Culture Sheet: *Technical Information for Growers*

Name: ***Tiarella*** **Common name:** foamflower

Scheduling Information

Available sizes: 72, LP32 Sales Window: late winter, summer

Plug size	72
Finish size	1 gal
Weeks to finish	7-10 wks
When to pot	Spring, late summer

Growing on to Finish

Media:	Professional potting media with adequate drainage
pH:	5.5-6.5
EC:	1.5-2.0
Irrigation:	Keep media evenly moist. Once plug rooted, allow media to slightly dry between waterings.
Fertilizer:	Light to moderate feeders. 150-200 ppm nitrogen as needed or 50-100 ppm nitrogen with every irrigation
Light:	Winter-early spring: natural light levels all locations. Summer – 35-55% shade in North and 80% shade in South
Temperature:	Rooting out: Growing: 50-65F Holding: 40-50F
Pest & Disease:	Aphid, black vine weevil, slug, whitefly. Botrytis, anthracnose, Phytophthora, powdery mildew, Pythium, Rhizoctonia, rust.
Vernalization:	For spring flower sales, pot in late summer and allow Tiarella to go through 12 wk winter dormancy. Will flower without vernalization but flower display improves with cold.

Grower Tips:

- Pot plug at soil level to prevent poor establishment and rotting
- Overly wet conditions make Tiarella susceptible to crown and root rot and make foliage chlorotic. Ensure proper moisture management and adequate air circulation to minimize disease risk.
- Cutting back winter foliage can delay bloom time for 1-2 weeks
- For late summer potting, allow plant at least 6 weeks to bulk up before winter dormancy
- For faster blooms in spring, grow at 65F. For more color intensity in foliage and flower, grow at 60F.

Sources: Pilon's Perennial Solutions, Walters Gardens, Cullina's Growing and Propagating Wildflowers

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Notes and Helpful Terms *Technical Information for Growers*

Notes on Pest and Disease: Pests and diseases listed are problems that commonly occur with this crop but not a guarantee that this issue will arise. By knowing it's common complaints, growers can develop strategies for monitoring and treating the crop.

Recommended ranges for EC, pH, and light intensity:

Light intensity is measured by foot candles, lumens, or lux. The light intensity varies by latitude, season, and weather from day to day. A general range we try to stay within for optimum growing conditions for our full-sun crops are 2,000-3,000 foot-candles (600 umol·m-2·s-1).

We generally keep our pH range 5.8-6.2 on most crops. A pH of 6.5+ or above can lead to an iron deficiency in some crops, especially warm season grasses.

We measure the soluble salts in the soil using the EC pour-through method. Generally speaking, having a reading that ranges between 1.5-2.0 is optimum for most crops.

We are frequently asked about how to design and implement a production program. As each facility and production program is different, we urge growers to review the resources we have posted here or to consult with a grower consultant. We are happy to share information about our experiences regarding fertility programs, monitoring EC, light, watering regimes, soil media, and greenhouse production.

Here are some resources we find helpful:

Beytes, Chris. (2011) *Ball Redbook Volume 1 Greenhouses and Equipment* (18th ed.) Batavia, IL: Ball Publishing.

Nau,Jim. (2011) *Ball Redbook Volume 2 Crop Production* (18th ed.). Batavia, IL: Ball Publishing.

Nau, Jim. (1996) *Ball Perennial Manual Propagation and Production*. Batavia, IL: Ball Publishing.

Pilon, Paul. (2006) *Perennial Solutions A Growers Guide to Perennial Production*. Batavia, IL: Ball Publishing.

We also encourage growers to join and participate in the International Plant Propagators Society, of which the North Creek grow team are members. There is an IPPS group for each region of the United States – production information, trials, experiments, and experience are freely shared within IPPS and it is a valuable resource for growers, propagators, and other plant experts.

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