GrowerFacts



Celery Tango

(Apium graveolens)

Germination

Stage 1 - Time of radicle emergence (8 to 10 days)

- Soil temperature 70 to 72°F (21 to 22°C).
- Soil pH 5.5 to 5.8 and soluble salts (EC) less than 0.75 mmhos/cm (2:1 extraction).
- Celery is very sensitive to high salts, particularly high ammonium, during germination.
- Keep ammonium levels to less than 10 ppm.
- Cover the seed with coarse vermiculite.

Plug Production

Stage 2 – Stem and cotyledon emergence (7 to 10 days)

- Soil temperature 62 to 65°F (17 to 18°C).
- Reduce moisture levels once radicle emergence occurs. Allow the soil to dry out slightly before watering for best germination and rooting. Keep soil pH to 5.5 to 5.8 and EC less than 0.75
- mmhos/cm.
- Keep ammonium levels to less than 10 ppm.
- Begin fertilizing with 50 to 75 ppm N from 14-0-14, 15-5-15 or a calcium/ potassium nitrate feed once cotyledons are fully expanded.
- Alternate feed with clear water.
- Irrigate early in the day so foliage is dry by nightfall to prevent diseases.

Stage 3 - Growth and development of true leaves (10 to 14 days)

- Soil temperature 62 to 65°F (17 to 18°C).
- Allow the soil to dry thoroughly between irrigations but avoid permanent wilting to promote root growth and control shoot growth.
- Maintain soil pH at 5.5 to 5.8 and EC less than 1.0 mmhos/cm.
- Increase feed to 100 to 150 ppm N from 20 10 20 alternating with 14 0 14, 15-5-15 or other calcium/ potassium nitrate fertilizer.
- Fertilize every 2 to 3 irrigations.
- Supplement with magnesium 1 to 2 times during this stage, using magnesium sulfate or magnesium nitrate. Do not mix magnesium sulfate with calcium nitrate as precipitate will form.

Stage 4 – Plugs ready for transplanting or shipping (7 days)

- Soil temperature 60 to 62°F (16 to 17°C).
- Allow soil to dry thoroughly between irrigations.
- Maintain soil pH at 5.5 to 5.8 and EC less than

- 0.75 mmhos/cm.
- Fertilize with 14-0-14, 15-5-15 or calcium/ potassium nitrate feed at 100 to 150 ppm N as needed.

Growing On to Finish

Temperature

- Night: 58 to 60°F (14 to 15°C)
- Day: 60 to 65°F (15 to 18°C)

Light

Maintain light levels as high as possible while maintaining moderate temperatures.

Media

Use a well-drained, disease-free soilless medium with a medium initial nutrient charge and a pH of 5.5 to 6.2.

Fertilization

- Fertilize every other irrigation with 15-0-15 or 15-5-15 alternating with 20-10-20 at 150 to 200 ppm nitrogen.
- Maintain medium electrical conductivity around 1.0 mmhos/cm (using 1:2 extraction).

Controlling Height

- Once plants are rooted to the sides of the containers, they can be allowed to wilt prior to irrigation to provide some height control.
- Height can also be controlled by withholding fertilizer, especially phosphorous and ammoniumform nitrogen.
- Chemical PGRs can not be used on most vegetables and herbs.

Post Production Care

Optimum Temperature

- Night: 62 to 65°F (17 to 18°C)
- Day: 65 to 70°F (18 to 21°C)
- Celery prefers cool temperatures; temperatures below 70°F (21°C) are recommended during retail
- Optimum conditions may be difficult to maintain, especially if plants are displayed outside.

LightCelery grows best in full sun; however partial shading may be beneficial during retail display.

Common Problems

Insects: Aphids, Whitefly, Fungus gnats

Diseases: Pythium, Rhizoctonia

