

## Reviews

### 6 Opportunities and Challenges to Sustainability in Aquaponic Systems

Richard V. Tyson, Danielle D. Treadwell, and Eric H. Simonne

## Research Reports

### 14 Use of Reduced Irrigation Operating Pressure in Irrigation Scheduling. I. Effect of Operating Pressure, Irrigation Rate, and Nitrogen Rate on Drip-irrigated Fresh-market Tomato Nutritional Status and Yields: Implications on Irrigation and Fertilization Management

Bee Ling Poh, Aparna Gazula, Eric H. Simonne, Francesco Di Gioia, Robert C. Hochmuth, and Michael R. Allgood

### 22 Use of Reduced Irrigation Operating Pressure in Irrigation Scheduling. II. Effect of Reduced Irrigation System Operating Pressure on Drip-tape Flow Rate, Water Application Uniformity, and Soil Wetting Pattern on a Sandy Soil

Bee Ling Poh, Aparna Gazula, Eric H. Simonne, Robert C. Hochmuth, and Michael R. Allgood

### 30 Physical Properties of and Plant Growth in Peat-based Root Substrates Containing Glass-based Aggregate, Perlite, and Parboiled Fresh Rice Hulls

Michael R. Evans

### 35 Early Flurprimidol Drench Applications Suppress Final Height of Four Poinsettia Cultivars

Christopher J. Currey and Roberto G. Lopez

### 41 Urea Ammonium Nitrate Additive and Raking Improved Mesotrione Efficacy on Creeping Bentgrass

Lijuan Xie, Deying Li, Wenjuan Fang, and Kirk Howatt

### 46 Impact of Paclobutrazol on Root-pruned Live Oak

Tomás Martínez-Trinidad, W. Todd Watson, and Russell K. Book

### 51 Methyl Iodide plus Chloropicrin Rates and Formulations for Nutsedge Management in Tomato

James P. Gilreath and Bielinski M. Santos

### 56 Effect of Time of Planting, Plant Size, and Nursery-growing Environment on the Performance of 'Festival' Strawberry in a Subtropical Environment

C.M. Menzel and L. Smith

### 67 Establishment and Turf Qualities of Warm-season Turfgrasses in the Mediterranean Region

S. Severmutlu, N. Mutlu, R.C. Shearman, E. Gurbuz, O. Gulsen, M. Hocagil, O. Karaguzel, T. Heng-Moss, T.P. Riordan, and R.E. Gaussoin

### 82 Immobilization of Mycelial Pellets from Liquid Spawn of Oyster Mushroom Based on Carrier Adsorption

Lanqing Wang, Yinfeng Li, Dehai Liu, Chaohui Zhang, Yuancheng Qi, Yuqian Gao, Jinwen Shen, and Liyou Qiu

### 87 Nitrogen and Vine-harvest Method Affect Cranberry Vine Production and Yield

Hilary A. Sandler

### 98 Photosynthetic Daily Light Integral Impacts Growth and Flowering of Several Kalanchoe Species

Christopher J. Currey and John E. Erwin

### 103 The pH, Electrical Conductivity, and Primary Macronutrient Concentration of Sphagnum Peat and Ground Parboiled Fresh Rice Hull Substrates Over Time in a Greenhouse Environment

Michael R. Evans, Johann S. Buck, and Paolo Sambo

## Technology and Product Reports

109 A Topical Spray to Enhance Plant Resistance to Cold Injury and Mortality

David A. Francko, Kenneth G. Wilson, Qingshun Q. Li, and Maria A. Equiza

## Teaching Methods

119 Meeting Learning Objectives through Service-Learning: A Pomology Case Study

Lauren C. Garner

126 Perceptions of the Importance of Plant Material Knowledge by Practicing Landscape Architects in the Southeastern United States

Robert F. Brzuszek, Richard L. Harkess, and Eric Stortz

## Variety Trials

131 Cultivar Evaluation and Lipid and Protein Contents of Virginia-grown Edamame

Luther C. Carson, Joshua H. Freeman, Kequan Zhou, Gregory Welbaum, and Mark Reiter

136 Yield and Fruit Quality Traits of Rambutan Cultivars Grafted onto a Common Rootstock and Grown at Two Locations in Puerto Rico

Ricardo Goenaga and David Jenkins

## Department

Spotlight

4