GrowerFacts



Thyme Summer

(Thymus vulgaris)

Germination

- Time of radicle emergence (4-8 days)
- Soil temperature 68-70°F (20-21°Ć). Keep media very moist, near saturation.
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- Seed may be covered...
- Soil pH 5.5-5.8 and soluble salts (EC) less than 0.75 mmhos/cm (2:1 extraction).
- Thyme is very sensitive to high salts, particularly high ammonium, during germination.
- Keep ammonium levels to less than 10 ppm.

Plug Production

STAGE 1 - Time of radicle emergence (4-8 days)

- Soil temperature 68-70°F (20-21°C).
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- Seed may be covered...
- Soil pH 5.5-5.8 and soluble salts (EC) less than 0.75 mmhos/cm (2:1 extraction). Thyme is very sensitive to high salts, particularly
- high ammonium, during germination.
- Keep ammonium levels to less than 10 ppm.

STAGE 2 - Stem and cotyledon emergence (7 days)

- Soil temperature 65-70°F (18-21°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 5.5-5.8 and EC to less than 0.75
- mmhos/cm.
- Keep ammonium levels to less than 10 ppm.
- Begin fertilizing with 50 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 (14-20 days)

- Soil temperature 62-65°F (17-18°C).
- Allow the soil to dry thoroughly between irrigations ٠ but avoid permanent wilting to promote root growth
- and control shoot growth. Maintain soil pH 5.5-5.8 and EC less than 1.0 mmhos/cm.
- Increase feed to 100 150 ppm N from 20 10 20 alternating with 14 0 14, 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!

Use DIF whenever possible, especially the first 2 hours after sunrise, to control plant height.

STAGE 4 - Plants ready for transplanting or shipping (7 days)

- Soil temperature 62-65°F (17-18°C). •
- Allow soil to dry thoroughly between irrigations.
- Maintain soil pH 5.5-5.8 and EC to less than 0.75 mmhos/cm.
- Fertilize with 14 0 14, 15-5-15 or calcium/ potassium nitrate feed at 100 150 ppm N as needed.

Growing On to Finish

TEMPERATURE

- Night: 55-60°F (13-16°C)
- **Day:** 65-70°F (19-21°C) •

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 5.5-6.2.

FERTILIZATION

- Fertilize every other irrigation with 15-0-15, 15-5-15 alternating with 20-10-20 at 150 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.
- Thyme is responsive to day/night temperature differential (DIF), and is shorter with a negative DIF.
- Chemical PGR's can not be used on vegetables

and herbs.

COMMON PROBLEMS:

Insects: Spider mites, Aphids

Diseases: Fungal diseases

Post Production Care

TEMPERATURE

Optimum temperatures for Thyme:

- 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

Thyme prefers full sun. Partial shading may be beneficial during retail display.



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