

# Culture Sheet: *Technical Information for Growers*

**Name:** *Monarda punctata*

**Common name:** spotted beebalm

## Scheduling Information

**Available sizes:** LP50

**Sales Window:** all year

<b>Plug size</b>	72
<b>Finish size</b>	1 gal
<b>Weeks to finish</b>	7-9 wks
<b>When to pot</b>	Spring, summer

## Growing on to Finish

<b>Media:</b>	Professional potting media with adequate drainage
<b>pH:</b>	5.8-6.4
<b>EC:</b>	1.5-2.5 pour-thru method
<b>Irrigation:</b>	Allow soil to dry slightly between waterings.
<b>Fertilizer:</b>	Moderate feeders. 150-200 ppm nitrogen as needed or 50-100 ppm nitrogen every irrigation
<b>Light:</b>	High light levels. Requires long days for flowering
<b>Temperature:</b>	Rooting out: 62-68F Growing: 65-72F Holding: 50F outdoors
<b>Pest &amp; Disease:</b>	Aphids, spider mites, thrips and whiteflies. Cercospora leaf spot, powdery mildew, Rhizoctonia crown rot, and rust.
<b>Pinching:</b>	Pinch 2 weeks after planting to encourage branching
<b>Vernalization:</b>	9 weeks cold for strong and consistent flowering

### Grower Tips:

- Highly susceptible to foliage diseases. Provide good air circulation, adequate pot spacing, and irrigate by hand, if possible, to limit overhead watering and wetting the foliage
- *M. punctata* are from upland locations requiring more conscious irrigation. Do not overwater this species.

Disclaimer: Cultural information is provided as a guide only. North Creek Nurseries does not guarantee the exact results, as growth and finish times may vary depending upon your location, climate, cultural practices and other influences. Always check manufacturers' labels for approved rates and usage instructions when applying fertilizer or other chemicals.

Sources: Nau's Ball Perennial. Walters Gardens



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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 ( $600 \text{ umol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ ).

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* (18<sup>th</sup> ed.) Batavia, IL: Ball Publishing.

Nau, Jim. (2011) *Ball Redbook Volume 2 Crop Production* (18<sup>th</sup> 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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