

## Cucumber Burpee Hybrid II

(*Cucumis sativus*)

### Germination

Sow directly into finishing container

- Time of radicle emergence (2-4 days)
- Soil temperature 70-75°F (21-24°C).
- Keep media very moist, near saturation.
- Seed are to be covered.
- Soil pH 5.8-6.2 and soluble salts (EC) to less than 0.75 mmhos/cm (2:1 extraction).
- Avoid high salts and particularly high ammonium during germination.
- Keep ammonium levels to less than 10 ppm.

### Plug Production

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After Stem and cotyledon emergence (7 days)

- Soil temperature 65-70°F (18-21°C).
- Reduce moisture levels. Allow the soil to dry out slightly before watering for best rooting.
- Keep soil pH 5.8-6.2 and EC to less than 0.75 mmhos/cm.
- Begin fertilizing with 50 75 ppm N from 14 0 14 or 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.

### Growing On to Finish

Growth and development after the development of true leaves (3-5 weeks)

#### TEMPERATURE

**Night:** 60-65°F (16-18°C)

**Day:** 65-70°F (18-21°C)

- Allow the soil to dry thoroughly between irrigations

but avoid permanent wilting to promote root growth and control shoot growth.

#### FERTILIZATION

- Increase feed to 100 150 ppm N from 20 10 20 alternating with 14 0 14 or 15-5-15 or other calcium/potassium nitrate fertilizer.
- Fertilize every 2nd 3rd irrigation.
- If using 15-0-15 supplement with magnesium 1 2x during this stage, using magnesium sulfate (16 oz/100 gal) or magnesium nitrate. Do not mix magnesium sulfate with calcium nitrate as precipitate will form!
- Maintain soil pH 5.8-6.2.

#### CONTROLLING HEIGHT

- Use DIF whenever possible, especially the first 2 hours after sunrise, to control plant height.
- Height can also be controlled by withholding fertilizer, especially phosphorous and ammonium-form nitrogen.
- Chemical PGR's can not be used on vegetables and herbs.

#### LIGHT

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

#### MEDIA

Use a well-drained, disease-free soil-less medium with a medium initial nutrient charge and a pH 5.8-6.2.

#### COMMON PROBLEMS:

**Insects:** White fly, Spider mites

**Diseases:** Fungal diseases

### Post Production Care

#### TEMPERATURE

Optimum temperatures for Cucumber:

**Night:** 62-65°F (17-18°C)

**Day:** 65-70°F (18-21°C)

- Optimum conditions may be difficult to maintain, especially if plants are displayed outside.

## LIGHT

Cucumbers grow best in full sun; however partial shading may be beneficial during retail display.

