

Marigold (African) Vanilla F₁

(*Tagetes erecta*)

Annuals Culture (revised 03/14/17)

Plug crop time: 3 weeks

Transplant to finish: 7 to 8 weeks

- Fully double heads have tight centres that shed water and avoid turning brown longer.
- Each double, creamy white bloom is 2.5 to 3 in./6 to 8 cm across atop darker green foliage.
- Plants flower to match Marvel series timing – grow both to offer a full colour range.
- Well-suited to beds, borders and large mixed containers.

General Information

| Exposure | Bloom Season | Height | Spread | Spacing |
|----------|--|-------------------|-------------------|------------------------|
| Sun | Spring, Late Spring, Summer, Late Summer | 16 in. (41 cm) | 10 in. (25 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 |
|-----------|-----------------------|------------|-----------------|-------------------|-----------------------------|------------|
| 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 |
|--------------------|--|---|--|----------------------------------|
| Moisture | Level 4 | Level 3-4 | Level 3 | Level 3 |
| Temperature | 70-72°F (21-22°C) | 65-72°F (18-22°C) | 65-70°F (18-21°C) | 65-70°F (18-21°C) |
| Light | Optional | 1,000-2,500 f.c. (10,800-26,900 Lux) | 3,000 f.c. (32,300 Lux) | 3,000 f.c. (32,300 Lux) |
| Fertilizer | Less than 100 ppm N - Less than 0.7 EC | 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 |

Propagation Key Tips

Keep soil moisture high until radicle emergence; reduce moisture levels after radicle penetrates the medium. Maintain soil pH of 6.2 to 6.5 to avoid iron toxicity. Higher temperatures inhibit germination, shorten crop time and cause stretching. PGRs are not generally required.

Growing on to Finish

| Growing on Temperature | Target Media pH/EC | Fertilizer | Daylength |
|--|--------------------------------|----------------------------------|-----------------------|
| (day) 65-68°F (18-20°C) (night) 60-62°F (16-17°C) | 6.2-6.8 pH 1.0-1.5 mmhos/cm | 100 to 175 ppm N - 0.7 to 1.2 EC | Facultative Short Day |

Daylength Notation

Will flower quicker when the daylength is 12 hours or shorter. When grown at daylength longer than 12 hours, it will take an additional 10 to 14 days to flower.

Crop Scheduling

| Container Size | Plants/Pot | Crop Time | Season | PGR |
|----------------|------------|-------------|--------|-----|
| 4"/4.5"/Quart | 1 (ppp) | 7-8 (weeks) | Spring | - |

Fertilizer Notation

Starting 1 week after transplant, apply fertilizer at rate 3 (175 to 225 ppm N/1.2 to 1.5 mS/cm) using a predominantly nitrate-based fertilizer with low phosphorus. Maintain the media EC at 1.5 to 2.0 mS/cm and pH at 6.2 to 6.5. For constant fertilizer program, can apply fertilizer at rate 2 (100 to 175 ppm N/0.7 to 1.2 mS/cm) while maintaining the above recommended EC and pH ranges.

Common Problems

Insects: Monitor for Aphids early in production, and for Thrips and Mites during flowering.

Finishing Key Tips

Maintain soil pH of 6.2 to 6.5 to avoid iron toxicity. Plant Growth Regulators: PGRs are not required when grown under short days, since plants will finish naturally shorter. Treat with PGRs when grown under long days. Daminozide at 5,000 ppm applied twice as a foliar spray can control the plant growth. In northwestern Europe, use daminozide at 1,300 to 2,000 ppm.

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.

Variety Pictures



Vanilla



Vanilla

PanAmericanSeed™

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