



TigerEye™

RUDBECKIA

Minimum Germination Rate: 85%

Seed Product Form: Raw

FLOWERING

Time Frame when plants are receptive to flower initiation: 10 – 14 leaves present or about Days 21 – 35.

Flowering Type: Facultative Long Day Plant – long days enhance flowering.

Specific Flowering Mechanism: Maturity and long days trigger flowering.

PLUG CULTURE

Germination – Optimum conditions for seedling development that begins the day the crop is sown until cotyledon expansion.

Expect radicle emergence in 10 – 14 days.

Cover: No covering over the seed is required.

Media: pH: 6.0 – 6.2
EC: <1.0

Light: Light is necessary for germination. Provide a light source of 10 – 100 foot candles if utilizing a chamber.

Temperature: 75° – 78°F (24° – 25°C) till day 14.

Moisture: Begin with a wet (4+) level from day 1 – 10. On day 10, drop to moisture level (3) moist, and re-saturate to level (4) till day 21. Afterwards, begin alternating between moisture level wet (4) and medium (2).

Humidity: 100% from day 1 – 10 or until seed coats are shed.

Dehumidify: After seed coats have been shed, lower humidity to 40%. Provide horizontal airflow to aid in drying down the media through evapotranspiration, allowing better penetration of oxygen to the roots.

Plug Bulking/Flower Initiation – Optimum conditions during the vegetative period, beginning at cotyledon expansion, needed for the root to reach the edge of the plug cell; AND to make the plant receptive to flower initiation.

Media: pH: 6.0 – 6.2
Σ EC: 1.0 – 1.2

Light: Supplemental lighting at 350 – 500 foot candles at day 10 will enhance shoot and root growth. Beginning at the 10 – 14 leaf stage, two weeks or more of extended day-length (>13 hours of light) will hasten flowering.

Temperature: 72° – 74°F (22° – 23°C) from day 14 – 18. Afterwards reduce temperature to 70° – 74°F (20° – 23°C).

Average Daily Temperature (ADT): Constant day and night temperature 72° – 74°F (22° – 23°C). ADT: 73 F

Moisture: Alternate between moisture level wet (4) to medium (2). Allow the soil to approach level (2) before re-saturating to (4).

Fertilizers: Under high light conditions, apply an ammonium-based feed (17-5-17) at 50 – 75 ppm Nitrogen. Under low light conditions, apply a calcium-based feed (14-4-14) at 50 – 75 ppm Nitrogen.

Growth Regulators: If needed, spray B-Nine (daminozide) at 1250 – 2500 ppm or Sumagic (uniconazole) at 1-3 ppm.

Fungicides: Preventative fungicide may be applied between days 21 – 35 for Botrytis.

GROWING ON

Transplant Ready: 7 – 8 weeks from a '288' plug tray.

Finish Bulking/Flower Initiation – Optimum conditions during the vegetative period, beginning at transplant, needed for the root to reach the edge of the container; AND to make the plant receptive to flower initiation.

Media: pH: 6.0 – 6.2
EC: 1.5 – 1.75

Light: Provide 3500 – 4500 foot candles (12 – 15 moles of light, or 35,000 – 45,000 lux) to hasten flower development. Long days may enhance growth.

Temperature: 70° – 74°F (21° – 23°C) day and night time temperature.

Average Daily Temperature (ADT): 72°F (22°C).

Moisture: Alternate between moisture level wet (4), and medium (2). Allow soil to approach level (2) before re-saturating to (4).

Humidity: 40% – 70%.

Dehumidify: Provide horizontal airflow to aid in drying down the media through evapotranspiration, allowing better penetration of oxygen to the roots.

Fertilizers: Under high light conditions, apply an ammonium-based feed (17-5-17) at 100 – 150 ppm Nitrogen. Under low light conditions, apply a calcium-based feed (14-4-14) at 100 – 150 ppm Nitrogen. A weekly supplement of magnesium sulfate (Epsom salts) at 16 oz/100 gallons will enhance the foliage color.

Growth Regulators: It is best to control growth through moisture, feed and temperature management. If needed, apply sprays of B-Nine (daminozide) at 2500 – 5000 ppm, or Bonzi (paclobutrazol) at 2 – 4 ppm, or Sumagic (uniconazole) at 1 – 3 ppm.

Pre-Shipping Techniques to Enhance Post Harvest Quality

When to treat: 1 – 2 weeks prior to finish or shipping

Growth regulators: B-Nine (daminozide) at 2500 – 3000 ppm

Fertilizer: Potassium nitrate drench at 150 ppm Nitrogen

Common Diseases: Botrytis, Pythium. To reduce disease pressure monitor moisture and humidity levels, and use preventative fungicide drenches.

Common Pests: Fungus Gnats, Shore Flies, White Fly.

SCHEDULING

Total crop time: 14 – 17 weeks

'288' Plug crop time: 7 – 8 weeks

Transplant to finish crop time: Packs: 6 – 7 weeks (sold green)

4" crop: 9 – 11 weeks

6" crop: 9 – 12 weeks, depending on number of plugs transplanted into pot.

PRODUCT USE

Containers, mass plantings, combinations

GARDEN SPECIFICATIONS

Light: Full sun

USDA Hardiness Zone: 5

AHS Heat Zone: 12 – 1

Garden Height: 16" – 22" (40 – 55 cm)

Garden Width: 18" – 24" (45 – 60 cm)