

## Curriculum Vitae Jason Bradley Oliver



### 1. CONTACT INFORMATION:

[Tennessee State University](#)

[College of Agriculture, Human, and Natural Sciences](#)

Otis L. Floyd Nursery Research Center

472 Cadillac Lane, McMinnville, TN 37110

Phone: (931) 668-3572; Mobile: (931) 808-8210

Fax: (931) 668-3134

Email: [joliver@tnstate.edu](mailto:joliver@tnstate.edu) or [jasoliver@blomand.net](mailto:jasoliver@blomand.net)

### 2. EDUCATIONAL BACKGROUND

Ph.D. Entomology. August 13, 1999. Auburn University. Auburn, AL.

Dissertation Title: Weed host and parasitoid interactions of the bandedwinged whitefly (*Trialeurodes abutilonea* [Haldeman]) in the cotton agroecosystem. (225 pages).

GPA: 3.93/4.00.

M.S. Entomology. May 11, 1990. The University of Tennessee. Knoxville, TN.

Thesis Title: Effect of endophyte-infected tall fescue on the Japanese beetle and other selected soil insects. (87 pages). GPA: 3.96/4.00.

B.S. Wildlife and Fisheries Science (Minor Zoology). December 11, 1987. The University of Tennessee, Knoxville, TN. GPA: 3.37/4.00.

### 3. PROFESSIONAL WORK EXPERIENCE

July 1, 2016 to Present

RESEARCH PROFESSOR (100%) - Tennessee State University, College of Agriculture, Human, and Natural Sciences, TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. Supervisor: Dr. Nick Gawel

\*Duties: Direction of the Entomology Program at the Nursery Res. Center, including supervision of a research technician and laboratory assistants, design and implementation of experimental field research, collection and analysis of data, summarization of results for publication, presentation, and reports, procurement of research funds, administration of project budgets, and extension technology transfer to stakeholders. My research focus has been the integrated management of fire ants and Japanese beetle by chemical, cultural, and biological methods with emphasis on developing effective nursery plant quarantine treatments. Other research areas include biology, chemical management, and trap development for flatheaded borers, Scolytinae borers, and leafhoppers.

February 1, 2010 to July 1, 2016

RESEARCH / EXTENSION ASSOCIATE PROFESSOR (80/20%) - Tennessee State University, College of Agriculture, Human, and Natural Sciences, TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. Supervisor: Dr. Nick Gawel

\*Duties: Same as Research Professor described above.

October 1, 2008 to February 1, 2010

RESEARCH ASSOCIATE PROFESSOR - Tennessee State University, School of Agriculture and Consumer Sciences, TSU Otis L. Floyd Nursery Res. Center, McMinnville, TN. Supervisor: Dr. Nick Gawel

\*Duties: Same as Research Professor described above.

July 2002 to October 1, 2008

RESEARCH ASSISTANT PROFESSOR - Tennessee State University, School of Agriculture and Consumer Sciences (initially Institute Agric. Environ. Res.), TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. Supervisor: Dr. Nick Gawel

\*Duties: Same as Research Professor described above.

Sept. 2013 to Present

ADJUNCT ASSOCIATE PROFESSOR - University of Tennessee, Institute of Agriculture, Department of Entomology and Plant Pathology, Knoxville, TN. (I was previously an Adjunct Assistant Professor in 2008, but my term expired in 2012 and was not renewed until Sept. 2013).

January 2001 to July 2002

ASSOCIATE INVESTIGATOR - Tennessee State University, Cooperative Agric. Res. Program, TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. Supervisor: Dr. Nick Gawel.

\*Duties: Same as Research Professor described above.

March 1997- January 2001

RESEARCH ASSOCIATE - Tennessee State University, Cooperative Agric. Res. Program, TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. Supervisor: Dr. Catharine Mannion.

\*Duties: Research support for Entomology Program, including 1) management of the ambrosia beetle research program, 2) supervision of laboratory assistants, 3) execution, evaluation, analysis, and summarization of laboratory/field research trials directed against nursery pests, 4) propagation of Japanese beetle, parasitoids, entomopathogenic nematodes, and *Galleria mellonella*, 5) survey and taxonomic analysis of pitfall and trapping programs, and 6) damage assessments of nursery stock.

1992-1997

DOCTORAL GRADUATE RESEARCH ASSISTANT - Auburn Univ., Auburn, AL. Department of Entomology. Major Professor: Dr. Michael J. Gaylor.

\*Duties: Research on biological control of the bandedwinged whitefly and effects of weed hosts on whitefly bionomics and parasitoid interactions in field cotton. Research involved identification of whitefly weed hosts, rearing and identification of whitefly parasitoids, and evaluation of weed host influence on whitefly populations in cotton. The study found twenty-six weed hosts of bandedwinged whitefly in the cotton agro-ecosystem, whitefly development rates were greater on weeds like cocklebur than cotton, nine parasitoid species were identified, and parasitism rates varied depending on host plant. A technique was developed to identify parasitized whitefly nymphs and a novel genus and species of entomopathogenic fungus was collected during the study. Other responsibilities included supervision of research assistants, research planning, data collection, analysis, and summary, preparation of scientific results for publication and presentation, and coursework.

1991-1992

ASSOCIATE BIOLOGIST, Jaycor, Inc., Environmental Division/The Oak Ridge National Laboratory, Oak Ridge, TN. Supervisor: Dr. John Smith.

\*Duties: Identification and enumeration of benthic macro-invertebrate samples for environmental stream assessment program of the U.S. Department of Energy. Training included proper handling of benthic specimens from radioactive and mercury contaminated stream sediment.

Fall 1990

RESEARCH ASSISTANT - The University of Tennessee, Knoxville, TN. Department of Entomology and Plant Pathology. Supervisor: Dr. Charles D. Pless.

\*Duties: Interim position before starting Associate Biologist position. Duties included continuation and summarization of Master's research described below under Master's Graduate Research Assistant.

Summer 1990

PLANT PROTECTION QUARANTINE AID, GS-3 Step 1. USDA. Animal, Plant Health Inspection Service, Knoxville, TN.

\*Duties: Placement and monitoring of gypsy moth traps in Sevier County, Tennessee.

1988-1990

MASTERS GRADUATE RESEARCH ASSISTANT - The University of Tennessee, Knoxville, TN. Department of Entomology and Plant Pathology. Major Professor: Dr. Charles D. Pless.

\*Duties: Research on tall fescue/fungal endophyte symbiosis and the interaction with larval Japanese beetle and other soil-inhabiting arthropods. Duties included supervision of research assistants, research planning, data collection, analysis, and summary, preparation of scientific results for publication and presentation, and coursework. Studies found evidence of reduced first instar Japanese beetle survival in association with endophyte-infected fescue, as well as endophyte impacts on sminthurid springtails.

1986-1988

STUDENT ASSISTANT - The University of Tennessee, Knoxville, TN. Department of Zoology, Arachnology Laboratory. Supervisor: Dr. Susan Riechert

\*Duties: Responsible for feeding and watering of experimental funnel-web spider colonies. During summer months, maintained research garden plots, performed insect/arachnid surveys, operated pitfall traps, and assisted with spider mark-recapture studies.

#### **4. SERVICE ACTIVITIES AND PROFESSIONAL MEMBERSHIPS**

##### [Tennessee State University](#)

Member, College of Agriculture, Human, & Natural Sciences Faculty Awards Committee. April 2017.

College of Agriculture, Human, & Natural Sciences Tenure and Promotion Workshop. Nashville, TN. 7 Apr. 2017. I presented a 30 minute PowerPoint presentation on tenure/promotion packet preparation and also provided other materials like example cover letters, summary statements, section dividers, logging codes for categories, etc.

College of Agriculture, Human & Natural Sciences Departmental Extension Proposal Review Panel. Service completed 16 Sept. 2016.

Full Member, Tennessee State University Graduate Faculty, Term 31 May 2011 to Spring 2016. I became Associate Level 1 Graduate Faculty Member on 11 Apr. 2011.

Employment Search Committees: 10 Faculty (2 chair), 5 Post-Doctoral (2 chair), 4 Research Associate (1 chair), 4 Farm Staff and Administrative Assistants, 3 Outside Member for USDA-ARS

Member, Department of Agricultural & Environmental Sciences Quality Assurance and Productivity Committee (2015 - 2017).

Member, Department of Agricultural & Environmental Sciences Textbook & Library Subscriptions Committee (2015 - 2017).

Pest Management Sub-Committee organizer volunteer for the Disaster Education Resource Team (DERT). (Sept. 4, 2013 to present).

Science Olympiad Entomology Event Supervisor for middle and high school teams competing in competition. TSU Nashville Campus. (4 Apr. 2015).

Faculty Awards Committee (3/5/2014 to present)

Productivity, Effectiveness and Quality Assurance Committee (2/21/2014 - Present)

Outstanding Research Faculty Evaluation Committee, School of Agriculture and Consumer Sciences, 2011.

Agricultural Research and Education Center Committee (Jan. 2009)

Tennessee State University Academic Master Plan Year One Implementation. Work Group for Enhancement of the Travel Procedures. (Apr. 2009 - June 2009)

Plant Science Team (2008 - present)

Environmental Protection and Enhancement Team (2002 – 2008)

Safety and Lab Space Utilization Committee Member (1/2008 – 1/2009)

Space Utilization Committee (1/2004 – 1/2007)

Technology Committee (1/2005 – 1/2007)

Public Affairs and Hospitality Committee (2004 – 2005)

Welcoming Committee (2003 – 2004)

Service Volunteer - TSU 4th Annual Community Service Day. 27 Aug. 2010.

Horticultural Research Institute (HRI) proposal reviewer volunteer (July / August 2014) at request of Dr. Joseph Albano (HRI Research Programs Director).

USDA NIFA Grant Panel Peer Review Member. Critical and Emerging Pests and Diseases Program. Virtual Panel on Aug. 29, 2011.

eXtension Imported Fire Ant Community of Practice (IFA-COP). Invited to membership May 4, 2010. Added to Community Leadership May 11, 2011. Service has included assistance with development of "how to identify fire ants web page", multiple reviews of web page content, data contributions for fire ant maps from Tennessee, and two webinars given in 2011 and 2012. I was also invited to attend the eXtension National COP Workshop, Louisville, KY (28-30 June 2011) at the expense of the IFA-COP.

California Department of Agriculture Ad Hoc Japanese Beetle Science Advisory Panel.

Volunteer service started Aug. 10, 2015.

Imported Fire Ant Annual Research Conference. Chair of Local Arrangements Committee.

April 2012 Meeting, Nashville, TN.

[National Plant Board - U.S. Domestic Japanese Beetle Harmonization Plan](#)

[Japanese Beetle Regulatory Treatment Review Committee](#) - Research

Representative (2004 – present)

Member, Japanese Beetle Harmonization Plan Revision Committee. Appointed to serve by President of National Plant Board (Jan. 2013 - present)

Invitation Member, Tennessee Department of Agriculture Plant Certification Advisory Committee (5 June 2013 to present).

Member, Tennessee Master Nursery Program (TMNP) Planning Committee (2012 - present). I presented during the 18 Dec. 2012 class. The TMNP allows Tennessee nursery growers to qualify for a 50% cost share with the Tenn. Dept. Agric. The Committee submitted a grant to TDA that was funded to cover meeting costs for \$47,000.

Member, Tennessee Thousand Cankers Disease and Emerald Ash Borer Technical Advisory Committee (2011 - present).

Technical Consultant, Emerald ash borer (EAB) trapping for Delta-21 Resources, Inc. on their funded USDA-APHIS proposal to monitor EAB in Tennessee (5 Jan. 2011). I was also subsequently listed as a Technical Expert for EAB trapping surveys in Georgia contracted through Delta-21 (23 Mar. 2012).

[Southern Nursery Association](#)

Entomology Proceeding Editor and Section Moderator (2002 – 2004)

Moderator (2015)

[Tennessee Fire Ant Research and Education Team \(FARET\) - Core Team Member \(2004 - 2008\)](#)

[Tennessee Entomological Society](#)

President (2003 – 2004) / President Elect (2002 – 2003)

Chair, Constitution Committee (2015 – 2017); Member (2003 – 2004)

Member, Insect Festival Committee (2015 - 2017)  
Member, Prediction and Evaluation Committee (2003 – 2004, 2011 – 2017)  
Chair, Program Committee (2002 – 2003); Member (2003 – 2004)  
Member, Publication and Editorial Committee (2013 – 2014)

[Association of Research Directors, Inc. - Biennial Research Symposium, Atlanta, GA](#)

Moderator: New and Emerging Technologies Session (2003)  
Student Poster Judge (2006 and 2009 Meetings)

[Member, Entomological Society of America](#)

Elected to the Southeastern Branch of Entomological Society of America Office of Member-at-Large to the Executive Committee. The position is a 3-year term starting at the end of the annual meeting on 15 March 2017.

Student presentation judge for Southeastern Branch Entomological Society of America (PhD Oral Competition 2016 Raleigh Meeting; MS Poster and Oral Competitions 2015 Biloxi Meeting).

Student Award Committee *Ex Officio*, Southeastern Branch of ESA (SEB-ESA). 15 Mar. 2017. Term 2017-2018. Previously Student Award Committee Chair (1 Mar. 2016-15 Mar. 2017) and Committee Member 2015-2016 (by invitation of Dr. John Adamczyk 10 Jul. 2015).

Membership Committee Chair (2015-2016). Co-Chair, Membership Committee, Southeastern Branch of ESA (volunteered Aug. 15, 2014). Member of committee since Mar. 19, 2014. Three year term of service.

Member, Nominating Committee (2014-2015), Southeastern Branch of ESA (volunteered Feb. 21, 2014).

Student poster judge: National Meeting, Indianapolis, IN (2009)

Auburn University Linnaean Team (1993 – 1996)

Registration and audio-visual volunteer: National Meeting, Nashville, TN (1997)

Moderator: Southeastern Branch Contributed Papers Session, Mobile, AL (2000)

Southeastern Branch program preparation assistant (1999 and 2000)

Journal Reviewer: Journal of Economic Entomology, Environmental Entomology

Student judge: Master's II Oral and Poster Sessions, Southeastern Branch, Biloxi, MS (2015)

[Member, Georgia Entomological Society](#)

[Member, Middle Tennessee Nursery Association](#)

[Member, Tennessee Nursery and Landscape Association](#)

Education Committee (2004 – 2005)

Auburn Entomology Student Newsletter (Editor, Spring 1995)

Alpha Gamma Rho Agriculture Fraternity - Alpha Kappa Chapter  
Scholarship Chairman (1986, 1987)

Entomology and Plant Pathology Club, The University of Tennessee (Treasurer, 1988)

Entomology Representative to Auburn University Ag-Roundup (1992, 1995, 1996)

F.S. Arant Entomology Club, Auburn University (Acting Vice President, Fall 1995)

Other Reviewer Service: *Advances in Entomology*, *Bulletin of Entomological Research*, *Canadian Journal of Forest Research*, *Florida Entomologist*, *HortTechnology*, *Insects*, *Journal of Agriculture and Urban Entomology*, *Journal of Entomological Science*, *The Great Lakes Entomologist*, *PeerJ Journal*, eXtension Imported Fire Ant Community of Practice Web Content, pesticide labels for various chemical companies, and outside peer reviews for both USDA-APHIS, USDA-ARS, and USDA Forest Service colleagues.

USDA-ARS Outside Reviewer on 5-Year Plan of Work for Dr. Michael Reding and Dr. Christopher Ranger. Nov. 13, 2014.

USDA-ARS Colleague Promotion Case File Review and Reference: Dr. Chris Ranger (4 Feb. 2014), Dr. Donna Fare (14 June 2012), Dr. Blair Sampson (16 July 2012), and Dr. Michael Reding (25 Oct. 2010).

USDA-APHIS-PPQ 360-Degree Online Assessment Rater for colleague (Anne-Marie Callcott). Completed 2 Mar. 2015.

## **5. HONORS, AWARDS, AND HONOR SOCIETIES**

Nominated by Dr. Juang-Horng Chong (Clemson University) at the recommendation of Dr. Ryan Kurtz (Chair of the Southeastern Branch of the Entomological Society of America's Member Awards Committee) to run for the National ESA Distinguished Achievement Award in Horticultural Entomology. Application packet and abbreviated CV submitted 30 May 2017.

Oliver, J.B. Recipient of the 2017 Southeastern Branch of the Entomological Society of America Distinguished Achievement Award in Horticultural Entomology. (Nominated for award by Dr. Juang-Horng Chong, Clemson University). Notification of Award 16 Feb. 2017.

Oliver, J.B. Elected to the Office of Southeastern Branch of the Entomological Society of America Member-at-Large. Term 15 Mar. 2017 to Mar. 2020.

Oliver, J.B. 15-Year Service Award. Tennessee State University. 2012. Nashville, TN.

Outstanding Research Faculty Award, Tennessee State University, School of Agriculture and Consumer Sciences, 9 April 2010.

Oliver, J.B. Nominated Southeastern Branch of Entomological Society of America Distinguished Achievement Award in Regulatory Entomology. (by Dr. Jerome Grant and Dr. Kevin Moulton, University of Tennessee). 2008.

Oliver, J.B. Nominated Southeastern Branch of Entomological Society of America Distinguished Achievement Award in Regulatory Entomology. (by Dr. Karen Vail, University of Tennessee). 27 August 2007.



Oliver, J.B. 10-Year Service Award. Tennessee State University 15<sup>th</sup> Annual Awards Celebration. 17 April 2007. Nashville, TN.

Tennessee State University Blue & White All Star Academy Awards. Certificate of Recognition Excellence in University Service. IAgER Fire Ant Research Program. 6 May 2006. Nashville, TN.

Invited Speaker Honorarium (\$200). Oliver, J.B. 2002. Quarantine pests: Fire ants, Japanese beetle, and the nursery industry. Presentation: Bayer Professional Care, Centers of Influence for Turf and Ornamental Entomologists, 4-7 June 2002. Atlanta, GA.

ALCOA Merit Scholarship - The University of Tennessee (1985 – 1987)

[Alpha Zeta Agriculture Honor Society - Morgan Chapter \(Vice President, 1986\)](#)

[Gamma Sigma Delta Honor Society of Agriculture](#)

The Honor Society of Phi Kappa Phi

Xi Sigma Pi Forestry Honor Society

National Honor Society of Secondary Schools

Best Student Paper (\$50). Oliver, J.B. and C.D. Pless. 1988. Endophyte presence in tall fescue and its effects on Japanese beetle and other grub and wireworm species. 16th Annual Meeting Tennessee Entomol. Soc. Nashville, TN.

## 6. REFEREED PUBLICATIONS

### Published Manuscripts

**Oliver, J.B.**, C.M. Ranger, M.E. Reding, N.N. Youssef, and J.J. Moyseenko. 2017. Insecticides and their combinations evaluated as regulatory immersion treatments for third-instar Japanese beetle (Coleoptera: Scarabaeidae) in field-grown and containerized nursery plants. *Journal of Entomological Science*. Accepted 1 May 2017. In Press.

Addresso, K.M., **J.B. Oliver**, P.A O'Neal, and N. Youssef. 2017. Efficacy of nootka oil as a biopesticide for management of imported fire ants (Hymenoptera: Formicidae). *Journal of Economic Entomology*. 2017: 1-9. (Submitted 11 Jan. 2017. Accepted 27 Feb. 2017. July 2017). DOI: 10.1093/jee/tox114.

Werle, C.T., K.A. Addresso, B.J. Sampson, **J.B. Oliver**, and J.J. Adamczyk. 2016. Integrating kaolin clay for ambrosia beetle management in ornamental crops of Eastern redbud. *HortScience*. 52(1): 94-98. (Submitted 9 Sept. 2016, Accepted 4 Nov. 2016. Published Jan. 2017). DOI: 10.21273/HORTSCI11351-16.

Klingeman, W.E., N.N. Youssef, **J.B. Oliver**, and J.P. Basham. 2017. The longhorned beetles (Coleoptera: Cerambycidae) of Tennessee: Distribution of known species, seasonal adult activity, and new state records. *Florida Entomologist*. Accepted 22 Dec. 2016. In Press.

- Reding, M.E., C.M. Ranger, **J.B. Oliver**, P.B. Schultz, N.N. Youssef, and A.M. Bray. 2017. Ethanol-injection induces attacks by ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) on a variety of tree species. *Agricultural and Forest Entomology*. 19: 34-41. DOI: 10.1111/afe.12178. (Submitted 21 Mar. 2016; Accepted 14 July 2016; Published Feb. 2017).
- Basham, J.P., **J.B. Oliver**, and C.E. Herzog. 2016. Delayed emergence of *Trachykele blondeli blondeli* (Coleoptera: Buprestidae). *Florida Entomol.* 99(3): 578-579. (Submitted March 2016. Accepted 8 Apr. 2016. Published Sept. 2016). (First Author Equivalent Corresponding Author).
- Ranger, C.M., M.E. Reding, P.B. Schultz, **J.B. Oliver**, S.D. Frank, K.M. Adesso, J.H. Chong, B. Sampson, C. Werle, S. Gill, and C. Krause. 2015. Biology, ecology, and management of nonnative ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) in ornamental plant nurseries. *Journal of Integrated Pest Management*. 7(1): 9; 1-23. DOI: 10.1093/jipm/PMW005. (Accepted 3 Feb. 2016. Published 29 Apr. 2016).
- Adesso, K.M., **J.B. Oliver**, and P.A. O'Neal. 2015. Survey for spotted-wing drosophila (Diptera: Drosophilidae) in the five-county nursery production region of middle Tennessee. *Florida Entomologist* 98(4): 1050-1055.
- Oliver, J.**, M. Reding, C. Ranger, M. Klein, N. Youssef, J. Moyseenko, and S. Dennis. 2015. Insecticides evaluated as regulatory immersion treatments to eliminate third-instar Japanese beetles (Coleoptera: Scarabaeidae), from small-diameter field-grown nursery plants. *Journal of Entomological Science*. 51(1): 9-28.
- Reding, M.E., C.M. Ranger, B.J. Sampson, C.T. Werle, **J.B. Oliver**, and P.B. Schultz. 2015. Movement of *Xylosandrus germanus* (Coleoptera: Curculionidae) in ornamental nurseries and surrounding habitats. *Journal of Economic Entomology* 108 (4): 1947-1953. (Accepted 1 June 2015).
- Hansen, J.A., J.K. Moulton, W.E. Klingeman, **J.B. Oliver**, M.T. Windham, R.N. Trigiano, and M.E. Reding. 2015. Molecular systematics of the *Chrysobothris femorata* species group (Coleoptera: Buprestidae). *Annals of the Entomological Society of America* 108(5): 950-963.
- Klingeman, W.E., J.A. Hansen, J.P. Basham, **J.B. Oliver**, N.N. Youssef, W. Swink, C.A. Nalepa, D.C. Fare, and J.K. Moulton. 2015. Seasonal flight activity and distribution of metallic woodboring beetles (Coleoptera: Buprestidae) collected in North Carolina and Tennessee. *Florida Entomologist*. 98 (2): 579-587.
- Werle, C.T., A.M. Bray, **J.B. Oliver**, E.K. Blythe, and B.J. Sampson. 2014. Ambrosia beetle (Coleoptera: Curculionidae: Scolytinae) captures using colored traps in southeast Tennessee and south Mississippi. *J. Entomol. Science*. 49(4): 373-382.

- Oliver, J.B.**, P.J. Landolt, N.N. Youssef, J.P. Basham, K.M. Vail, and K.M. Adesso. 2014. Trapping social wasps (Hymenoptera: Vespidae) in nurseries with acetic acid and isobutanol. *Journal of Entomological Science*. 49(4): 352-368.
- Ranger, C., A. Gorzlaneyk, K. Adesso, **J. Oliver**, M. Reding, P. Schultz, and D. Held. 2014. Conophthorin enhances the electroantennogram and field behavioral response of *Xylosandrus germanus* (Coleoptera: Curculionidae) to ethanol. *Agricultural and Forest Entomology*. 16(4): 327-334.
- Reding, M.E., C.M. Ranger, **J.B. Oliver**, and P.B. Schultz. 2013. Monitoring attack and flight activity of *Xylosandrus* spp. (Coleoptera: Curculionidae: Scolytinae): the influence of temperature on activity. *J. Econ. Entomol.* 106(4): 1780-1787. ([Online PDF](#))
- Oliver, J.B.**, C.M. Ranger, M.E. Reding, J.J. Moyseenko, N.N. Youssef, and A.M. Bray. 2013. Pre-harvest quarantine treatments of chlorantraniliprole, clothianidin, and imidacloprid-based insecticides for control of Japanese beetle (Coleoptera: Scarabaeidae) and other scarab larvae in the root zone of field-grown nursery trees. *J. Econ. Entomol.* 106(3): 1190-1199. ([Online PDF](#))
- Ranger, C.M., P.C. Tobin, M.E. Reding, A.M. Bray, **J.B. Oliver**, P.B. Schultz, S.D. Frank, and A.B. Persad. 2013. Interruption of the semiochemical-based attraction of ambrosia beetles to ethanol-baited traps and ethanol-injected trap trees by verbenone. *Environ. Entomol.* 42(3): 539-547.
- Ranger, C.M., M.E. Reding, **J.B. Oliver**, J.J. Moyseenko, N. Youssef, and C.R. Krause. 2013. Acute toxicity of plant essential oils to scarab larvae (Coleoptera: Scarabaeidae) and their analysis by gas chromatography-mass spectrometry. *J. Econ. Entomol.* 106(1): 159-167.
- Reding, M.E., **J.B. Oliver**, P.B. Schultz, C.M. Ranger, and N.N. Youssef. 2013. Ethanol injection of ornamental trees facilitates testing insecticide efficacy against ambrosia beetles (Coleoptera: Curculionidae: Scolytinae). *J. Econ. Entomol.* 106(1): 289-298. ([Online PDF](#))
- Ranger, C.M., M.E. Reding, P.B. Schultz, and **J.B. Oliver**. 2013. Influence of flood-stress on ambrosia beetle host-selection and implications for their management in a changing climate. *Agric. and Forest Entomol.* 15: 56-64. ([Online PDF](#))
- Hansen, J.A., J.P. Basham, **J.B. Oliver**, N.N. Youssef, W.E. Klingeman, J.K. Moulton, and D.C. Fare. 2012. New state and host plant records for metallic woodboring beetles (Coleoptera: Buprestidae) in Tennessee, U.S.A. *Coleopterist Bull.* 66(4): 337-343. ([Online PDF](#)).
- Ranger, C.M., M.E. Reding, P.B. Schultz, and **J.B. Oliver**. 2012. Ambrosia beetle (Coleoptera: Curculionidae) responses to volatile emissions associated with ethanol-injected *Magnolia virginiana*. *Environ. Entomol.* 41(3): 636-647.

- Werle, C.T., B.J. Sampson, and **J.B. Oliver**. 2012. Diversity, abundance and seasonality of ambrosia beetles (Coleoptera: Curculionidae) in southern Mississippi. *Midsouth Entomol.* 5: 1-5. ([Online PDF](#))
- Hansen, J.A., W.E. Klingeman, J.K. Moulton, **J.B. Oliver**, M.T. Windham, A. Zhang, and R.N. Trigiano. 2012. Molecular identification of *Synanthedonini* members (Lepidoptera: Sesiidae) using cytochrome oxidase I. *Ann. Entomol. Soc. Am.* 105(4): 520-528. ([Online PDF](#)).
- Reding, M.E., P.B. Schultz, C.M. Ranger, and **J.B. Oliver**. 2011. Optimizing ethanol-baited traps for monitoring damaging ambrosia beetles (Coleoptera: Curculionidae, Scolytinae) in ornamental nurseries. *J. Econ. Entomol.* 104 (6): 2017-2024. ([Online PDF](#))
- Ranger, C.M., M.E. Reding, **J.B. Oliver**, P.B. Schultz, J.J. Moyseenko, and N. Youssef. 2011. Comparative efficacy of plant-derived essential oils for managing ambrosia beetles (Coleoptera: Curculionidae, Scolytinae) and their corresponding mass spectral characterization. *J. Econ. Entomol.* 104 (5): 1665-1674.
- Ranger, C.M., M.E. Reding, K.J. Gandhi, **J.B. Oliver**, P.B. Schultz, L. Canas, and D.A. Herms. 2011. Species dependent influence of (-)-alpha-pinene on attraction of ambrosia beetles to ethanol-baited traps. *J. Econ. Ent.* 104 (2): 574-579.
- Oliver, J.B.**, D.C. Fare, N. Youssef, S.S. Scholl, M.E. Reding, C.M. Ranger, J.J. Moyseenko, and M.A. Halcomb. 2010. Evaluation of a single application of neonicotinoid and multi-application contact insecticides for flatheaded borer management in field grown red maple cultivars. *J. Environ. Hort.* 28(3): 135-149. ([Online PDF](#)).
- Reding, M., **J. Oliver**, P. Schultz, and C. Ranger. 2010. Monitoring ambrosia beetles in ornamental nurseries in Ohio, Tennessee, and Virginia: Influence of trap height. *J. Environ. Hort.* 28 (2): 85-90. ([Online PDF](#)).
- Youssef, N.N., **J.B. Oliver**, M.E. Reding, C.M. Ranger, J.J. Moyseenko, and M.G. Klein. 2009. Field evaluation of plant-derived essential oils as potential repellents of adult Japanese beetle (Coleoptera: Scarabaeidae). *J. Econ. Entomol.* 102(4): 1551-1558. ([Online PDF](#))
- Oliver, J.B.**, R.K. Vander Meer, S.A. Ochieng, N.N. Youssef, E. Pantaleoni, F.A. Mrema, K.M. Vail, P.J. Parkman, S.M. Valles, W.G. Haun, and S. Powell. 2009. Survey of imported fire ant populations in Tennessee. *J. Entomol. Science.* 44(2): 1-9. ([Online PDF](#)).
- Oliver, J.B.**, M.E. Reding, N.N. Youssef, M.G. Klein, B. Bishop, and P. Lewis. 2009. Surface-applied insecticide treatments for elimination of larval Japanese beetle (Coleoptera: Scarabaeidae) from field-grown nursery plants. *Pest Management Science.* 65(4): 381-390. ([Online PDF](#)).

- Ranger, C.M., M.E. Reding, **J.B. Oliver**, J.J. Moyseenko, and N.N. Youssef. 2009. Toxicity of botanical formulations to nursery-infesting white grubs (Coleoptera: Scarabaeidae). *J. Econ. Entomol.* 102(1): 304-308.
- Oliver, J.B.**, D.C. Fare, N. Youssef, M.A. Halcomb, M.E. Reding, and C.M. Ranger. 2009. Evaluation of systemic insecticides for potato leafhopper control in field-grown red maple. *J. Environ. Hort.* 27: 17-23. ([Online PDF](#))
- Francese, J.A., **J.B. Oliver**, I. Fraser, D.R. Lance, N. Youssef, A.J. Sawyer, and V.C. Mastro. 2008. Influence of trap placement and design on capture of the emerald ash borer (Coleoptera: Buprestidae). *J. Econ. Entomol.* 101 (6): 1831-1837. ([Online PDF](#))
- Oliver, J.B.**, M.E. Reding, S.O. Dennis, J.J. Moyseenko, N.N. Youssef, M.G. Klein, A.A. Callcott, S.S. James, L.R. McAnally, and B.L. Bishop. 2008. Drench treatments for management of larval Japanese beetle (Coleoptera: Scarabaeidae) in field-grown balled and burlapped nursery plants. *J. Econ. Entomol.* 101 (4): 1158-1166. ([Online PDF](#))
- Oliver, J.B.**, M.E. Reding, M.G. Klein, N.N. Youssef, C.M. Mannion, B. Bishop, S.S. James, and A. Callcott. 2007. Chlorpyrifos immersion to eliminate third instars of Japanese beetle (Coleoptera: Scarabaeidae) in balled and burlapped trees and subsequent treatment effects on red maple. *J. Econ. Entomol.* 100 (2): 307-314. ([Online PDF](#))
- Mmbaga, M.T. and **J.B. Oliver**. 2007. Effect of biopesticides on foliar diseases and Japanese beetle (*Popillia japonica*) in roses (*Rosa* spp.), oakleaf hydrangea (*Hydrangea quercifolia*) and crape myrtle (*Lagerstroemia indica*) *Arboriculture and Urban Forestry.* 33: 210-219. ([Online PDF](#))
- Valles, S.M., C.A. Strong, D.H. Oi, S.D. Porter, R.M. Pereira, R.K. Vander Meer, Y. Hashimoto, L.M. Hooper-Bùi, H. Sánchez-Arroyo, T. Davis, V. Karpakakunjaram, K.M. Vail, L.C. “Fudd” Graham, J.A. Briano, L.A. Calcaterra, L.E. Gilbert, R. Ward, K. Ward, **J.B. Oliver**, G. Taniguchi, and D.C. Thompson. 2007. Phenology, distribution, and host specificity of *Solenopsis invicta* virus. *J. Invert. Path.* 96: 18-27. ([Online PDF](#)).
- Oliver, J.B.**, M.E. Reding, J.J. Moyseenko, M.G. Klein, C.M. Mannion, B. Bishop. 2006. Survival of adult *Tiphia vernalis* (Hymenoptera: Tiphidae) after insecticide, fungicide, and herbicide exposure in laboratory bioassays. *J. Econ Entomol.* 99 (2): 288-294. ([Online PDF](#))
- Vogt, J.T. and **J.B. Oliver**. 2006. Distribution and size of imported fire ant (Hymenoptera: Formicidae) mounds in recently invaded ball-and-burlap nurseries in Tennessee. *J. Entomol. Sci.* 41: 385-393.
- Oliver, J.B.**, C. Mannion, M. Klein, and J. Moyseenko. 2005. Effect of insecticides on *Tiphia vernalis* (Hymenoptera: Tiphidae) oviposition and survival of progeny to cocoon stage when parasitizing *Popillia japonica* (Coleoptera: Scarabaeidae) larvae. *J. Econ. Entomol.* 98 (3): 694-703. ([Online PDF](#))

Francesse, J.A., V.C. Mastro, **J.B. Oliver**, D.R. Lance, S.G. Lavalley, and N. Youssef. 2005. Evaluation of colors for trapping *Agrilus planipennis* (Coleoptera: Buprestidae). *J. Entomol. Sci. Note.* 40: 93-95.

**Oliver, J.B.** and C.M. Mannion. 2001. Ambrosia beetle (Coleoptera: Scolytidae) species attacking chestnut and captured in ethanol-baited traps in Middle Tennessee. *Environ. Entomol.* 30 (5): 909-918. ([Online PDF](#))

**Oliver, J.B.** and M.J. Gaylor. 2001. Technique for the collection of adult parasitoids and detection of parasitoids in fourth-instar bandedwinged whitefly (Homoptera: Aleyrodidae). *J. Entomol. Sci. Note.* 36: 97-100.

Mannion, C.M., W. McLane, M.G. Klein, J. Moyseenko, **J.B. Oliver**, and D. Cowan. 2001. Management of early-instar Japanese beetle (Coleoptera: Scarabaeidae) in field-grown nursery crops. *J. Econ. Entomol.* 94 (5): 1151-1161. ([Online PDF](#))

Steinkraus, D.C., **J.B. Oliver**, R.A. Humber, and M.J. Gaylor. 1998. Mycosis of bandedwinged whitefly (*Trialeurodes abutilonea*) (Homoptera: Aleyrodidae) caused by *Orthomyces aleyrodis* gen. & sp. nov. (Entomophthorales: Entomophthoraceae). *J. Invert. Path.* 72: 1-8. (Selected as feature cover article). ([Online PDF](#)).

### Submitted / In Preparation Manuscripts

Klingeman, W.E., A.M. Bray, **J.B. Oliver**, C.M. Ranger, and D.E. Palmquist. 2017. Trap deployments in black walnut tree canopies help inform monitoring strategies for bark and ambrosia beetles (Coleoptera: Curculionidae: Scolytinae). *Environ. Entomol.* Submitted 5 May 2017.

Bray, A., W. Klingeman, **J. Oliver**, J. Juzwik, N. Youssef, D. Eskandarnia, and S. Reed. 2014. Walnut twig beetle (Coleoptera: Curculionidae) seasonal flight response to wounding in walnut trees in urban landscapes in eastern Tennessee. *Environ. Entomol.* (In Preparation).

## 7. NON-REFEREED PUBLICATIONS

### Extension, Industry and Other Publications

Youssef, N. and **J. Oliver**. 2016. Oriental beetle. Tenn. State Univ. College of Agric., Human, and Natural Sciences Disaster Education Response Team publication. Publ. No. TSU-16-0043(A)-15c-13515.

Blalock, A., **J. Oliver**, and K. Adesso. 2015. The maple tip borer. TSU College Agric., Human & Natural Sciences Cooperative Extension Publ. No. TSU-14-0166(A)-14-06165.

Addesso, K. and **J. Oliver**. 2014. Brown marmorated stink bug. Tennessee State University College of Agriculture, Human & Natural Science Disaster Education Response Team Publication. TSU Publication No. TSU-12-0043(A)-15c-13515.

Addesso, K. and **J. Oliver**. 2014. Kudzu bug. Tennessee State University College of Agriculture, Human & Natural Science Disaster Education Response Team Publication. TSU Publication No. TSU-12-0043(A)-15c-13515.

Blalock, A. and **J. Oliver**. 2014. Controlling the flatheaded appletree borer in nurseries with soil applied systemic insecticides. Tennessee State University. College of Agriculture, Human & Natural Sciences Cooperative Extension. Publication No. TSU-14-0166(A)-14-06165.

**Oliver, J.**, A. Blalock, K. Addesso, and N. Youssef. 2013. Adding or changing a blocking plate on a Herd GT-77 spreader. TSU-14-0073(A)-15-83007.

**Oliver, J.**, A. Blalock, K. Addesso, and N. Youssef. 2013. Baiting nursery blocks with a Herd GT-77 spreader. TSU-14-0072(A)-15-83007.

**Oliver, J.**, K. Vail, N. Youssef, W. Haun, and S. Powell. 2013. Post-harvest drenching to certify container-grown or balled and burlapped nursery plants in the Federal Imported Fire Ant Quarantine. TSU-14-0071(A)-15-83007 and Univ. Tenn. PB1818.

**Oliver, J.**, K. Addesso, N. Youssef, A. Blalock, and K. Vail. 2013. Calibrating a fire ant bait spreader. Tennessee State Univ. Publication Number TSU-14-0055(A)-9h-83007 and Univ. Tenn. PB 1817.

Addesso, K., and **J. Oliver**. 2013. Spotted wing drosophila. Tennessee State University College of Agriculture, Human, and Natural Sciences. Disaster Education Response Team Publication. ([Online PDF](#)).

Ranger, C.M., M.E. Reding, P.B. Schultz, and **J.B. Oliver**. 2012. Biology, behavior, and management of ambrosia beetles attacking ornamental nursery stock. OFA - The Assoc. of Horticultural Professionals Bulletin. No. 937: 20-23.

Addesso, K. and **J. Oliver**. 2012. Hemlock wooly adelgid. Tennessee State University College of Agriculture, Human, and Natural Sciences. Disaster Education Response Team Publication. TSU-12-0043(A)-15c-13515. ([Free PDF](#)).

**Oliver, J.B.**, N. Youssef, J. Basham, A. Bray, K. Copley, F. Hale, W. Klingeman, M. Halcomb, and W. Haun. 2012. Camphor shot borer a new nursery and landscape pest in Tennessee. Tennessee State University (TSU-13-0005(A)-6a-17090) and University of Tennessee (SP742) extension publication. ([Free PDF](#)).



Rinehart, T., and **J.B. Oliver**. 2011. Usefulness of fire ant genetics in insecticide efficacy trials, pp. 104-108. *In* S. Ludwig (ed.), Proc. Southern Nursery Assoc. Res. Conf. Mobile, AL (Proceeding only)

Hale, F., B. Klingeman, A. Windham, G. Haun, S. Powell, **J. Oliver**, A. Self, M. Windham, J. Grant, and E. Long. 2010. Pests in the spotlight - walnut twig beetle and thousand cankers disease of black walnut. *Tenn. Greentimes*. 11 (4): 10-14.

**Oliver, J.B.**, N. Youssef, J. Basham, K. Copley, M. Halcomb, F. Hale, and W. Haun. 2010. The camphor shot borer - Tennessee's new invasive ambrosia beetle. *Tenn. Greentimes*. 11(3): 8-11.

**Oliver, J.B.**, N. Youssef, C. Ranger, M. Reding, and P. Schultz. 2010. Promising biopesticides for protecting trees from ambrosia beetles. Factsheet prepared for educational session "Using biopesticides to control diseases and insect pests in ornamental plants" at the Tennessee State University School of Agriculture & Consumer Sciences, Poinsettia Open House, 17 Dec. 2010, Nashville, TN.

Mmbaga, M.T. and **J. Oliver**. 2010. Biopesticide tests on roses to prevent Japanese beetle damage. Factsheet prepared for educational session "Using biopesticides to control diseases and insect pests in ornamental plants" at the Tennessee State University School of Agriculture & Consumer Sciences, Poinsettia Open House, 17 Dec. 2010, Nashville, TN.

Ranger, C.M., M. Reding, **J. Oliver**, J. Moyseenko, and N. Youssef. 2010. Toxicity of biopesticides to different white grub species. Factsheet prepared for educational session "Using biopesticides to control diseases and insect pests in ornamental plants" at the Tennessee State University School of Agriculture & Consumer Sciences, Poinsettia Open House, 17 Dec. 2010, Nashville, TN.

Vail, K. and **J. Oliver**. 2010. Managing fire ants in and around Tennessee's schools. The University of Tennessee Institute of Agriculture Extension and Tennessee State University School of Agriculture and Consumer Sciences. Department of Agricultural Sciences. Publication No. PB1788-5M-5/10 R12-4610-233-044-10. ([Weblink](#)).

Halcomb, M., F. Hale, D. Fare, and **J. Oliver**. 2010. Borer control in nursery grown dogwood, ash, maple and oak trees. The University of Tennessee Institute of Agriculture Extension and Tennessee State University School of Agriculture and Consumer Sciences, Department of Agricultural Sciences. April 2010. ([Weblink](#)).

**Oliver, J.B.**, S. Ochieng, K. Vail, N. Youssef, and M. Halcomb. 2010. Imported fire ant control in production nurseries using baits. Tennessee State University School of Agriculture and Consumer Sciences, Department of Agricultural Sciences and The University of Tennessee Institute of Agriculture Extension. 14 June 2010. Publication No. TSU-10-0034(A)-3-61065. ([Weblink](#))



Halcomb, M. and **J. Oliver**. 2009. Vicon spreader calibration steps for fire ant bait and granular chlorpyrifos. The University of Tennessee Institute of Agriculture Extension and Tennessee State University School of Agriculture and Consumer Sciences, Department of Agricultural Sciences. 19 November 2009. ([Weblink](#)).

**Oliver, J.B.**, S.A. Ochieng, and W.G. Haun. 2009. Update on new and anticipated nursery treatments for Japanese beetle and imported fire ants. Tennessee Green Times. 10 (1): 16-17.

**Oliver, J.**, N. Youssef, F. Hale, and M. Halcomb. 2005. The Asian ambrosia beetle – managing a little pest with a big bite. Tennessee Green Times. 6: 16-19.

Popenoe, J. 2005. Borers. Production Times. Univ. Florida IFAS Extension. 12: 2-3. (**Asian ambrosia beetle decision tree from my 2005 Green Times 6: 16-19 article republished in this article with my permission. I am cited in the article**).

Unauthored. 2005. Purple silhouette traps. Conference Notes of The IPM Practitioner. Berkeley, CA. 3: 12. (Research proceeding written for 2004 Emerald Ash Borer Research Conference was reprinted in this publication).

**Oliver, J.B.** 2004. Container insect pests: soil-borne and trunk attacking. Presented to the USDA Commodity Profile and Pest Management Strategic Plan for the Southern Region Pest Management Center – Assessment of Pest Management Practices for Container Tree Production in USDA Hardiness Zones 6 – 8, 27-28 Sep. 2004. Biloxi, MS. (Oral Presentation and Written Crop Commodity Profile)

Halcomb, M. 2003. How to manage ambrosia beetles. Univ. Tenn. Agric. Ext. Serv. Factsheet. **Credited as source of written information in last paragraph of factsheet.**

Ketchersid, D., B. Klingeman, F. Hale, and **J. Oliver**. 2002. Pests in the spotlight – The whitefringed beetle: an overlooked pest of ornamentals plants. Tenn. Green Times. 3(3):18-21

Vail, K.M., D. Bailey, and **J. Oliver**. 2002. Granular fipronil significantly reduces a black imported fire ant population in Tennessee. Univ. Tenn. Entomol. & Plant Path. Info. 60: 5-6.

Klingeman, B., **J. Oliver**, and F. Hale. 2002. Trees in trauma: will the southern pine beetle outbreak ever end? Georgia Green Industry Assoc. Journal. June 2002: 47-48.

Klingeman, B., **J. Oliver**, and P. Flanagan. 2002. Managing whitefringed beetle grubs in Tennessee nursery field soils. Tenn. Green Times. 3(4): 28-31.

Klingeman, B., **J. Oliver**, and F. Hale. 2001. Who's doin' all that chewin'? the European hornet. Tenn. Green Times. 2(4):34-36.

**Oliver, J.B.**, and C. M. Mannion. 2001. Ambrosia beetles attacking chestnut and captured in traps in middle Tennessee. Tenn. Green Times. 2(3):24-25.

Fare, D.C., C. Mannion, **J. Oliver**, and S. Mullican. 2001. Research update: flatheaded appletree borer infestations on newly planted maple liners. Tenn. Green Times. 2: 30-31.

Klingeman, B., **J.B. Oliver**, F. Hale. 2001. Pests in spotlight: trees in trauma: will the southern pine beetle outbreak ever end? Tenn. Green Times. 2: 20-21.

Oliver, J.B. 1996. CMC-10 for mounting chalcids. Chalcid Forum. 19:2. ([Weblink](#))

## Online Research Reports

All USDA-SIPS Reports Available at the Following [Website](#).

Callcott, A., X. Wei, S. James, L. McAnally, C. Hinton, **J. Oliver**, N. Youssef, C. Ranger, M. Reding, and J. Moyseenko. 2014. Summary of balled-and-burlapped (B&B) immersion/dip treatments for potential use in the Federal IFA Quarantine Program: 2002-2010, pp. 15-23. In A. Callcott and R. King, ed., USDA-APHIS 2012 CPHST Laboratory Report: Gulfport / Biloxi Station.

Callcott, A., **J. Oliver**, N. Youssef, C. Ranger, J. Moyseenko, and D. Oi. 2014. Alternative drench treatments for balled-and-burlapped (B&B) nursery stock use in the IFA Quarantine, spring and fall 2012 in Tennessee, pp. 23-26. In A. Callcott and R. King, ed., USDA-APHIS 2012 CPHST Laboratory Report: Gulfport / Biloxi Station.

**Oliver, J.**, N. Youssef, A. Callcott, D. Oi, C. Ranger, M. Reding, and J. Moyseenko. 2014. Individual tree drench treatments using 5-gallon bucket or tree rings as a potential quarantine treatment for field grown nursery stock - Tennessee fall 2012, pp. 26-28. In A. Callcott and R. King, ed., USDA-APHIS 2012 CPHST Laboratory Report: Gulfport / Biloxi Station.

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, C. Ranger, and J. Moyseenko. 2013. Alternative drench treatments for balled-and-burlapped nursery stock used in the IFA Quarantine, Spring 2010 in Tennessee, pp. 7-10. In A. Callcott (ed.), 2011 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture, Gulfport Lab, Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, **J. Oliver**, N. Youssef, C. Ranger, and J. Moyseenko. 2013. Alternative drench treatments for balled-and-burlapped nursery stock used in the IFA Quarantine, Spring and Fall 2011 in Tennessee, pp. 11-15. In A. Callcott (ed.), 2011 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture, Gulfport Lab, Gulfport, MS. (Report)

**Oliver, J.**, N. Youssef, X. Wei, A. Callcott, D. Oi, C. Ranger, M. Reding, and J. Moyseenko. 2013. Development of alternative quarantine treatment for field grown nursery stock - individual tree drench using 5-gallon bucket in Tennessee Fall 2010 and Fall 2011, pp. 20-24. In A. Callcott (ed.), 2011 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture, Gulfport Lab, Gulfport, MS. (Report)

Wei, X. (**J. Oliver** listed as primary leader TSU-NRC). 2010. Summary of flip drench trials for post-harvest balled-and-burlapped nursery stock 2004-2009, pp. 3-11. In A. Callcott (ed.), 2010 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture Gulfport Lab, Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, C. Ranger, and J. Moysenko. 2010. Alternative drench treatments for balled-and-burlapped nursery stock use in the IFA Quarantine, Spring and Fall 2009 in Tennessee, pp. 12-17. In A. Callcott (ed.), 2010 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture Gulfport Lab, Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, C. Ranger, and J. Moysenko. 2010. Alternative drench treatments for balled-and-burlapped nursery stock use in the IFA Quarantine, Fall 2010 in Tennessee, pp. 24-27. In A. Callcott (ed.), 2010 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture Gulfport Lab, Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, C. Ranger, and J. Moysenko. 2010. Alternative immersion treatments for balled-and-burlapped nursery stock for use in the IFA Quarantine, Tennessee Spring and Fall 2009, pp. 32-38. In A. Callcott (ed.), 2010 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture Gulfport Lab, Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, C. Ranger, and J. Moysenko. 2010. Alternative immersion treatments for balled-and-burlapped nursery stock for use in the IFA Quarantine, Tennessee Spring 2010, pp. 39-42. In A. Callcott (ed.), 2010 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture Gulfport Lab, Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, M. Reding, and J. Moysenko. 2009. Alternative drench treatments for balled-and-burlapped nursery stock use in the IFA Quarantine, Spring and Fall 2008 in Tennessee, pp. 8-15. In A. Callcott [ed.], 2009 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, C. Ranger, and J. Moysenko. 2009. Alternative drench treatments for balled-and-burlapped nursery stock use in the IFA Quarantine, Spring and Fall 2009 in Tennessee, pp. 16-21. In A. Callcott [ed.], 2009 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, M. Reding, and J. Moysenko. 2009. Alternative immersion treatments for balled-and-burlapped nursery stock for use in the IFA Quarantine, Tennessee 2008, pp. 28-36. In A. Callcott [ed.], 2009 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, C. Ranger, and J. Moysenko. 2009. Alternative immersion treatments for balled-and-burlapped nursery stock for use in the IFA Quarantine, Tennessee Spring & Fall 2009, pp. 37-43. In A. Callcott [ed.], 2009 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Wei, X., A. Callcott, L. McAnally, C. Hinton, **J. Oliver**, and N. Youssef. 2009. Development of alternative quarantine treatment for field grown nursery stock - individual tree drench treatment using tree ring or 5-gallon bucket in Mississippi and Tennessee 2009, pp. 62-73. In A. Callcott [ed.], 2009 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Callcott, A.A., S.S. James, S.O. Wade, J.L. Lamont, L.R. McAnally, T. Lockley, H. Collins, A. Ladner, R. Jones, X. Wei, C. Hinton, R. Weeks, **J. Oliver**, and N. Youssef. 2009. Summary of in-field band and block treatment trials for nursery stock, pp. 79-99. In A. Callcott [ed.], 2009 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Wei, X., A. Callcott, L. McAnally, C. Hinton, **J. Oliver**, N. Youssef, M. Reding, and J. Moysenko. 2008. Alternative immersion treatments for balled-and-burlapped nursery stock for use in the IFA Quarantine, Tennessee, Fall 2007, pp. 11-14. In A. Callcott [ed.], 2008 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Wei, X., A. Callcott, L. McAnally, C. Hinton, **J. Oliver**, N. Youssef, M. Reding, and J. Moysenko. 2008. Alternative immersion treatments for balled-and-burlapped nursery stock for use in the IFA Quarantine, Tennessee, Fall 2008, pp. 15-22. In A. Callcott [ed.], 2008 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, M. Reding, and J. Moysenko. 2008. Alternative drench treatments for balled-and-burlapped nursery stock use in the IFA Quarantine, Tennessee, Fall 2007, pp. 23-29. In A. Callcott [ed.], 2008 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, N. Youssef, M. Reding, and J. Moysenko. 2008. Alternative drench treatments for balled-and-burlapped nursery stock use in the IFA Quarantine, Tennessee, Spring and Fall 2008, pp. 34-40. In A. Callcott [ed.], 2008 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. April 2009. Gulfport, MS. (Report)

Callcott, A. 2007. Summary of numerous dip/immersion trials for balled-and-burlapped nursery stock 2002 - 2007, pp. 5-9. In A. Callcott [ed.], 2007 Accomplishment Report Imported Fire Ant Section, U.S. Department of Agriculture. May 2008. Gulfport, MS. **Jason Oliver** listed as primary project leader in the body of the report. (Report)

James, S., L. McAnally, A. Callcott, J. Lamont, **J. Oliver**, S. Dennis, and N. Youssef. 2007. Alternative drench treatments for balled-and-burlapped nursery stock use in the IFA Quarantine, Spring 2005, pp. 19-25. In A. Callcott [ed.], 2006 Accomplishment Report Soil Inhabiting Pests Section, U.S. Department of Agriculture. February 2007. Gulfport, MS. (Report)

**Oliver, J.B.**, J. Francese, V. Mastro, I. Fraser, D. Lance, and N. Youssef. 2005. Studies to develop an emerald ash borer survey trap. Emerald Ash Borer Website: sponsored by USDA Forest Serv., Michigan Dept. Agric., Michigan Dept. Nat. Resources, USDA-APHIS, Michigan State Univ., Purdue Univ., and Ohio State Univ. ([Report](#))

James, S., L. McAnally, A. Callcott, **J. Oliver**, S. Dennis, N. Youssef, M. Reding, and J. Moyseenko. 2005. A1M04 Final Report: Alternative IFA Quarantine drench treatments for balled-and burlapped nursery stock, Fall 2003 and Spring 2004, pp. 18-28. In Anne-Marie Callcott [ed.], 2005 Accomplishment Report Soil Inhabiting Pests Section, USDA-APHIS, Gulfport, MS. (Report)

James, S., L. McAnally, A. Callcott, J. Lamont, **J. Oliver**, S. Dennis, N. Youssef, M. Reding, and J. Moyseenko. 2005. A1M04 Interim Report: Alternative drench treatments for balled-and burlapped nursery stock use in the IFA Quarantine, Fall 2004 and Spring 2005, pp. 29-39. In Anne-Marie Callcott [ed.], 2005 Accomplishment Report Soil Inhabiting Pests Section, USDA-APHIS, Gulfport, MS. (Report)

James, S., L. McAnally, A. Callcott, J. Lamont, S. Wade, **J. Oliver**, S. Dennis, N. Youssef, M. Reding, and J. Moyseenko. 2005. A1M04 Final Report: Alternative immersion treatments for balled-and-burlapped nursery stock for use in the IFA Quarantine, Mississippi and Tennessee 2003-2005, pp. 50-71. In Anne-Marie Callcott [ed.], 2005 Accomplishment Report Soil Inhabiting Pests Section, USDA-APHIS, Gulfport, MS. (Report)

James, S., A. Callcott, L. McAnally, J. Lamont, **J. Oliver**, N. Youssef, P. Parkman, T. Rashid, and K. Vail. 2005. A1M04 Interim Report: Development of alternative quarantine treatment for field grown nursery stock - in-field individual tree treatment, 2005 winter, pp. 72-79. In Anne-Marie Callcott [ed.], 2005 Accomplishment Report Soil Inhabiting Pests Section, USDA-APHIS, Gulfport, MS. (Report)

James, S., A. Callcott, L. McAnally, R. Weeks, **J. Oliver**, P. Parkman, T. Rashid, K. Vail, and N. Youssef. 2004. A1M04 Development of alternative quarantine treatment for field grown nursery stock - in-field individual tree treatment, 2004 (Winter/Spring), pp. 12-20. In Anne-Marie Callcott [ed.], 2004 Accomplishment Report Soil Inhabiting Pests Section, USDA-APHIS. November 2005. Gulfport, MS. (Report)

James, S., A.-M. Callcott, L. McAnally, T. Lockley, S. Wade, R. Weeks, **J. Oliver**, N. Youssef, and K. Vail. 2003. A1P04 Final Report: Development of alternative quarantine treatment for field grown nursery stock – individual in-field tree treatment, 2003 (winter/spring), pp. 24-34. In Anne-Marie Callcott [ed.], 2003 Accomplishment Report USDA-APHIS Soil Inhabiting Pests Laboratory, Gulfport, MS. (Report)

McAnally, L., S. James, **J. Oliver**, and N. Youssef. 2003. A1P04 Final Report: Alternative B&B immersion or drench treatments for use in IFA Quarantine, 2002, pp. 38-42. In Anne-Marie Callcott [ed.], 2003 Accomplishment Report USDA-APHIS Soil Inhabiting Pests Laboratory, Gulfport, MS. (Report)

McAnally, L., S. James, **J. Oliver**, N. Youssef, M. Klein, and J. Moyseenko. 2003. A1P04 Final Report: Alternative B&B immersion treatments for use in the IFA quarantine, Spring 2003, pp. 43-44. In Anne-Marie Callcott [ed.], 2003 Accomplishment Report USDA-APHIS Soil Inhabiting Pests Laboratory, Gulfport, MS. (Report)

James, S., L. McAnally, A.-M. Callcott, S. Wade, R. Weeks, and T. Lockley. Cooperator: **J. Oliver**. 2003. A1P04 Final Report: Alternative B&B immersion or drench treatments for use in the IFA Quarantine, Mississippi and Tennessee, 2003, pp. 45-56. In Anne-Marie Callcott [ed.], 2003 Accomplishment Report USDA-APHIS Soil Inhabiting Pests Laboratory, Gulfport, MS. (Report)

Callcott, A., T. Lockley, L. McAnally, and S. Wade. Cooperator: **J. Oliver**. 2001. GPPS01-02 Final Report: Spot applications of granular insecticides for IFA quarantine treatments of nursery stock in Tennessee, pp. 38-43. In Anne-Marie Callcott [ed.], 2001 Accomplishment Report USDA-APHIS Soil Inhabiting Pests Laboratory, Gulfport, MS. (Report)

## 8. PRESENTATIONS (INCLUDES PROCEEDINGS / ABSTRACTS)

### Conferences, Workshops, and Grower Meetings

Invited **Oliver, J.**, M. Pandey, K. Adesso, N. Youssef, and P. O'Neal. 2017. Monitoring and management of fire ants. TSU Cooperative Extension Third Tuesday Workshop. 20 June 2017. Nashville, TN. (8 participants). (5 hours non-traditional teaching).

Invited **Oliver, J.**, K. Adesso, A. Witcher, N. Youssef, P. O'Neal, M. Pandey, and M. Brown. 2017. TSU entomology program research updates. Tennessee Nursery Field Day. TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. 20 June 2017. (Hosted by Syngenta Crop Protection, Inc. and TSU). (~75 participants [maybe 5 to 8 nursery growers]). (0.5 hours classroom nontraditional teaching credit).

Invited Adesso, K. and **J. Oliver**. 2017. Alternative methods for pest control. TSU Cooperative Extension Third Tuesday Workshop. 20 June 2017. Nashville, TN. (8 participants).

**Oliver, J.**, K. Adesso, S. Valles, N. Youssef, M. Pandey, P. O'Neal, J. Basham, J. Lampley, D. Eskandarnia, G. Roper, M. Patton, S. Powell, and A. Callcott. 2017. Geographic incidence of *Kneallhazia solenopsae* and *Solenopsis invicta* viruses (SINV-1, -2, and -3) in imported fire ant species and their hybrid in Tennessee. 2017 Imported Fire Ant and Other Invasive Ants Conference. 16-18 May 2017. Mobile, AL. (Oral Presentation and Proceeding).

Pandey, M., **J. Oliver**, K. Adesso, S. Valles, R. Archer, and A. Callcott. 2017. Imported fire ant worker size as relates to species/hybrid and geographic distribution in Tennessee. 2017 Imported Fire Ant and Other Invasive Ants Conference. 16-18 May 2017. Mobile, AL. (Oral Presentation and Proceeding).

Pandey, M., **J. Oliver**, K. Adesso, S. Valles, and A. Callcott. 2017. Relationship of imported fire ant (*Solenopsis* spp.) integument coloration to cuticular hydrocarbon and venom alkaloid indices. 2017 Imported Fire Ant and Other Invasive Ants Conference. 16-18 May 2017. Mobile, AL. (Poster Presentation and Proceeding).

Pandey, M., **J.B. Oliver**, K.M. Adesso, R. Archer, and P. Ganter. 2017. Size differences in imported fire ant species, patterns in geographic distribution and potential implications for biological control. Tenn. State Univ. 39th Annual University-Wide Research Sympos., 17-21 Apr. 2017. Nashville, TN. (Poster and Abstract for TSU Student Competition). (Dr. Oliver serves as Mr. Pandey's major advisor on his Master's Committee).

Youssef, N., **J.B. Oliver**, J. Basham, and J. Lampley. 2017. Buprestid and cerambycid trapping: the progression of 13 years of trapping. Tenn. State Univ. 39th Annual University-Wide Research Sympos., 17-21 Apr. 2017. Nashville, TN. (Poster Presentation and Abstract).

Pandey, M., **J. Oliver**, and K. Adesso. 2017. Relationship of imported fire ant size with species and geographic location in Tennessee and consequences for classical biological control programs. 18th Biennial Research Symposium of the Association of 1890 Research Directors. 1-4 Apr. 2017. Atlanta, GA. (Oral Presentation and Abstract in the Graduate Student Competition).

Pandey, M., **J.B. Oliver**, K.M. Adesso, S. Valles, and R. Archer. 2017. Relationship of imported fire ant (*Solenopsis* spp.) integument coloration to cuticular hydrocarbon and venom alkaloid indices. 2017 Annual Meeting of the Southeastern Branch Entomological Society of America. Memphis, TN. 12-15 Mar. 2017. (Graduate Student Competition Poster Presentation and Abstract). (Dr. Oliver serves as Mr. Pandey's major advisor on his M.S. Committee). **Mr. Pandey won second place in the Master's Student Poster Competition Session II.**

Dawadi, S., K. Adesso, **J.B. Oliver**, and P. O'Neal. 2017. Relationship between field environmental conditions, tree growth and incidence of flatheaded borer attack. 2017 Annual Meeting of the Southeastern Branch Entomological Society of America. Memphis, TN. 12-15 Mar. 2017. (Graduate Student Competition Poster Presentation and Abstract). (Dr. Oliver serves on Mr. Dawadi's MS Thesis project as a Committee Member).

Adesso, K., F. Baysal-Gurel, **J.B. Oliver**, and P. O'Neal. 2017. Protective effect of a fungicide against ambrosia beetle attacks and *Phytophthora cinammomi* infection post-flooding. 2017 Annual Meeting of the Southeastern Branch Entomological Society of America. Memphis, TN 12-15 Mar. 2017. (Contributed Oral Presentation).

Pandey, M., **J.B. Oliver**, K.M. Addesso, R. Archer, and P. Ganter. 2017. Size differences in imported fire ant species, patterns in geographic distribution and potential implications for biological control. Tenn. State Univ. 39th Annual University-Wide Research Sympos., 17-21 Apr. 2017. Nashville, TN. (Poster Presentation and Abstract for TSU Student Competition). (Dr. Oliver serves as Mr. Pandey's major advisor on his Master's Committee).

Youssef, N., **J.B. Oliver**, J. Basham, and J. Lampley. 2017. Buprestid and cerambycid trapping: the progression of 13 years of trapping. Tenn. State Univ. 39th Annual University-Wide Research Sympos., 17-21 Apr. 2017. Nashville, TN. (Poster Presentation and Abstract).

Pandey, M., **J. Oliver**, and K. Addesso. 2016. Patterns in imported fire ant size, geographical distribution, and hydrocarbon / venom alkaloid indices and the potential implications for biological control with phorid flies. 126th Meeting Tennessee Academy of Science. Austin Peay State Univ. 19 Nov. 2016. Clarksville, TN. (Master's Graduate Student Competition - Poster Presentation and Abstract).

Dawadi, S., K. Addesso, **J. Oliver**, and P. O'Neal. 2016. Cover crop presence and its impact on red maple insect pests. 126th Meeting Tennessee Academy of Science. Austin Peay State Univ. 19 Nov. 2016. Clarksville, TN. (Master's Graduate Student Competition - Poster Presentation and Abstract).

**Oliver, J.**, K. Addesso, S. Valles, N. Youssef, A. Callcott, M. Pandey, P. O'Neal, and W. Haun. 2016. Update on Tennessee surveys for *Solenopsis invicta* virus (SINV) and *Kneallhazia solenopsae* and discussion on the possible need to introduce these pathogens. 43rd Annual Meeting of the Tennessee Entomological Society. 6-7 Oct. 2016. Knoxville, TN. (Oral Presentation and Abstract).

Addesso, K., F. Baysal-Gurel, P. O'Neal, and **J. Oliver**. 2016. A stress-mitigating product to reduce ambrosia beetle attacks on trees. 43rd Annual Meeting of the Tennessee Entomological Society. 6-7 Oct. 2016. Knoxville, TN. (Oral Presentation and Abstract). (Dr. Oliver presented this talk at the meeting on behalf of Dr. Addesso, who was unable to attend).

Dawadi, S., K. Addesso, **J. Oliver**, and P. O'Neal. 2016. Impacts of cover crops presence on red maple tree insect pests. 43rd Annual Meeting of the Tennessee Entomological Society. 6-7 Oct. 2016. Knoxville, TN. (Oral Presentation and Abstract as part of the Graduate Student Paper Competition). (Dr. Oliver serves as a committee member on Mr. Dawadi's Master's Committee).

Pandey, M., **J. Oliver**, and K. Addesso. 2016. Patterns in imported fire ant size, geographical distribution, and hydrocarbon / venom alkaloid indices and the potential implications for biological control with phorid flies. 43rd Annual Meeting of the Tennessee Entomological Society. 6-7 Oct. 2016. Knoxville, TN. (Oral Presentation and Abstract as part of the Graduate Student Paper Competition). (Dr. Oliver serves as Mr. Pandey's major advisor on his Master's Committee).



- Invited **Oliver, J.**, K. Adesso, C. Ranger, M. Reding, M. Klein, N. Youssef, P. O'Neal, and J. Moysenko. 2016. Insecticides and bio-pesticides for scarab quarantine use in nurseries: potential and reality. Symposium: Scarabs without Borders: Lessons from a Century of Invastions. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Invited Symposium Poster Presentation and Abstract).
- First Place Student Winner Pandey, M., **J. Oliver**, K. Adesso, S. Valles, R. Archer, N. Youssef, and S. Dawadi. 2016. Relationship of imported fire ant species and hybrid status with worker size in colonies within Tennessee. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (First Place Winner MS Graduate Student Poster Competition and Abstract).
- Dawadi, S., K. Adesso, **J. Oliver**, and M. Pandey. 2016. Incidence of red maple tree insect pests in cover and non-cover crop production plots. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (MS Graduate Student Poster Competition and Abstract).
- Adesso, K., **J. Oliver**, P. O'Neal, and N. Youssef. 2016. Efficacy of nootka oil as a biopesticide for management of imported fire ants. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Poster Presentation and Abstract).
- Adesso, K., **J. Oliver**, P. O'Neal, and M. Brown. 2016. Stress signal reduction as a tool for managing ambrosia beetles in ornamental nursery stock. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Poster Presentation and Abstract).
- Youssef, N., **J. Oliver**, D. Fare, W. Klingeman, J. Francese, J. Basham, J. Lampley, D. Eskandarnia, and G. Roper. 2016. Buprestid and cerambycid trapping: the progression 13 years of trapping. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Poster Presentation and Abstract).
- Klingeman, W., A. Bray, **J. Oliver**, C. Ranger, and D. Palmquist. 2016. Walnut twig beetle trapping yields insights for monitoring secondary pest Scolytinae in Tennessee. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Poster Presentation and Abstract).
- Werle, C., J. Adamczyk, **J. Oliver**, C. Ranger, M. Reding, B. Sampson, and P. Schultz. 2016. A push-pull IPM strategy for invasive ambrosia beetles in ornamental nurseries. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Poster Presentation and Abstract).
- Bray, A., K. Adesso, **J. Oliver**, and P. O'Neal. 2016. Evaluation of potentially attractive compounds for wood-boring beetle management in Tennessee and Connecticut. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Poster Presentation and Abstract).

Reding, M., C. Ranger, P. Schultz, and **J. Oliver**. 2016. Interception strategies for managing ambrosia beetles (Coleoptera: Curculionidae) in tree nurseries. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Poster Presentation and Abstract).

Francese, J., B. Sorensen, N. Youssef, V. Lopez, J. Hilszczański, **J. Oliver**, and D. Lance. 2016. Developing and improving survey methods for emerald ash borer and other woodboring beetles. 2016 XXV International Congress of Entomology. 25-30 Sept. 2016. Orlando, FL. (Poster Presentation and Abstract).

Witcher, A.L., **J.B. Oliver**, D.H. Oi, G.B. Fain, K.M. Addesso, and N.N. Youssef. 2016. Efficacy of bifenthrin for control of imported fire ant in whole pine tree substrates, pp. 56-59. In A. Bray (ed.), Proc. 61st Southern Nursery Association Research Conference. 30 Aug. to 1 Sept. 2016. Athens, GA. (Oral Presentation and Proceeding).

Addesso, K.M., D.C. Fare, **J.B. Oliver**, and P.A. O'Neal. 2016. Dormant applications of horticultural oil and pyriproxyfen for control of first generation Japanese maple scale, pp. 46-50. In A. Bray (ed.), Proc. 61st Southern Nursery Association Research Conference. 30 Aug. to 1 Sept. 2016. Athens, GA. (Proceeding Only).

Tennessee State University Graduate Student Statistical Analysis Systems (SAS) Workshop. 8-9 Aug. 2016. Workshop co-taught by **Dr. Jason Oliver** and Dr. Karla Addesso. Day 1 (Dr. Oliver): Included how to prepare data for SAS in Microsoft Excel, basic SAS operating windows, keys, data input, programming language, syntax, and operators and basic SAS procedures. Day 2 (Dr. Addesso): Analyzing data in SAS and statistical procedures. (4.5 hours each non-traditional teaching)

Invited **Oliver, J.**, K. Addesso, N. Youssef, and M. Pandey. 2016. Imported fire ant: general information, biology, safety and management for livestock producers. Rutherford County Extension Office, Murfreesboro, TN (11 livestock producers plus Kimberly Hall [UT Extension]). 28 July 2016. (Invited Presentation). (4.5 hours non-traditional teaching).

Invited Tennessee State University Undergraduate Student Workshop Training: **Oliver, J.** and K. Addesso. 2016. Invasive insect species: importance, management, and plant protection. USDA-APHIS - ARD, TSU, & Alabama A&M Univ. Summer Training for Undergraduate Interns. 16 June 2016. Otis L. Floyd Nursery Research Center, McMinnville, TN. (7 TSU undergraduates, a TSU post-doctoral associate, and TSU faculty host Dr. Margaret Mmbaga).

Callcott, A., **J. Oliver**, D. Oi, N. Youssef, and K. Addesso. 2016. Potential IFA quarantine treatments for field-grown / balled-and-burlapped nursery stock. 2016 National Conference on Urban Entomology & Invasive Fire Ant Conference. 22-25 May 2016. Albuquerque, NM. (Oral Presentation and Abstract).

**Invited** **Oliver, J.,** K. Adesso, N. Youssef, P. O'Neal, and A. Callcott. 2016. What every County Extension Coordinator and Office Admin needs to know about fire ants in 30 minutes or less. Alabama Cooperative Extension System - Regional Webinar. 3 May 2016. (30 participants: 22 in workshop classroom at Auburn and 8 online. Mostly county extension agents in Alabama). (0.75 hours non-traditional teaching)

**Oliver, J.** 2016. 4-H Youth Forestry Teams Training: Recognizing forest health - insects on the National 4-H Forestry Invitational competition. Otis Floyd Nursery Research Center, McMinnville, TN. 2 May 2016. (6 high school students from Shelby and Williamson Counties, 1 coach, and 7 additional adults). (3 hours non-traditional teaching).

**Invited** **Oliver, J.** and K. Adesso. 2016. Common landscape and garden pests in Tennessee. Tennessee State University Cooperative Extension Third Tuesday Field Days & Education Workshops. Nashville, TN. 19 Apr. 2016. (5 hours non-traditional teaching).

**Oliver, J.,** A. Callcott, K. Adesso, N. Youssef, and P. O'Neal. 2016. Fire ants. 7th Annual Southern Lawn Garden & Home Show. Giles County Agri-Park, Pulaski, TN. 8 Apr. 2016. (Approximately 8 attendees). (4.75 hours non-traditional teaching).

**Oliver, J.,** K. Adesso, N. Youssef, P. O'Neal, M. Pandey, S. Dawadi, and M. Brown. 2016. Treatment evaluations for rapid elimination of imported fire ant colonies. 2016 Tennessee State University-Wide Research Symposium. 4-7 Apr. 2016. (Poster Presentation and Abstract).

**Oliver, J.B.,** K. Adesso, A. Callcott, D. Oi, C. Ranger, M. Reding, N. Youssef, P. O'Neal, and J. Moyseenko. 2016. Insecticide and biopesticide treatments applied by treering chemigation for quarantine management of larval Japanese beetle and imported fire ant. 90th Annual Meeting of the Southeastern Branch of the Entomological Society of America - Ornamentals Symposium. 13-17 Mar. 2016. Raleigh, NC. (Oral Presentation)

Werle, C., K. Adesso, B. Sampson, **J. Oliver**, and J. Adamczyk. 2016. Integrating kaolin into ambrosia beetle (Coleoptera: Curculionidae: Scolytinae) pest management in ornamental tree nurseries. 90th Annual Meeting of the Southeastern Branch of the Entomological Society of America. 13-17 Mar. 2016. Raleigh, NC. [Note: Chris Werle is a PhD student and this talk is also in the PhD student competition]. (Oral Presentation and Abstract)

**Invited** **Oliver, J.,** K. Adesso, and D. Fare. 2016. Systems approach to flatheaded borer management. Tennessee Department of Agriculture Inspector Training. Nashville, TN. 14 Jan. 2016. (Invited Oral Presentation).

**Invited** Adesso, K. and **J. Oliver.** 2016. Overview of systems approach to pest management and example with Japanese maple scale. Tennessee Department of Agriculture Inspector Training. Nashville, TN. 14 Jan. 2016. (Invited Oral Presentation).

**Oliver, J.B.,** K. Addesso, A. Callcott, N. Youssef, and P O'Neal. 2015. Evaluation of individual and combination insecticide and biopesticide treatments for rapid elimination of imported fire ant colonies for use in the Federal Imported Fire Ant Quarantine. 63rd Annual Meeting of the Entomological Society of America. 15-18 Nov. 2015. Minneapolis, MN. (Poster Presentation)

Reding, M.E., C. Ranger, B. Sampson, C. Werle, **J.B. Oliver**, and P.B. Schultz. 2015. Characterizing movement of ambrosia beetles in nurseries and surrounding habitats. 63rd Annual Meeting of the Entomological Society of America. 15-18 Nov. 2015. Minneapolis, MN. (Oral Presentation).

Bray, A., K. Addesso, **J.B. Oliver**, and P. O' Neal. 2015. Evaluation of potentially attractive compounds for woodboring beetle management. 63rd Annual Meeting of the Entomological Society of America. 15-18 Nov. 2015. Minneapolis, MN. (Poster Presentation).

Klingeman, W., A. Bray, and **J.B. Oliver**. 2015. Trapping strategies for monitoring seasonal flight activity of *Cnestus mutilatus* in Tennessee. 63rd Annual Meeting of the Entomological Society of America. 15-18 Nov. 2015. Minneapolis, MN. (Poster Presentation and Abstract).

**Oliver, J.,** K. Addesso, N. Youssef, P. O'Neal, C. Ranger, M. Reding, and J. Moyseenko. 2015. Reducing imidacloprid rates used in nurseries for Japanese beetle quarantine treatments. 42nd Annual Meeting of the Tennessee Entomological Society. 15-16 Oct. 2015. Knoxville, TN. (Oral Presentation and Abstract).

Addesso, K., **J. Oliver**, P. O'Neal, and N. Youssef. 2015. Managing ambrosia beetles in nursery production with barrier products. 42nd Annual Meeting of the Tennessee Entomological Society. 15-16 Oct. 2015. Knoxville, TN. (Oral Presentation and Abstract).

Invited **Oliver, J.,** K. Addesso, and N. Youssef. 2015. Managing imported fire ants and other new insect pests in the landscape. Tennessee Green Industry Expo Educational Program. Music City Convention Center. 17 Sept. 2015. Nashville, TN.

**Oliver, J.,** A. Callcott, N. Youssef, K. Addesso, D. Oi, K. Vail, M. Halcomb, X. Wei, C. Ranger, M. Reding, and J. Moyseenko. 2015. Preliminary studies (2005-2009) to develop a pre-harvest insecticide band application for quarantine management of imported fire ant in field-grown nurseries - lessons learned, pp. 79-85. In A. Bray [Ed.], 60th Annual Proc. Southern Nursery Assoc. Res. Conf. 21-23 July 2015. Atlanta, GA. (Oral Presentation and Proceeding).

Invited **Oliver, J.B.** and Addesso, K. 2015. Controlling insect pests in the nursery and landscape. Tennessee State University Annual Field Day. Otis L. Floyd Nursery Research Center, McMinnville, TN. 17 June 2015. (Three separate 1-hour hands-on and PowerPoint training sessions each attended by about 35 participants each for total of 105 attendees plus 2 children). [Note: Both Dr. Addesso and myself gave this talk, with each of us taking turns speaking about different pests. Therefore, we were both first authors on the presentation. I have listed myself as first author on this citation].

Invited

**Oliver, J.B.**, K. Addesso, N. Youssef, and P. O'Neal. 2015. Wood borers and their management. BenLomand Garden Club. TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. 5 June 2015. (22 attendees). (Total of 2 teaching contact hours).

Addesso, K.M., **J.B. Oliver**, P.A. O'Neal, and N.N. Youssef. 2015. Potential for incorporation of a plant essential oil for managing imported fire ants in ornamental nurseries. 37th Annual University-Wide Research Symposium. March 31 to April 2, 2015. Nashville, TN. (Poster Presentation and Abstract).

**Oliver, J.B.**, C. Ranger, K. Addesso, M.E. Reding, N. Youssef, and J. Moyseenko. 2015. Research to find alternative nursery treatments for the Japanese Beetle Harmonization Plan in the event of future neonicotinoid restrictions or unavailability. 89th Annual Meeting of the Southeastern Branch of the Entomological Society of America. 15-18 Mar. 2015. Biloxi, MS. (Oral Presentation).

**Oliver, J.B.**, K. Addesso, N. Youssef, P. O'Neal, C. Ranger, M. Reding, P.B. Schultz, B. Sampson, J.P. Basham, J. Lampley, and D. Eskandarnia. 2014. Tree proximity and ethanol dose as factors in trap tree strategy for exotic ambrosia beetles. 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation and Abstract).

Ranger, C.M., P.B. Schultz, S.D. Frank, M.E. Reding, P. Tobin, **J.B. Oliver**, and K. Addesso. 2014. Non-native ambrosia beetles as indicators of living, but weakened trees. 62nd Annual Meeting of the Entomological Society of America. Symposium: Exploring Complex Interactions Among Non-Native Bark and Ambrosia Beetles (Coleoptera: Scolytinae), Their Associated Fungi, and Naïve Hosts. 16-19 Nov. 2014. Portland, OR. (Oral Symposium Presentation).

Nelson, L.J., A. Bray, P.L. Dallara, W. Klingeman, **J. Oliver**, and S. Seybold. 2014. Comparative flight responses of the walnut twig beetle, *Pityophthorus juglandis*, to varying release rates of ethanol in combination with aggregation pheromone in California and Tennessee. 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation and Abstract).

Addesso, K., **J.B. Oliver**, P.A. O'Neal, and N.N. Youssef. 2014. Managing imported fire ants with the essential oil of Alaskan yellow cedar (*Cupressus nootkatensis*). 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation and Abstract).

Addesso, K., S. Leahy, and **J.B. Oliver**. 2014. Monitoring phorid fly establishment at release sites in middle Tennessee. 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation and Abstract).

Bray, A., K. Addesso, **J. Oliver**, and P. O'Neal. 2014. Calling all wood-boring beetles: laboratory and in-field bioassays with potentially attractive compounds for beetle management. 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation and Abstract).

Bray, A., **J.B. Oliver**, N. Youssef, J.P. Basham, K. Addesso, C.M. Ranger, and V. Mastro. 2014. Comparison of tree bolt ethanol infusion treatments to commercial lures for the longevity of attraction of wood-boring insects. 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation).

Reding, M., C. Ranger, C. Werle, **J. Oliver**, P.B. Schultz, and B. Sampson. 2014. Seasonal movement of exotic ambrosia beetles (Coleoptera: Scolytinae) into ornamental nurseries. 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation).

Schultz, P.B., C. Ranger, M.E. Reding, and **J. Oliver**. 2014. Effect of extreme winter temperatures on ambrosia beetle outbreaks in Virginia nurseries. 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation).

Youssef, N., **J. Oliver**, J.P. Basham, J. Lampley, and D. Eskandarnia. 2014. Testing of three panel traps for the collection of buprestid and cerambycid beetles. 62nd Annual Meeting of the Entomological Society of America. 16-19 Nov. 2014. Portland, OR. (Poster Presentation).

**Oliver, J.B.**, K. Addesso, N. Youssef, S. Leahy, P. O'Neal, W. Haun, S. Powell, K. Vail, A. Callcott, and A. Bass. 2014. Update on phorid decapitating fly release in Tennessee to manage imported fire ant. 41st Annual Meeting of the Tennessee Entomological Society, 16-17 Oct. 2014. Knoxville, TN. (Abstract and Oral Presentation).

Leahy, S., K. Addesso, and **J. Oliver**. 2014. Repellency and toxicity of essential oils against workers of hybrid imported fire ants. 41st Annual Meeting of the Tennessee Entomological Society, 16-17 Oct. 2014. Knoxville, TN. (Abstract and Oral Presentation).

Invited **Oliver, J.**, K. Addesso, and N. Youssef. 2014. Borer and fire ant management in landscapes. Wilson County Master Gardners Meeting, Lebanon, TN. 2 Sept. 2014. (Invited Oral Presentation with ~ 50 adults in attendance).

**Oliver, J.B.** and N. Youssef. 2014. Insects of Tennessee and their impact on agricultural stakeholders. Tennessee State University College of Agriculture, Human & Natural Sciences Cooperative Extension Program's Small Farmer Recognition Program. 17 July 2014. Nashville, TN. (Educational Extension Display - At least 15 youth visited the display plus probably 50+ adults. I provided extension publications to several and discussed insect management with others).

Mmbaga, M.T. and **J.B. Oliver**. 2014. Alternative products for disease and pest control. Tennessee State University College of Agriculture, Human & Natural Sciences Cooperative Extension Program's Small Farmer Recognition Program. 17 July 2014. Nashville, TN. (Educational Extension Display).

Oi, D.H., A. Callcott, and **J. Oliver**. 2014. Evaluation of bifenthrin band treatments with targeted mound injections and broadcast baiting as a fire ant quarantine treatment in a pot-in-pot nursery. 2014 Annual Imported Fire Ant Conference. 5-8 May 2014. Palm Springs, CA. (Poster Presentation and Proceeding)

**Oliver, J.B.** and K.M. Adesso. 2014. Imported fire ant research for nurseries. Tennessee Green Industry Field Day, McMinnville, TN. 3 June 2014. [This 15 minute talk was given during Gray Haun's talk session at Gray's request, since he was unable to attend the meeting. Gray's original title was "Plant regulatory update: what landscapers, nursery growers, and garden centers need to know about quarantine and regulated items". Steve Powell and Anni Self also presented during the session].

Invited Adesso, K.M. and **J.B. Oliver**. 2014. Ornamental nursery and landscape pests of concern in Tennessee. Tennessee Green Industry Field Day, McMinnville, TN. 3 June 2014.

**Oliver, J.**, K. Adesso, N. Gawel, and N. Youssef. 2014. Tennessee nursery grower imported fire ant stakeholder meeting. 21 May 2014. McMinnville, TN. [Growers attending the meeting included Frank Collier (Pleasant Cove Nursery), Mike Milstead (LanTenn Nursery), Eric Walker (Walker Nursery Co.), Jerry Blankenship (Little Creek Nursery), Steve Bennett (Riverbend Nurseries), and Elliott Hallum (Mountain Creek Nursery). Attendees that could not attend, but were sent a post-meeting summary included Tracy Adcock (Scenic Hills Nursery), David Greene (Pro-Gro Nursery), and Michael Kassees (Forest Nursery Co.)].

Youssef, N., **J. Oliver**, J. Basham, and J. Lampley. 2013. Effectiveness of buprestid and cerambycid beetle capture with purple and translucent sticky traps. Tennessee State University University-Wide Research Sympos. 31 Mar. to 4 Apr. 2014. Nashville, TN (Poster Presentation and Abstract).

Invited **Oliver, J.** and K. Adesso. 2014. Fire ants and other crops pests. Tennessee State University Cooperative Extension Program Third Tuesday Field Days & Educational Workshops. 21 Jan. 2014. Nashville, TN. (Invited Oral Presentation and Website Handout - 20 attendees).

Invited Adesso, K. and **J. Oliver**. 2014. Spotted wing drosophila and kudzu bug. Tennessee State University Cooperative Extension Program Third Tuesday Field Days & Educational Workshops. 21 Jan. 2014. Nashville, TN. (Invited Oral Presentation and Website Handout - 20 attendees).

Invited **Oliver, J.** and K. Adesso. 2014. Fire ants and their control. Middle Tennessee Landscape Short Course. Hosted by Tennessee State University, University of Tennessee, and Tennessee Department of Agriculture. 15 Jan. 2014. Ag Expo Park, Franklin, TN (Invited Oral Presentation - 150 attendees).

Bray, A., **J. Oliver**, W. Klingeman, N. Youssef, S. Reed, and J. Juzwik. 2013. Walnut twig beetle (*Pityophthorus juglandis*) trapping in east Tennessee: Experimental summaries. 3rd Annual Conference on Thousand Cankers Disease and Emerald Ash Borer in the Eastern United States. 11-12 Dec. 2013. Knoxville, TN. (Poster Presentation).

**Oliver, J.**, K. Adesso, C. Ranger, B. Sampson, M. Reding, N. Youssef, J. Moysenko, and A. Callcott. 2013. Reduced-risk biopesticides evaluated for ambrosia beetle and Japanese beetle control. TSU Extension Workshop: Disease and Pest Management - How to Make It Safe? 4 Dec. 2013. TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. (Oral Presentation). Dr. Margaret Mmbaga and I co-organized this workshop.

Adesso, K. and **J. Oliver**. 2013. Systemics, organics, and alternative methods for pest control. TSU Extension Workshop: Disease and Pest Management - How to Make It Safe? 4 Dec. 2013. TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. (Oral Presentation).

Werle, C., A. Bray, **J. Oliver**, B. Sampson, C. Ranger, P. Schultz, M. Reding, and J. Kuehny. 2013. Trapped in a prism: effects of trap color on ambrosia beetle (Coleoptera: Curculionidae: Scolytinae) capture. 61st Annual Meeting of the Entomol. Soc. Amer. 10-13 Nov. 2013. Austin, TX. (Poster Presentation).

Bray, A., **J. Oliver**, W. Klingeman, N. Youssef, S. Reed, and J. Juzwik. 2013. Trapping for walnut twig beetle, *Pityophthorus juglandis*, in east Tennessee: What worked and what failed. 61st Annual Meeting of the Entomol. Soc. Amer. 10-13 Nov. 2013. Austin, TX. (Poster Presentation).

Bray, A., K. Adesso, and **J. Oliver**. 2013. Evaluation of tree bolt baits with attractants for wood-boring insects. 61st Annual Meeting of the Entomol. Soc. Amer. 10-13 Nov. 2013. Austin, TX. (Poster Presentation).

Reding, M., C. Ranger, **J. Oliver**, P. Schultz, C. Werle, and B. Sampson. 2013. Movement of *Xylosandrus germanus* (Coleoptera: Scolytinae) from woodlots into nurseries in Ohio. 61st Annual Meeting of the Entomol. Soc. Amer. 10-13 Nov. 2013. Austin, TX. (Poster Presentation).

Schultz, P., C. Ragner, M. Reding, and **J. Oliver**. 2013. Utilizing artificially flood-stressed trees to manage ambrosia beetles in commercial nurseries. 61st Annual Meeting of the Entomol. Soc. Amer. 10-13 Nov. 2013. Austin, TX. (Poster Presentation).

Adesso, K., G. Roper, P. O'Neal, and **J. Oliver**. 2013. Survey for spotted wing drosophila, *Drosophila suzukii* (Matsumura), in the five-county nursery production region of Tennessee. 61st Annual Meeting of the Entomol. Soc. Amer. 10-13 Nov. 2013. Austin, TX. (Poster Presentation).

Youssef, N., **J. Oliver**, J. Basham, and J. Lampley. 2013. Comparison of purple vs. clear sticky traps for the capture of buprestid and cerambycid beetles. 61st Annual Meeting of the Entomol. Soc. Amer. 10-13 Nov. 2013. Austin, TX. (Poster Presentation).



**Oliver, J.**, A. Callcott, N. Youssef, K. Vail, K. Adesso, D. Oi, and B. Sampson. 2013. Development of effective and practical nursery treatments for the Federal Imported Fire Ant Quarantine. Tennessee Entomological Society 40th Annual Meeting. Nashville, TN. (Oral Presentation and Abstract).

Adesso, K., G. Roper, and **J. Oliver**. 2013. Spotted wing drosophila in middle Tennessee. Tennessee Entomological Society 40th Annual Meeting. Nashville, TN. (Oral Presentation and Abstract).

Hale, F., J. Grant, **J. Oliver**, and S. Powell. 2013. An update on select invasive pests in Tennessee. Tennessee Entomological Society 40th Annual Meeting. Nashville, TN. (Oral Presentation and Abstract).

**Oliver, J.** 2013. Cumberland County High School Ag Day. Cumberland County Fair Grounds, Aug. 30, 2013. Spoke to about 300 high school Juniors and Seniors on insects and career opportunities at TSU. Paul Oneal was also present. There were also teachers and other adults present at this event with the youth attendees.

Hale, F., A. Windham, J. Grant, D. Hensley, **J. Oliver**, and S. Powell. 2013. The escalating cost of high impact invasive pests, pp. 108-112. 58th Annual Southern Nursery Assoc. Res. Conf. 5-7 Aug. 2013. Atlanta, GA. (Oral Presentation and Proceeding).

**Oliver, J.**, A. Bray, and N. Youssef. 2013. Native and invasive insects in Tennessee. 2013 Small Farm Expo and Recognition Program, 18 July 2013. Nashville, TN. (Educational Extension Display).

**Oliver, J.**, A. Callcott, D. Oi, N. Youssef, A. Bray, K. Vail, M. Halcomb, X. Wei, C. Ranger, M. Reding, J. Moyseenko, and B. Sampson. 2013. Potential of pre-harvest bifenthrin band treatments in conjunction with targeted mound injections for the Federal Imported Fire Ant Quarantine, pp. 47-49. In P. Schultz & H. Doughty [Eds.], Proc 2013 Imported Fire Ant Conference, 8-11 Apr. 2013. Virginia Beach, VA. (Oral Presentation and Proceeding).

Callcott, A., L.C. "Fudd" Graham, K. Loftin, **J. Oliver**, and D. Oi. 2013. Potential new quarantine treatments for the Federal IFA Quarantine, pp. 40-46. In P. Schultz & H. Doughty [Eds.], Proc 2013 Imported Fire Ant Conference, 8-11 Apr. 2013. Virginia Beach, VA. (Oral Presentation and Proceeding).

Invited **Oliver, J.** 2013. Fire ants, Japanese beetles, and other nursery pest issues. Tenn. Green Industry Field Day, June 4, 2013. Otis L. Floyd Nursery Research Center, McMinnville, TN. (Oral Presentation).

**Oliver, J.B.**, C. Ranger, N. Youssef, A. Bray, P. Schultz, M. Reding, and V. Mastro. 2013. Diversity of wood-boring beetles for tree bolt bait preparations used as trap attractants for wood-boring insects. Tennessee State University 35th Annual University-Wide Research Sympos. 1-5 Apr. 2013. Nashville, TN (Poster Presentation and Abstract).

Bray, A., **Oliver, J.**, N. Youssef, and V. Mastro. 2013. Assessment of storage methods for tree bolt bait preparations used as trap attractants for wood-boring insects. Tennessee State University 35th Annual University-Wide Research Sympos. 1-5 Apr. 2013. Nashville, TN (Poster Presentation and Abstract).

**Oliver, J.B.** 2013. Entomology research at the TSU Otis L. Floyd Nursery Research Center. Group presentation given to Dr. Justin Stefanski's Nursery Management class from Middle Tennessee State University. There were 7 male and 4 female undergraduate students that toured the laboratory displays while I explained our programs. Dr. Stefanski and another professor (Dr. Phillips) were also present. 20 March 2013. McMinnville, TN.

Werle, C.T., A.M. Bray, B.J. Sampson, **J. Oliver**, and J.S. Kuehny. 2013. Effects of trap color on ambrosia beetle (Coleoptera: Curculionidae: Scolytinae) capture. 87th Annual Meeting of the Southeastern Branch Entomol. Soc. Am. 3-5 Mar. 2013. Baton Rouge, LA. (Poster Presentation)

Invited Bray, A., and **J. Oliver**. 2013. The time is right: trapping pests to increase spray timing accuracy. Tenn. Nursery & Landscape Assoc. Winter Education Workshop. 18 Feb. 2013. Pigeon Forge, TN. (Invited Oral Presentation).

Invited **Oliver, J.B.**, A. Bray, N. Youssef, K. Adesso, C. Ranger, M. Reding, D. Fare, A. Callcott, M. Halcomb, B. Klingeman, J. Moysenko, K. Vail, J. Francese, A. Blalock, D. Oi, S. Seybold, P. Dallara, X. Wei, V. Mastro, M. Rietz, and W. Haun. 2013. Pest concerns for nursery industry and relevant research updates. Tennessee Department of Agriculture Inspector Training Meeting. 23 Jan. 2013. McMinnville, TN. (Invited Oral Presentation).

Invited **Oliver, J.B.**, A. Callcott, M. Halcomb, N. Youssef, K. Vail, A. Bray, K. Adesso, S. Ochieng, F. Mrema, C. Kimbro, J. Chandler, X. Wei, L. McAnally, C. Ranger, M. Reding, J. Moysenko, B. Sampson, T. Rinehart, C. Werle, W. Haun, and S. Powell. 2013. Research to develop new treatments for imported fire ant quarantine certification of nursery stock. Tennessee Department of Agriculture Inspector Training Meeting. 23 Jan. 2013. McMinnville, TN. (Invited Oral Presentation).

Invited **Oliver, J.B.** and K. Adesso. 2012. Dealing with pest quarantines. Tennessee Master Nursery Program. 18 Dec. 2012. Otis L. Floyd Nursery Research Center, McMinnville, TN. (Oral Presentation)

Invited Adesso, K. and **J. Oliver**. 2012. How systemics work, best use of systemics for multiple pests, and effect of systemics on pollinators. Tennessee Master Nursery Program. 18 Dec. 2012. Otis L. Floyd Nursery Research Center, McMinnville, TN. (Oral Presentation)

Invited Bray, A., **J. Oliver**, and W. Klingeman. 2012. Walnut twig beetle trap and lure development research update. 2nd Annual Conference on Thousand Cankers Disease and Emerald Ash Borer in the Eastern United States. 15-16 Nov. 2012. Knoxville, TN. (Oral Presentation)

- Oliver, J.B.**, C.M. Ranger, N. Youssef, A.M. Bray, P.B. Schultz, M.E. Reding, and V.C. Mastro. 2012. Attraction of Buprestidae, Cerambycidae, and Scolytinae to sticky traps baited with varying combinations of ethanol-injected red maple, Virginia pine, or white oak tree bolts. 60th Annual National Meeting of the Entomol. Soc. Amer. 11-14 Nov. 2012. Knoxville, TN. (Poster Presentation)
- Bray, A.M., **J.B. Oliver**, N. Youssef, V.C. Mastro, C.M. Ranger, P.B. Schultz, and M.E. Reding. 2012. Evaluation of storage methods for tree bolt bait preparations used as trap attractants for wood-boring insects. 60th Annual National Meeting of the Entomol. Soc. Amer. 11-14 Nov. 2012. Knoxville, TN. (Poster Presentation)
- Bray, A.M., W. Klingeman, J. Juzwik, S.E. Reed, **J.B. Oliver**, N. Youssef, P.L. Lambdin, and K. Nix. 2012. Evaluation of trapping methods for walnut twig beetle (*Pityophthorus juglandis*) in east Tennessee. 60th Annual National Meeting of the Entomol. Soc. Amer. 11-14 Nov. 2012. Knoxville, TN. (Oral Presentation)
- Schultz, P.B., **J.B. Oliver**, C.M. Ranger, and M.E. Reding. 2012. Using ethanol-infused maple logs in an ambrosia beetle interception strategy in commercial nurseries. 60th Annual National Meeting of the Entomol. Soc. Amer. 11-14 Nov. 2012. Knoxville, TN. (Poster Presentation)
- Reding, M.E., C.M. Ranger, P.B. Schultz, and **J.B. Oliver**. 2012. The relationship between temperature and *Xylosandrus germanus* flight and attack activity. 60th Annual National Meeting of the Entomol. Soc. Amer. 11-14 Nov. 2012. Knoxville, TN. (Poster Presentation)
- Dallara, P.L., A.M. Bray, L.J. Nelson, W. Klingeman, **J.B. Oliver**, and S.J. Seybold. 2012. Comparative flight responses of the walnut twig beetle, *Pityophthorus juglandis*, and associated insects to varying release rates of aggregation pheromone and host volatiles in California and Tennessee. 60th Annual National Meeting of the Entomol. Soc. Amer. 11-14 Nov. 2012. Knoxville, TN. (Poster Presentation)
- Ranger, C.M., A. Gorzlaneyk, D.W. Held, M.E. Reding, P.B. Schultz, and **J.B. Oliver**. 2012. Electrophysiological and field responses of *Xylosandrus germanus* to heterospecific pheromones. 60th Annual National Meeting of the Entomol. Soc. Amer. 11-14 Nov. 2012. Knoxville, TN. (Poster Presentation)
- Oliver, J.B.**, C.M. Ranger, A. Callcott, J. Moysenko, N.N. Youssef, A.M. Bray, X. Wei, and D. Oi. 2012. Using tree rings or buckets to chemigate field-grown nursery stock for Japanese beetle and imported fire ant quarantine certification. 39th Annual Meeting of the Tennessee Entomol. Soc. 11-12 Oct. 2012. Nashville, TN. (Oral Presentation and Abstract)
- Bray, A.M., **J.B. Oliver**, W. Klingeman, S. Seybold, N. Youssef, J. Juzwik, and S. Reed. 2012. Save the nuts: black walnut under attack. 39th Annual Meeting of the Tennessee Entomol. Soc. 11-12 Oct. 2012. Nashville, TN. (Oral Presentation and Abstract)

**Oliver, J.,** C. Ranger, N. Youssef, J. Moyseenko, A. Bray, A. Callcott, X. Wei, and D. Oi. 2012. New treatment application methods being tested that may reduce pesticide exposure (under the "Reducing accidental exposure to pesticides" session). Disease and Pest Management Extension Workshop, Organized by M. Mmbaga and J. Oliver and hosted by Tennessee State University, University of Tennessee, and Tennessee Department of Agriculture (TDA Pesticide Point School Number 20949). 12 Sept. 2012, Otis L. Floyd Nursery Research Center, McMinnville, TN (Oral Presentation).

**Oliver, J.,** A. Callcott, M. Halcomb, N. Youssef, K. Vail, A. Bray, C. Kimbro, J. Chandler, X. Wei, L. McAnally, C. Ranger, J. Moyseenko, T. Rinehart, G. Kirker, C. Werle, S. Ochieng, F. Mrema, W. Haun, and S. Powell. 2012. Imported fire ants - research to develop quarantine certification treatments. Disease and Pest Management Extension Workshop, Organized by M. Mmbaga and J. Oliver and hosted by Tennessee State University, University of Tennessee, and Tennessee Department of Agriculture (TDA Pesticide Point School Number 20949). 12 Sept. 2012, Otis L. Floyd Nursery Research Center, McMinnville, TN (Oral Presentation).

**Oliver, J.,** N. Youssef, J. Lampley, and J. Basham. 2012. Pesticide safety movie. Disease and Pest Management Extension Workshop, Organized by M. Mmbaga and J. Oliver and hosted by Tennessee State University, University of Tennessee, and Tennessee Department of Agriculture (TDA Pesticide Point School Number 20949). 12 Sept. 2012, Otis L. Floyd Nursery Research Center, McMinnville, TN (Movie Produced by Our Group and Shown to Meeting Participants).

Addresso, K., A. Bray, **J. Oliver**, C. Ranger, N. Youssef, M. Reding, P. Schultz, and J. Moyseenko. 2012. Ambrosia beetles in Tennessee nurseries (under "Ambrosia beetles - biology, management, and latest research" session). Disease and Pest Management Extension Workshop, Organized by M. Mmbaga and J. Oliver and hosted by Tennessee State University, University of Tennessee, and Tennessee Department of Agriculture (TDA Pesticide Point School Number 20949). 12 Sept. 2012, Otis L. Floyd Nursery Research Center, McMinnville, TN (Oral Presentation).

**Oliver, J.** and A. Bray. 2012. Native and invasive insects in Tennessee. Display presentation at the 2012 Cumberland County Fair Ag Day for Cumberland County High School Students. Approximately 300 students passed our display exhibit. Dr. Bray and I discussed insects with the students, talked about insect agricultural concerns, and let the students handle Madagascar hissing cockroaches. Cumberland County Fair Grounds. 31 Aug. 2012. Crossville, TN. (Display / Oral Presentation).

**Oliver, J.** and K. Addresso. 2012. Invasive insect threats to Tennessee. Display presentation at the 2012 Small Farm Expo and Small Farmer Recognition Program. Tennessee State University Main Campus Agric. Res. & Education Center. 30 Aug. 2012. Nashville, TN. (Display / Oral Presentation).

- Oliver, J.B.** 2012. Imported fire ant biology and management. White County Garden Club. 14 Aug. 2012. Otis L. Floyd Nursery Research Center, McMinnville, TN. (Oral Presentation).
- Invited Bray, A. and **J. Oliver**. 2012. Insects and their life cycle: you had better understand them. Joint Annual Meeting of the Southern Forest Nursery Association and the Northeast Forest & Conservation Nursery Association. 16 July 2012. Chattanooga, TN. (Oral Presentation).
- Invited Bray, A., **J. Oliver**, B. Klingeman, S. Reed, N. Youssef, G. Haun, J. Keener, C. Ranger, and J. Basham. 2012. Evaluation of tree injections and other methods to attract walnut twig beetle to traps. Presentation given to the Tennessee Thousand Cankers Disease and Emerald Ash Borer - Technical Committee. 27 Mar. 2012. (Invited Oral Presentation).
- Bray, A., N. Youssef, W. Klingeman, and **J. Oliver**. 2012. Walnut twig beetle trap development: can it sniff out the tree? Tennessee State University 34th Annual University-Wide Research Symposium, 26-30 Mar. 2012, Nashville, TN. (Poster and Abstract)
- Oliver, J.**, M. Reding, C. Ranger, P. Schultz, N. Youssef, J. Moyseenko, and A. Bray. 2012. Ambrosia beetle insecticide and biopesticide trials. Tennessee State University 34th Annual University-Wide Research Symposium, 26-30 Mar. 2012, Nashville, TN. (Poster and Abstract)
- Youssef, N., **J. Oliver**, J. Basham, and W. Klingeman. 2012. The long-horned beetles (Cerambycids) of Tennessee. Tennessee State University 34th Annual University-Wide Research Symposium, 26-30 Mar. 2012, Nashville, TN. (Poster and Abstract)
- Invited Bray, A., B. Klingeman, **J.B. Oliver**, S. Reed, C. Ranger, N. Youssef, J. Grant, P. Lambdin, K. Nix, G. Haun, J. Keener, V. Mastro, M. Reding, P. Schultz, J. Moyseenko, and J. Basham. 2012. Walnut twig beetle trap development and treatments designed to liberate host volatiles. 23rd USDA Interagency Research Forum on Invasive Species. Jan. 10-13, 2012. Annapolis, MD. (Invited Oral Presentation and Proceeding)
- Invited Bray, A., B. Klingeman, **J.B. Oliver**, S. Reed, C. Ranger, N. Youssef, J. Grant, P. Lambdin, G. Haun, J. Keener, S. Ochieng, V. Mastro, M. Reding, P. Schultz, J. Moyseenko, and J. Basham. 2011. Walnut twig beetle trap and lure development. Conference on Thousand Cankers Disease and Emerald Ash Borer in the Eastern United States. Nov. 30 - Dec. 2, 2011. Knoxville, TN.
- Oliver, J.B.**, M.E. Reding, C.M. Ranger, P.B. Schultz, N. Youssef, J. Moyseenko, and A. Bray. 2011. Evaluation of chemical treatments for the management of granulate ambrosia beetle and camphor shot borer in nursery trees. The 59th Annual Meeting of the Entomological Society of America. Reno, NV. (Poster Presentation).
- Youssef, N.N., **J.B. Oliver**, J.P. Basham, and W.E. Klingeman. 2011. The cerambycids (Coleoptera) of middle and eastern Tennessee from trapping, rearing, net and hand collecting. The 59th Annual Meeting of the Entomological Society of America. Reno, NV. (Poster Presentation).

Reding, M.E., C. Ranger, **J. Oliver**, and P.B. Schultz. 2011. Differential response of ambrosia beetles to various tree species injected with ethanol. The 59th Annual Meeting of the Entomological Society of America. Reno, NV. (Poster Presentation).

Schultz, P.B., C.M. Ranger, M.E. Reding, and **J. Oliver**. 2011. Using trap trees for minimizing risk of ambrosia beetle attacks in commercial nurseries. The 59th Annual Meeting of the Entomological Society of America. Reno, NV. (Poster Presentation).

Ranger, C.M., P.B. Schultz, S.D. Frank, **J.B. Oliver**, and M.E. Reding. 2011. Significance of water stress on the host-selection behavior and management of *Xylosandrus germanus* and other ambrosia beetles. The 59th Annual Meeting of the Entomological Society of America. Reno, NV. (Poster Presentation).

Bray, A.M., N. Youssef, W. Klingeman, P. Lambdin, K. Nix, and **J. Oliver**. 2011. Walnut twig beetle (*Pityophthorus juglandis*) in east Tennessee: testing trap types, height, and baits. The 59th Annual Meeting of the Entomological Society of America. Reno, NV. (Poster Presentation).

Invited Bray, A., B. Klingeman, **J.B. Oliver**, S. Reed, C. Ranger, N. Youssef, J. Grant, P. Lambdin, G. Haun, J. Keener, S. Ochieng, V. Mastro, M. Reding, P. Schultz, J. Moyseenko, and J. Basham. 2011. Efforts to develop traps and lures for walnut twig beetle. Thousand Cankers Disease - Technical Committee. 4 Oct. 2011. Knoxville, TN. (Presentation given by Oliver)

Invited **Oliver, J.B.**, D. Fare, C. Ranger, N. Youssef, A. Bray, M. Halcomb, M. Reding, S. Ochieng, and J. Basham. 2011. Wood boring insect management in landscapes / nurseries and new invasive insects in Tennessee. Middle Tennessee Nursery Assoc. 30 Sept. 2011. McMinnville, TN.

Invited **Oliver, J.B.**, A. Bray, W. Klingeman, S. Reed, C. Ranger, N. Youssef, G. Haun, J. Keener, J. Grant, P. Lambdin, S. Ochieng, V. Mastro, M. Reding, P. Schultz, J. Moyseenko, and J. Basham. 2011. Efforts to develop traps and lures for walnut twig beetle. USDA Forest Service Southern Region Forest Inventory and Analysis Unit. 21 Sept. 2011. Knoxville, TN.

Invited Bray, A., **J.B. Oliver**, B. Klingeman, S. Reed, N. Youssef, G. Haun, J. Keener, C. Ranger, and J. Basham. 2011. Walnut twig beetle trap and lure development. Horticultural Inspection Society - Southern Chapter. 14 Sept. 2011. Knoxville, TN.

Invited **Oliver, J.B.**, S. Ochieng, A. Callcott, M. Halcomb, N. Youssef, K. Vail, F. Mrema, A. Bray, C. Kimbro, J. Chandler, X. Wei, L. McAnally, C. Ranger, J. Moyseenko, T. Rinehart, G. Kirker, C. Werle, W. Haun, and S. Powell. 2011. Research to develop new treatments for imported fire ant quarantine certification of nursery stock. Horticultural Inspection Society - Southern Chapter. 14 Sept. 2011. Knoxville, TN.

**Oliver, J.B.** 2011. Bug out! Invasive insects to watch for. 2011 Small Farm Expo and Small Farmer Recognition Program. 8 Sept. 2011. TSU Otis Floyd Nursery Research Center, McMinnville, TN.

Invited

Bray, A., **J.B. Oliver**, W. Klingeman, S. Reed, N. Youssef, P. Lambdin, J. Grant, W. Haun, J. Keener, C. Ranger, and J. Basham. 2011. Evaluation of tree injection and other methods to attract walnut twig beetle to traps. Thousand Cankers Disease Workshop. 13 July 2011. Knoxville, TN. (Both Bray and Oliver presented)

Wei, X., A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, and N. Youssef. 2011. Promising insecticides and application techniques for quarantine level imported fire ant control of balled-and-burlapped nursery stock. 2011 Imported Fire Ant Conference, Galveston, TX. (April 4-7, 2011). (Poster Presentation and Abstract).

Schultz, P.B., C.M. Ranger, M.E. Reding, and **J.B. Oliver**. 2011. Evaluating use of ethanol-baited traps and ethanol-injected trees as a trap crop strategy against ambrosia beetles. Pacific Branch of the Entomological Society of America. 27-30 Mar. 2011. Waikoloa, Hawaii. (Oral Presentation and Abstract).

Werle, C.T., B.J. Sampson, **J.B. Oliver**, and C.I. Dilling. 2011. Diversity, abundance, and seasonality of ambrosia beetles in south Mississippi. Entomological Society of America Southeastern Branch, 19-22 Mar. 2011. San Juan, Puerto Rico. (Oral Presentation).

**Oliver, J.B.**, V. Eschenbacher, and N.N. Youssef. 2011. Techniques to measure ambrosia beetle seasonal incidence and diurnal flight timing around nurseries. TSU 33rd Annual University-Wide Research Symposium. 14-18 Mar. 2011. Nashville, TN (Poster Presentation and Abstract).

Youssef, N.N., **J.B. Oliver**, and J.P. Basham. 2011. Evaluation of manuka and phoebe oil baited purple sticky traps for the capture of buprestids and cerambycids (Coleoptera) in middle Tennessee. TSU 33rd Annual University-Wide Research Symposium. 14-18 Mar. 2011. Nashville, TN (Poster Presentation and Abstract).

Invited

**Oliver, J.B.**, A. Bray, N.N. Youssef, D.C. Fare, C.M. Ranger, M. Reding, S. Ochieng, M. Halcomb, S. Scholl, S. Cox, J. Moyseenko, and J. Basham. 2011. Borer management for nurseries and landscapes and new invasive species threats to Tennessee. Tennessee Nursery & Landscape Association. 14-15 February 2011. Pigeon Forge, TN (Oral Presentation)

**Oliver, J.B.**, A. Bray, C.M. Ranger, S. Ochieng, N. Youssef, V. Mastro, M.E. Reding, P.B. Schultz, B. Klingeman, J. Moyseenko, and J. Basham. 2011. Evaluation of tree injections and other methods to attract wood borers and scolytid beetles to traps. USDA Research Forum on Invasive Species, 11-14 January 2011. Annapolis, MD (Invited Oral Presentation and Abstract)

**Oliver, J.B.**, C.M. Ranger, M.E. Reding, P.B. Schultz, N.N. Youssef, and S.A. Ochieng. 2010. Comparison of different methods to assess seasonal and diurnal activity of ambrosia beetles (Coleoptera: Scolytinae). 2010 National Entomological Society Meeting. 12-15 Dec. 2010. San Diego, CA. (Poster Presentation)

Youssef, N.N., **J.B. Oliver**, and J.P. Basham. 2010. Evaluation of manuka and phoebe oil baited purple sticky traps for the capture of buprestids and cerambycids (Coleoptera) in middle Tennessee. 2010 National Entomological Society Meeting. 12-15 Dec. 2010. San Diego, CA. (Poster Presentation)

Reding, M., C. Ranger, **J. Oliver**, P. Schultz. 2010. Timing of ambrosia beetle attack activity monitored by ethanol-injected trees. 2010 National Entomological Society Meeting. 12-15 Dec. 2010. San Diego, CA. (Poster Presentation)

Schultz, P.B., **J. Oliver**, C. Ranger, and M. Reding. 2010. Evaluating crop methodologies for ambrosia beetle management in nurseries. 2010 National Entomological Society Meeting. 12-15 Dec. 2010. San Diego, CA. (Poster Presentation)

Ranger, C.M., M.E. Reding, P.B. Schultz, **J. Oliver**, J. Meneley, A. Persad, and S. Ochieng. 2010. Towards developing a push-pull management strategy for ambrosia beetles in ornamental nurseries. 2010 National Entomological Society Meeting. 12-15 Dec. 2010. San Diego, CA. (Poster Presentation)

Ranger, C.M., S. Ochieng, M.E. Reding, **J. Oliver**, and P.B. Schultz. 2010. Volatile emissions from ethanol-injected trap trees used for inducing attacks by ambrosia beetles. 2010 National Entomological Society Meeting. 12-15 Dec. 2010. San Diego, CA. (Poster Presentation)

**Oliver, J.B.**, C.M. Ranger, M.E. Reding, P. Schultz, N. Youssef, and J. Moyseenko. 2010. Efficacy of insecticides and biopesticides against ambrosia beetle species in Tennessee nurseries and evaluation of plant stress factors related to tree attacks. 17th Ornamental Workshop on Diseases and Pests, Kanuga Conference Center, 20-24 Sept. 2010. Hendersonville, NC. (Poster Presentation)

Youssef, N., **J.B. Oliver**, and J.P. Basham. 2010. Evaluation of manuka oil baited purple sticky traps for the capture of buprestids and cerambycids (Coleoptera) in middle Tennessee. 17th Ornamental Workshop on Diseases and Pests, Kanuga Conference Center, 20-24 Sept. 2010. Hendersonville, NC. (Poster Presentation)

**Oliver, J.B.**, S. Ochieng, N. Gawel, N. Youssef, F. Mrema, K. Vail, M. Halcomb, A. Callcott, X. Wei, L. McAnally, W.G. Haun, and S. Powell. 2010. Development of imported fire ant quarantine treatments for field-grown nursery stock. 17th Ornamental Workshop on Diseases and Pests, Kanuga Conference Center, 20-24 Sept. 2010. Hendersonville, NC. (Poster Presentation)

**Oliver, J.**, K. Copley, N. Youssef, J. Basham, M. Halcomb, and W. Haun. 2010. The camphor shot borer - a new invasive ambrosia beetle in Tennessee with potential to affect the nursery industry. 17th Ornamental Workshop on Diseases and Pests, Kanuga Conference Center, 20-24 Sept. 2010. Hendersonville, NC. (Poster Presentation)



Hansen, J., W.E. Klingeman, J.K. Moulton, **J.B. Oliver**, N. Youssef, J. Basham, M.T. Windham, and R.N. Trigliano. 2010. Trap data reveal seasonal flight activities of buprestid beetle species in Tennessee. 17th Ornamental Workshop on Diseases and Pests, Kanuga Conference Center, 20-24 Sept. 2010. Hendersonville, NC. (Poster Presentation)

Youssef, N., **J. Oliver**, S. Ochieng, A. Callcott, K. Vail, M. Halcomb, F. Mrema, C. Kimbro, J. Chandler, X. Wei, L. McAnally, C. Ranger, J. Moyseenko, T. Rinehart, G. Kirker, C. Werle, W. Haun, and S. Powell. 2010. Fire ant management in nurseries. 17th Ornamental Workshop on Diseases and Pests, Kanuga Conference Center, 20-24 Sept. 2010. Hendersonville, NC. (Oral Presentation).

**Oliver, J.B.** 2010. Fire ant quarantine demonstration tent - how to properly drench a balled and burlapped nursery plant, estimate a 20% container volume on a container of unknown volume, and use a tractor-mounted Vicon spreader to apply fire ant baits. Tennessee Green Industry Field Day, 10 August 2010. McMinnville, TN (~ 10 growers in attendance).

Invited **Oliver, J.B.**, S. Ochieng, D. Fare, C. Ranger, M. Reding, N. Youssef, J. Moyseenko, M. Halcomb, and P. Schultz. 2010. Research to improve management of borers in Tennessee nurseries. Tennessee Green Industry Field Day, 10 August 2010. McMinnville, TN (Invited Oral Presentation - ~ 50 growers in attendance).

**Oliver, J.B.** 2010. Wood-boring insects in Tennessee. 2010 Small Farm Expo and Small Farmer Recognition Program. School of Agriculture and Consumer Sciences, Otis L. Floyd Nursery Research Center, 15 July 2010. McMinnville, TN. (Oral Presentation)

Invited **Oliver, J.B.** 2010. Environmentally friendly delivery of bait attractant and toxicants to fire ants. Tennessee Innovation Conference and Venture Showcase. 10-11 May 2010. Loews Vanderbilt Hotel. Nashville, TN. (Oral Presentation and Summary Abstract). [Invited to be a Tennessee State University representative by Lou Svendsen, University Counsel, Tennessee Board of Regents]

**Oliver, J.B.**, S. Ochieng, A. Callcott, K. Vail, N. Youssef, M. Halcomb, F. Mrema, C. Kimbro, J. Chandler, X. Wei, L. McAnally, C. Ranger, J. Moyseenko, T. Rinehart, G. Kirker, C. Werle, W. Haun, and S. Powell. 2010. Efforts to develop pre-harvest treatments for imported fire ant quarantine certification of field-grown nursery stock in Tennessee. 2010 Imported Fire Ant and Invasive Ant Conf. 19-22 Apr. 2010. Little Rock AR. (Oral Presentation and [Proceeding](#))

X. Wei, A. Callcott, C. Hinton, L. McAnally, **J. Oliver**, and N. Youssef. 2010. Various individual tree drench methods coupled with post-harvest burlap treatment as IFA quarantine treatment method for field grown B&B nursery stock. 2010 Imported Fire Ant and Invasive Ant Conf. 19-22 Apr. 2010. Little Rock AR. (Poster Presentation and [Proceeding](#))

**Oliver, J.B.**, C.M. Ranger, M.E. Reding, P.B. Schultz, N.N. Youssef, and J.J. Moyseenko. 2010. Evaluation of insecticides, biopesticides, and stress treatments on tree attacks by ambrosia beetles. 32nd Annual University-Wide Research Sympos. Tenn. State Univ., 15-19 March 2010, Nashville, TN. (Poster Presentation and Abstract)

Youssef, N.N., **J.B. Oliver**, and J.P. Basham. 2010. Comparison of manuka oil baited and unbaited traps for the capture of buprestids and cerambycids. 32nd Annual University-Wide Research Sympos. Tenn. State Univ., 15-19 March 2010, Nashville, TN. (Poster Presentation and Abstract)

Invited **Oliver, J.B.**, D. Fare, C.M. Ranger, S. Ochieng, N. Youssef, S. Scholl, M.E. Reding, J. Moyseenko, M. Halcomb, P. Schultz, L. Castrillo, and J. Vandenberg. 2010. Update on research to manage imported fire ants, Japanese beetle, and other nursery-impacting pests. Tennessee Nursery & Landscape Association Winter Educational Workshop, 1-2 Feb. 2010. Pigeon Forge, TN. (Oral Presentation)

**Oliver, J.B.**, D.C. Fare, N.N. Youssef, S.S. Scholl, M.E. Reding, C.M. Ranger, J.J. Moyseenko, and M.A. Halcomb. 2010. Evaluation of insecticides for flatheaded borer management in field grown red maples, pp. 253-258. In W. Klingeman (ed.), Proc. 55th Annual Southern Nursery Assoc. Research Conf. 21-22 Jan. 2010. ([Proceeding](#) and Oral Presentation).

Hansen, J., W. Klingeman, **J. Oliver**, K. Moulton, N. Youssef, and J. Basham. 2010. Seasonal flight activities of economically and aesthetically important buprestid beetle species in Tennessee, pp. 259-262. In W. Klingeman (ed.), Proc. 55th Annual Southern Nursery Assoc. Research Conf. 21-22 Jan. 2010. Mobile, AL. ([Proceeding](#) and Poster Presentation).

**Oliver, J.B.**, C.M. Ranger, M.E. Reding, P. Schultz, N. Youssef, and J. Moyseenko. 2009. Efficacy of insecticides and biopesticides against ambrosia beetle species in Tennessee nurseries and evaluation of plant stress factors related to tree attacks. The 57th Annual Meeting of the Entomological Society of America. 13-16 Dec. 2009. Indianapolis, IN. (Poster Presentation)

Ranger, C.M., M.E. Reding, **J.B. Oliver**, J. Moyseenko, and N. Youssef. 2009. Acute toxicity of essential oils to Japanese beetle larvae and their corresponding mass spectral analysis. The 57th Annual Meeting of the Entomological Society of America. 13-16 Dec. 2009. Indianapolis, IN. (Poster Presentation)

Ranger, C.M., M.E. Reding, **J.B. Oliver**, and P. Schultz. 2009. Electrophysiological and behavioral responses of the ambrosia beetle, *Xylosandrus germanus*, to repellent formulations. The 57th Annual Meeting of the Entomological Society of America. 13-16 Dec. 2009. Indianapolis, IN. (Poster Presentation)

Ranger, C.M., M.E. Reding, **J.B. Oliver**, and P. Schultz. 2009. Development of an odor-based trap tree strategy for ambrosia beetles infesting ornamental nurseries. The 57th Annual Meeting of the Entomological Society of America. 13-16 Dec. 2009. Indianapolis, IN. (Poster Presentation)

Reding, M.E., C.M. Ranger, P.B. Schultz, and **J.B. Oliver**. 2009. Monitoring ambrosia beetles with ethanol injected sentinel trees and ethanol baited bottle traps in ornamental nurseries. The 57th Annual Meeting of the Entomological Society of America. 13-16 Dec. 2009. Indianapolis, IN. (Poster Presentation)

Schultz, P.B., C.M. Ranger, M.E. Reding, and **J.B. Oliver**. 2009. Efficacy of conventional and bio-pesticides against ambrosia beetle species in Virginia and Ohio nurseries. The 57th Annual Meeting of the Entomological Society of America. 13-16 Dec. 2009. Indianapolis, IN. (Poster Presentation)

Youssef, N., **J.B. Oliver**, and J.P. Basham. 2009. Evaluation of manuka oil baited purple sticky traps for the capture of buprestids and cerambycids (Coleoptera) in middle Tennessee. The 57th Annual Meeting of the Entomological Society of America. 13-16 Dec. 2009. Indianapolis, IN. (Poster Presentation)

Invited **Oliver, J.B.**, C.M. Ranger, M.E. Reding, and P. Schultz. 2009. Advances in understanding ambrosia beetle chemical ecology and utilizing the findings to improve insecticide management. Thousand Cankers Black Walnut National Conference. 3-4 November 2009. St. Louis, MO. (Oral Presentation)

Invited Ranger, C.M., **J.B. Oliver**, M.E. Reding, P. Schultz, L. Castrillo, and J. Vandenberg. 2009. Advances in understanding ambrosia beetle chemical ecology and utilizing the findings to improve insecticide management. Thousand Cankers Black Walnut National Conference. 3-4 November 2009. St. Louis, MO. (Oral Presentation)

Invited **Oliver, J.B.**, S. Ochieng, N. Gawel, N. Youssef, F. Mrema, K. Vail, M. Halcomb, A. Callcott, X. Wei, L. McAnally, W.G. Haun, and S. Powell. 2009. Development of imported fire ant quarantine treatments for field-grown nursery stock. USDA-ARS Floriculture and Nursery Research Initiative Meeting. 14-17 October 2009. Cleveland, OH. (Poster Presentation, Proceeding Summary, and Concept Paper).

Invited **Oliver, J.B.** 2009. Recognizing and managing borers. Tennessee State University Cooperative Extension Program, Ornamental and Turfgrass Pest Management Workshop. 9 September 2009. Nashville, TN. (Oral Presentation).

**Oliver, J.B.** 2009. Current research and extension activities. Tennessee State University School of Agriculture & Consumer Sciences Faculty Retreat. 20-21 July 2009. Nashville, TN. (Oral Presentation and 2 Page Research Summary).

- Oliver, J.B.** and S.A. Ochieng. 2009. Update on the development of new quarantine treatments to manage imported fire ants in commercial field nurseries. Tennessee Green Industry Field Day. Tennessee State University Otis L. Floyd Nursery Research Center, 4 Aug. 2009. McMinnville, TN. (Oral Presentation - 220+ growers)
- Oliver, J.B.** 2009. Imported fire ants: nursery research. Tennessee Association of Agricultural Agents and Specialists (University of Tennessee and Tennessee State University) as part of tour of Otis L. Floyd Nursery Research Center. 16 April 2009. McMinnville, TN. (Oral Presentation - 19 participants)
- Oliver, J.B.** and S. Ochieng. 2009. Update on fire ant research results. Nursery grower stakeholder meeting with Jerry Blankenship, Jon Flanders, Tim Gallagher, Jack Odom, Nathan Scott, and Eric Walker. Also attending were Dr. Nick Gawel and Mark Halcomb (Univ. Tenn. Nursery Extension Specialist). Otis L. Floyd Nursery Research Center Conf. Room. 27 May 2009. McMinnville, TN. (6 page summary handout and also short PowerPoint)
- Oliver, J.B.**, C. Ranger, M.E. Reding, J.J. Moyseenko, and N.N. Youssef. 2009. Treating field-grown nursery stock for Japanese beetle quarantine certification using conventional and biorational insecticides applied by a grower irrigation technique, pp. 189-190. *In* 1890 Research: Sustainable Solutions for the 21st Century. Association of Research Directors, Inc. 28 March - 1 April 2009. Atlanta, GA. (Poster Presentation and Abstract)
- Oliver, J.B.**, C. Ranger, M.E. Reding, J.J. Moyseenko, and N.N. Youssef. 2009. Pre-harvest irrigation: opportunity to apply biorational and conventional insecticides against Japanese beetle larvae in nurseries. Tennessee State University 31st Annual University-Wide Research Symposium. 30-31 March 2009. Nashville, TN. (Poster Presentation and Abstract)
- Oliver, J.B.**, M. Mmbaga, S. Ochieng, E. Ekanem, A. Callcott, and M. Halcomb. 2009. Development of biopesticides to enhance safety of pesticide handlers. NIOSH Grant Panel Site Review of the Southern Coastal Agromedicine Center. East Carolina University. 26 Feb. 2009. Greenville, NC. (Oral Presentation)
- Oliver, J.B.** 2009. Fire ant research update. Middle Tennessee Nursery Association Monthly Meeting. 19 Feb. 2009. McMinnville, TN. (Oral Presentation)
- Oliver, J.B.**, D.C. Fare, C.M. Ranger, N.N. Youssef, S. Scholl, M.A. Halcomb, M.E. Reding, and J.J. Moyseenko. 2009. Leafhopper control in field-grown red maples with systemic insecticides, pp. 158-162. In W.F. Klingeman (ed.), Proc. of Southern Nursery Association Annual Research Conference. 12-13 Feb. 2009. Atlanta, GA. (Poster Presentation and [Proceeding](#)).
- Oliver, J.B.**, N. Youssef, D. Fare, M. Reding, C. Ranger, S. Scholl, J. Moyseenko, and M. Halcomb. 2009. Borers: general information and management for the nursery and landscape. Tennessee Nursery and Landscape Association Winter Educational Workshop. 2 Feb. 2009. Pigeon Forge, TN. (Oral Presentation)

- Invited **Oliver, J.**, N. Youssef, D. Fare, M. Reding, C. Ranger, S. Scholl, J. Moyseenko, and M. Halcomb. 2008. Potential techniques for changing flatheaded borer management in field production nurseries. National Entomological Society of America Annual Meeting Ornamentals Symposium. 16-19 Nov. 2008. Reno, NV. (Oral Presentation Prepared by Oliver and Given by Youssef)
- Invited **Oliver, J.B.** 2008. Imported fire ants - general information, issues, and management in turfgrass and landscapes. Tennessee State University Cooperative Extension Program, Ornamental and Turfgrass Pest Management Workshop. 16 September 2008. Nashville, TN. (Oral Presentation).
- Oliver, J.B.**, R.K. Vander Meer, S.A. Ochieng, N.N. Youssef, E. Pantaleoni, M.Y. Hosack, F.A. Mrema, K.M. Vail, J. Parkman, S.M. Valles, W.G. Haun, and S. Powell. 2008. Survey of imported fire ant populations in Tennessee and implications for biological control. 30th Annual University-Wide Research Sympos. Tenn. State Univ., 31 March - 3 April 2008, Nashville, TN. (Poster Presentation and Abstract)
- Youssef, N.N., **J. Oliver**, M. Reding, C. Ranger, and J. Moyseenko. 2008. Plant repellency of essential oils to Japanese beetle (*Popillia japonica* Newman). 30th Annual University-Wide Research Sympos. Tenn. State Univ., 31 March - 3 April 2008, Nashville, TN. (Poster Presentation and Abstract)
- Oliver, J.B.**, R.K. Vander Meer, S.A. Ochieng, N.N. Youssef, E. Pantaleoni, M.Y. Hosack, F.A. Mrema, K.M. Vail, J. Parkman, S.M. Valles, W.G. Haun, and S. Powell. 2008. Statewide survey of imported fire ant species in Tennessee. Proc. Imported Fire Ant and Invasive Ant Conference. 24-26 March 2008. Charleston, SC. (Poster Presentation and [Abstract](#))
- Invited **Oliver, J.B.** 2008. Tennessee Fire Ant Research and Education Team (FARET). Tennessee General Assembly House Agriculture Committee for presentation given to Committee. State Capitol Building. 29 Jan. 2008. Nashville, TN. (Oral Presentation and Summary Handout - Note: Second author on written summary given to House Ag. Committee, but first author on my part of oral presentation).
- Youssef, N., **J. Oliver**, M. Reding, C. Ranger, and J. Moyseenko. 2007. Plant repellency of essential oils to Japanese beetles (*Popillia japonica* Newman). The 55th Annual Meeting of the Entomol. Soc. Amer. 9-12 December 2007. San Diego, CA. (Poster Presentation)
- Reding, M., **J. Oliver**, and P.B. Schultz. 2007. Monitoring the ambrosia beetle complex in ornamental nurseries in Ohio, Tennessee, and Virginia: influences of trap height. The 55th Annual Meeting of the Entomol. Soc. Amer. 9-12 December 2007. San Diego, CA. (Poster Presentation and Abstract)

Hansen, J., W. Klingeman, K. Moulton, M. Windham, and **J. Oliver**. 2007. Phylogenetic analysis of the *Chrysobothris femorata* complex (Coleoptera: Buprestidae). The 55th Annual Meeting of the Entomol. Soc. Amer. 9-12 December 2007. San Diego, CA. (Oral Presentation)

Invited **Oliver, J.B.** 2007. Field demonstration of dipping, drenching, floodjet, and flatfan spray technologies for applying Japanese beetle and imported fire ant quarantine treatments. International Plant Propagators Society touring the TSU Otis L. Floyd Nursery Research Center. 30 Oct. 2007. McMinnville, TN. (Oral Presentation - 400 participants)

Invited **Oliver, J.B.** 2007. Update on entomology program powerpoint presentation and a field demonstration on root ball dipping, drenching, and floodjet and flatfan spray technologies for applying Japanese beetle and imported fire ant quarantine treatments. Given to scientists and extension professionals as part of The IR-4 Project (for minor use crops) touring the TSU Otis L. Floyd Nursery Research Center. 17 Oct. 2007. McMinnville, TN.

Invited **Oliver, J.B.** 2007. Fire ant management and other information for commercial nurseries and landscape settings. Tennessee Green Industry Field Day. Williamson County Ag Expo Park, 21 August 2007. Franklin, TN. (Oral Presentation)

Mizell, R.F. and **J.B. Oliver**. 2007. Biology, prevention, and management of woodboring insects in woody landscape plants. Integrated Pest Management Update for 2007. 22 May 2007. University of Florida. Four separate talks presented at West Palm Beach, Homestead, Central Florida Research Center, and Mid-Florida Research Center. Subsequently telecast to other sites around Florida. (Oral Presentation)

Invited **Oliver, J.B.** 2007. Imported fire ant issues: Tennessee Department of Agriculture nursery grower stakeholder meeting. Tennessee State University Otis L. Floyd Nursery Research Center, 12 April 2007. McMinnville, TN. (Oral Presentation)

**Oliver, J.B.**, S. James, S. Ochieng, N. Youssef, K. Vail, M. Halcomb, T. Rashid, J. Parkman, W. Haun, and A. Callcott. 2007. Evaluation of USDA Insecticide band treatment protocols for quarantine control of imported fire ant in Tennessee. 29th Annual University-Wide Research Sympos. Tenn. State Univ., 27-29 March 2007, Nashville, TN. (Poster Presentation and Abstract)

Youssef, N., **J.B. Oliver**, D.C. Fare, S. Scholl, J. Francese, I. Fraser, V. Mastro, W. Klingeman, and D. Boyd. 2007. The development of a flat-headed borer trap: a six year process. 29th Annual University-Wide Research Sympos. Tenn. State Univ., 27-29 March 2007, Nashville, TN. (Poster Presentation and Abstract)

Dennis, S.O. and **J. Oliver**. 2007. Persistence of an insecticide used in dip treatment of Japanese beetle grubs and imported fire ants in nursery soils. 2007 Annual Meeting of the American Society of Agronomy Southern Branch. 4-6 February 2007. Mobile, AL. (Oral Presentation and Abstract)

- Invited **Oliver, J.B.** 2007. Imported fire ants and the Tennessee nursery industry. BWI and Syngenta Crop Protection, Inc. sponsored Nursery Grower Workshop. Tennessee State University Otis L. Floyd Nursery Research Center, 12 February 2007. McMinnville, TN. (Oral Presentation)
- Mizell, R.F. and **J.B. Oliver.** 2007. Outlook on boring insect problems in field and container production. Central Florida Nursery Production School. 20 Feb. 2007. Bushnell, FL. (Oral Presentation)
- Invited **Oliver, J.B.** 2007. Managing borers in the landscape and nursery. McMinnville Master Gardner's Meeting. McMinnville City County Building. 18 January 2007. McMinnville, TN. (Oral Presentation)
- Invited **Oliver, J.B.** 2007. Fire ant identification and management in turfgrass and ornamentals. Tennessee State University, Cooperative Extension Program. Ornamental and Turfgrass Workshop. 16 January 2007. Nashville, TN. (Oral Presentation)
- Francesse, J., I. Fraser, **J. Oliver**, N. Youssef, D.R. Lance, and V.C. Mastro. 2006. Effects of trap placement and design on capture of *Agrilus planipennis*. 2006 National Entomol. Soc. America Meeting, 10-13 December 2006. Indianapolis, IN. (Poster Presentation)
- Youssef, N., **J. Oliver**, D. Fare, S. Scholl, J. Francesse, I. Fraser, V. Mastro, B. Klingeman, and D. Boyd. 2006. Multi-state buprestid collections resulting from the development of a purple-colored sticky trap. 2006 National Entomol. Soc. America Meeting, 10-13 December 2006. Indianapolis, IN. (Poster Presentation)
- Dennis, S.O., **J. Oliver**, and E.K. Dzantor. 2006. Degradation of an insecticide used in the quarantine treatment of Japanese beetle in soils. 70th Soil Science Society of America Annual Meeting, 12-16 November 2006. Indianapolis, IN. (Oral Presentation and Abstract)
- Invited **Oliver, J.B.**, D. Fare, N. Youssef, S. Scholl, M. Halcomb, F. Hale, M. Reding, and J. Moyseenko. 2006. Managing borers in the landscape and nursery. Middle Tennessee Nursery Association Tradeshow and Educational Workshop. 6 October 2006. McMinnville, TN. (Oral Presentation)
- Oliver, J.B.**, S. James, S. Ochieng, N.N. Youssef, K. Vail, M.A. Halcomb, T. Rashid, J. Parkman, W.G. Haun, and A. Callcott. 2006. Evaluation of USDA-APHIS-PPQ band treatment protocols for management of hybrid imported fire ant in Tennessee field nursery stock, pp. 159-164. In D. Held [Ed.], Proc. 51st Ann. Southern Nurs. Assoc. Res. Conf. 9-10 Aug. 2006. Atlanta, GA. (Poster Presentation and [Proceeding](#))
- Dennis, S.O., **J. Oliver**, E.K. Dzantor, and P. Nveawiah-Yoho. 2006. Persistence of chlorpyrifos used in dip treatment of Japanese beetle grubs, pp. 549-551. In M. Taylor [Ed.], Proc. 51st Ann. Southern Nurs. Assoc. Res. Conf. 9-10 Aug. 2006. Atlanta, GA. ([Proceeding Only](#)).



Invited Vogt, J.T. and **J.B. Oliver**. 2006. Fire ants – how to protect your employees and your business. Tennessee Green Industry Field Day. Tennessee State University Otis L. Floyd Nursery Research Center. 22 August 2006. McMinnville, TN. (Joint oral presentation with J.T. Vogt)

Wang, M., **J. Oliver**, and N. Youssef. 2006. Potential fire ant repellents from plant oils. Proceedings XV Congress International Union for the Study of Social Insects. 30 July – 4 August 2006. Washington, D.C. (Poster Presentation and Abstract)

Invited **Oliver, J.B.** 2006. Imported fire ants: Tennessee Department of Agriculture nursery grower stakeholder meeting. Tennessee State University Otis L. Floyd Nursery Research Center. 6 June 2006. McMinnville, TN. (Oral Presentation)

Youssef, N.N. and **J.B. Oliver**. 2006. Comparison of four different trap types for the collection of Asian and other species of ambrosia beetles. 28th Ann. University-Wide Research Symposium. 3-6 April 2006. Nashville, TN. (Poster Presentation and Abstract)

**Oliver, J.B.**, R. Vander Meer, N.N. Youssef, S.A. Ochieng, W.G. Haun, M. Hosack, and S.D. Powell. 2006. Species composition of imported fire ants in the state of Tennessee and implications for future biological control programs, pp. 123. *In* Association of Research Directors, Inc. 14th Biennial Research Symposium, 1-5 April 2006, Atlanta, GA. (Oral Presentation and Abstract).

Dennis, S.O., **J. Oliver**, K. Dzantor, and P.N. Yoho. 2006. Degradation of chlorpyrifos in nursery soils in middle Tennessee, pp. 135. *In* Association of Research Directors, Inc. 14th Biennial Research Symposium, 1-5 April 2006, Atlanta, GA. (Oral Presentation and Abstract)

Ochieng, S. and **J. Oliver**. 2006. Controlling red imported fire ant using repellent essential oils, pp. 137. *In* Association of Research Directors, Inc. 14th Biennial Research Symposium, 1-5 April 2006, Atlanta, GA. (Oral Presentation and Abstract).

Youssef, N.N. and **J.B. Oliver**. 2006 Comparison of four different trap types for the collection of Asian and other species of ambrosia beetles, pp. 276-277. *In* Association of Research Directors, Inc. 14th Biennial Research Symposium, 1-5 April 2006, Atlanta, GA. (Poster Presentation and Abstract).

Rashid, T., P. Parkman, **J. Oliver**, and K. Vail. 2006. Mortality response of red, black and hybrid imported fire ants to insecticide treated soil in laboratory bioassays, pp. 31-33. *In* L.C. Graham [ed.], Proc. 2006 Ann. Red Imported Fire Ant Conf., 28-30 March 2006. Mobile, AL. (Oral Presentation and [Proceeding](#))

Wang, M., **J. Oliver**, and D. Fare. 2006. Fire ant repellents from plant extracts, pp. 52-53. *In* L.C. Graham [ed.], Proc. 2006 Ann. Red Imported Fire Ant Conf., 28-30 March 2006. Mobile, AL. (Oral Presentation and [Proceeding](#))



- Rashid, T., P. Parkman, **J. Oliver**, and K. Vail. 2006. Using population index and foraging activity to evaluate broadcast applications of baits and granular insecticides for imported fire ants, pp. 122-124. *In* L.C. Graham [ed.], Proc. 2006 Ann. Red Imported Fire Ant Conf., 28-30 March 2006. Mobile, AL. (Oral Presentation and [Proceeding](#))
- Invited **Oliver, J.B.** 2006. Review of Japanese beetle biology and the Domestic Harmonization Plan. University of Kentucky, Nursery Winter Workshop: Invasive Insects and Weed Management. 8 Feb. 2006. Lexington, KY. (Oral Presentation)
- Invited **Oliver, J.B.** 2006. Fire ant update: identification, distribution, and prevention. University of Kentucky, Nursery Winter Workshop: Invasive Insects and Weed Management. 8 Feb. 2006. Lexington, KY. (Oral Presentation)
- Invited **Oliver, J.B.** 2006. Asian ambrosia beetle: damage, trapping, identification, and control. University of Kentucky, Nursery Winter Workshop: Invasive Insects and Weed Management. 8 Feb. 2006. Lexington, KY. (Oral Presentation)
- Invited **Oliver, J.B.** 2006. Trapping and controlling borer pests of nursery crops. University of Kentucky, Nursery Winter Workshop: Invasive Insects and Weed Management. 8 Feb. 2006. Lexington, KY. (Oral Presentation)
- Invited **Oliver, J.B.** 2006. Managing borers in the landscape and nursery. Tennessee Nursery and Landscape Association Winter Education and Exhibits. 6 Feb. 2006. Pigeon Forge, TN. (Oral Presentation)
- Dennis, S.O., **J. Oliver**, D. Duseja, and P. Nveawiah-Yoho. 2006. Persistence of bifenthrin and chlorpyrifos in nursery soils. American Society of Agronomy Southern Branch. 5 Feb. 2006. Orlando, FL. (Poster Presentation and Abstract)
- Francesse, J.A., **J.B. Oliver**, I. Fraser, N. Youssef, D.R. Lance, D.J. Crook, and V.C. Mastro. 2006. Effects of trap design and placement on capture of emerald ash borer, *Agrilus planipennis*, pp. 41. *In* K.W. Gottschalk [ed.], Proceedings 17th USDA Interagency Research Forum on Gypsy Moth and Other Invasive Species. 10-13 Jan. 2006. Annapolis, MD. (Poster Presentation and Abstract).
- Poland, T., D. Crook, J. Francesse, **J. Oliver**, G. Otis, P. de Groot, G. Grant, L. MacDonald, D. McCullough, I. Fraser, D. Lance, V. Mastro, N. Youssef, T. Turk, and M. Youngs. 2006. Toward the development of survey trapping technology for the emerald ash borer, pp. 4-5. *In* K.W. Gottschalk [ed.], Proceedings 17th USDA Interagency Research Forum on Gypsy Moth and Other Invasive Species. 10-13 Jan. 2006. Annapolis, MD. (Oral Presentation and Abstract).
- Invited **Oliver, J.B.** 2005. Ecological approaches to the management of wood-borers in the nursery and landscape. 53rd National Entomol. Soc. Am. Ann. Meeting, 15-18 Dec. 2005. Fort Lauderdale, FL. (Symposium Presentation and [Abstract](#))

Youssef, N.N. and **J.B. Oliver**. 2005. Comparison of four different trap types for the collection of Asian and other species of ambrosia beetles. 53rd National Entomol. Soc. Am. Ann. Meeting, 15-18 Dec. 2005. Fort Lauderdale, FL. (Poster Presentation)

Invited **Oliver, J.B.**, S. Ochieng, and M.T. Mmbaga. 2005. Entomology research related to agromedicine at the Tennessee State University Otis L. Floyd Nursery Research Center. Southern Coastal Agromedicine Center, 25 Oct. 2005. Greenville, NC. (Oral Research Forum Presentation)

Ochieng, S.A. and **J.B. Oliver**. 2005. Control of red imported fire ants using plant-produced repellents. *In* W.G. Haun. [Ed.]. Proc 32nd Ann. Meeting Tennessee Entomol. Soc. 13-14 Oct. 2005. Nashville, TN. (Oral Presentation and Abstract)

Francese, J.A., **J. Oliver**, I. Fraser, N. Youssef, D.R. Lance, D.J. Crook, and V.C. Mastro. 2005. Effects of trap design and placement on capture of emerald ash borer, *Agrilus planipennis*, pp. 57-58. *In* V. Mastro, R. Reardon, and G. Parra [eds.], Emerald Ash Borer Research and Technology Development Meeting. 26-27 September 2005. Pittsburgh, PA. (Oral Presentation and [Abstract](#))

Fraser, I., J.A. Francese, D.R. Lance, D. Crook, **J.B. Oliver**, N. Youssef, and V.C. Mastro. 2005. Effects of tree wounding and banding on emerald ash borer capture, pp. 59-60. *In* V. Mastro, R. Reardon, and G. Parra [eds.], Emerald Ash Borer Research and Technology Development Meeting. 26-27 September 2005. Pittsburgh, PA. (Oral Presentation and [Abstract](#))

Invited **Oliver, J.B.** 2005. Fire ant issues and problems: TSU & CPHST (Gulfport, MS) perspective. (presentation made on behalf of CPHST Gulfport, MS Lab). National Plant Board Imported Fire Ant Committee and PPQ IFA Program, 13 Sep. 2005. Nashville, TN. (Oral Presentation)

Invited **Oliver, J.B.** 2005. Fire ant treatments under development. National Plant Board Imported Fire Ant Committee and PPQ IFA Program, 14 Sep. 2005. Nashville, TN. (Oral Presentation)

Invited **Oliver, J.B.** 2005. Update on phorid fly and other biocontrol agents. National Plant Board Imported Fire Ant Committee and PPQ IFA Program, 14 Sept. 2005. Nashville, TN. (Oral Presentation)

**Oliver, J.B.**, F.A. Hale, N.N. Youssef, and M.A. Halcomb. 2005. Management strategies for Asian ambrosia beetle in commercial nurseries, pp. 205-209. *In* D. Held [Ed.]. Proc. 50th Ann. Southern Nursery Assoc. Res. Conf. 10-11 Aug. 2005. Atlanta, GA. (Poster Presentation and [Proceeding](#)).

Dennis, S.O., **J.B. Oliver**, N.N. Youssef, and P. N. Yoho. 2005. Degradation of chlorpyrifos in soil: influence of water application rate and soil organic carbon. *In* M. Taylor [ed.], Proc. Southern Nursery Assoc. 50th Ann. Res. Conf., 10-11 Aug. 2005. Atlanta, GA. ([Proceeding](#)).

Rashid, T., K. Vail, and **J. Oliver**. 2005. Cool season applications of baits and/or chemical drenches to individual mounds of imported fire ants, 210-212. In D. Held [Ed.]. Proc. 50th Ann. Southern Nursery Assoc. Res. Conf. 10-11 Aug. 2005. Atlanta, GA. (Oral Presentation and [Proceeding](#)).

**Oliver, J.B.** 2005. Key “take home points” I got from the Association of Research Directors / Association of Extension Administrators Conference, New Orleans, LA. 24 Jun. 2005. Tennessee State University, Departmental Presentation. Nashville, TN. (Oral Presentation)

Invited **Oliver, J.B.** 2005. Managing fire ants in home lawns (and nurseries). Franklin County Dogwood Arts Festival. 15 Apr. 2005. Winchester, TN. (Oral Presentation)

**Oliver, J., J. Francese, N. Youssef, V. Mastro, D. Lance, I. Fraser, and D. Fare.** 2005. Evaluation of the design and site placement of various traps for the collection of emerald ash borer. In M.E. Lewis [ed.], Proc. 27th Ann. University-Wide Res. Sympos. Tennessee State University. 29-31 March 2005. Nashville, TN. Poster Presentation. (Poster Presentation and Abstract)

Youssef, N., **J.B. Oliver**, D.C. Fare, and S. Scholl. 2005. Diurnal activity of buprestids as indicated by purple sticky trap collection. In M.E. Lewis [ed.], Proc. 27th Ann. University-Wide Res. Sympos. Tennessee State University, 29-31 March 2005. Nashville, TN. (Poster Presentation and Abstract)

James, S., **J. Oliver**, A.M. Callcott, M. Klein, J. Moyseenko, N. Youssef, and L. McAnally. 2005. Immersion treatments for imported fire ant quarantine with consideration for Japanese beetle grubs, pp. 49-52. In A. Callcott [ed.], Proc. Ann. Red Imported Fire Ant Conf. 22-24 March 2005. Gulfport, MS. (Oral Presentation and [Proceeding](#))

Rashid, T., K. Vail, P. Parkman, and **J. Oliver**. 2005. Cool-season applications of baits and/or chemical drenches to individual mounds, pp. 37-40. In A. Callcott [ed.], Proc. Ann. Red Imported Fire Ant Conf. 22-24 March 2005. Gulfport, MS. (Oral Presentation and [Proceeding](#))

Parkman, P., K. Vail, T. Rashid, **J. Oliver**, R. Pereira, S.D. Porter, M. Shires, G. Haun, S. Powell, L. Thead, and J. T. Vogt. 2005. Establishment and spread of *Pseudacteon curvatus* in Tennessee, pp. 111-112. In A. Callcott [ed.], Proc. Ann. Red Imported Fire Ant Conf. 22-24 March 2005. Gulfport, MS. (Oral Presentation and [Proceeding](#))

Invited **Oliver, J.B.** and N. Youssef. 2005. Using traps to monitor Asian ambrosia beetle around your nurseries. Middle Tennessee Nursery Association Monthly Meeting, 17 Mar. 2005. McMinnville, TN. (Oral Presentation)

Francesce, J.A., **J.B. Oliver**, I. Fraser, N. Youssef, D.R. Lance, D.J. Crook, and V.C. Mastro. 2005. Effects of trap design and placement on capture of emerald ash borer, *Agrilus planipennis* Fairmaire (Coleoptera: Buprestidae). In K.W. Gottschalk [ed.], Proc. 16th USDA Interagency Research Forum on Gypsy Moth and Other Invasive Species, 2005. 18-21 January 2005. Annapolis, MD. (Poster Presentation Only). (**Note: Authorship order and title changed on actual poster presented at meeting**).

**Oliver, J.B.**, N.N. Youssef, J.A. Francesce, V.C. Mastro, D.R. Lance, I. Fraser, and D. Fare. 2004. Field studies to develop an emerald ash borer regulatory survey trap by capitalizing on color preferences in the family Buprestidae. 52nd National Entomol. Soc. Am. Ann. Meeting, 14-17 Nov. 2004. Salt Lake City, UT. (Poster Presentation)

Youssef, N.N., **J.B. Oliver**, D.C. Fare, and S. Scholl. 2004. Diurnal activity of buprestids as indicated by purple sticky trap collection. 52<sup>nd</sup> National Entomol. Soc. Am. Ann. Meeting, 14-17 Nov. 2004. Salt Lake City, UT. (Poster Presentation)

Francesce, J.A., V.C. Mastro, **J.B. Oliver**, N. Youssef, D.R. Lance, I. Fraser, and S.G. Lavallee. 2004. Influence of color on capture of *Agrilus planipennis* in Michigan. 52nd National Entomol. Soc. Am. Ann. Meeting, 14-17 Nov. 2004. Salt Lake City, UT. (Poster Presentation and [Abstract](#))

Fraser, I., J.A. Francesce, D.R. Lance, V.C. Mastro, **J.B. Oliver**, and N.N. Youssef. 2004. Effectiveness of colored tree bands to trap emerald ash borer (*Agrilus planipennis*). 52<sup>nd</sup> National Entomol. Soc. Am. Ann. Meeting, 14-17 Nov. 2004. Salt Lake City, UT. (Poster Presentation)

James, S., **J.B. Oliver**, A.-M. Callocott, M. Klein, J. Moyseenko, and N. Youssef 2004. Potential imported fire ant quarantine dips for balled and burlapped plants with consideration for Japanese beetle grubs. 52nd National Entomol. Soc. Am. Ann. Meeting, 14-17 Nov. 2004. Salt Lake City, UT. (Oral Presentation and [Abstract](#))

Invited

**Oliver, J.B.** 2004. Insect borers affecting nursery and landscape plants and minor fruit crops. Southern Region Pest Management Center, Southern Region IPM Center, and USDA-CSREES Insect Borer Workshop, 4-5 Nov. 2004. Orlando, FL. (Oral Presentation and Abstract).

**Oliver, J.B.**, N.N. Youssef, and M.A. Halcomb. 2004. Evaluation of multiple traps for monitoring ambrosia beetles near Tennessee production nurseries. In G. Haun [ed.], Tennessee Entomological Society, 14-15 October 2004, Nashville, TN. (Oral Presentation and Abstract)

Vogt, J.T. and **J.B. Oliver**. 2004. Trends in imported fire ant (*Solenopsis richteri* Forel and *S. richteri x invicta*) infestation in recently invaded Tennessee ball and burlap nurseries. In G. Haun [ed.], Tennessee Entomological Society Firefly, 14-15 October 2004, Nashville, TN. (Oral Presentation)

Vail, K., T. Rashid, J. Parkman, R. Pereira, **J. Oliver**, M. Shires, S. Porter, G. Haun, S. Powell, L. Thead, J.T. Vogt, and A-M. Callcott. 2004. Phenomenal fire ant decapitating fly recovery in Tennessee. In G. Haun [ed.], Tennessee Entomological Society Firefly, 14-15 October 2004, Nashville, TN. (Oral Presentation)

**Oliver, J.B.**, J.A. Francese, I. Fraser, D.R. Lance, V.C. Mastro, and N. Youssef. 2004. Studies to develop an emerald ash borer survey trap: I. Trap design, trap location, and tree damage, pp. 60-61. *In* V. Mastro and R. Reardon [eds.], Emerald Ash Borer Research and Technology Development Meeting, 5-6 October 2004. Romulus, MI. (Oral Presentation and [Abstract](#))

Francese, J.A., I. Fraser, D.R. Lance, V.C. Mastro, **J.B. Oliver**, and N. Youssef. 2004. Studies to develop an emerald ash borer survey trap: II. Comparison of colors, p. 62. *In* V. Mastro and R. Reardon [eds.], Emerald Ash Borer Research and Technology Development Meeting, 5-6 October 2004. Romulus, MI. (Oral Presentation and [Abstract](#))

Fraser, I., J.A. Francese, D.R. Lance, V.C. Mastro, **J.B. Oliver**, and N. Youssef. 2004. Studies to develop an emerald ash borer survey trap: III. Tree banding, p. 63. *In* V. Mastro and R. Reardon [eds.], Emerald Ash Borer Research and Technology Development Meeting, 5-6 October 2004. Romulus, MI. (Oral Presentation and [Abstract](#))

Invited **Oliver, J.B.** 2004. Current research on fire ant. Education Session of Middle Tennessee Nursery Association, 1 Oct. 2004. McMinnville, TN. (Oral Presentation)

Invited **Oliver, J.B.** 2004. Container insect pests: soil-borne and trunk attacking. Presented to the USDA Commodity Profile and Pest Management Strategic Plan for the Southern Region Pest Management Center – Assessment of Pest Management Practices for Container Tree Production in USDA Hardiness Zones 6 – 8, 27-28 Sep. 2004. Biloxi, MS. (Oral Presentation and Written Crop Commodity Profile)

**Oliver, J.B.**, N.N. Youssef, and M.A. Halcomb. 2004. Comparison of different trap types for collection of Asian ambrosia beetle, pp. 158-163. *In* J.B. Oliver [ed.], Proc. 49th Ann. Southern Nursery Assoc. Res. Conf. 11-12 Aug. 2004. Atlanta, GA. (Oral Presentation and [Proceeding](#)).

Youssef, N.N., **J.B. Oliver**, M.G. Klein, and J.J. Moyseenko. 2004. Botanical extracts as potential Japanese beetle repellants, pp. 164-167. *In* J.B. Oliver [ed.], Proc. 49th Ann. Southern Nursery Assoc. Res. Conf. 11-12 Aug. 2004. Atlanta, GA. (Oral Presentation and [Proceeding](#)).

Dennis, S.O., **J. Oliver**, P. Nveawiah-Yoho, and B. Sheshahala. 2004. Soil pH and organic carbon under rain-fed condition in nursery stock quarantine treatment of Japanese beetle, pp. 526-529. *In* S.O. Dennis [ed.], Proc. 49th Ann. Southern Nurs. Assoc. Res. Conf. 11-12 Aug. 2004. Atlanta, GA. ([Proceeding](#)).

Mmbaga, M.T., **J. Oliver**, M. Keri, and N. Youssef. 2004. The potential of biorational products in the management of insect and foliage diseases, pp. 224-230. In S.N. Jeffers [ed.], Proc. 49th Ann. Southern Nurs. Assoc. Res. Conf. 11-12 Aug. 2004. Atlanta, GA. (Poster Presentation and [Proceeding](#)).

Dobbs, J.H. 2004. Imidacloprid, cyfluthrin; nursery insecticide (Discus), pp. 207-211. In J.B. Oliver [ed.], Proc 49th Ann. Southern Nursery Assoc. Res. Conf. 11-12 Aug. 2004. Atlanta, GA. **Oliver, J.B.** and M. Klein cited as source of Japanese beetle data in Proceeding. (Oral Presentation and [Proceeding](#))

**Oliver, J.B.**, D. Fare, N. Youssef, and W. Klingeman. 2004. A survey trap to monitor adult flatheaded borer activity in nurseries, pp. H-1. In M.E. Lewis [ed.], Proc. 26th Ann. University-Wide Res. Sympos. Tennessee State University, 6-8 April, 2004. Nashville, TN. (Oral Presentation and Abstract)

**Oliver, J.B.**, S.S. James, A.-M. Callcott, N.N. Youssef, and K.M. Vail. 2004. Pesticides applied to individual fire ant mounds during winter months as potential treatments for certifying nursery stock – 2003 Tennessee trial, pp. 36-38. Proc. Red Imported Fire Ant Conf. 21-23 Mar. 2004. Baton Rouge, LA. (Oral Presentation and [Proceeding](#))

James, S.S., A.-M. Callcott, **J.B. Oliver**, N.N. Youssef, and K.M. Vail. 2004. Contact insecticide treatments applied to fire ant mounds during winter months as potential nursery quarantine treatments – 2003 Mississippi, pp. 28-35. Proc. Red Imported Fire Ant Conf. 21-23 Mar. 2004. Baton Rouge, LA. (Oral Presentation and [Proceeding](#))

Ward, K.E., L.C. Graham, L.G. Thead, **J.B. Oliver**, R.N. Ward, and J.T. Vogt. 2004. Release of *Pseudacteon curvatus* into black and hybrid imported fire ant populations in northern Alabama, southern Tennessee, and eastern Mississippi, pp. 158-160. Proc. Red Imported Fire Ant Conf. 21-23 Mar. 2004. Baton Rouge, LA. (Poster Presentation and [Proceeding](#))

Vail, K., **J. Oliver**, C. Kimbro, D. Bailey, J. Morton, N. Youssef, P. Parkman, S. James, and A.-M. Callcott. 2004. Pesticide surface treatments applied to fire ant mounds during April as potential nursery quarantine treatments – 2003 Tennessee trials, pp. 137-138. Proc. Red Imported Fire Ant Conf. 21-23 Mar. 2004. Baton Rouge, LA. (Poster Presentation and [Proceeding](#))

Invited **Oliver, J.B.** 2004. **Two presentations:** 1) Emerald ash borer research and 2) Imported fire ant information and research. Tenn. Dept. Agric. Plant Certification Inspector's Meeting. 3-5 Feb. 2004. Nashville, TN. (Oral Presentation)

Invited **Oliver, J.B.** 2004. Fire ant update for Tennessee. 2004 Educational Seminar. Tennessee Nursery & Landscape Association. 15-16 Jan. 2004. Chattanooga, TN. (Oral Presentation)



Francesce, J.A., V.C. Mastro, D.R. Lance, S.G. Lavallee, **J.B. Oliver**, and N. Youssef. 2004. Development of survey tools for the emerald ash borer. In K.W. Gottschalk [ed.], Proc. XV USDA Interagency Research Forum on Gypsy Moth and Other Invasive Species 2004. 13-16 January 2004. Annapolis, MD. (Poster Presentation and Abstract)

**Oliver, J.B.** 2003. Update on phorid research at Tennessee. USDA-ARS Regional Management Program. 3 Nov. 2003. Starkville, MS. (Oral Presentation)

**Oliver, J.B.**, D.C. Fare, N.N. Youssef, S.S. Scholl, and W.E. Klingeman. 2003. Color influences collection of buprestid borers with tree silhouette traps. 51st National Entomol. Soc. Am. Ann. Meeting, Turf and Ornamentals Symposium. 26-29 Oct. 2003. Cincinnati, OH. (Poster Presentation).

Youssef, N.N., **J.B. Oliver**, M. Klein, and J. Moysenko. 2003. Botanical extracts and other organic compounds as potential Japanese beetle repellents. 51st National Entomol. Soc. Am. Ann. Meeting, Turf and Ornamentals Symposium. 26-29 Oct. 2003. Cincinnati, OH. (Oral Presentation)

**Oliver, J.B.**, V. Mastro, D. Lance, J. Francesce, N. Youssef, S. Lavallee, and D.Fare. 2003. Development of traps to survey emerald ash borer, pp.17-18. *In* V. Mastro and R. Reardon [eds.], Proc. Emerald Ash Borer Research and Technology Development Meeting, 30 Sep.- 1 Oct. 2003. Port Huron, MI. (Oral Presentation and [Proceeding Abstract](#))

Francesce, J.A., V.C. Mastro, D.R. Lance, S.G. Lavallee, **J.B. Oliver**, and N. Youssef. 2003. Development of survey tools for emerald ash borer, pp. 22. *In* V. Mastro and R. Reardon [eds.], Proc. Emerald Ash Borer Research and Technology Development Meeting, 30 Sep.- 1 Oct. 2003. Port Huron, MI. (Oral Presentation and [Proceeding Abstract](#))

**Oliver, J.B.** 2003. Fire ant management for nursery production. Tennessee Green Industry Field Day, Otis L. Floyd Nursery Res. Center. 12 Aug. 2003. McMinnville, TN. (Oral Presentation)

**Oliver, J.B.**, D.C. Fare, N. Youssef, S. Scholl, and W. Klingeman. 2003. Collection of adult flatheaded borers using multicolored traps, pp. 193-198. *In* J.B. Oliver [ed.], Proc. 48th Ann. Southern Nursery Assoc. Res. Conf., 30-31 Jul. 2003. Atlanta, GA. (Poster Presentation and [Proceeding](#)).

**Oliver, J.B.** 2003. Tour Otis L. Floyd Nursery Research Center to Leadership McMinnville for Infrastructure/Agriculture Day. 9 July 2003. McMinnville, TN. (Oral Presentation)

**Oliver, J.B.**, N.N. Youssef, P. Landolt, and M.A. Halcomb. 2003. Trapping European hornet queens to prevent bark-feeding damage to nursery stock, pp. 170. *In* Proc. 13th Biennial Res. Sympos. Assoc. Res. Directors, Inc., 29 Mar. – 2 Apr. 2003, Atlanta, GA. (Poster Presentation and Proceeding Abstract).

- Invited **Oliver, J.B.** 2003. Fire ants: their biology and management. Co-Presentation with John Ferrell to Franklin County Community, Franklin County Extension Office, 13 March 2003. Winchester, TN. (Oral Presentation)
- Oliver, J.B.**, D.C. Fare, N. Youssef, S. Scholl, M.A. Halcomb, W. Klingeman, and P. Flanagan. 2003. A method to monitor buprestid borers in nurseries and preliminary results of a regional damage survey. 77th Ann. Meeting Southeastern Branch Entomol. Soc. Am., 9-12 Mar. 2003, Baton Rouge, LA. (Oral Presentation)
- Invited **Oliver, J.B.** 2003. Managing Asian ambrosia beetle. Grower talk at monthly Middle Tennessee Nursery Association Meeting, Ryan's Restaurant at request of Mark Halcomb (UT Extension). 20 February 2003. McMinnville, TN. (Oral Presentation)
- Oliver, J.B.**, N. Youssef, and M. Halcomb. 2003. How to manage ambrosia beetles in your nursery. Tenn. Flower Growers Assoc. and Tenn. Nursery and Landscape Assoc. 18-20 Jan. 2003. Chattanooga, TN. (Poster Presentation)
- Invited **Oliver, J.B.** 2003. General entomology and fire ant update. Tennessee Nursery & Landscape Assoc./Tennessee Flower Growers Assoc. 18-20 Jan. 2003. Chattanooga, TN. (Oral Presentation)
- Invited **Oliver, J.B.**, P.J. Landolt, M. Halcomb, K.M. Vail, and N. Youssef. 2002. Trapping European hornet queens in spring to protect Tennessee nursery stock. Symposium: Behavioral Modification: A Critical Component of Social Insect IPM. 51st Ann. Meeting National Entomol. Soc. Am., 17-20 Nov. 2002. Ft. Lauderdale, FL. (Oral Presentation)
- Oliver, J.B.**, N. Youssef, D.C. Fare, M.A. Halcomb, S. Scholl, W. Klingeman, and P. Flanagan. 2002. Monitoring buprestid borers in production nursery areas, pp. 12-13. *In* G. Haun [ed.], Proc. 29th Ann. Meeting Tenn. Entomol. Soc., 10-11 Oct. 2002, Nashville, TN. (Oral Presentation and Abstract)
- Oliver, J.B.** 2002. Fire ants in Tennessee. Tennessee Green Industry Field Day, Otis L. Floyd Nursery Res. Center, 12 Aug. 2002. McMinnville, TN. (Oral Presentation)
- Klein, M.J., **J.B. Oliver**, J. Moyseenko, and M. Reding. 2002. Insecticide dips and other strategies for elimination of Japanese beetle from balled and burlapped nursery stock, pp. 176-182. *In* J.B. Oliver [ed.], Proc. 47th Ann. Southern Nursery Assoc. Res. Conf. 1-2 Aug. 2002. Atlanta, GA. (Oral Presentation and [Proceeding](#)).
- Invited **Oliver, J.B.** 2002. Quarantine pests: Fire ants, Japanese beetle, and the nursery industry. Presentation: Bayer Professional Care, Centers of Influence Meeting for Turf and Ornamental Entomologists, 4-7 Jun. 2002. Atlanta, GA. (Oral Presentation)



**Oliver, J.B.**, D. Bailey, K. Vail, and A.M. Callcott. 2002. Summary of insecticide tests directed at managing imported fire ants in field nurseries, pp. 152-158. *In* D. Suiter and S. Diffie [eds.], Proc. 2002 Red Imported Fire Ant Conf. Georgia Center for Continuing Education, 24-26 March 2002. Athens, GA. (Poster Presentation and [Abstract](#))

**Oliver, J.** and D. Fare. 2002. Monitoring of flatheaded appletree borer populations to predict timing of pesticide treatments. *In* M.E. Lewis [ed.], Proc. 24th Ann. University-Wide Res. Sympos. Tennessee State University, Nashville, TN. 6-8 Apr. 2002. (Oral Presentation and Abstract)

**Oliver, J.B.**, P. Landolt, M. Halcomb, and K. Vail. 2002. Trapping as a potential tool for the management of European hornet damage to susceptible nursery stock. 76th Ann. Meeting Southeastern Branch Entomol. Soc. Am., 3-6 Mar. 2002. Little Rock, AR. (Oral Presentation)

Invited **Oliver, J.B.** 2002. Fire ant management in nurseries. Presentation: Tennessee Nursery and Landscape Assoc., 20th Ann. Convention and Trade Show, 19 Jan. 2002. Chattanooga, TN. (Oral Presentation)

Invited **Oliver, J.B.** 2002. General entomology. Presentation: Tennessee Nursery and Landscape Assoc., 20th Ann. Convention and Trade Show, 20 Jan. 2002. Chattanooga, TN. (Oral Presentation)

**Oliver, J.B.** 2001. Overview of Entomology Research Program at Otis L. Floyd Nursery Res. Center. Presented to Southern Nursery Assoc. Board of Directors, Univ. Tenn. Representatives, USDA-ARS, and other green industry representatives. 4 April 2001. McMinnville, TN. (Oral Presentation)

**Oliver, J.B.** 2001. Update on fire ants – new movement and latest pesticide products and applications. Tenn. Green Industry Field Day, TSU Otis L. Floyd Nursery Res. Center, 14 Aug. 2001. McMinnville, TN. (Oral Presentation)

**Oliver, J.B.** and C.M. Mannion. 2001. Ambrosia beetles collected from ethanol-baited traps and Chinese chestnut in middle Tennessee, pp. 213-218. *In* C.P. Hesselein [ed.], Proc. 46th Ann. Southern Nursery Assoc. Res. Conf., 2-3 Aug. 2001. Atlanta, GA. (Poster Presentation and [Proceeding](#)).

Invited **Oliver, J.B.** 2001. **Two presentations:** 1) Overview of flatheaded appletree borer and European hornet research and 2) Overview of Japanese beetle and fire ant research. Tennessee Department of Agriculture Plant Inspectors' Meeting, TSU Nursery Res. Center, 21 May 2001. McMinnville, TN. (Oral Presentations)

**Oliver, J.B.**, M. Klein, J. Moyseenko, W. McLane, D. Cowan, and C.M. Mannion. 2001. Management of Japanese beetle in commercial nurseries. Scarab Workshop, University of Arizona Maricopa Agriculture Center, 29-30 Mar. 2001. Phoenix, AZ. (Oral Presentation)

**Oliver, J. B.** 2001. Summary of imported fire ant impact on Tennessee nurseries, p. 38. *In* E.L. Myles [ed.], Proc. 23rd Ann. University-Wide Research Symp., Tennessee State University, 20-21 Mar. 2001. Nashville, TN. (Poster Presentation and Abstract)

**Oliver, J.B.**, and C.M. Mannion. 2000. Ambrosia beetle species attacking chestnut and captured in ethanol-baited traps in Middle Tennessee. 48th Ann. Meeting Nat. Entomol. Soc. Amer. 4 Dec. 2000. Montreal, Canada. (Poster Presentation)

**Oliver, J.B.** 2000. Update on scarab biological control in Tennessee. Scarab Parasitoid Workshop, Tennessee State University Otis L. Floyd Nursery Res. Center. 6-7 Sep. 2000. McMinnville, TN. (Oral Presentation)

**Oliver, J.B.** 2000. **Four separate poster presentations** on: 1) Biological control of fire ants, 2) Biology and management of wood-boring beetles, 3) Japanese beetle research, and 4) Update on fire ants - new movement and latest pesticide products and applications. Tennessee Green Industry Field Day, Tennessee State University Nursery Res. Center. 15 Aug. 2000. McMinnville, TN. (Poster Presentations)

**Oliver, J.B.** 2000. Fire ant research. Tennessee Green Industry Field Day Walking Tour, Tennessee State University Nursery Res. Center. 15 Aug. 2000. McMinnville, TN. (Oral Presentation)

Fare, D.C., C. Mannion, **J. Oliver**, and S. Mullican. 2000. Flatheaded appletree borer infestations on newly planted maple liners, pp. 153-157. *In* C.P. Hesselein [ed.], Proc. 45th Ann. Southern Nursery Assoc. Res. Conf., 3-4 Aug. 2000. Atlanta, GA. (Poster Presentation and [Proceeding](#)).

**Oliver, J.B.**, and C.M. Mannion. 2000. Species composition and seasonal incidence of ambrosia beetles attacking chestnut in middle Tennessee and comparison with trapping studies. 75th Ann. Meeting Southeastern Branch Entomol. Soc. Am. 27 Feb. – 1 Mar. 2000. Mobile, AL. (Served as moderator for same session). (Oral Presentation)

Hale, F.A., **J. Oliver**, and C. Mannion. 1999. Insecticide evaluation for control of the Asian ambrosia beetle, *Xylosandrus crassiusculus*, in vitro, pp. 160-162. *In* C.P. Hesselein [ed.], Proc. 44th Ann. Southern Nursery Assoc. Res. Conf., 29-30 July 1999. Atlanta, GA. (Oral Presentation and [Proceeding](#)).

Mannion, C. and **J. Oliver**. 1999. Rearing *Tiphia vernalis*, a parasitoid of Japanese beetle, p. 35. *In* N.C. Martin and L. Wiggins-Azimi [eds.], Proc. 21st Ann. University-Wide Res. Sympos. Tennessee State University, 22-23 Mar. 1999. Nashville, TN. (Oral Presentation and Abstract)

Mannion, C.M. and **J.B. Oliver**. 1998. Management of Japanese beetle in nursery crops, p. 47. *In* N.C. Martin and L. Wiggins-Azimi [eds.], Proc. 20th Ann. University-Wide Res. Sympos. Tennessee State University, 23-24 Mar. 1998. Nashville, TN. (Oral Presentation and Abstract)

**Oliver, J.B.** and M.J. Gaylor. 1996. Seasonal incidence of banded-winged whitefly on weed hosts near cotton and whitefly movement from cocklebur into cotton. Southeastern Branch of the Entomological Society of America, Biloxi, MS. (Ph.D. Student Paper Contest). (Oral Presentation)

**Oliver, J.B.** and M.J. Gaylor. 1995. Movement of adult banded-winged whitefly into cotton, nymphal (4th instar) population size, and parasitism. Southeastern Branch of the Entomological Society of America. Charleston, SC. (Oral Presentation)

**Oliver, J.B.**, C.D. Pless, and K.D. Gwinn. 1990. Effect of endophyte, *Acremonium coenophialum* in 'Kentucky 31' tall fescue, *Festuca arundinaceae*, on survival of *Popillia japonica*, pp. 173-175. In S.S. Quisenberry and R.E. Joost [eds.], Proc. Internat. Sympos. *Acremonium*/Grass Interactions. 5-7 Nov. 1990. New Orleans, LA. (Poster Presentation and Abstract)

Bernard, E.C., A.M. Cole, **J.B. Oliver**, and K.D. Gwinn. 1990. Survival and fecundity of *Folsomia candida* (Collembola) fed tall fescue tissues and ergot peptide-amended yeast, pp. 125-127. In S.S. Quisenberry and R.E. Joost [Eds.], Proc. Internat. Sympos. *Acremonium*/Grass Interactions. 5-7 November 1990. New Orleans, LA. (Poster Presentation and Abstract)

**Oliver, J.B.**, C.D. Pless, and K.D. Gwinn. 1990. Effect of *Acremonium coenophialum* in Ky-31 tall fescue on immature stages of selected soil insects. Proc. 17th Ann. Meeting Tennessee Entomol. Soc. Nashville, TN. (Oral Presentation and Abstract)

**Oliver, J.B.** and C.D. Pless. 1990. Effect of endophyte, *Acremonium coenophialum* Morgan-Jones and Gams, in Kentucky-31 tall fescue, *Festuca arundinacea* Schreb., on immature stages of *Popillia japonica* Newman. Southeastern Branch of the Entomological Society of America, Orlando, FL. (Oral Presentation)

**Oliver, J.B.** and C.D. Pless. 1989. Endophyte presence in tall fescue and its effects on Japanese beetle soil life stages and other grub and wireworm species. Proc. Tennessee Entomol. Soc. Nashville, TN. (Oral Presentation and Abstract)

**Oliver, J.B.** and C.D. Pless. 1988. Endophyte presence in tall fescue and its effects on Japanese beetle and other grub and wireworm species. 16th Annual Meeting Tennessee Entomol. Soc., Nashville, TN. (Awarded Best Student Oral Presentation).

Fribourg, H.A., A.B. Chestnut, J.B. McLaren, **J.B. Oliver**, and K.D. Gwinn. 1988. State reports of recent progress, pp. 59-63. In Proc., Tall Fescue Toxicosis Workshop, SRIEG-37, Atlanta, GA. (Oral Presentation and Proceeding)

## Seminars and Webinars

- Invited **Oliver, J.**, K. Adesso, A. Callcott, N. Youssef, and P. O'Neal. 2016. Kill that fire ant queen the first time: tips for making fire ant mound treatments. 2016 All Bugs Good and Bad Webinar Series. eXtension Imported Fire Ant Community of Practice. 4 Mar. 2016. (122 attendees plus 509 post-archive viewings within 3 weeks. The presentation remains archived online for continued educational availability).
- Oliver, J.**, K. Adesso, N. Youssef, S. Leahy, P. O'Neal, W. Haun, S. Powell, K. Vail, A. Callcott, and A. Bass. 2014. Phorid-decapitating fly program for management of imported fire ants in Tennessee. College of Agriculture, Human, & Natural Sciences Seminar. Presented at Otis L. Floyd Nursery Research Center, McMinnville, TN and remotely to the Nashville campus via the AITC Conference link.
- Oliver, J.B.** 2013. Imported fire ants - general information and management for residential areas. Tennessee State University College of Agriculture, Human & Natural Sciences Virtual Coffee Shop Webinar. 10 July 2013. McMinnville, TN (via Wimba Virtual Classroom).
- Invited Bray, A., **J. Oliver**, and W. Klingeman. 2013. Black walnut under attack: walnut twig beetle and thousand cankers disease in the eastern United States. 1 Mar. 2013. Lexington, KY. (Invited Departmental Seminar)
- Oliver, J.B.**, K. Adesso, N. Youssef, A. Bray, and J. Basham. 2013. Research to manage imported fire ants in nurseries. Seminar given to Dr. John Ricketts' TSU AGSC 5620 Graduate Seminar Class using the TSU Wimba system. 1 March 2013. Given in McMinnville to Nashville, TN.
- Invited **Oliver, J.B.** 2012. Fire ant control made easy. Webinar presented on National eXtension site for the Imported Fire Ant Community of Practice. 10 May 2012. Other national speakers on the webinar were Dr. Vicky Bertagnolli (Clemson Univ.), Dr. Bart Drees (Texas A&M Univ), and Lawrence Graham (Auburn Univ.) - 126 people participated directly, but there were also schools with groups of kids watching. (Oral Presentation). ([Archived presentation](#))
- Oliver, J.B.**, J. Basham, and N. Youssef. 2011. Invasive insects with potential to impact agriculture, the environment, and human health in Tennessee. Tennessee State University, School of Agric. & Consumer Sciences. Cooperative Extension Virtual Coffee Shop Webinar. 9 Nov. 2011. AITC Building, Nashville, TN.
- Oliver, J.B.**, A. Bray, S. Ochieng, N. Youssef, C. Ranger, M. Reding, P. Schultz, B. Klingeman, J. Moyseenko, and J. Basham. 2011. New wood boring insect threats to Tennessee and techniques under evaluation to enhance their detection with traps. Tennessee State University, School of Agric. & Consumer Sciences. 17 Feb. 2011. AITC Building, Nashville, TN.
- Invited **Oliver, J.B.** 2011. How can you tell if you have fire ants? 21 Apr. 2011. eXtension Imported Fire Ant Community of Practice Webinar. (78 attendees). (Invited Webinar)

**Oliver, J.B.**, N. Youssef, C. Ranger, M. Reding, J. Moyseenko, P. Schultz, S. Ochieng, L. Castrillo, and J. Vandenberg. 2010. Granulate and other ambrosia beetles - research to improve management in Tennessee nurseries. Tennessee State University, School of Agric. & Consumer Sciences. 16 June 2010. TSU Otis L. Floyd Nursery Research Center, McMinnville, TN.

**Oliver, J.B.**, S. Ochieng, M. Halcomb, K. Vail, N. Youssef, F. Mrema, J. Chandler, A. Callcott, X. Wei, and W. Haun. 2009. Status of efforts to develop a new cost effective pre-harvest imported fire ant treatment for field-grown nurseries. Tennessee State University, School of Agric. and Consumer Science. 1 May 2009. TSU Otis L. Floyd Nursery Research Center, McMinnville, TN.

**Oliver, J.B.**, D.C. Fare, M.E. Reding, C.M. Ranger, N.N. Youssef, S.S. Scholl, J.J. Moyseenko, and M.A. Halcomb. 2008. Insecticide management of flatheaded borers in field-grown nurseries. Tennessee State University, Institute of Agric. and Environmental Res. 5 Mar. 2008. TSU Otis L. Floyd Nursery Research Center, McMinnville, TN.

Invited **Oliver, J.B.**, D. Fare, M. Reding, B. Klingeman, N. Youssef, S. Scholl, J. Moyseenko, and M. Halcomb. 2007. Field studies on the biology and management of flatheaded borers in commercial nurseries of middle Tennessee. University of Tennessee, 30 November 2007. Knoxville, TN. (Seminar for consideration as Adjunct Faculty. Subsequently approved March 2008).

**Oliver, J.B.**, M. Reding, S. Ochieng, S. James, A. Callcott, M. Halcomb, N. Youssef, C. Ranger, J. Moyseenko, and K. Vail. 2007. Insecticide band treatments for imported fire ants and Japanese beetle. Tennessee State University, Institute of Agric. and Environmental Res. 27 Feb. 2007. TSU Otis L. Floyd Nursery Research Center, McMinnville, TN. (Abstract)

**Oliver, J.B.**, D.C. Fare, N.N. Youssef, S. Scholl, M.A. Halcomb, M.E. Reding, and J.J. Moyseenko. 2006. Ecology of flatheaded borers: implications for successful management in the nursery and landscape. Tennessee State University, Institute of Agric. and Environmental Res. 22 Feb. 2006. Nashville, TN. (Abstract)

Invited **Oliver, J.B.**, S. Ochieng, and M.T. Mmbaga. 2005. Entomology research related to agromedicine at the Tennessee State University Otis L. Floyd Nursery Research Center. North Carolina A&T and 1890 Agromedicine Alliance. 26 Oct. 2005. Greensboro, NC. (Invited).

**Oliver, J.B.** and Nadeer N. Youssef. 2005. Evaluation of multiple traps and ethanol lures for effectiveness at monitoring Asian and other species of ambrosia beetle near commercial nurseries. Spring 2005 Seminar Series. Tennessee State University, Institute of Agric. and Environmental Res. 9 Mar. 2005. McMinnville, TN. (Abstract)

Mmbaga, M.T. and **J. Oliver**. 2004. Evaluation of biorational products for foliage diseases and insect pest management in roses and photinia. Fall 2004 Seminar Series. Tennessee State University, Institute of Agric. and Environmental Res. 4 Nov. 2004. Nashville, TN.  
(Abstract)

**Oliver, J.B.** 2004. Update on entomology research at the TSU Nursery Research Center. Spring Semester 2004 Seminar Series. Tennessee State University, Institute of Agric. and Environmental Res. 17 Mar. 2004. McMinnville, TN.

**Oliver, J.B.** 2001. Management of Japanese beetle and fire ants in commercial nurseries. Presentation: CARP Seminar Series, Tennessee State University Nursery Res. Center. 4 Apr. 2001. McMinnville, TN.

**Oliver, J.B.** 2001. Entomology component of Environmental Protection and Enhancement Team. CARP Seminar Series. Tennessee State University, 5 Dec. 2001. Nashville, TN.

**Oliver, J.B.,** and C. M. Mannion. 2000. Management of Japanese beetle in nursery crops. Presentation: CARP Seminar Series, Tennessee State University Nursery Res. Center. 15 Mar. 2000. McMinnville, TN.

**Oliver, J.B.,** and C. M. Mannion. 2000. Species composition and seasonal abundance of ambrosia beetles attacking chestnut in middle Tennessee and comparison with trapping studies. CARP Seminar Showcase, 13-14 Dec. 2000. Nashville, TN.

**Oliver, J.B.** 2000. Weed species utilization, parasitism, and management of banded-winged whitefly. CARP Seminar Series, Tennessee State University Nursery Res. Center. 15 Mar. 2000. McMinnville, TN.

Mannion, C. and **J. Oliver.** 1999. Entomology program and Japanese beetle research. CARP Seminar Series, Tennessee State University Nursery Res. Center, 10 Mar. 1999. McMinnville, TN. (Abstract)

**Oliver, J.B.** and M.J. Gaylor 1999. Weed host and parasitoid interactions of *Trialeurodes abutilonea* (Haldeman) in the cotton agroecosystem. Department of Entomology, Auburn University, Auburn, AL. (Doctoral Defense Seminar)

**Oliver, J.B.** and C.M. Mannion. 1999. Management of Japanese beetle in nursery crops. Tennessee State University, Cooperative Agricultural Research Program, Nashville, TN.

**Oliver, J.B.** 1997. Research with the bandedwinged whitefly and Japanese beetle. TSU Nursery Research Center, McMinnville, TN. (Interview Seminar for Research Associate Position at TSU)

**Oliver, J.B.** and M.J. Gaylor. 1995. Weed hosts and parasitoids of the bandedwinged whitefly (*Trialeurodes abutilonea* [Haldeman]) and their effects on whitefly populations in and around cotton. Department of Entomology, Auburn University, Auburn, AL.

**Oliver, J.B.** and C.D. Pless. 1993. Effect of endophyte-infected tall fescue on the Japanese beetle and other selected soil insects. Department of Entomology, Auburn University, Auburn, AL.

**Oliver, J.B.** and C.D. Pless. 1990. Effect of endophyte-infected tall fescue on the Japanese beetle and other selected soil insects. Department of Entomology and Plant Pathology, The University of Tennessee, Knoxville, TN. (Master's Defense Seminar)

**Oliver, J.B.** 1989. Influence of selected allelochemicals on the pathogenicity of *Bacillus thuringiensis* Berliner against *Manduca sexta* (L). Department of Entomology and Plant Pathology, The University of Tennessee, Knoxville, TN.

**Oliver, J.B.** 1988. Resistance of soil insects to insecticides: western corn rootworm, *Diabrotica virgifera*, as a model. Department of Entomology and Plant Pathology, The University of Tennessee, Knoxville, TN.

### Youth and Other Presentations / Demonstrations

The TSU Entomology Program participated in the Murfreesboro, TN Cub Scout Day Camp, which had a theme of "Bug Hunters". Various activities included termite trailing and insect display boxes. About 150 first to third grade children were at the event on 5 June 2017.

Invited Plant and insect educational exhibit was provided for the Columbia State Community College 2015 STEM GiRLS Workshop, Columbia, TN. 18 April 2015. Participating in the event were myself (insect displays, parasitic wasps and scarab larvae, hissing cockroaches, etc.), Dr. Anthony Witcher (plant activity), Dr. Karla Adesso (imported fire ant activity), and laboratory assistant Joseph Lampley. Our group exhibited to a total of 120 middle school-aged girls with an estimated 1.3 educational contact hours.

Invited Entomology Event Supervisor for the TSU Sponsored Science Olympiad event, Nashville, TN at the invitation of Dr. Catherine Armwood (TSU Asst Professor Civil and Architectural Engineering Dept.). A 57 question entomology exam was prepared and given by PowerPoint to 14 high school and 8 middle school teams competing in the regional level competition. Nadeer Youssef (Entomology Research Associate) also participated. Over 15 people hours were spent obtaining and preparing photo images, reviewing materials students were responsible for, and preparing a PowerPoint presentation. Teaching contact hours was 6.

Adesso, K. and **J. Oliver**. 2014. Graduate student opportunities in the Chemical Ecology and Entomology Programs at the Tennessee State University Otis L. Floyd Nursery Research Center, McMinnville, TN. Presentation was given on 11 Sept. 2014 at the Graduate Student Orientation Training, Nashville, TN.

I provided assistance to three Williamson County High School students on the 4-H Forestry Team in identifying specific forest-related insects to prepare them for a Forestry conclave event. One parent and Amy Dismukes (UT Extension) also were present. Training was at the Otis L. Floyd Nursery Research Center on 27 Aug. 2014.

I represented TSU at the Cumberland County High School AgDay at the Cumberland Co. Fair Grounds, Crossville, TN. The event organizers specifically requested that the insect displays for this event based on our last two years of participating. About 280 high school students participated plus maybe 20 adults on 29 Aug. 2014.

I provided an insect demonstration and display for children at the Franklin County Library event titled "A Tribute to Catching Fire" at the Winchester City Park, 3-6 PM, Saturday July 19, 2014. Winchester, TN. (About 45 adults and 55 children visited the display).

Entomology Program set up insect displays for the Warren County Chamber of Commerce Youth Leadership class touring the Nursery Research Center. 16 Jan. 2014.

Entomology Program set up insect displays for the ~200 FFA and 4-H high school students visiting the Nursery Research Center for a soil judging competition. Displays were set up in the Conference Room to provide educational opportunity and entertainment for students between soil judging events. 24 Sept. 2013.

Entomology Program set up insect displays for Lanco Nursery Group and LanTenn Nursery touring the Nursery Research Center. 7 Aug. 2012. (Oral Demonstration - about 10 growers).

Entomology Program set up insect displays for two tour groups visiting the Nursery Research Center, including a Plant Inspector group (25-27 June 2012) and a middle school group (27 June 2012).

Entomology insect displays and demonstration for high school student recruitment - Tennessee State University School of Agric. & Consumer Sci. Food, Agric. & Consumer Sci. Week. 5 Apr. 2010. Nashville, TN.

Nursery Research Center Tour given to an international horticulture group, John Pelham (Warren County Executive), and several middle Tennessee nursery growers. The international group was considering locating part of their business enterprise in middle Tennessee and wanted to see the research / educational capability of our grower support facility. Tour was given by me on Saturday 22 Jan. 2010 on behalf of Dr. Nick Gawel who

**Oliver, J.B.** and N.N. Youssef. 2009. How to pin insects, develop a personal insect collection, and prepare a butterfly garden. Junior Master Gardner's Day Camp. 3 June 2009. Warren County Fair Grounds. McMinnville, TN. (Oral Presentations to about 40 children ages 9-14)

Invited

**Oliver, J.B.** 1999, 2000, 2003, 2004, 2005. Entomology and agriculture. Warren County Farm Day, Warren County Farm Bureau. Presentations to all Warren County 3rd grade students.

**Oliver, J.B.** 2001, 2002, 2003, 2006. Ask the experts exhibit area. Tennessee Green Industry Field Day. Otis L. Floyd Nursery Res. Center, McMinnville, TN.



**Oliver, J.B.** 2004 (1 Dec.), 2005 (1 Dec.), 2006 (5 Dec.), and 2008 (Oct. 20). Report for Entomology Program research at the Otis L. Floyd Nursery Research Center. Tennessee Nursery Advisory Group. McMinnville, TN. (Oral Presentation and Research Summary Report)

## 9. TEACHING EXPERIENCE

Master Thesis Outside Committee Member, Joshua Basham. Student began degree program Spring 2017 in the University of Tennessee Entomology and Plant Pathology Department.

Master Thesis Advisor, Matthew Brown. Student began degree program Fall 2016 semester. Mr. Brown is on a teaching assistantship in the Biology Dept. and is supported on grants by my program during summer research activities.

Master Thesis Advisor, Manoj Pandey. Student began degree program Fall 2015 semester.

Master Thesis Committee Member, Sujana Dawadi. Student began degree program Fall 2015 semester.

Master Thesis Committee Member, Ravneet Kaur. Student graduated May 2016.

Master Thesis Committee Member, Aminul Chowdhury. Student graduated Dec. 2013.

Undergraduate Student Mentoring: Matthew Brown (TSU Undergraduate Biology Major) did a laboratory rotation with my program during fall 2015 semester. He participated in flagging and GPS mapping of imported fire ant colonies at a commercial nursery and evaluations of insecticide and biopesticide treatments. He also had opportunities to learn about flatheaded borers, ambrosia beetles, rearing imported fire ants in colonies, and ArcGIS. Data and GIS maps from the insecticide tests were shared with Matt for his final lab rotation report.

Direction of Student Professional Experiences - Internship: Joshua Basham (Tennessee Tech Undergraduate Student) completed a student internship in my program during summer and fall 2015 semesters. Josh performed the internship over a 12 week period during fall and summer 2015 semesters averaging 22 hours per week. During the internship, he participated in statewide surveys for imported fire ant colonies infected with *Solenopsis invicta* virus or *Kneallhazia* microsporidians. He was involved with development of grid maps, GPSing colonies in the field, and collecting specimen samples from colonies.

Statistical support to Master's graduate students: Aminul Chowdhury (Apr. 17, 2013 - 3 hours; Apr. 19, 2013 - 3 hours; May 3, 2013 - 2.5 hours) and Jacque Joshua (Apr. 27, 2012 - 5 hours; May 7, 2012 - 7 hours).

**Oliver, J.B.** and K. Adesso. 2012. Data manipulation using SAS for Windows. Workshop for TSU graduate students and faculty. June 28-29, 2012. Nashville, TN.

Adesso, K. and **J. Oliver**. 2012. Data analysis using SAS for Windows. Workshop for TSU graduate students and faculty. June 28-29, 2012. Nashville, TN.

Master Thesis Committee Member, Richard Link. 2011-2012. Served as Chair of the Committee starting July 2012. Student graduated December 2012.

Undergraduate Student Laboratory Training: Joshua Basham has worked in the Entomology program between 2001 and 2014. He has been trained in insect taxonomy, curation, data collection and entry, and experimental design. He has become a recognized national expert in Buprestidae taxonomy and has authored/co-authored several refereed manuscripts with other buprestid taxonomic specialists. During his time in my program, he also has been working on undergraduate degrees from Motlow State Community College and Tennessee Technological University.

Undergraduate Student Laboratory Training: Joseph Lampley has worked in the Entomology program between 2010 and 2014. He has been trained in insect taxonomy, curation, data collection and entry, and experimental design. He has become skilled in the identification of Cerambycidae and performs a significant amount of identifications for the Entomology program. During his time in my program, he has been working on an undergraduate degree from Middle Tennessee State University.

Curriculum Development: Course outline for entomology portion of AGSC 3330 Integrated Pest Management provided to Dr. Margaret Mmbaga to allow completion of Course Action Request Form (CARF) for new Plant Science Concentration. 12 Feb. 2012.

Guest lecture on Forest Insect Pests. Dr. Solomon Haile's Introduction to Forestry class. Nov. 21, 2011.

Ph.D. Outside Thesis Committee Member, Jason Hansen, University of Tennessee. 2006-2010.

Master Thesis Committee Member, Peter Nveawiah-Yoho, Tennessee State University. 2005 – 2006.

High School Teacher Host: The TSU Entomology Program hosted a White County High School Horticulture Teacher - Charles Cooper) for several weeks during the summer of 2010, which allowed Mr. Cooper to meet his Career & Technical Education (CTE) professional development requirements.

Student Poster Judge. 2009 Meeting of the Association of Research Directors, Inc. - Biennial Research Symposium, Atlanta, GA.

Student Poster Judge. 2009 National Entomological Society of America Annual Meeting, Indianapolis, IN.

Mentoring of Warren County High School Summer Interns. Hayden Everett and Macy Dishman (2015), Samantha Bratcher and Kaylee Herrington (2014), Maya Denning and Alex DeLane (2013), Elizabeth Oxley, Lauren Wilson, and Austin Shay (2012), Ben Wilson and Robert Eschenbacher (2011), Victoria Eschenbacher (2010), and Jacob Weddington (2009).

Teaching Assistant, 1996, ENT 502 (Economic Entomology), Auburn University, Responsibilities included laboratory instruction; test and project grading.

Teaching Assistant, 1994, 1995, ENT 204 (Insects), Auburn University; Responsibilities included test and project grading. Guest lecture on integrated pest management.

Teaching Assistant, 1993, ENT 304 (General Entomology), Auburn University; Responsibilities included laboratory assistance.

Teaching Intern, 1989, ENT 512 (Field Crops & Vegetable Insects), The University of Tennessee, Knoxville; Responsibilities included laboratory assistance.

## **10. POSTDOCTORAL SCIENTISTS MENTORED**

Dr. Alicia Bray. Nov. 2010 to Aug. 2013. Project development of trapping techniques for wood-boring insects.

Dr. Minsheng Wang. 2005 to 30 June 2007. Project: Development of treatments to manage imported fire ants in field-grown nursery stock. Project was supported by Tenn. Dept. of Agriculture.

Dr. Tahir Rashid. University of Tennessee postdoctoral scientist based at the Nursery Research Center. I provided mentoring guidance during his tenure at the Center. (2003 to 2005).

## **11. PROFESSIONAL TRAINING AND WORKSHOPS ATTENDED**

Nursery and Landscape Symposium: Pretty Tough Plants - New Evaluations and Selections from Across the South. 2 June 2017. Otis Floyd Nursery Research Center, McMinnville, TN.

Grant opportunities with USDA-NIFA. USDA-NIFA Program Leaders, Dr. Mark Mirando and Dr. Steven Smith. AITC Conference link to Nashville. 30 Jan. 2017.

Haven Sexual Assault, Domestic/Dating Violence, and Stalking Education and Awareness Module. 8 Feb. 2017 and 1 Feb. 2016.

Forest Tech Resources training on use of global positioning equipment with SoloForest and ArcGIS, 15-16 Dec. 2015, McMinnville, TN.

Tennessee State University Steps for Recognizing and Preventing Harassment and Discrimination Online Training Course. 25 Feb. 2015.

CPR and First Aid Training by the American Heart Association. Bryan Locke. 28 Jan. 2015. Otis L. Floyd Nursery Research Center, McMinnville, TN.

NIH Office of Intramural Research Financial Conflicts of Interest (FCOI) online tutorial training certificate (required by TSU Research and Sponsored Programs). Completed 23 Oct. 2014.

Meeting Our Title VI Requirements by TSU Equal Opportunity and Affirmative Action. Tiffany Cox. 11 Sept. 2014. Nashville, TN.

Ethics Related to Grant Funding by Tennessee State University Office of Internal Audit. Mike Batson. One hour presentation at the end of the Monthly Extension and Research Faculty Meeting. 5 Feb. 2014. Nashville, TN (attended by phone conference link to McMinnville, TN).

Systems-Based Pest Management Training for Tennessee Nursery Owners, Employees, and Hispanic Work Force. Hosted by University of Tennessee, USDA-ARS, and Southern Risk Management Education Center. 25 Sept. 2013. McMinnville, TN.

Faculty Workshop on Student Advisement. Tennessee State University, College of Agriculture, Human, and Natural Sciences. 30 July 2013. Nashville, TN.

Equal Opportunity & Affirmative Action Preventing Harassment and Discrimination Training. Tiffany Cox and Bobbie Porter. 17 July 2013. McMinnville, TN (via AITC Conference Link).

Extension reporting system - SUPER hands-on training and writing effective impact statements. Joseph Donaldson (Univ. Tenn.). 9 Jan. 2013. Nashville, TN.

Training session on safe operation of a John Deere skid steer loader. Training and video provided by John Deere representative. 7 Dec. 2012. McMinnville, TN.

eXtension Web Conference on Ask an Expert 2.0 and Content Appraisal. Attended via webinar on 30 April 2012.

Tennessee State University Diversity Training Workshops. a) Search Committee Guidelines for Recruiting an Inclusive Workforce, b) Care and Candor – Making Performance Appraisals Work, c) Everyday Ethics – Good People, Bad Choices, and d) Harassment Hurts: It's Personal. 14-15 Aug. 2012. McMinnville, TN (via AITC Conference Link).

Tennessee State University Office of Judicial Affairs faculty training presentation. 16 Mar. 2012.

USDA-NIFA Presentation on Improving Grant Funding Success and Other Opportunities. Mark Mirando and Adele Turzillo. Tennessee State University. 2 Feb. 2012. Nashville, TN (attended by video conference link to McMinnville, TN).

Tennessee State University Laboratory Safety Training. Tommi Smith. 18 Jan. 2012. Nashville, TN (attended by video conference link to McMinnville, TN).

Ethics Presentation by Tennessee State University Office of Internal Audit. Paul Coleman and Mike Batson. 27 Oct. 2011. Nashville, TN (attended by video conference link to McMinnville, TN).  
eXtension National Community of Practice Workshop. 28-30 June 2011. Louisville, KY.

Air blast sprayer workshop. Hosted by Amy Fulcher and Mark Halcomb (Univ. Tenn.), Randy Zondag (Ohio State Univ.), and Heping Zhu (USDA-ARS). 4 May 2011. Pro-Gro Nursery, McMinnville, TN.

Dealing with the hard to control insects: white peach tree scale, Japanese maple scale, flatheaded appletree borers and the Asian ambrosia beetle (and the camphor shot borer). Dr. Frank Hale. Univ. of Tenn. Warren County Extension Office, McMinnville, TN. Mar. 1, 2011.

Utilizing video in extension programming. Michael Shirley and Jonell Hinsey. Univ. of Tenn. and Tenn. State Univ. Rutherford County Extension Office, Murfreesboro, TN. Dec. 10, 2010.

The art of growing dogwoods in containers. Sponsored by Univ. Tennessee and USDA-ARS National Arboretum. Otis L. Floyd Nursery Research Center, McMinnville, TN. Nov. 18, 2010.

Graduate Student Handbook, Student Responsibilities and Accountability, and Welcoming Session for Returning Graduate Students. Tennessee State Univ. School of Agric. & Consumer Sciences. Nashville, TN. Sept. 2, 2010.

Incident Command System for Single Resource and Initial Action Incidents. Emergency Management Institute. FEMA. U.S. Dept. of Homeland Security. Independent Study Online Course ICS-200. June 18, 2010.

Introduction to the Incident Command System. Emergency Management Institute. FEMA. U.S. Dept. of Homeland Security. Independent Study Online Course ICS-100 for Higher Education. June 14, 2010.

Planning and Managing Systems Based Trans-Disciplinary Projects for USDA/NIFA Programs. 10 Dec. 2009. Ithaca, NY (Attended by webcast).

Tennessee State University Preventing Sexual Harassment. Office of Equity, Diversity, and Compliance. Online Training Module. Sept. 1, 2009.

Responsible Conduct of Research / RSP Policies and Procedures. Tennessee State University Division of Research and Sponsored Programs Workshop. Faculty / Staff Institute Fall 2009. Aug. 24, 2009. Nashville, TN.

Legal Aspects of Classroom Management. Lisa Atkins. Tennessee State University Faculty / Staff Institute Fall 2009. Aug. 24, 2009.

Tennessee State University, School of Agriculture and Consumer Sciences, Small Farm Expo / Small Farmer Recognition Program. July 31, 2009. Ashland City, TN. Attendee.

Grant Proposal Submission Workshop. Tennessee State University Division of Research and Sponsored Programs. April 17, 2009. McMinnville, TN (via conference link).

Exceptional Customer Service with a Smile Training - "I am TSU". Tennessee State University, Office of Human Resources. Apr. 3, 2009. McMinnville, TN.

Effective Management of Student Conduct. Tennessee Board of Regents Online Training Module. Dec. 5, 2008. McMinnville, TN.

Strategic Planning Workshop. Tennessee State University. School of Agriculture and Consumer Sciences. Nov. 17, 2008. Nashville, TN.

Introduction to SAS 9.2 Statistical Graphics SGProcs, Part I. Biometrical Consulting Service. 30 September 2008. Beltsville, MD. Attended via video conference link at McMinnville, TN.

Tennessee State University, Cooperative Extension Program, Tennessee Small Farms Expo & Small Farmer Recognition Program. 8 Aug. 2008. Ashland City, TN.

Hazard Communication / Right-to-Know Training. Tennessee State University. 26 June 2008. Nashville, TN

Attended and participated in USDA-APHIS and Tennessee Department of Agriculture meeting with Tennessee Nursery Advisory Group (1 Aug. 2007) and all day inspector training and grower stakeholder meeting (2 Aug. 2007)

U.S. Department of Homeland Security. Workshop for Minority Serving Institutions: Awareness Access Opportunity. Tennessee State University. 6 Dec. 2007. Nashville, TN.

Tennessee State University, Research and Sponsored Programs Grants.gov Workshop. 8 June 2007. Nashville, TN.

Tennessee State University, Research and Sponsored Programs Developing Grant Proposal Budgets Workshop. 20 July 2007. Nashville, TN.

American Heart Association Heartsaver AED Training. Multi-Regional LifeGuard Medical Solutions, 19 Jan. 2007. Otis L. Floyd Nursery Research Center, McMinnville, TN.

Workshop on Spatial Statistics for Agricultural and Environmental Research Applications. USDA-ARS Beltsville, MD (participated via internet conference connection). 15-16 March 2006

Federal Framework for Balancing Agriculture and the Environment. Opportunities for Collaboration. EPA Region 4, Natural Resources Conservation Service, and USDA CSREES. 6 Dec. 2005. Atlanta, GA.

Bayer Environmental Science Lawn & Ornamental Insect Summit. 15-17 Sep. 2005. Traverse City, MI.

Hiring Manager Training. Tennessee State University Human Resources. 24 Aug. 2005. Nashville, TN.

Short Course: Getting to know ArcGIS Desktop: Basics of ArcView, ArcEditor, and ArcInfo. Tennessee State University. 6-7 Jul. 2005. Nashville, TN.

National Pink Hibiscus Mealybug Survey Distance Education Teleconference. National Plant Diagnostic Network, North Central IPM Center, and USDA-APHIS. 15 Jun. 2005. McMinnville, TN.

The Empowered User Team Effectiveness. Tennessee State University. Management Solutions Group, LLC. 9 Sep. 2004. Nashville, TN.

Supervising the Empowered User. Tennessee State University. Management Solutions Group, LLC. 10 Aug. 2004. Nashville, TN.

Introduction to Research and Sponsored Programs Policies and Procedures. Division of Research and Sponsored Programs. 23 Jun. 2004. Nashville, TN.

Introduction to ARCGIS I (for ArcView 8, ArcEditor 8, and ArcInfo 8). ESRI 10-11 Mar. 2004. Mississippi State University, Starkville, MS.

Introduction to Global Positioning Systems Training Course. LandMark Systems Inc., Warner Robbins, GA. 9 Dec. 2003.

Accessibility, Accountability, Responsibility, and Time Management, Professional Ethics, and Working Effectively as a Team Member. Tennessee State University, CARP Management Series II Workshop. 22-25 Jul. 2002. Pigeon Forge, TN.

USDA National Research Initiative Competitive Grants Program, Northeastern Regional Workshop on Competitive Grants Programs. 2001. Syracuse, NY.

Introduction to Risk Analysis: A Shortcourse. Hosted by TSU and USDA, Tennessee State University. 29 May – 1 Jun. 2001. Nashville, TN.

Creating a Fire Ant Free Zone. Symp. for Res. Specialists. GardenTech Inc., 7-8 Nov. 2001. Orlando, FL.

Field Weed Control Meeting. University of Tennessee. 20 Sep. 2001. McMinnville, TN.

Imported Fire Ant Workshop, The University of Tennessee, 2000, Tellico Plains, TN.

The Team Building Approach Managing Change in the Research Environment. Tennessee State University, CARP Employee Management Series I Workshop. 12-14 May 1999. Gatlinburg, TN.

Insects of Ornamental Plants Diagnostic Workshop; Ornamental Plant Disease Workshop; Tenn. Nursery & Landscape Assoc. Short Course, Gatlinburg, TN. 1998, 1999.

USDA National Research Initiative Competitive Grants Program, Southern Regional Grants Workshop, 1995, Atlanta, GA.

University of Florida/USDA-APHIS-PPQ. Sweetpotato Whitefly Parasitoid Workshop, 1995, Tallahassee, FL.

Commercial Pesticide Applicator Certification; Ornamental and Turf; Demonstration, Research and Regulatory; Tennessee Department of Agriculture.

Beltsville Symposium XVIII Pest Management: Biologically Based Technologies. USDA-ARS. 2-6 May 1993. Beltsville, MD.

Oak Ridge National Laboratory, OSHA Hazardous Waste Operations. 20-22 May 1991. Oak Ridge, TN.

Pest Control Technicians School, Agricultural Extension Service/Tennessee Pest Control Association. 28-30 Nov. 1989. Knoxville, TN.

Forestry Pesticide Training, U.S. Department of Agriculture Forest Service, 31 Mar. – 1 Apr. 1986. Knoxville, TN.

Fish Health Short Course, U.S. Fish & Wildlife Service. 13 Dec. 1986. Knoxville, TN.

**Total New Funding (Since 2001): \$2.8 Million**

**12. GRANTSMANSHIP**

**- PI: \$1,754,038**

**- Co-PI / Collaborator: \$1,047,805**

**Pending Grants**

Brown, M. and **J. Oliver**. 2017. Reducing nursery tree attractiveness to ambrosia beetles (Coleoptera: Scolytinae) by using stress-mitigating fungicides to target biotic and abiotic stress factors like root rot disease (Phytophthora) and flood stress. USDA Southern SARE Graduate Student Grant Proposal. Submitted 5 May 2017. \$14,754. (Matt Brown is a Master's student in the TSU Department of Biological Sciences. Dr. Jason Oliver is serving as his major thesis advisor).

**Grants, Unrestricted Research Gifts, and USDA Cooperative Agreements**

**Oliver, J.**, K. Adesso, and A. Witcher. 2017. Japanese beetle management with Acelepryn and Mainspring in field-grown and container nursery crops. (Pending). \$10,000 (\$3333.33 Dr. Oliver's program, \$3333.33 Dr. Adesso's program, and \$3,333.33 Dr. Witcher Program). Pending July or August 2017.

**Oliver, J.**, K. Adesso, and A. Callcott. 2017. Relocation of imported fire ant SINV-3 virus into hybrid IFA populations in Tennessee. Work Plan to USDA-APHIS. Submission Date: 10 Apr. 2017. (Proposed Project Period: 1 June 2017 to 31 Dec. 2018). \$20,642.

**Oliver, J.**, K. Adesso, A. Witcher, N. Youssef, M. Reding, and C. Ranger. 2016. Continuation of soil temperature effects on Japanese Beetle Harmonization dip treatments and non-neonicotinoid alternatives. USDA-APHIS Farm Bill Section 10007 FY17 - Plant Pest and Disease Management and Disaster Prevention Program. Award Notification: 13 Dec. 2016. (Project Period: May 1, 2017 to Apr. 30, 2018). \$84,663.

**Oliver, J.** 2016. Unrestricted corporate grant to evaluate cyantraniliprole and chlorantraniliprole against Japanese beetle. Syngenta Crop Protection, Inc. 15 Aug. 2016. \$11,000.

**Oliver, J.**, K. Adesso, M. Brown, M. Pandey, S. Dawadi, and D. Shapiro-Ilan. 2016. Entomopathogenic nematodes for management of flatheaded borer and ambrosia beetles. Middle Tennessee Nursery Assoc. (Note: Manoj Pandey and Sujana Dawadi are currently M.S. graduate students in the TSU Dept. Agric. & Environ. Sci. and Matt Brown in the TSU Biological Sciences Dept. with Dr. Jason Oliver serving as major advisor for Manoj Pandey and Matt Brown and graduate committee member for Sujana Dawadi). \$500.

Pandey, M., **J. Oliver**, and K. Adesso. 2016. Response of imported fire ants to extracts of coffee-weed, *Sesbania herbacea* (Mill.). Middle Tennessee Nursery Association. (Note: Manoj Pandey is currently a M.S. graduate student in the Dept. Agric. and Environ. Sci. with Dr. Jason Oliver serving as his major advisor). \$500.



Addesso, K., **J. Oliver**, and S. Dawadi. 2016. Treatment of overwintering Japanese maple scale females with a growth regulator to prevent egg hatch. Middle Tennessee Nursery Association. (Note: Sujana Dawadi is currently a M.S. graduate student in the Dept. Agric. and Environ. Sci. with Dr. Jason Oliver serving as a Graduate Committee Member). \$500.

Addesso, K., **J. Oliver**, M. Brown, and C. Ranger. 2016. Method for using AlcoScreen alcohol saliva test strips for detecting stressed trees in danger of ambrosia beetle attacks. Middle Tennessee Nursery Association. (Note: Matt Brown is a M.S. graduate in the TSU Biological Sciences Dept. with Dr. Jason Oliver serving as his major advisor). \$750.

**Oliver, J.B.**, K.M. Addesso, and C. Ranger. 2016. Developing and integrating novel strategies for managing exotic ambrosia beetles in ornamental nurseries. USDA-ARS Floriculture Nursery Research Initiative. Cooperative Agreement No. 58-3607-3-984. Award Notification: 29 Mar. 2016. (Project Period: Aug. 1, 2014 to July 30, 2018). Amendment No. 4. \$38,835.

**Oliver, J.B.**, K.M. Addesso, and D. Fare. 2016. Evaluation of cost effective management of imported fire ants in nursery crops. USDA-ARS Floriculture Nursery Research Initiative. Cooperative Agreement No. 58-1230-3-496. Award Notification 29 Mar. 2016. (Project Period: Aug. 1, 2014 to July 30, 2018). Amendment No. 3. \$40,777.

Witcher, A. and **J. Oliver**. 2016. Efficacy of granular insecticide treatments for Japanese beetle and imported fire ant in compost-amended substrates. USDA-APHIS Farm Bill. Award Notification: 25 Feb. 2016. (Project Period: April 1, 2016 – March 31, 2017). \$30,045.28.

**Oliver, J.**, K. Addesso, S. Valles, and W. Haun. 2016. *Solenopsis invicta* virus (SINV) and *Kneallhazia solenopsae* in Tennessee and relocation of virus into new areas. USDA-APHIS. Renewal of existing agreement for winter 2016 period. 19 Feb. 2016. (Project Period: June 1, 2015 - May 31, 2017). \$15,000 Amendment.

Vandenberg, J., L. Castrillo, **J. Oliver**, and N. Youssef. 2016. Control of ambrosia beetles and their symbiotic fungi using biopesticidal fungi. Horticultural Research Institute. \$25,000. Award Notification 4 Feb. 2016.

**Oliver, J.B.**, K.M. Addesso, and C. Ranger. 2015. Developing and integrating novel strategies for managing exotic ambrosia beetles in ornamental nurseries. USDA-ARS Floriculture Nursery Research Initiative. Cooperative Agreement No. 58-3607-3-984. 26 May 2015. (Project Period: Aug. 1, 2014 to July 30, 2018). Amendment No. 3. \$38,872.69.

**Oliver, J.B.**, K.M. Addesso, and D. Fare. 2014. Evaluation of cost effective management of imported fire ants in nursery crops. USDA-ARS Floriculture Nursery Research Initiative. Cooperative Agreement No. 58-1230-3-496. 20 May 2015. (Project Period: Aug. 1, 2014 to July 30, 2018). Amendment No. 2. \$40,815.

**Oliver, J., K. Addesso, S. Valles, and W. Haun.** 2015. Distribution of *Solenopsis invicta* virus (SINV) and *Kneallhazia solenopsae* in Tennessee and potential relocation of virus to new areas. USDA-APHIS Cooperative Agreement No. 15-8130-0523-CA. 7 May 2015. (Project Period: June 1, 2015 to May 31, 2016). \$15,000.

**Oliver, J.B., M. Reding, C. Ranger, and N. Youssef.** 2015. Soil temperature effect on the efficacy of the Domestic Japanese Beetle Harmonization Plan dip treatment for containerized and balled and burlapped nursery stock. USDA-APHIS Farm Bill Funding. Project Period: July 1, 2015 to June 30, 2016. \$21,592.

Vandenberg, J.D., L.A. Castrillo, **J.B. Oliver**, and N. Youssef. 2015. Control of ambrosia beetles and their symbiotic fungi using biopesticidal fungi. Horticultural Research Institute. July 1, 2015 to June 30, 2016. (Award notification by Joseph Albano Nov. 13, 2014).

\$10,000

Addesso, K., **J. Oliver**, D. Fare, and B. Boyd. 2015. Incorporating a cover crop into in-field production for weed management and improved flatheaded appletree borer control. USDA-SARE grant. Mar. 15, 2015 to Mar. 15, 2017. \$14,997.

**Oliver, J.B.** and K. Addesso. 2014. Evaluation of Scimitar GC, Advion Fire Ant Bait, and Award II Fire Ant Bait for management of imported fire ants in field-grown nurseries. Syngenta Crop Protection, LLC. Nov. 25, 2014. Funds split with Dr. Karla Addesso's program. \$12,000 total.

**Oliver, J.B., K. Addesso, and S. Dennis.** 2014. Reducing the impacts of the Federal Imported Fire Ant Quarantine regulations on the Tennessee nursery industry. Tennessee Department of Agriculture Specialty Block Grant Program. (Project Period: Sept. 30, 2014 to Aug. 31, 2017). Award Number: SCBGP-TN-0047. \$50,000.

**Oliver, J.B., K.M. Addesso, and C. Ranger.** 2014. Developing and integrating novel strategies for managing exotic ambrosia beetles in ornamental nurseries. USDA-ARS Floriculture Nursery Research Initiative. Cooperative Agreement No. 58-3607-3-984. (Aug. 1, 2014 to July 30, 2018). Amendment No. 2. \$38,910.51.

**Oliver, J.B., K.M. Addesso, and D. Fare.** 2014. Evaluation of cost effective management of imported fire ants in nursery crops. USDA-ARS Floriculture Nursery Research Initiative. Cooperative Agreement No. 58-1230-3-496. (Aug. 1, 2014 to July 30, 2018). Amendment No. 1. \$40,856.

Vandenberg, J.D., L.A. Castrillo, **J.B. Oliver**, and N. Youssef. 2014. Biopesticidal fungi for control of Asian ambrosia beetles and their symbiotic fungi. Horticultural Research Institute Grant Extension. (Awarded 28 Jan. 2014. Project period: July 1, 2014 to June 30, 2015). \$50,000.

**Oliver, J.B.** and K. Addesso. 2013. Evaluation of cost effective management of imported fire ants in nursery crops. USDA-ARS Floriculture Nursery Research Initiative. New Cooperative Agreement No. 58-1230-3-496. (Aug. 1, 2013 to July 30, 2018). \$40,896.

**Oliver, J.B.** and K. Addesso. 2013. Development of novel strategies for managing exotic ambrosia beetles in ornamental nurseries. USDA-ARS Floriculture Nursery Research Initiative. New Cooperative Agreement No. 58-3607-3-984. (Jun. 1, 2013 to July 30, 2018).

¶ 328 Q18

Addesso, K. and **J. Oliver**. 2013. Behavioral-based control methods for ambrosia beetle management in ornamental nurseries. USDA-ARS Capacity Building Grant. Sept. 1, 2013 to Aug. 31, 2016. \$299,751.

**Oliver, J.B.** and K. Addesso. 2013. Evaluation of cyantraniliprole and chlorantraniliprole for flatheaded borer management in red maple. Syngenta Crop Protection, LLC. Aug. 16, 2013. Funds split with Dr. Karla Addesso. (\$5,600 with each program receiving \$2800).

**Oliver, J.B.** and A.M. Callcott. 2013. In kind cooperative research funds provided to purchase research plants in Tennessee by USDA-APHIS PPQ Soil Inhabiting Pests Section, Gulfport, MS. Oct. 24, 2013. \$1,090.

Vandenberg, J.D., L.A. Castrillo, **J.B. Oliver**, and N. Youssef. 2012. Testing and development of fungal biocontrol agents against Asian ambrosia beetles and their symbiotic fungi. Horticultural Research Institute. (Awarded Nov. 2012. Project period July 1, 2013 to June 30, 2014). \$50,000.

**Oliver, J.B.** and C.M. Ranger. 2012. In kind cooperative research funds provided to purchase research plants and supplies used in Tennessee from USDA-ARS Horticultural Insects Research Laboratory, Wooster OH. October 2012. \$3,965.

**Oliver, J.B.**, A. Bray, K. Addesso, and C. Ranger. 2012. Tree injections and other methods to improve trapping of buprestid, cerambycid, and Scolytinae borers. USDA-APHIS. Renewal of Cooperative Agreement. Sept. 24, 2012 to Sept. 23, 2013. \$50,600.

Bray, A. and **J.B. Oliver**. 2012. Walnut branch girdling to increase walnut twig beetle attraction within introduced range in Tennessee. US Forest Service. Supplement to Cooperative Agreement. Sept. 30, 2012 to Sept. 30, 2013. \$8,338.

**Oliver, J.B.** and A.M. Callcott. 2012. In kind cooperative research funds provided to purchase research plants in Tennessee by USDA-APHIS PPQ Soil Inhabiting Pests Section, Gulfport, MS. Oct. 19, 2012. \$780.

**Oliver, J.B.**, C.M. Ranger, N. Youssef, A. Bray, and J. Moyseenko. 2012. Evaluation of experimental product (A190036) and Flagship (thiamethoxam) against third instar Japanese beetle. Syngenta Crop Protection. (May 9, 2012). \$5,000.

**Oliver, J.B.**, K. Addesso, A. Bray, N. Youssef, C.M. Ranger, and M. Reding. 2012. Identification of factors predisposing woody ornamentals to ambrosia beetle attack. USDA-ARS Specific Cooperative Agreement. 2012 Amendment Supplement No.# 4 for a multi-year agreement running from Sept. 30, 2008 to Sept. 29, 2013. \$38,986.

**Oliver, J.B.** and N. Gawel. 2012. Evaluation of production practices, disease resistance and insect control measures in nursery crops. USDA-ARS Specific Cooperative Agreement No. 1230-21000-042-04S. 2012 Amendment Supplement No.# 9 for a multi-year agreement running from Sept. 27, 2007 to Sept. 26, 2012. \$40,936.

Fulcher, A., D. Fare, M. Halcomb, F. Hale, C. Kimbro, **J. Oliver**, and A. Windham. 2012. Tennessee Master Nursery Program. Tennessee Department of Agriculture Specialty Block Grant. \$47,000.

Corporate Gifts: I arranged for \$4,500 to be donated to the 2012 Imported Fire Ant Conference to cover meeting costs from Dupont Professional Products, Central Life Sciences, and Scotts Miracle-Gro Co. Meeting was April 16-18, 2012.

**Oliver, J.B.**, A. Bray, and C.M. Ranger. 2011. Tree injection and other methods to improve trapping of buprestid, cerambycid, and scolytid borers. USDA-APHIS. Cooperative Agreement Renewal: 2011 Supplement approved on Sept. 23, 2011 for a project running from Sept. 1, 2010 to Aug. 31, 2012. \$44,000.

**Oliver, J.B.** and A.M. Callcott. 2011. In kind cooperative research funds provided to purchase research plants in Tennessee by USDA-APHIS PPQ Soil Inhabiting Pests Section, Gulfport, MS. Aug. 19, 2011. \$1,500.

**Oliver, J.B.** and C.M. Ranger. 2011. In kind cooperative research funds provided to purchase research plants used in Tennessee from USDA-ARS Horticultural Insects Research Laboratory, Wooster OH. July 29, 2011. \$2,200.

Bray, A. and **J.B. Oliver**. 2011. Walnut branch girdling to increase walnut twig beetle attraction within introduced range in Tennessee. US Forest Service. Period July 19, 2011 to Sept. 30, 2012. \$8,360.

**Oliver, J.B.**, C. Ranger, and M. Reding. 2011. Identification of factors predisposing woody ornamentals to ambrosia beetle attack. USDA-ARS Specific Cooperative Agreement. 2011 Amendment Supplement No.#3 (20 June 2011) for a multi-year agreement running from Sept. 30, 2008 to Sept. 29, 2013. \$39,024.

**Oliver, J.B.** and N. Gawel. 2011. Evaluation of production practices, disease resistance and insect control measures in nursery crops. USDA-ARS Specific Cooperative Agreement No. 1230-21000-042-04S. 16 June 2011. Supplement \$60,000.

**Oliver, J.B.**, C. Ranger, J. Moyseenko, A. Bray, and N. Youssef. 2010. Evaluation of Quali-Pro imidacloprid 2F for pre-harvest management of early instar Japanese beetle. Quali-Pro Professional Turf & Ornamental Products. Dec. 6, 2010. Unrestricted Gift. \$3,500.

**Oliver, J.B.**, S. Ochieng, C.M. Ranger, and M. Reding. 2010. Identification of factors predisposing woody ornamentals to ambrosia beetle attack. USDA-ARS Specific Cooperative Agreement. Sept. 2010 Amendment Supplement No.# 2 for a multi-year agreement running from Sept. 30, 2008 to June 30, 2011. \$39,024.39.

**Oliver, J.B.** and A.M. Callcott. 2010. In kind cooperative research funds provided to purchase research plants in Tennessee by USDA-APHIS PPQ Soil Inhabiting Pests Section, Gulfport, MS. Sept. and Nov. 2010. \$3,996.

**Oliver, J.B.** and C.M. Ranger. 2010. In kind cooperative research funds provided to purchase research plants used in Tennessee from USDA-ARS Horticultural Insects Research Laboratory, Wooster OH. September 2010. \$4,680.

**Oliver, J.B.**, Ranger, C., J. Moysenko, and N. Youssef. 2010. Evaluation of Dazitol as a Japanese beetle grub treatment. Natural Forces LLC. August 30, 2010. Unrestricted Gift. \$500.

**Oliver, J.B.**, S. Ochieng, and C.M. Ranger. 2010. Tree injection and other methods to improve trapping of buprestid, cerambycid, and scolytid borers. USDA-APHIS. August 2010 Cooperative Agreement Renewal for project period Sept. 1, 2010 to Sept. 1, 2011. \$44,000.

Mmbaga, M., **J.B. Oliver**, and S. Ochieng. 2010. Alternatives to conventional pesticides in disease and pest management in nursery production system. USDA Capacity Building Program. \$199,997. Sept. 1, 2010 to Aug. 31, 2013. (J. Oliver Co-Project Director - 10% salary support)

**Oliver, J.B.** and C.M. Ranger. 2010. In kind USDA technician travel expenditures to assist with TSU Entomology Program cooperative research at the Otis L. Floyd Nursery Research Center by USDA-ARS Horticultural Insects Research Laboratory, Wooster OH. \$9,917.

**Oliver, J.B.** and N. Gawel. 2010. Evaluation of production practices, disease resistance and insect control measures in nursery crops. USDA-ARS Specific Cooperative Agreement No. 1230-21000-042-04S. Supplement \$60,000.

**Oliver, J.B.** and S. Ochieng. 2009. Development of new methods and treatments to certify field-grown nursery plants against imported fire ants. Project period Oct. 31, 2009 to Sept. 30, 2012. Tennessee Dept. Agric. \$29,972.

**Oliver, J.B.** and A.M. Callcott. 2009. In kind cooperative research funds provided to purchase research plants in Tennessee by USDA-APHIS PPQ Soil Inhabiting Pests Section, Gulfport, MS. 8 Sept. 2009. \$1,692.

**Oliver, J.B.** and C.M. Ranger. 2009. In kind cooperative research funds provided to purchase research plants used in Tennessee from USDA-ARS Horticultural Insects Research Laboratory, Wooster OH. September 2009. \$4,860.

**Oliver, J.B.** and C.M. Ranger. 2009. In kind USDA technician travel expenditures to assist with TSU Entomology Program cooperative research at the Otis L. Floyd Nursery Research Center by USDA-ARS Horticultural Insects Research Laboratory, Wooster OH. \$11,112.

**Oliver, J.B.**, S. Ochieng, and C.M. Ranger. 2009. Tree injection and other methods to improve trapping of buprestid, cerambycid, and scolytid borers. USDA-APHIS. Sept. 30, 2009 to Aug. 30, 2010. \$100,000 (with possibility of renewal for 2 more years)

**Oliver, J.B.**, N. Youssef, and M. Halcomb. 2009. Evaluation of Kontos (spirotetramat) for potato leafhopper and nursery insect control. Bayer Environmental Science. Unrestricted gift. June 19, 2009. \$5,550

**Oliver, J.B.** and C.M. Ranger. 2009. Identification of factors predisposing woody ornamentals to ambrosia beetle attack. USDA-ARS Specific Cooperative Agreement. 2009 Amendment No.#1 for multi-year agreement running from Sept. 30, 2008 to June 30, 2011. \$39,024.

**Oliver, J.B.**, N. Gawel, and S.A. Ochieng. 2009. Evaluation of production practices, disease resistance and insect control measures for nursery crops. Specific Cooperative Agreement No. 1230-21000-042-04S. Mar. 26, 2009. \$60,000.

**Oliver, J.B.** and C.M. Ranger. 2008. Identification of factors predisposing woody ornamentals to ambrosia beetle attack. USDA-ARS Specific Cooperative Agreement. Sept. 30, 2008 to June 30, 2011. \$23,100.

**Oliver, J.B.** and A.M. Callcott. 2008. In kind cooperative research funds provided to purchase research plants in Tennessee by USDA-APHIS PPQ Soil Inhabiting Pests Section, Gulfport, MS. Sept. 10, 2008. \$2,016.

**Oliver, J.B.** and C.M. Ranger. 2008. In kind cooperative research funds provided to purchase research plants used in Tennessee from USDA-ARS Horticultural Insects Research Laboratory, Wooster OH. September 2008. \$5,632.

**Oliver, J.B.** 2008. Development of pre-harvest pyrethroid treatments for imported fire ant management in field-grown nursery stock. Middle Tennessee Nursery Association. 17 June 2008. \$2,500.

**Oliver, J.B.** 2008. Evaluation of Safari 20SG and Safari 2G for control of potato leafhopper in field-grown nurseries applied at 0.54 lb ai / acre as a banded application. Valent USA Corporation. 15 May 2008. \$2,000.

**Oliver, J.B.** and D. Fare. 2008. Physiological affects of imidacloprid in prevention of stress in woody ornamental plants. Bayer Environmental Science. 8 January 2008. \$12,000.

**Oliver, J.B.**, S.A. Ochieng, and M.A. Halcomb. 2007. Bifenthrin band and broadcast treatments to manage imported fire ants in field nursery. Middle Tennessee Nursery Association. 22 October 2007. \$2,500.

**Oliver, J.B.**, S. Ochieng, M.A. Halcomb, A. Callcott, and K. Vail. 2007. Pyrethroid band treatments to certify field nursery stock against imported fire ant. Horticultural Research Institute. 25 January 2007. \$20,000.

**Oliver, J.B.** and S. Ochieng. 2007. Development of treatments to manage quarantine insects in field nursery plants. USDA-ARS Cooperative Agreement No. 58-1230-2-036. \$39,025.

**Oliver, J.B.**, D.C. Fare, M. Reding, N. Youssef, S. Scholl, and J. Moyseenko. 2006. Evaluation of clothianidin against flatheaded borers, potato leafhopper, and maple tip moth in field-grown nurseries. Arysta LifeScience North America Corporation. 26 October 2006. Unrestricted Gift. \$2,000

**Oliver, J.B.**, D.C. Fare, M. Reding, N. Youssef, S. Scholl, and J. Moyseenko. 2006. Evaluation of thiamethoxam against flatheaded borers, potato leafhopper, and maple tip moth in field-grown nurseries. Syngenta Crop Protection, Inc. 25 October 2006. Unrestricted Gift. \$3,000

**Oliver, J.B.**, D.C. Fare, M. Reding, N. Youssef, S. Scholl, and J. Moyseenko. 2006. Evaluation of dinotefuran against flatheaded borers, potato leafhopper, and maple tip moth in field-grown nurseries. Valent U.S.A. Corporation. 16 September 2006. Unrestricted Gift. \$2,000

**Oliver, J.B.**, D.C. Fare, M. Reding, N. Youssef, S. Scholl, and J. Moyseenko. 2006. Evaluation of Discus and Marathon 60WP against Japanese beetle, flatheaded borers, potato leafhopper, and maple tip moth in field-grown nurseries. OHP, Inc. 14 September 2006. Unrestricted Gift. \$4,000

**Oliver, J.B.**, M. Reding, N. Youssef, and J. Moyseenko. 2006. Evaluation of thiamethoxam against Japanese beetle in field-grown nurseries. Syngenta Crop Protection, Inc. 26 July 2006. Unrestricted Gift. \$2,000

Rashid, T., K. Vail, J.P. Parkman, and **J. Oliver**. 2006. Susceptibility of imported fire ants, *Solenopsis* spp., to insecticides applied to nursery root balls through a drip irrigation system. Horticultural Research Institute. 5 January 2006. \$14,000.

**Oliver, J.B.**, M.E. Reding, J. Moyseenko, and N. Youssef. 2005. Evaluation of Discus for Japanese beetle in nurseries – summer 2005. OHP, Inc. 13 December 2005. Unrestricted Gift. \$4,000

**Oliver, J.B.**, M.E. Reding, J. Moyseenko, and N. Youssef. 2005. Evaluation of clothianidin for Japanese beetle in nurseries – summer 2005. Arysta LifeScience North America Corporation. 3 August 2005. Unrestricted Gift. \$2,500

**Oliver, J.B.**, M.E. Reding, J. Moyseenko, and N. Youssef. 2005. Evaluation of dinotefuran for Japanese beetle in nurseries – summer 2005. Valent U.S.A. Corporation. 1 August 2005. Unrestricted Gift. \$1,000

**Oliver, J.B.**, M. Klein, J. Moyseenko, and N. Youssef. 2004. Marathon and Discus for management of early instar Japanese beetle larvae in field nurseries. Olympic Horticultural Products, Inc. 19 October 2004. Unrestricted Gift. \$3,000.

**Oliver, J.B.**, V. Mastro, N. Youssef, J. Francese, and D. Lance. 2004. Development of trapping plans for emerald ash borer – year 2. USDA-APHIS. 10 June 2004. \$24,295. (Supplement to USDA-APHIS Grant Received May 1, 2004 [see below]).

**Oliver, J.B.**, G. Haun, K. Vail, N. Youssef, T. Rashid, and S. Powell. 2004. Survey for red, black, and hybrid fire ants in Tennessee. Tenn. Dept. Agric. 21 Jan. 2004. \$27,335.

**Oliver, J.B.**, M. Klein, J. Moyseenko, N. Youssef, and J. Higgins. 2004. Precise acephate nursery field trial against Japanese beetle. Pursell Technologies, Inc. 29 Jan. 2004. \$1,500.

**Oliver, J.B.**, M. Klein, J. Moyseenko, and N. Youssef. 2004. Flagship for management of Japanese beetle larvae in field nurseries. Syngenta Crop Protection, Inc. 20 May 2004. \$5,500.

**Oliver, J.B.** and S. Dennis. 2003. Alternative field nursery stock quarantine treatments for imported fire ant and Japanese beetle as substitutes for chlorpyrifos. USDA-CSREES Pest Management Alternatives Program. 15 September 2003. \$200,000.

**Oliver, J.B.**, V. Mastro, D. Lance, N. Youssef, J. Francese, and S. Lavalley. 2003. Development of trapping methods to collect emerald ash borer – 3 year plan. USDA-APHIS. 21 April 2003. \$48,169

**Oliver, J.B.**, M. Klein, J. Moyseenko, N. Youssef, and W. Bachman. 2003. Efficacy of Flagship 25WG against insects when applied at band-width rates to nursery plants. Syngenta Crop Protection, Inc. \$5,500.

**Oliver, J.B.**, M. Klein, J. Moyseenko, N. Youssef, and J. Dobbs. 2003. Marathon (imidacloprid) Japanese beetle field test – summer 2003. Olympic Horticultural Products, Inc. 11 Sept. 2003. \$3,000.

**Oliver, J.B.**, L. Thead, and J. Vogt. 2003. Release and establishment of phorid flies in southern Tennessee – Supplement to 2002 Cooperative Agreement. USDA-ARS. 19 Sept. 2003. \$8,290.

Youssef, N.N. and **J.B. Oliver**. 2002. Evaluation of botanical compounds for repellence to adult Japanese beetle. Tennessee Nursery and Landscape Association. 27 Dec. 2002. \$1,000.



Gawel, N. and **J.B. Oliver**. 2002. Imported fire ant control. Tennessee Department of Agriculture. 1 February 2002. \$135,000.

**Oliver, J.B.**, D. Fare, J. Atland, and W.E. Klingeman. 2002. Species of flatheaded borer impacting the ornamental industry and a method to survey borer activity within field nurseries. Horticultural Research Institute. 12 Dec. 2002. \$16,000.

**Oliver, J.B.**, D.C. Fare, and W.E. Klingeman. 2002. Flatheaded borers of Middle Tennessee: Species responsible for damage to production nursery and a method to survey for activity within nurseries. Tennessee Nursery & Landscape Association. \$1,500.

**Oliver, J.B.**, M. Klein, A.M. Callcott, J. Moyseenko, N. Youssef, S. Martiniere. 2002. Evaluation of Precise acephate for control of third instar Japanese beetle grubs and fire ants. Pursell Technologies, Inc. 28 Aug. 2002. Unrestricted Gift. \$2,000.

**Oliver, J.B.** and A.M. Callcott. 2002. Cooperative research funds received from USDA-APHIS PPQ Soil Inhabiting Pests Section, Gulfport, MS. 3 Sept. 2002. \$2,000.

**Oliver, J.B.** and J.T. Vogt. 2002. Cooperative agreement to release *Pseudacteon curvatus* and monitor for establishment in middle Tennessee. 24 Sept. 2002. \$9,878.

**Oliver, J.B.**, M. Klein, J. Moyseenko, N. Youssef, and J. Dobbs. 2002. Marathon for control of Japanese beetle with or without Suffusion surfactant. Olympic Horticultural Products, Inc. 13 Sept. 2002. Unrestricted Gift. \$1,500.

**Oliver, J.B.**, M. Klein, A.M. Callcott, J. Moyseenko, N. Youssef, and D. Shepard. 2002. Evaluation of Flagship 25WG and Scimitar GC for control of Japanese beetle grubs and fire ants. Syngenta Crop Protection, Inc. 29 Oct. 2002. Unrestricted Gift. \$2,500.

Mmbaga, M. and **Oliver, J.B.** 2001. Biorational products for powdery mildew and insect pest management in nursery crops. U.S. Environ. Prot. Agency Region 4 Strategic Agric. Initiative. \$100,000

Oi, D., D.F. Williams, J. Briano, **J. B. Oliver**, and R. Pereira. 2001. Infectivity and impact of the fire ant pathogen *Thelohania solenopsae* to black and hybrid imported fire ants from Tennessee. USDA-APHIS National Biological Control Institute Implementation Grant. \$5,600

**Oliver, J.B.** and D. Oi. 2001. Infectivity and impact of the fire ant pathogen *Thelohania solenopsae* to black and hybrid imported fire ants from Tennessee. Tennessee Nursery & Landscape Assoc. \$1,500

**Oliver, J.B.**, G. Haun, and A.-M. Callcott. 2001. Seasonal phenology of fire ant mating flights within middle Tennessee nursery production region. Tennessee Nursery & Landscape Assoc. \$1,500.

Klingeman, W.E., **J.B. Oliver**, and P.C. Flanagan. 2001. Managing whitefringed rootworms in Tennessee nursery field soils. Tennessee Nursery & Landscape Association. \$1,500.

**Oliver, J.B.** and C.M. Mannion. 1998. Seasonal incidence of Asian ambrosia beetle, *Xylosandrus crassiusculus* (Motschulsky), and other ambrosia beetle species in Middle Tennessee. Tennessee Nursery and Landscape Association. 29 Dec. 1998. \$1,000.

**Oliver, J.B.** and M.J. Gaylor. 1993. Weed hosts of the banded-winged whitefly and weed effects on whitefly populations in and around cotton. The Alabama Cotton Commission and the State Support Committee. 5 Nov. 1993. \$6,000.

### **Recent Grants Submitted But Not Funded**

LeBude, A., A. Fulcher, G. Knox, A. Owings, **J. Oliver**, F. Baysal-Gurel, A. Windham, C. Ranger, J. Neal, C. Marble, M. Palma, M. Gu, M. Sandstrom, and K. Smalling. 2016. After the flood: Identifying interdisciplinary research and extension priorities to limit producer losses and strategically manage agrichemical fate during storms and natural disasters. Specialty Crop Research Initiative Planning Grant Pre-Proposal. \$50,000. (Submitted 15 Nov. 2016).

Addresso, K., **J. Oliver**, R. Vander Meer, and A. Callcott. 2016. Chemical ecology approaches to imported fire ant management. USDA-NIFA Capacity Building Grant. Proposal approved for submission to USDA by Departmental Committee review. Mar. 2016. Funds Requested: \$298,254.

Addresso, K., A. Witcher, F. Baysal-Gurel, and **J. Oliver**. 2016. Sustainable woody ornamental production practices. USDA-NIFA Crop Protection Grant. Submitted 3 June 2016. Funds Requested: \$199,995.

Addresso, K., **J. Oliver**, and H. Bhavsar. 2016. Investigation of unmanned aerial vehicle technology to map imported fire ant infestations in Tennessee nurseries. Tennessee Department of Agriculture Specialty Crop Block Grant Submission. Submitted April 2016. Funds Requested: \$26,669.52 (Not Funded).

Chappell, M., J. Altland, J. Owen, R. Ferrarezi, N. Fuhrman, C. Hall, A. Nadarajah, **J. Oliver**, and about 45 additional collaborators. 2015. Next generation polymer-based agrochemical delivery systems to enhance the environmental sustainability of specialty crop industries. USDA Specialty Crop Research Initiative Strategic Planning Grant. \$50,000.

Ranger, C., P. Schultz, M. Reding, K. Addresso, **J. Oliver**, and A. Agnello. 2015. Implementing innovative strategies for managing invasive ambrosia beetles in tree crops. USDA-NIFA Crop Protection and Pest Management Competitive Grants Program. \$242,892. TSU portion of budget \$44,737. Submitted 6 Apr. 2015.

**Oliver, J.**, K. Addresso, S. Valles, and W. Haun. 2014. Solenopsis invicta virus (SINV) and Kneallhazia solenopsae in Tennessee and relocation of virus into new areas. USDA-APHIS Farm Bill Suggestion for Section 10007 Goal 6. Submitted 22 Oct. 2014. \$64,154

Addesso, K. and **J.B. Oliver**. 2012. Soybean oil as a protective treatment against wood-boring beetles in nursery crops. North Dakota Soybean Council. 24 Sept. 2012. \$40,736.

Addesso, K. and **J.B. Oliver**. 2012. Tennessee spotted wing drosophila survey. USDA Farm Bill Funding. 10 Dec. 2012. \$56,625.

Bray, A., **J.B. Oliver**, and K. Addesso. 2012. Improvement of trap / bait development for walnut twig beetle / thousand cankers disease to protect black walnut. USDA Farm Bill Funding. 10 Dec. 2012. \$42,282.

Reed, S., **J.B. Oliver**, A. Bray, B. Klingeman, and J. English. 2012. Improved technology for collection and detection of invasive bark and ambrosia beetles. USDA Farm Bill Funding. 10 Dec. 2012. \$156,750.

Fare, D., **J. Oliver**, and K. Addesso. 2012. Weed control and neonicotinoid insecticide effects on the management of flatheaded appletree borer. J. Frank Schmidt Foundation. (Submitted 6 Aug. 2012). \$ 21,600.

Bray, A., **J. Oliver**, and S. Seybold. 2012. Experimentation in trap and bait development for walnut twig beetle to protect urban and rural black walnut in its native range. Jack Kimmel International Grant Program. 1 Oct. 2012. \$10,000.

Grant, J., A. Windham, G. Wiggins, J. Oliver, F. Hale, A. Bray, S. Seybold, J.B. Riley, P. Lambdin, M. Windham, M. Fly, D.D. Rhodes, N. Dart, C.M. Ranger, K. Ivors, G. Hoover, C.S. Sadof, J. Logan, T. McKinley, E. Day, N. Ward, and B. Klingeman. 2012. Limiting the spread of thousand cankers disease on black walnut. USDA Specialty Crop Research Initiative Grant. \$2,000,000. (TSU Portion of Grant: \$261,681). Submitted Jan. 31, 2012.

**Oliver, J.**, J. Wang, P. Schultz, C. Ranger, M. Reding, and A. Bray. 2011. An integrated approach for the management of invasive ambrosia beetles in nursery crops. USDA-NIFA Pest Management Alternatives Program. (Submitted 1 Mar. 2011). \$199,942

Ranger, C.M., P. Tobin, S. Frank, P. Schultz, **J. Oliver**, and M. Reding. 2012-2013. Assessing the spatial efficacy of a repellent pheromone in managing exotic ambrosia beetles. Horticultural Research Institute. \$11,000

### **Significant Equipment Purchased for Tennessee State University**

Nissan Frontier with crew cab (2004 model): \$16,000.

GMC Chevy Yukon Suburban (1993 model): \$5,000.

Two LandMark GPS Systems: \$11,265.

Minolta Portable Spectrophotometer: \$7,465.

Bioquip Insect Museum Cabinets and Specimen Drawers: \$7,302.

### 13. MISCELLANEOUS PUBLICITY AND IMPACTS / SERVICE TO STAKEHOLDERS

The TSU Entomology Program received confirmation on 2 June 2017 that a Japanese beetle parasitoid (*Tiphia vernalis*) that we assisted with collecting at a local McMinnville nursery during 1999, was still being recollected 18 years later at Meramac State Park, Missouri. This represents a successful establishment of a new biological control agent in another western

Economic Research Impact: The USDA-APHIS approved a new balled and burlapped nursery stock drench treatment for the Federal Imported Fire Ant (IFA) Quarantine on the 31 Mar. 2015 as a direct result of cooperative research between TSU Entomology program and USDA-APHIS. The new treatment reduces B&B drenches from six consecutive drenches over three days to two drenches on the same day. The new protocol reduces labor time/costs and worker exposure by two-thirds, lowers environmental contamination, and allows shipping within 24 the REI period instead of 96 hours. Growers have indicated a treatment allowing rapid shipment is critical to their production system.

Three new generic imidacloprid products (Mallet 2F T&O Insecticide, Lada 2F Insecticide, and Quali-Pro Imidacloprid 2F T&O Insecticide) were added to the 6 June 2013 revision of the Domestic Japanese Beetle Harmonization Plan (JBHP) using support data from the TSU Entomology Program, including: 1) as new pre-harvest soil surface treatments for field-grown nursery stock and 2) as new grass sod treatments. These generic products are about \$0.06 cheaper per treated plant than the next cheapest product that is currently available in the JBHP for field-grown nursery stock.

Media Interview: The BBC Natural History Unit spent half a day filming me for the BBC program "Nature's Weirdest". The topic was imported fire ants, their issues, and biological control. Filming was done in the field in Warren County at a site with fire ant colonies. Unfortunately, the episode was not selected for the program. 17 Aug. 2012.

TSU Entomology Program is acknowledged in the USDA-APHIS Administrative Action to Change D301-81-1-(3) and D301.81-10(8) in Treatment Manual for evaluations and data that led to three new Federal Imported Fire Ant Quarantine Regulation Changes, including: 1) a new bifenthrin immersion treatment for balled and burlapped (B&B) nursery stock, 2) a new bifenthrin grass sod treatment, and 3) clarification of application method for drench treatment of B&B nursery stock. 20 June 2012. These regulation changes have increased the certification time for B&B from 1 month to 6 months and provided a major cost reduction for grass sod producers over existing treatment options.

TSU Entomology Program insect collection received a formal international museum coden designation of TSRS in the Spiders and Insect Collections of the World. (13 Feb. 2012). Our program expertise in buprestid identification is nationally recognized. Our group has provided identification services for North Carolina State University Insect Museum and the Massachusetts Dept. Agric. Resources for their *Cerceris fumipenni* program for early detection of emerald ash borer. We regularly perform identifications for other individuals and groups. Our group detected a new invasive in the U.S. (*Agrilus subrobustus*), the addition of 53 new buprestid state records for Tennessee, and 18 new buprestid host records.

Interview provided to Nashville News Channel 5 on insect issues impacting the nursery industry. Interview done at the Otis. L. Floyd Nursery Research Center. 16 July 2013.

Interview provided to reporter/author Justin Nobel for article published in Nautilus magazine about imported fire ants (Title: Ants Go Marching). 11 July 2013.

TSU Entomology Program prepared and donated an insect collection to the Warren County Bridgestone Environmental Education Classroom and Habitat (BEECH). Approximately 5,000 school-aged children pass through the BEECH program annually.

Shute, M.E. and M. Thompson. 2007. Tennessee State University Research Horizons 2005 Annual Report. Division of Sponsored Research and Programs. Nashville, TN. Publ. No. TSU-06-0011(B)-3-225015. (Imported fire ant research program at Tennessee State University highlighted in this issue). - [Weblink \(note: this is a large file ~ 325 MB\)](#)

Hansen, J. and N. Youssef. 2007. Unraveling the mysteries of the wood-boring beetle species complex. Tennessee GreenTimes. 8: 20-23. (**Cited in the article for importance in developing new purple trap monitoring tool for flatheaded borers and for cooperation with UT and USDA**)

Flores, A. and J. Core. 2004. Putting out the fire ARS sets up regional programs to combat imported fire ants. Agricultural Research. December 2004: 12-14. (**Cooperative fire ant research with USDA-ARS cooperators at Tennessee State University highlighted in this issue**). - [Weblink](#)

Gunn, S. 2004. City wins \$25,000 in fire ant contest. Winchester Tennessee Herald Chronicle Newspaper article. 27 January 2004. (**Oliver credited for involvement in educational program that facilitated John Ferrell [TSU Cooperative Extension] and City of Winchester in receiving \$25,000 Fire Ant Contest Award sponsored by GardenTech Inc.**). - [Weblink to Archives](#)

Letters of appreciation from Gray Haun (Plant Certification Administrator, Tenn. Dept. Agric.) for continued efforts to establish imported fire ant phorid-decapitating fly parasitoids in the state of Tennessee and for our Program's assistance with the development of trap monitoring techniques for the invasive walnut twig beetle (23 and 24 Apr. 2013).

Letter of appreciation - Gray Haun (Plant Certification Administrator, Tenn. Dept. Agric.) for establishment of the imported fire ant phorid-decapitating fly parasitoid, *Pseudacteon curvatus*, in the state of Tennessee (5 January 2004).