



To: Insects, Diseases and Invasive Plants (IDIP) – SRS-4552

From: Doug Streett, Project Leader

NOTES # 69

September 1, 2011

Unit News

Great News!!! ... Our first entry to the USDA Science blog was a condensed version of an article written for the latest issue of Compass on Jim Miller's latest invasive plants guide:

<http://blogs.usda.gov/2011/07/12/new-guide-to-managing-invasive-plants-in-the-south/>

News Flash... **Dan Miller and Brian Strom** have been asked to serve on a Early Detection Rapid Response tech working group that will be advising on protocols for detection surveys and how to identify areas of risk to trapping.

News Flash... Our own **Kier Klepzig** and **Bud Mayfield** with John Nowak were partnered with The Tree Farm System to present a webinar entitled: "Southern Pine Beetle: What a Tree Farmer Needs to Know". **Kier Klepzig**, Assistant Director, Southern Research Station (SRS); **Bud Mayfield**, Research Entomologist, SRS; and John Nowak, Regional Manager of Forest Health Protection's Southern Pine Beetle Prevention Program, presented information on the effects of the Southern Pine Beetle on woodlands. Topics included methods of tree protection and prevention along with mitigating for potential losses and available options for landowner assistance. There were 66 participants and the webinar is available online (slides, audio recording) at: <http://www.treefarmssystem.org/southern-pine-beetle--what-a-tree-farmer-needs-to-know>

News Flash... **Jim Miller, Erwin Chambliss**, and Nancy Lowenstein had the first of two webinars, introducing the new co-authored book, which is available free from the Southern Research Station, entitled "A Field Guide for the Identification of Invasive Plants in Southern Forests" (General Technical Report SRS-119). Part 1 focused on the most prevalent invasive trees and shrubs that plague southern forests and where they occur. This was a hugely popular webinar with 212 attendees, a phenomenal 68% survey response and based on these survey responses a potential total savings value of \$281,731. Participants in the webinar were able to reduce the amount of CO₂ produced by 13,957 lbs and save \$2,609 in fuel cost by not having to drive to take part in a similar workshop at a university with a natural resource program in their state. The webinar is available at: <http://www.forestrywebinars.net/webinars/the-most-prevalent-invasive-plants-in-southern-forests-part-1-2013-woody-plants>

New IDIP Technical Transfer Activities

Bud Mayfield... had a paper accepted for publication... Hughes, M., J. A. Smith, **A. E. Mayfield III**, and M.C. Minno. 2011. First report of laurel wilt disease caused by *Raffaelea lauricola* on pondspice in Florida. Plant Disease (in press).

Jim Miller... had two invited presentations: Miller, J.H. 2011. Preventing the spread of invasive plants during forest operation. Professional Logging Manager (PLM) Continuing Education Conference, July 19, 2011, Millbrook, AL.

Miller, J.H. 2011. Ornamental plants that become forest invasive plants. Tallapoosa County Master Gardeners Association Meeting, July 23, 2011, Tallapoosa County, AL.

Doug Streett... had a paper accepted for publication; Portilla, M. and **D.A. Streett**. 2011. Effect of modification of the NI artificial diet on the biological fitness parameters of mass reared western tarnished plant bug, *Lygus hesperus*. J. Insect Science. In Press.

... **Doug** had a paper submitted for publication; Jin, Xixuan, **Douglas Streett**, Yanbo Huang, and Todd Ugine. Development of a novel bioassay system to assess the effectiveness of entomopathogenic fungi against imported fire ants. Biocontrol Science & Technology.

Kier Klepzig had a paper submitted; Biedermann, P.H.W., **K.D. Klepzig**, E.P. Ott, M. Taborsky, D.L. Six. 2011. Dynamics of filamentous fungi in the ambrosia gardens of the primitively eusocial beetle *Xyleborinus saxenii* Ratzeburg (Scolytinae: Curculionidae). Microb Ecol. Submitted.

... **Kier** had a paper published; Evans, L.M., Hofstetter, R.M., Ayres, M.P., and **Klepzig, K.D.** 2011. Temperature Alters the Relative Abundance and Population Growth Rates of Species within the *Dendroctonus frontalis* (Coleoptera: Curculionidae) Community. *Environmental Entomology*, 40 (4):824-834. 2011.

Stephen Fraedrich ... had two papers published; **Fraedrich, S. W.**, Harrington, T. C., Bates, C. A., Johnson, J., Reid, L. S., Best, G. S., Leininger, T. D., and Hawkins, T. S. 2011. Susceptibility to laurel wilt and disease incidence in two rare plant species, pondberry and pondspice. *Plant Dis.* 95:1056-1062.

Fraedrich, S.W., Harrington, TC, Bates, CA, Johnson, J, Reid, LS, Best, GS, Leininger, TD and Hawkins, TS. 2011. Susceptibility of pondberry and pondspice to *Raffaelea lauricola*, and the impact of laurel wilt on these species in Georgia and South Carolina. *Plant Disease* 95:1056-1062.

... **Stephen** also had two papers accepted for publication; Riggins, J.J., **Fraedrich, S.W.**, and Harrington, T.C. 2011. First occurrence of laurel wilt in sassafras in Mississippi. *Plant Disease* (Accepted).

Fraedrich, S.W., Cram, M.M., Handoo, Z.A. and Zarnoch, S.J. 2011. Influence of *Tylenchorhynchus ewingi* on growth of loblolly pine seedlings, and host suitability of legumes and small grains. *Nematology XX*: _____ (accepted).

Dan Miller... had the following manuscript submitted; **Miller, D.R.** and **C.M. Crowe**. Evaluation of Lindgren multiple-funnel, Intercept panel and Colossus pipe traps for catching Cerambycidae and associated species in southeastern USA. *J. Econ. Entomol.*

... **Dan** also had the following manuscripts published; **Miller, D.R.** and J.D. Allison. 2011. Variation in enantiospecific attraction of *Ips avulsus* (Coleoptera: Curculionidae) to the pheromone ipsdienol in Georgia. *J. Econ. Entomol.* 104: 895-900.

Miller, D.R., C. Asaro, **C.M. Crowe** and D.A. Duerr. 2011. Bark beetle pheromones and pine volatiles: Attractant kairomone lure blend for longhorn beetles (Cerambycidae) in pine stands of the southeastern United States. *J. Econ. Entomol.* 104: 1245-1257.

Micheal Ulyshen ... had a paper recently accepted for publication; Little, N.S., Riggins, J.J., Schultz, T.P., Londo, A.J., **Ulyshen, M.D.** *In Press*. Feeding Preference of Native Subterranean Termites (Isoptera: Rhinotermitidae: *Reticulitermes*) for Wood Containing Bark Beetle Pheromones and Blue-Stain Fungi. *Journal of Insect Behavior*.