

**Dr. William E. Klingeman, Associate Professor**  
**Urban Landscape and Nursery Research**  
Publication List<sup>1</sup> (grouped by subject)

[<sup>1</sup> Peer-reviewed publications and book chapters appear at the top of each section, followed by non-peer reviewed research reports, Extension publications and trade journal articles, which appear beneath the dashed line. If published in a peer-reviewed journal, redundant research reports are omitted from the list.]

**Entomology, Host Plant Resistance to Insects and Plant/Insect Interactions**

Bergh, J.C., T.C. Leskey, J.F. Walgenbach, **W.E. Klingeman**, D.P. Kain, A. Zhang and P.B. Schultz. 2009. Dogwood borer, *Synanthedon scitula* (Lepidoptera: Sesiidae), abundance and seasonal flight activity in apple orchards, managed urban landscapes and woodlands in five eastern States. *Environ. Entomol.* 38(3): 530-538.  
[://plantsciences.utk.edu/klingeman/pdf/DWBFlightActivity\\_EnvironEntomol36-3\\_530-538.pdf](http://plantsciences.utk.edu/klingeman/pdf/DWBFlightActivity_EnvironEntomol36-3_530-538.pdf)

Zhuang, X., **W.E. Klingeman**, J. Hu and F. Chen. 2008. Emission of volatile chemicals from flowering dogwood (*Cornus florida* L) flowers. *Agric. Food Chem.* 56(19): pg-pg.  
[://plantsciences.utk.edu/klingeman/pdf/DWFlowerVolatiles\\_JAgricFoodChem\\_56-9570-9574.pdf](http://plantsciences.utk.edu/klingeman/pdf/DWFlowerVolatiles_JAgricFoodChem_56-9570-9574.pdf)

Ketchersid\*, D.R. and **W.E. Klingeman**. 2007. Ornamental host plant foliage influences longevity and fecundity of adult whitefringed beetles (*Naupactus leucoloma*) (Coleoptera: Curculionidae). *J. Entomol. Sci.* 42(3): 404-408.  
[://plantsciences.utk.edu/klingeman/pdf/WFB-JES42\(3\)\\_404-408.pdf](http://plantsciences.utk.edu/klingeman/pdf/WFB-JES42(3)_404-408.pdf)

**Klingeman, W.E.**, F. Chen, H. J. Kim and P.C. Flanagan. 2007. Feeding preferences of dogwood sawfly larvae indicate resistance in *Cornus*. *J. Environ. Hort.* 25(3): 134-138.  
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**Klingeman, W.E.** and M.S. Carrington. 2005. Plant source and seed parasitism influence seed viability in redbud (*Cercis* spp.). *J. Entomol. Sci.* 40(4): 420-427.  
[://plantsciences.utk.edu/klingeman/pdf/JES40\\_420-27\\_Redbud-seed-parasitism.pdf](http://plantsciences.utk.edu/klingeman/pdf/JES40_420-27_Redbud-seed-parasitism.pdf)

**Klingeman, W.E.** 2002. Bagworm survival and feeding preferences as indicators of resistance among maples. *J. Environ. Hort.* 20(3): 138-142.  
[://plantsciences.utk.edu/klingeman/pdf/JEH\\_20\(3\)138-142.pdf](http://plantsciences.utk.edu/klingeman/pdf/JEH_20(3)138-142.pdf)

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Hansen, J.\*, **W.E. Klingeman**, J.K. Moulton, J.B. Oliver, and M.T. Windham. 2008. Species variation within the *Chrysobothris femorata* “complex” (Flatheaded Appletree Borer): evidence and implications of DNA sequencing. *Proc. Ann. Res. Conf. Southern Nursery Assoc.* 52: 320-323.  
[://www.sna.org/content/Entomology%20Section%202008%20SNA%20Proceedings\\_1.pdf](http://www.sna.org/content/Entomology%20Section%202008%20SNA%20Proceedings_1.pdf)

Hansen, J.\*, J.K. Moulton, **W.E. Klingeman**, J.B. Oliver, A. Zhang and M.T. Windham. 2008. "1 species...2 species? (Hybrid species... 'true' species?): a hip-cat in a cool-hat uses genetic analyses to investigate species complexity within both dogwood and lilac/ash clearwing moth borer populations (Lepidoptera: Sesiidae). Proc. Ann. Res. Conf. Southern Nursery Assoc. 52: 340-343.

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Vaughn, C.R., **W.E. Klingeman**, F. Hale, and J. Grant. 2004. Clearwing moth attraction to commercial pheromone lures and colored traps in East Tennessee. Proc. Ann. Res. Conf. Southern Nursery Association. 49: 195-199. [://www.sna.org/pdf/2004/ResProcSec03.pdf](http://www.sna.org/pdf/2004/ResProcSec03.pdf)

Oliver, J.B., D.C. Fare, N. Youssef, S. Scholl and **W.E. Klingeman**. 2003. Collection of adult flatheaded borers using multi-colored traps. Proc. Ann. Res. Conf. Southern Nursery Association. 48: 199-205. [://www.sna.org/pdf/2003/section03.pdf](http://www.sna.org/pdf/2003/section03.pdf)

**Klingeman, W.E.**, G.M. McDaniel, and P.C. Flanagan. 2002. Survivorship and Growth of Japanese Beetle Larvae on Common Nursery Weeds. Proc. Ann. Res. Conf. Southern Nursery Association. 47: 155-161. [://www.sna.org/pdf/2002/section03.pdf](http://www.sna.org/pdf/2002/section03.pdf)

**Klingeman, W. E.** and S. Garton. 2002. Flowering Dogwoods in Tennessee: A Glimpse at the Past, Present, and Future. Southeastern Biology 49(4): 381-383.

**Klingeman, W. E.**, W.T. Witte, and P.C. Flanagan. 2000. Ornamental crabapples range in resistance to injury by eastern tent caterpillar feeding. Malus 14(1): 7-11. [://plantsciences.utk.edu/klingeman/pdf/Malus\\_14\(1\)-7-11.pdf](http://plantsciences.utk.edu/klingeman/pdf/Malus_14(1)-7-11.pdf)

### **Ornamental Plant Production Systems**

**Klingeman, W.E.** 2008. Integrated pest management for plant propagation systems, pp. 113 – 124. *In: Plant Propagation: Concepts and Laboratory Exercises*, C.A. Beyl and R.N. Trigiano [eds.]. CRC Press, LLC. Boca Raton, FL.

Behe, B.K., **W.E. Klingeman**, J.R. Brooker, D.B. Eastwood, C.R. Hall, J.B. Riley and P. Knight. 2004. Chapter 8. Marketing insect- and disease-resistant plants. *In: Management Practices for Michigan Wholesale Nurseries*, R.T. Fernandez (Ed.). 209 pp. Michigan State University, East Lansing, MI.

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Combs, B., C. Hall, J. Brooker and **W. Klingeman**. 2006. Regional analysis of trade flows and marketing practice trends in the United States nursery industry. Proc. Ann. Res. Conf. Southern Nursery Association. 50: 270-275. [://www.sna.org/pdf/2006/05EconomicsMarketing.pdf](http://www.sna.org/pdf/2006/05EconomicsMarketing.pdf)

Hadziabdic, D., R.N. Trigiano, S.R. Garton, M.T. Windham, **W.E. Klingeman** and L.A. Weaver-May. 2004. In vitro regeneration of *Cladrastis kentuckea*. Comb. Proc. Int. Plant Prop. Soc. 54: 72-76.

**Klingeman, W.E.** 2001. Clay-based Protective Trunk Sprays for Ornamental Trees. Proc. Ann. Res. Conf. Southern Nursery Association. 46: 148-152.  
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### **Endophytes and Insect Pathology**

Ownley, B. H., M.R. Griffin\*, **W.E. Klingeman**, K.D. Gwinn, J.K. Moulton and R.M. Pereira. 2008. *Beauveria bassiana*: endophytic colonization and plant disease control. J. Invert. Pathol. 98: 267-270.  
[://www.informaworld.com/smpp/ftinterface~content=a795362010~fulltext=713240928](http://www.informaworld.com/smpp/ftinterface~content=a795362010~fulltext=713240928)

Leckie, B.M.\* , B.H. Ownley, R.M. Pereira, **W.E. Klingeman** and C.J. Jones. 2008. Mycelia and spent fermentation broth of *Beauveria bassiana* (Ascomycota: Hypocreales) incorporated into synthetic diets affect mortality, growth and development of larval *Helicoverpa zea* (Lepidoptera: Noctuidae). *Biocontrol Sci. & Technol.* 18(7): 697-710.  
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Ownley, B.H., R.M. Pereira, **W.E. Klingeman**, N.B. Quigley, and B.M. Leckie. 2004. *Beauveria bassiana*, a dual purpose biocontrol organism with activity against insect pests and plant pathogens. Pp. 255-269 *In: Emerging Concepts in Plant Health Management*, R. T. Lartey and A. J. Caesar [eds]. Research Signposts, T.C. Kerala, India.

### **Plant Disease Management**

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Cheng, Q.C., A.S. Windham, **W.E. Klingeman**, H. Sakhanokho, Y. Li and M.T. Windham. 2009. Comparison of resistant and susceptible flowering dogwoods in pathogenesis of *Discula destructiva*. Proc. S. Nursery Res. Conf. 54: 54-56.  
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### **Weed Management**

**Klingeman, W.E.**, D.K. Robinson, and G.L. McDaniel. 2004. Regeneration of mugwort (*Artemisia vulgaris*) rhizome sections in pine bark, sand and soil substrates. J. Envir. Hort.: 22(3): 139-143. [://plantsciences.utk.edu/klingeman/pdf/JEH-22\\_139-143\\_good.pdf](http://plantsciences.utk.edu/klingeman/pdf/JEH-22_139-143_good.pdf)

McDaniel, G.M., **W.E. Klingeman**, W.T. Witte, and P.C. Flanagan. 2001. Choice of adjuvant with halosulfuron affects purple nutsedge control and nursery crop tolerance. HortScience 36(6): 1085-1088.  
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Armel, G.R., **W.E. Klingeman** and P.C. Flanagan. 2009. Herbicidal efficacy and ornamental plant safety following use of select combinations of HPPD and PSII inhibitors. Proc. S. Nursery Res. Conf. 54: 134-138. [://www.sna.org/content/Weed%20Control%202009\\_1.pdf](http://www.sna.org/content/Weed%20Control%202009_1.pdf)

**Klingeman, W.E.** and D.R. Robinson. 2005. Competitive influence of emerging weed threats for SEUS container-growers. Proc. Ann. Res. Conf. Southern Nursery Association. 50: 59-63. [://www.sna.org/pdf/2005/01Container.pdf](http://www.sna.org/pdf/2005/01Container.pdf)

Conlon, S.\* and **W.E. Klingeman**. 2001. Rabbits as Weed Vectors and Vegetative Dispersal Agents. Proc. Ann. Res. Conf. Southern Nursery Association. 46: 435-438. [://www.sna.org/pdf/2001/01resprocsec08.pdf](http://www.sna.org/pdf/2001/01resprocsec08.pdf)

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Robinson, D.K., S. Garton, **W.E. Klingeman**, and G.L. McDaniel. 2003. Daylily Production and Landscape Care: A Planned Approach to Weed Management. [://plantsciences.utk.edu/pdf/DAYLILYPUBLICATION03WP.pdf](http://plantsciences.utk.edu/pdf/DAYLILYPUBLICATION03WP.pdf)

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### **Urban Landscape Research and Management**

**Klingeman, W.E.** and A. Taylor. 2007. Wood type and treatment influence extent of surface scarring and boring injury by dogwood sawfly larvae. J. Entomol. Sci. 42(3): 399-403. [://plantsciences.utk.edu/klingeman/pdf/JES42\\_399-403\\_DW-sawfly-on-wood-types.pdf](http://plantsciences.utk.edu/klingeman/pdf/JES42_399-403_DW-sawfly-on-wood-types.pdf)

Dunwell, W. C., D. Fare, M. Arnold, K. Tilt, G. Knox, W. Witte, P. Knight, M. Pooler, **W. Klingeman**, A. Niemiera, J. Ruter, T. Yeager, T. Ranney, R. Beeson, J. Lindstrom, E. Bush, A. Owings, and M. Schnelle. 2001. Plant evaluation program: SERA/IEG - 27: Nursery crops and landscape systems. HortTechnology 11(3): 373-375. [://plantsciences.utk.edu/pdf/HortTech11\(3\)373-375.pdf](http://plantsciences.utk.edu/pdf/HortTech11(3)373-375.pdf)

**Klingeman, W.E.**, M.W. van Iersel, G.D. Buntin, and S.K. Braman. 2000. Whole-plant gas exchange, not individual-leaf measurements, accurately assess azalea response to insecticides. Crop Protection 19(6): 407-415. [://plantsciences.utk.edu/klingeman/pdf/CropProt19\\_407-415.pdf](http://plantsciences.utk.edu/klingeman/pdf/CropProt19_407-415.pdf)

**Klingeman, W.E.**, G.D. Buntin, and S K. Braman. 2001. Using aesthetic assessments of azalea lace bug (Heteroptera: Tingidae) feeding injury to provide thresholds for pest management decisions. J. Econ. Entomol. 94(5): 1187-1192. [://plantsciences.utk.edu/klingeman/pdf/JEE\\_94\(5\)1187-1192.pdf](http://plantsciences.utk.edu/klingeman/pdf/JEE_94(5)1187-1192.pdf)

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Cannon, A.D., D. Deyton, C. Sams, D. Fare and **W.E. Klingeman**. 2004. Effects of soybean oil formulations powdery mildew and net photosynthetic of dogwoods. Proc. Ann. Res. Conf. Southern Nursery Association. 49: 214-218. [://www.sna.org/pdf/2004/ResProcSec03.pdf](http://www.sna.org/pdf/2004/ResProcSec03.pdf)

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### **Green Industry Professional and Consumer Preferences**

Jeffers, A.H.\*, M.A. Palma, **W E. Klingeman**, C.R. Hall, D.S. Buckley and D.A. Kopsell. 2009. Assessments of bare-root liner quality and purchasing decisions made by green industry professionals. HortSci. 44(3): 717-724. [://plantsciences.utk.edu/klingeman/pdf/NurseryLiners\\_HortSci44-3\\_717-724.pdf](http://plantsciences.utk.edu/klingeman/pdf/NurseryLiners_HortSci44-3_717-724.pdf)

**Klingeman, W.E.** and C.R. Hall. 2006. Risk, trust, and consumer acceptance of plant biotechnology: implications for genetically modified ornamental plants. J. Crop Improvement 18(1/2): 451-486. [://plantsciences.utk.edu/klingeman/pdf/J\\_Crop\\_Improvement\\_Abstract.pdf](http://plantsciences.utk.edu/klingeman/pdf/J_Crop_Improvement_Abstract.pdf)

**Klingeman, W.**, C. Hall and B. Babbit. 2006. Master Gardener perception of genetically modified ornamental plants provides strategies for promoting research products through outreach and marketing. HortScience 41(5): 1263-1268. [://plantsciences.utk.edu/klingeman/pdf/MG\\_Perception\\_of\\_GMOrnamentals\\_Hortscience%2041-5.pdf](http://plantsciences.utk.edu/klingeman/pdf/MG_Perception_of_GMOrnamentals_Hortscience%2041-5.pdf)

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Gardner, J.G., D B. Eastwood, J.R. Brooker, and **W.E. Klingeman**. 2003. Consumers' valuation of disease-resistant landscape plants: a case study of flowering dogwoods. J. Agribusiness 21(1): 103-116. [://plantsciences.utk.edu/klingeman/pdf/JAgribusiness\\_21\(1\)-103-116.pdf](http://plantsciences.utk.edu/klingeman/pdf/JAgribusiness_21(1)-103-116.pdf)

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**Klingeman, W.E.**, J.R. Brooker, D.B. Eastwood, B.K. Behe, J.B. Riley, and P. Knight. 2001. Consumer perceptions of Landscape Characteristics, Disease and Pest Problems, and the Value of Powdery Mildew Resistant Flowering Dogwoods. UTIA Agric. Econ. Res. Ser. 07-01. [://economics.ag.utk.edu/publications/nursery/dogwood.PDF](http://economics.ag.utk.edu/publications/nursery/dogwood.PDF)

### **Plant Drought Stress and Mycorrhizal Interactions**

**Klingeman, W.E.**, M.W. van Iersel, J.G. Kang, R.M. Augé, J. Moore, and P.C. Flanagan. 2005. Whole-plant gas exchange measurements of mycorrhizal 'Iceberg' roses exposed to cyclic drought. Crop Prot. 24: 309-317.  
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## Pest Profiles (Extension Publications and Trade Journal Articles)

### Insects

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