under a wide range of conditions.

**Plug crop time:** 3 weeks

**Transplant to finish:** 3 to 4 weeks

- Double crested flowers are the largest of any in this type – 2 to 3 in./5 to 8 cm across – in a wide range of pure, intense colours.
- Fast to flower with a tight flowering window.
- Excellent garden performers under a wide range of conditions.

## General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Spring, Late Spring, Summer, Late Summer	10-12 in. (25-30 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
COT, DTL	288	1	3-4	2-3	6.2-6.5 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 3	Level 3
<b>Temperature</b>	70-72°F (21-22°C)	68-72°F (20-22°C)	68-75°F (20-24°C)	68-75°F (20-24°C)
<b>Light</b>	Optional			
<b>Fertiliser</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)

### Fertiliser Notation

Use a nitrate-based fertilizer with low phosphorus.

### Propagation Key Tips

Maintain soil pH of 6.2 to 6.5 to avoid iron toxicity.

## Growing on to Finish

Growing on Temperature	Target Media pH/EC (1:2)	Fertiliser	Daylength
(day) 65-68°F (18-20°C) (night) 60-62°F (16-17°C)	6.2-6.5 pH 1.0-1.5 mmhos/cm	100 to 175 ppm N (0.7 to 1.2 EC)	Facultative Short Day

## Crop Scheduling

Container Size	Plugs/Pot	Crop Time	Season	PGR
Cell Pack	1 (ppp)	3-4 (weeks)	Spring	-

## Fertiliser Notation

Starting 1 week after transplant, apply fertilizer at rate of 100 to 175 ppm N and 0.7 to 1.2 mS/cm using predominantly nitrate-based fertilizer with low phosphorus. Maintain the media EC at 1.0 to 1.5 mS/cm and pH at 6.2 to 6.5. For constant fertilizer program, fertilizer can be applied at a rate of 75 to 100 ppm N 0.5 to 0.7 mS/cm while maintaining the above recommended EC and pH ranges.

## Common Problems

Insects: Aphids, Mites, Whiteflies Diseases: Damping off in the seedling stage

## Finishing Key Tips

Maintain soil pH of 6.2 to 6.5 to avoid iron toxicity.

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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Bee



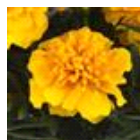
Bolero



Deep Orange



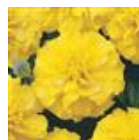
Flame



Gold



Harmony



Yellow



Mixture



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