



Bossa Nova™ Yellow

syngenta *flowers*

Begonia Bossa Nova™

Culture Guide

Botanical name: *Begonia boliviensis*

Product form: Seed

Containers: Pints, Quarts, Gallons, Hanging Baskets

Habit: Semi-Trailing

Garden Specifications

Garden Height: 12–16" (30–40 cm) tall

Garden Width: 16–20" (40–50 cm) wide

Exposure: Full sun to shade

USDA zone: 9–11

AHS zone: 11–1

Product use: Containers, Hanging Baskets, Patio Pots, Combos

Germination

Stages 1 & 2

Germination time: 14 days

Media temp: 72–78 °F (23–25 °C)

Chamber: Optional

Light: Not required for germination

Seed cover: No

Moisture level: 5 - SATURATED: Soil is dark brown and shiny, free water is present at the surface of the soil, water drips freely from the bottom of the tray, 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: 70–72 °F (21–22 °C)

Night: 68–70 °F (20–21 °C)

Average daily temperature: 70 °F (21 °C)

Lighting

Day extension lighting: Necessary to 14 hours

Light intensity: 1,500–3,000 foot candles (300–600 micro mols).

Day length response: Obligate long day

Daily light integral: 8–10 mols/day

Media pH: 5.5–5.9

Media EC: SME 0.5 to 0.75 mS/cm

Fertilizer: 100–150 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): PGRs are usually not required in the plug stage. However, if growing a large plug such as a 72-cell a spray of Cycocel® at 250 ppm or B-Nine® WSG at 500–750 ppm will help tone plugs.

Plug grow time: 7–9 weeks in a 288-cell tray

Comments: Irrigate early in the day to avoid leaf scorch when high light levels are present. Allowing the soil surface to dry between irrigations will reduce algae growth.

Finishing

Temperature

Day: 66–68 °F (19–20 °C)

Night: 58–60 °F (14–16 °C)

Average daily temperature: 63 °F (17 °C)

Lighting

Day extension lighting: Not necessary

Light intensity: 2,000–4,000 foot candles

Day length response: Obligate long day

Daily light integral: 10–12 mols/day

Transplanting: Transplant directly into the finished container. Place the rooting media slightly above the level of media in the container. Make sure the root ball is covered and that the plug is situated in the center of the pot.

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: 200–250 ppm N

Pinching: No. Pinching is not recommended or needed.

Plant growth regulators (PGRs): Proper management of moisture, fertilizer, and light is the best way to control growth. If needed, Bossa Nova Begonia responds well to sprays of B-Nine® WSG at 1,500–2,500 ppm.

Tech tip: Day length is critical to achieve the best quality—maintain a minimum of 14-hour days for more showy plants. Do not bury the plug when transplanting to avoid crown rot. Irrigate early in the day to avoid leaf scorch when high light levels are present. Avoid the use of high ammonium fertilizers since they will promote larger, softer leaves. If planting multiple plugs per container, make sure the leaves are pointed to the rim of the container so that flowers will be more visible.

Scheduling

Size	Crop Time	Plants Per Pot
1.0 pint (4 inch)	7–8 weeks	1 ppp
1.0 quart (4.5 to 5 inch)	8–9 weeks	1 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	8–10 weeks	1–2 ppp
3.0 quart to 2.0 gallon (7.5 to 10 inch)	8–10 weeks	3–5 ppp
1.5 gallon hanging basket (10 inch basket)	8–10 weeks	3–5 ppp
2.0 gallon hanging basket (12 inch basket)	8–10 weeks	5–7 ppp
3.0 gallon hanging basket (14 inch basket)	8–10 weeks	7–9 ppp

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 63 °F (17 °C).

Example crop schedule for a 2.0 gallon hanging basket

Weeks From Transplant	Description
4 weeks	Scout for Thrips
6 weeks	Spray with B-Nine® WSG at 1,500–2,500 ppm if needed. Scout for Thrips
8 weeks	Scout for Thrips
10 weeks	Ready to ship



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Common pests: Fungus gnats and Shore flies (during propagation), Thrips

Common diseases: Pythium, Botrytis



Bossa Nova™ Night Fever Papaya

syngenta® flowers

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