

New Florida Foliage Plant Cultivar: 'Orange Hot' *Anthurium*¹

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Figure 1. A mature *Anthurium* 'Orange Hot' that was grown in a 1.6 L (6-inch) container.

that are 6 to 7 cm (2.4 to 2.8 in.) long and 4 to 5 cm (1.6 to 2.0 in.) wide. They are held on peduncles 25 to 35 cm (10 to 14 in.) tall that locate the inflorescences higher than the leaf canopy where they are easily seen and enjoyed. When they unfurl, new spathes are a light salmon orange color (RHS 39B-C), and they gradually fade over a period of two to three weeks to a lighter orange (RHS 36B-C). The spadix at anthesis is a light orange color (RHS 38A) at the base and increases in intensity to orange (RHS 39A-B) at the apex. In older flowers, the spadix becomes a uniform lighter orange color (RHS 37D). Peduncles are yellow green at the base (RHS 152A-B) and darken to grayed-orange (RHS 172D) near the spathe.

Description

Mature leaves of a one year old 'Orange Hot' plant are lance-shaped, 18 to 20 cm (7.2 to 8 in.) in length and 9 to 11 cm (3.6 to 4.4in.) wide at the widest part. The upper surface leaf color is dark green (RHS 146B-C; Royal Horticultural Society, 1995). The underside of the leaf is a lighter green (RHS 139A). Petioles are uniform yellow-green (RHS 146B-C). *Anthurium* 'Orange Hot' produces spathes

Performance

Performance characteristics of *Anthurium* X 'Orange Hot' were determined in a growth study. Thirty liners were selected from well-rooted cuttings in 25-mm (72 insert) cell trays. Liners were potted into 1.6L (6-inch) plastic pots containing a growing medium of 3:2 Canadian peat: perlite by volume. The soil was amended with 0.9 kg m⁻³ of Micromax, (Sierra Chemical Company, Milpitas, CA) and 4.1

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kg m⁻³ dolomite. Plants were grown in a shaded greenhouse with a maximum irradiance of 125µmol s⁻¹m⁻² under a natural photoperiod and a temperature range of 15 to 34°C (63 to 97°F). Ten plants were grown at each of three fertilizer levels. The fertilizer was applied as a liquid at 100ml/pot per week. Fertilizer levels were derived from stock solutions made in a 3N-1P-2K ratio. The test was set in a completely randomized design. At the end of the test, data recorded canopy height and width, length and width of largest leaf and number of open flowers. Plants were also rated for visual quality on a scale of 1 to 5, where 1 = dead, 3 = acceptable, saleable and 5 = excellent quality.

Anthurium X 'Orange Hot' reached marketable size in 7 months. Fertilizer level did not significantly affect any of the variables measured except canopy width, which increased linearly as fertilizer levels increased (Table 1). All plants were rated between good and excellent at each fertilizer level. Overall plant quality averaged 4.2 out of a possible 5.0. Mature plants were wider than they were tall. Both primary and secondary shoots bloomed resulting in average flower counts of four to five per plant. Plants were well branched. Canopy height and width averaged 20.4 cm by 42.9 cm (8.2 by 17 inches) for the 1.6L (6-inch) pot size. For additional details the reader is referred to the 2003 'Orange Hot' *Anthurium* article in HortScience (Henny et al. 2003).



Figure 2. *Anthurium* X 'Orange Hot' growing in a Florida foliage plant nursery.

Availability

Anthurium X 'Orange Hot' is intended for commercial producers growing finished plants in 1.6 or 3.9L (6-inch or 8-inch) containers. Stock plants have been released to University of Florida licensed cooperating Florida tissue culture labs for propagation and distribution. Inquiries regarding participating labs may be obtained by writing the Florida Foundation Seed Producers, Inc., P.O. Box 309, Greenwood, FL 32443. Plants for research purposes may be obtained directly from the author.

References

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Table 1. Final canopy height and width, length and width of largest leaf, visual quality and total number of open flowers produced by *Anthurium* X 'Orange Hot' grown in 1.6L pots for 7 months.

Fertilizer(N) g/m ² /yr	<u>Canopy</u>		<u>Leaf</u>		Open Flowers	Visual Quality ^z
	height (cm)	width (cm)	length (cm)	width (cm)		
34	19.8	39.2	18.4	10.0	4.4	3.8
68	21.3	44.5	18.6	10.1	5.6	4.5
101	20.2	45.0	19.5	10.2	4.5	4.4
Significance ^y	NS	L	NS	NS	NS	NS

^zVisual rating where 1= dead, 3= saleable, and 5= excellent

^yNS and L* = Nonsignificant or Linear significance at 5% level respectively.