PanAmerican Seed.

GROWER FACTS

Vanilla Improved Marigold

NOTE: Marketed as Vanilla in North America and Vanilla Improved outside of North America.

Tagetes erecta

Seed Count: 9,000 to 10,000 S./oz. (317 to 352 S/g)

Plug Production Plug Tray Size

Can be best produced in a 288, 200 or a similar cell size plug tray.

Media

Use a well-drained, disease-free, soilless medium with a pH of 6.2 to 6.5 and a medium initial nutrient charge (EC) of 0.75 mmhos/cm (1:2 extraction).

Sowing

Cover the seed with coarse vermiculite. Allow 3 to 4 days for germination.

Temperature

Germination: 70 to 72°F (21 to 22°C) Cotyledon stage: 65 to 72°F (18 to 22°C) **True leaves:** 65 to 70°F (18 to 21°C) **Hold plugs:** 65 to 68°F (18 to 20°C)

Stage 1: Light is not required for germination **After germination:** 1,000 to 2,500 f.c. (10,600 to

26,500 Lux)

Seedling maturity: Up to 3,000 f.c. (31,800 Lux)

Humidity

Maintain 95% relative humidity (RH) until cotyledons emerge.

Soil Moisture

Keep soil moisture high until radicle emergence, then reduce moisture levels after the radicle penetrates the medium. Do not allow seedlings to wilt.

Fertilizer

Stages 2 & 3: Apply 50 to 75 ppm N, maintaining an EC of 1.0.

Growth Regulators PGRs are not required.

Stage 4: Apply 100 to 150 ppm N, maintaining an

EC of 1.0 to 1.5. Maintain pH in the range of 6.0 to

Growing On to Finish Container Size

Can be produced in 4.5-in. (11-cm) or similar size containers.

Media

6.5.

Use a well-drained, disease-free, soilless medium with a pH of 6.2 to 6.5 and a medium initial nutrient

Temperature

Nights: 60 to 62°F (15 to 17°C) **Days:** 65 to 75°F (18 to 24°C)

Keep light levels from moderate to high.

Irrigation

Maintain even moisture. Do not allow plants to wilt.

Fertilizer

Feed plants weekly with 150 to 200 ppm N with a complete fertilizer. Maintain the media EC at 1.5 to 2.0 mmhos/cm and pH at 6.2 to 6.8.

Growth Regulators

PGRs are not required.

Crop Scheduling

Sow to transplant (288 cell plug tray): 3 weeks Transplant to finish in 4.5 (11 cm) pot: 8 to 9 weeks

Total crop (sow to flower): 11 to 12 weeks

Common Problems

Diseases: Damping off in the seedling stage

Insects: Aphids, mites, whitefly

PanAmerican Seed.

PanAmSeed.com

PanAmerican Seed Co. 622 Town Road West Chicago, Illinois USA 60185-2698 630 231-1400 Fax: 630 231-3609

PanAmerican Seed Europe BV Lavendelweg 10 NL-1435 EW Rijsenhout, Holland +31 (0)297-383038 Fax: +31 (0)297-383036