



Echinacea Prairie Blaze™

syngenta.flowers

Culture Guide

Botanical name: Echinacea purpurea

Product form: Seed

Containers: Quarts, Gallons

Habit: Upright

Vernalization: Not required (First Year Flowering)

Garden Specifications

Garden Height: 14–16" (35–40 cm) tall **Garden Width:** 6–8" (15–20 cm) wide

Exposure: Full sun USDA zone: 3–9 AHS zone: 11–3

Product use: Containers, Landscapes, Combos

Germination Stages 1 & 2

Germination time: 4–6 days **Media temp:** 70–75 °F (21–24 °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: 2-4

Young Plant Production

Stages 3 & 4 **Temperature**

Day: 64–66 °F (18–19 °C) **Night:** 58–60 °F (14–16 °C)

Average daily temperature: 62 °F (17 °C)

Lighting

Day extension lighting: Not necessary

Light intensity: 200–250 µmol·m⁻²·s⁻¹ for the first two weeks after sowing or until root development occurs. Light levels can be increased up to 600 µmol·m⁻²·s⁻¹ as rooting increases and the seedling matures.

Day length response: Obligate long day Daily light integral: 10–12 mol·m⁻²·d⁻¹

Media pH: 5.8–6.2

Media EC: SME EC: 0.9-1.3 mS/cm



Fertilizer: 125-175 ppm N

Moisture level: Media should be allowed to dry between irrigations. Alternate between moisture level 3 and 4. **3 - MOIST:** Soil is brown in color, strongly squeezing the soil will extract a few drops of water, and trays are light with no visible bend.

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): Configure® applied as a spray 1 to 2 times at 300–600 ppm has been shown to increase basal branching with little effect on plant height.

Plug grow time: 6–7 weeks in a 288-cell tray **Comments:** Grow plugs under short day conditions (<12 hours) to allow for bulking. Then provide long days to initiate flowering after approximately 7 true leaves are showing.

Bulking and Vernalization

Vernalization: Not required (First Year Flowering)

Finishing Temperature

Day: 74–76 °F (23–24 °C) **Night:** 64–66 °F (18–19 °C)

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







Lighting

Day extension lighting: Beneficial to 14 hours **Light intensity:** 1,200–1,600 µmol·m⁻²·s⁻¹ Day length response: Obligate long day **Daily light integral:** 16–18 mols/day

Transplanting: Transplant directly into the finished container. Place the rooting media slightly below 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.

Media pH: 5.8–6.2

Media EC: SME EC: 1.5–2.1 mS/cm, PourThru EC: 2.3–3.2

mS/cm

Fertilizer: 75–125 ppm N

Pinching: No. Pinching is not recommended or needed. Plant growth regulators (PGRs): While this is a naturally compact variety the following chemicals could be used. Bonzi® spray at 15 ppm using multiple applications, or Sumagic® spray at 5–10 ppm, or Bonzi® drench at 2–3 ppm but stop applications at visible buds.

Tech tip: While a first year flowering perennial, if grown at 40-50 °F (5-10 °C) for 6-10 weeks the plant will produce more branches and flower earlier.



CHRYSAL 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 3 and 4.

3 - MOIST: Soil is brown in color, strongly squeezing the soil will extract a few drops of water, and trays are light with no visible bend.

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: Aphids, Whiteflies

Common diseases: Powdery Mildew, Fusarium, Fungal

Leaf Spots

Schedulina

Size	Crop Time	Plants Per Pot
1.0 quart (4.5 to 5 inch)	10–12 weeks	1–2 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	10–12 weeks	3 ррр
3.0 quart to 2.0 gallon (7.5 to 10 inch)	10–12 weeks	3–4 ppp

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 70 °F (21 °C).

Example crop schedule for a 2.5 quart

Weeks From Transplant	Description	
1 week	Transplant three 288-cell plugs in the center of the pot	
5 weeks	Assess plant height for possible plant growth regulator (PGR) application	
7 weeks	Possible second plant growth regulator (PGR) application	
8 weeks	Apply Powdery mildew prevention spray	
10 weeks	Finish	

