

NC1186 Group Publications (2010)

Michigan State:

1. Betz, R., R.T. Fernandez, E.S. Runkel, T.A. Dudek, J. Himmelein, and B.K. Behe. 2010. Estimating the production costs of greenhouse crops. MSU Extension DVD-031.
2. Cregg, B.M., A. Taylor, W. Klooster, R.T. Fernandez and P. Nzokou. 2010. Growth and physiology of living Christmas tree in container production. In: Hart, J. Landgren, C. and Chastagner, G. (Eds.) Proceedings of the 9th International Christmas Tree Research and Extension Conference, Corvallis, OR and Puyallup, WA. p. 28-33.
3. Fernandez, R.T. 2010. Using an air spade to bare-root harvest large trees. *The Michigan Landscape*. 53(1):47-50.
4. Hansen, M.F., R.T. Fernandez, and M.R. Penskar. 2010. Wildfire-resistant landscape plants for Michigan. MSU Extension Bulletin E2948.
5. Kijchavengkul T., R. Auras, M. Rubino, S. Selke, M. Ngouajio, R. T. Fernandez. 2010. Biodegradation and hydrolysis rate of aliphatic aromatic polyester. *Polymer Degrad. Stabil.* 95:2641-2647.
6. Klooster, W.S., B.M. Cregg, R.T. Fernandez, and P. Nzokou. 2010. Growth and photosynthetic response of pot-in-pot-grown conifers to substrate and controlled-release fertilizer. *HortScience* 45:36-42.
7. Nzokou, P. and B.M. Cregg. 2010. Morphology and foliar chemistry of containerized *Abies fraseri* seedlings as affected by water availability and nutrition. *Ann. For. Sci.* 67:602-611.
8. Nzokou, P. and B.M. Cregg. 2010. The effect of watering and nitrogen fertilization on growth, nutrient use, and leaching in containerized Fraser fir (*Abies fraseri*). Proceedings of the 9th International Christmas Tree Research and Extension Conference, Corvallis, OR and Puyallup, WA. p. 37-44.

Mississippi State University

1. Blythe, E.K. and D.J. Merhaut. 2010. Calculating average pH in substrate research: Should pH or [H⁺] data values be used? *HortScience* 45(8):S286-287 (Abstr.)
2. Blythe, E.K. 2010. Multiple comparisons of treatment means using the simulation-stepdown method in SAS. *HortScience* 45:517 (Abstr.)

Oregon State University:

1. Altland, J.E., J.S. Owen, Jr., W. Fonteno. 2010. Developing moisture characteristic curves and their descriptive functions at low tensions for soilless substrates. *J. Amer. Soc. Hort. Sci.* 135:563-567.
2. Prehn, A., J.S. Owen, Jr., S.L. Warren, T.E. Bilderback. 2010. Water management of container-grown nursery crops with leaching fraction or weight-based 'On Demand' irrigation control. *J. Environ. Hort.* 28:117-123.
3. Boyer, C., J.S. Owen, Jr., and J.E. Altland. 2010. Development of Sustainable and Alternative Substrates for Nursery Container Crops. *Proc. Southern Nursery Assoc. Res. Conf.* 55:410-412.
4. Rideout, W., A. Hensey, J.S. Owen, Jr., B. Denig, and H. Yorgey. 2010. Climate Friendly Nurseries Project (CFNP): <http://www.climatefriendlynurseries.org/>
5. Stoven, H.M. and J.S. Owen, Jr. 2010. Into the blue: A comparison of substrate amendments for the adjustment of hydrangea flower color. *Digger* 54: 25-30.
6. Owen, J.S. Jr., H.M. Stoven, J.E. Altland, W.J. Pruett, J. Klick. 2010. Crop Response to Hybrid Poplar Alternative Soilless Substrate Component for Pacific Northwest Ornamental Container Production. *HortScience* 45:S110-S111 (Abstr.)
7. Owen, J.S. Jr., M. Zazirska-Gabriel, D.M. Sullivan, J.E. Altland, and J. P. Albano. 2010. Water Use and Growth of Two Woody Taxa Produced in Varying Indigenous Douglas Fir Based Soilless Substrates. *HortScience* 45:S111 (Abstr.)

8. Albano, J.P., J.S. Owen, Jr., J.E. Altland, T. Evans, S. Reed, and T. Yeager. 2010. Composted Algae as an Alternative Substrate for Horticultural Crop Production: Chemical and Physical Properties. *HortScience* 45:S164-S165 (Abstr.)
9. Owen, J.S., Jr., S.A. White, W. Bauerle, J.P. Albano, P.C. Wilson, T. Yeager, T.E. Bilderback. 2010. Nursery Production Technologies for Enhancing Water Quality Protection and Water Conservation. USDA-NIFA National Water Conference Proceedings. <http://www.usawaterquality.org/conferences/2010/default.html> (Abstr.)

Purdue University

1. Mickelbart, M.V. 2010. Variation in leaf nutrient concentrations due to leaf position and petiole inclusion. *HortScience* 45:428-431.
2. Torres, A.P., M.V. Mickelbart, and R.G. Lopez. 2010. Leachate volume effects on pH and electrical conductivity measurements in containers obtained using the pour through method. *HortTechnology* 20:608-611.
3. Torres, A.P., M.V. Mickelbart, and R.G. Lopez. 2010. Leachate volume effects on pH and electrical conductivity measurements in containers obtained using the pour-through method. *HortScience* 45:S163.
4. Torres, A.P., M.V. Mickelbart, and R.G. Lopez. 2010. Measuring pH and EC of large containers. *GPN* 20:52-55.

Clemson University

1. White, SA, MD Taylor, SL Chandler, SJ Klaine, T Whitwell. 2010. "Remediation of nitrogen and phosphorus from nursery runoff during the spring via free water surface constructed wetlands." *Journal of Environmental Horticulture*. 209-217.
2. White, SA, MD Taylor, RF Polomski, JP Albano. 2010. "Constructed Wetlands: A How to Guide for Nurseries." FNRI USDA-ARS and HRI SCA # 58-6618-7-216 (in peer review)
3. Oki, LR, SA White. 2010. "Ecological approaches to water treatment." *OFA Bulletin*. 924:10-13.
4. White, SA, RF Polomski. 2010. "Waste No Water." *American Nurseryman*. June, pp 24-28.
5. White, SA, MM Cousins, BC Seda, JB Glenn. 2010. "Dissolved Oxygen Influences Nutrient Remediation by Floating Wetlands." *HortScience*. 45(8), S79. (Abstr.)
6. White, SA, MM Cousins, B Seda, JB Glenn. 2010 "Recycling phosphorus saturated clay as a substrate amendment." *SNA Research Conference Proceedings*. 55, 338-343.
7. White, SA, MM Cousins, B Seda, JB Glenn. 2010 "Does oxygen status influence floating wetland nutrient uptake?" *SNA Research Conference Proceedings*. 55, 182-188.
8. Polomski, RF, SA White. 2010. "A Strategy for Putting Plants to Work." *American Nurseryman*. April, pp 26-31.

Texas A&M University

1. Ampim, Peter A.Y., J.J. Sloan, R.I. Cabrera, D.A. Harp and F.H. Jaber. 2010. Green roof growing media: Types, ingredients, composition and properties. *J. Env. Hort.* 28(4): xx-xx (in press).
2. Cabrera, R.I. 2010. Cut-flower greenhouse rose production, pp. 97-101 (W.A. Kline and M.L. Infante-Casella, Eds.). Proc. 55th Atlantic Coast Ag Convention and Trade Show. Atlantic City, NJ.
3. Cabrera, R.I. 2010. Evaluating rootzone stresses and the role of the root system on rose crop productivity and water use efficiency: Setting up the experiment. *Int. Cut Flower Growers Assn. Bull.*, Jul.-Sep. Issue. pp. 9-13.
4. Niu, G., D.S. Rodriguez, and M. Gu. 2010. Salinity tolerance of *Sophora secundiflora* and *Cercis canadensis* var. *Mexicana*. *HortScience* 45(3):424-427.
5. Niu, G., D.S. Rodriguez, and T. Starman. 2010. Response of bedding plants to saline water irrigation. *HortScience* 45(4):628-636.
6. Niu, G. and R.I. Cabrera. 2010. Growth and physiological responses of landscape plants to saline

- water irrigation – a review. *HortScience* 45(11): 1605-1609.
7. Niu, G. and R.I. Cabrera. 2010. Irrigating ornamental horticultural plants with alternative water sources. *In: Horticulture in 21st Century*, (A.N. Sampson, Ed.), pp. 143-160. Nova Science Publishers, Inc., NY.
 8. Niu, G. and D.C. Rodriguez. 2010. Growth response of selected bedding plants to three irrigation levels. *Proc. Southern Nursery Assn. Res. Conf.* 55:195-199.
 9. Niu, G., M. Gu, and D.C. Rodriguez. 2010. Nitrogen rate and form affected growth of Texas mountain laurel. *Proc. Southern Nursery Assn. Res. Conf.* 55:349-353.
 10. Sloan, J.J., R.I. Cabrera, P.A.Y Ampim, S.A. George and W.A. Mackay. 2010. Performance of ornamental plants in alternative organic growing media amended with increasing rates of expanded shale. *HortTechnology* 20: 594-602.
 11. Solís-Pérez, A.R., R.I. Cabrera and J.J. Sloan. 2010. Characterizing seasonal and diurnal ion and water uptake patterns in greenhouse roses. *Proc. Southern Nursery Assn. Research Conf.* 55: 121-127.
 12. Wang, M., G. Niu, D.C. Rodriguez, and D. Zhang. 2010. Response of Zinnia Cultivars to Salinity. *Proc. Southern Nursery Assn. Res. Conf.* 55:189-194.

University of Maryland:

1. Hong, C., J. D. Lea-Cox, D. S. Ross, G.W. Moorman, P.A Richardson, S.R. Ghimire and P. Kong. 2009. Containment basin water quality fluctuation and implications for crop health. *Irrigation Sci.* 27:485-496.
2. Hong, C. X., M. E. Gallegly, P. A. Richardson, P. Kong, G. W. Moorman, J. D. Lea-Cox and D. S. Ross. 2010. *Phytophthora hydropathica*, a new pathogen identified from irrigation water, *Rhododendron catawbiense* and *Kalmia latifolia*. *Plant Pathology* 59:913-921.
3. Lea-Cox, J. D., G. F. Kantor, W. L. Bauerle, M. van Iersel, C. Campbell, T. Bauerle, D. S. Ross, A. G. Ristvey, D. T. Parker, D. M. King, R. Bauer, S. Cohan, P. Thomas, J. Ruter, M. Chappell, M. Lefsky, S. Kampf and L. Bissey. 2009. A Major Specialty Crops Research Initiative Grant Award for the University of Maryland. Maryland Nursery and Landscape Association. *FreeState Nursery News* 23(3): 14-15. <http://mnlaonline.org/documents/2009-winter.pdf>
4. Lea-Cox, J.D., G.F. Kantor, W.L. Bauerle, M. van Iersel, C. Campbell, T.L. Bauerle, D.S. Ross, A.G. Ristvey, D. Parker, D. King, R. Bauer, S. M. Cohan, P. Thomas, J.M. Ruter, M. Chappell, M. Lefsky, S. Kampf and L. Bissey. 2010. A Specialty Crops Research Project: Using Wireless Sensor Networks and Crop Modeling for Precision Irrigation and Nutrient Management in Nursery, Greenhouse and Green Roof Systems. *Proc. Southern Nursery Assoc. Res. Conf.* 55:211-214.
5. Lea-Cox, J. D., C. Zhao, D. S. Ross, T. E. Bilderback, J. R. Harris, S. D. Day, C. X. Hong, T. H. Yeager, R. C. Beeson Jr., W. L. Bauerle, A. G. Ristvey, M. Lorscheider, S. Dickinson and J. M. Ruter. 2010. A Nursery and Greenhouse Online Knowledge Center: Learning Opportunities for Sustainable Practice. *HortTechnology* 20: 509-517.
6. Lea-Cox, J.D. and C. Zhao, 2010. Smart-farms: Managing Irrigation and Nutrients via Distributed Sensing - The Specialty Crops Research Initiative Project Website <http://smart-farms.net>
7. Majsztrik, J., A. G. Ristvey and J. D. Lea-Cox. 2010. Water and Nutrient Management in the Production of Container-Grown Ornamentals. *In: Hort. Reviews* J. Janick (Ed.). J. Wiley, NJ. 38:253-297.
8. Majsztrik, J., J. D. Lea-Cox, A. G. Ristvey and D. S. Ross. 2010. Modeling Water and Nutrient Runoff from Nursery and Greenhouse Operations in Maryland : Preliminary Statistics. *Proc. Southern Nursery Assoc. Res. Conf.* 55:215-220.
9. Solano, S. L., A. G. Ristvey, J. D. Lea-Cox and S. M. Cohan. 2010. Crumb Rubber as an Amendment for Extensive Green Roof Substrates: Preliminary Research Conclusions. *Proc. Southern Nursery Assoc. Res. Conf.* 55: 400-405.

Presentations with Abstracts

1. Lea-Cox, J.D. 2010. Water Conservation and Irrigation Management in Nursery Production Systems Symposium 1 - Water Issues in the Production of Ornamental Crops in the United States. USDA-NIFA National Water Conference. 22-25 Jan., 2010. Hilton Head, SC.
<http://www.usawaterquality.org/conferences/2010/symposia.html#1> (Abstr.)
2. Lea-Cox, J.D., 2010. Examining the 4R Concept of Nutrient Management. Workshop 16: Plant Nutrient Management Workshop. HortScience 45:S30. (Abstr.)
3. Lea-Cox, J.D., S. Black and D. S. Ross. 2010. Measuring Spatial and Temporal Dynamics of Drip Applications to Nursery Tree Crops. HortScience 45:S79-80. (Abstr.)
4. Lea-Cox, J.D. and A.G. Ristvey, 2010. Sensing Green Roofs to Provide Continuous Data for Stormwater Modeling. In: Workshop 30. Utility of Mechanistic and Empirical Models for Basic and Applied Research in Horticultural Stress Physiology. HortScience 45:S46-47. (Abstr.)
5. Lea-Cox, J.D., G. Kantor, W. Bauerle, M. van Iersel, C. Campbell, T. Bauerle, D. Ross, A. Ristvey, D. Parker, D. King, R. Bauer, S. Cohan, P. Thomas, J. Ruter, M. Chappell, M. Lefsky, S. Kampf, L. Bissey, T. Martin. 2010. Precision irrigation and nutrient management for nursery, greenhouse and green roof systems. Annual International Meeting. American Society Agriculture & Biological Engineers. 23 June 2010. Pittsburgh, PA. (Abstr.)
6. Lea-Cox, J.D., G.A. Kantor, W.L. Bauerle, M. van Iersel, C. Campbell, T. Bauerle, R. Bauer. 2010. SCRI-MINDS: Some management and communication strategies for a national coordinated agricultural project. HortScience 45(8):S202-203. (Abstr.)
7. Lea-Cox, J.D., G.A. Kantor, W.L. Bauerle, M. van Iersel, C. Campbell, T. Bauerle, D.S. Ross, A. Ristvey, D. Parker, D. King, R. Bauer, S. Cohan, P.A. Thomas, J.M. Ruter, M. Chappell, S. Kampf, M.A. Lefsky, L. Bissey, and T. Martin. 2010. Precision irrigation and nutrient management for nursery, greenhouse and green roof systems: sensor networks for feedback and feed-forward control. HortScience 45(8):S86-87. (Abstr.)

Rutgers University

1. Zinati, G.M. 2010. Managing the Root Environment to Optimize Water and Nutrient Management in Container-Ornamental Production.
<http://www.usawaterquality.org/conferences/2010/symposia.html#1>
2. Zinati, G.M. 2011. Water Management and Plant Performance in a Changing Climate: Introduction to Colloquium HortScience (In press).