



Madame Butterfly™ Mix

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# Snapdragon Madame Butterfly™

## Culture Guide

**Botanical name:** *Antirrhinum majus*

**Product form:** Seed

**Containers:** Quarts, Gallons

**Habit:** Upright

### Garden Specifications

**Garden Height:** 24–30" (60–75 cm) tall

**Garden Width:** 14–16" (35–40 cm) wide

**Exposure:** Full sun

**USDA zone:** 9–11

**AHS zone:** 12–1

**Product use:** Containers, Landscapes, Patio Pots, Combos

### Germination

Stages 1 & 2

**Germination time:** 5 days

**Media temp:** 72–75 °F (22–24 °C)

**Chamber:** Optional

**Light:** Not required for germination

**Seed cover:** Yes

**Moisture level: 4 - WET:** Soil is dark brown but not shiny, no free water is seen at the surface of the soil, when pressed or squeezed water drips easily, and trays are heavy with a visible bend in the middle.

**Rec. tray size:** 288-cell tray

**Seeds per cell:** 1

### Young Plant Production

Stages 3 & 4

### Temperature

**Day:** 66–68 °F (19–20 °C)

**Night:** 66–68 °F (19–20 °C)

**Average daily temperature:** 67 °F (19 °C)

### Lighting

**Day extension lighting:** Beneficial to 14 hours

**Light intensity:** 2,000–3,000 foot candles (400–600 micro mols)

**Day length response:** Facultative long day

**Daily light integral:** 10–12 mols/day

**Media pH:** 5.5–5.9

**Media EC:** SME 0.5 to 0.75 mS/cm

**Fertilizer:** 50–75 ppm N

**Moisture level:** Media should be allowed to dry between irrigations. Alternate between moisture level 2 and 4.

**2 - MEDIUM:** Soil is light brown in color, no water can be extracted from soil, and soil will crumble apart.

**4 - WET:** Soil is dark brown but not shiny, no free water is seen at the surface of the soil, when pressed or squeezed water drips easily, and trays are heavy with a visible bend in the middle.

**Pinching:** No

**Plant growth regulators (PGRs):** If needed spray applications of B-Nine® WSG at 2,500–3,750 ppm, Bonzi® at 5–8 ppm or A-Rest® at 2–4 ppm are effective to tone plugs.

**Plug grow time:** 6–7 weeks in a 288-cell tray

**Comments:** High pH levels (above 6.2) may promote iron deficiency causing chlorotic young leaves. Overly wet conditions or watering late in the day can cause shoot tip abortion. Keeping the media too wet can also lead to root rot diseases such as Pythium.

### Finishing

#### Temperature

**Day:** 64–66 °F (18–19 °C)

**Night:** 56–58 °F (13–14 °C)

**Average daily temperature:** 60 °F (20 °C)

#### Lighting

**Day extension lighting:** Beneficial to 14 hours

**Light intensity:** 4,000–6,000 foot candles

**Day length response:** Facultative long day

**Daily light integral:** 14–16 mols/day

**Transplanting:** Transplant directly into the finished container. Place the rooting media slightly above the level of media in the container. Make sure that the root ball is covered and that the plug is situated in the center of the pot. Snapdragons have relatively weak root systems so it is best to dislodge the plugs prior to pulling from the plug tray.

**Media pH:** 5.5–5.9

**Media EC:** SME EC: 0.9–1.3 mS/cm, PourThru EC: 1.4–2.0 mS/cm

**Fertilizer:** 125–175 ppm N

**Pinching:** No. Pinching is not recommended or needed.

**Plant growth regulators (PGRs):** Spray applications of B-Nine® WSG at 2,500–5,000 ppm, Bonzi® at 15–20 ppm or Sumagic® at 10–15 ppm are effective to control growth; 1–2 applications are usually sufficient. Do not apply Bonzi® drenches after visible buds to prevent clubby flowers.

**Tech tip:** Handle plugs gently when transplanting, as Snapdragons have relatively weak root systems. Do not bury the stem to avoid stem rot diseases. Control Thrips to avoid TSWV or INSV infections. For early crops grown under short days, provide day extension lighting. Grow cool and under high light for the strongest stems.



Try Chrysal Alesco®, a postharvest foliar spray, to protect ethylene sensitive crops during shipping and retail

**Moisture level:** Media should be allowed to dry between irrigations. Alternate between moisture level 2 and 4.

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**4 - WET:** Soil is dark brown but not shiny, no free water is seen at the surface of the soil, when pressed or squeezed water drips easily, and trays are heavy with a visible bend in the middle.

**Common pests:** Thrips, Aphids, Spider Mites

**Common diseases:** Botrytis, Downy mildew, Powdery mildew, Pythium, Rust, Tospovirus (INSV and TSWV)

## Scheduling

| Size   | Crop Time   | Plants Per Pot |
|--|-------------|----------------|
| 1.0 quart<br>(4.5 to 5 inch)                         | 10–12 weeks | 1–2 ppp        |
| 1.25 to 2.5 quart<br>(5.5 to 6.5 inch, trade gallon) | 10–12 weeks | 2–3 ppp        |
| 3.0 quart to 2.0 gallon<br>(7.5 to 10 inch)          | 10–12 weeks | 3–5 ppp        |

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 60 °F (20 °C).

## Example crop schedule for a 1.0 quart

| Weeks From Transplant | Description  |
|-----------------------|--|
| 1 week                | Provide day extension lighting if grown under short days |
| 4 weeks               | Spray with plant growth regulators (PGRs) if needed      |
| 7 weeks               | Spray with plant growth regulators (PGRs) if needed      |
| 10 weeks              | Ready to ship  |



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