



Pests and Pesticides in Child-serving Facilities: An IPM Newsletter

Brown Recluse Spiders

I've received a fair number of inquiries about brown recluse spiders in the past few weeks, but rather than reprinting articles, I thought I would remind you of our brown recluse resources. In 2011, we produced a very thorough article on avoiding brown recluse bites in schools (http://schoolipm.utk.edu/documents/newsletters/march_2011.pdf). In addition to this, PB1191 Brown Recluse Spiders (<https://extension.tennessee.edu/publications/Documents/pb1191.pdf>) describes brown recluse biology and management around residences. While pesticide suggestions may be outdated in earlier publications, they are kept up-to-date in PB1690 Insect and Plant Disease Control Manual, <https://extension.tennessee.edu/publications/Documents/PB1690.pdf>.

School IPM Advisory Board Meeting August 29, 2018

As an important protector of school children's health and wellbeing we invite you to the Tennessee School IPM Advisory Board Meeting at 10:00 am CST on August 29, 2018 at the Metro Nashville Public Health Department, Lentz Public Health Center, 2500 Charlotte Ave, Nashville, TN 37209 in the 3rd floor board room. The University of Tennessee Extension is encouraging Tennessee's schools to adopt an integrated pest management (IPM) program to help meet the National PMSP's ([Pest Management Strategic Plan](#)) goal of all the nation's schools using IPM by 2020. We would like your input on how we can further promote and improve our program to prompt those schools lacking an IPM program to adopt one. The UT school IPM program's activities since the last board meeting in July 2016 are summarized below.

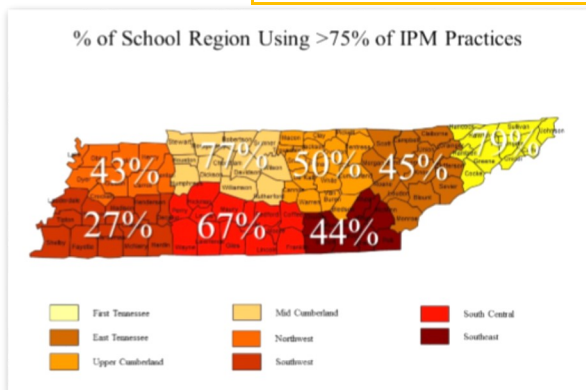
Tennessee public school systems have been surveyed about their pest management practices since 1997. For the 2017 survey, 97 school districts' facility directors (67% response rate) completed the 17-question phone pest management survey. Our lowest adoption rates occurred in West Tennessee and while we need more

Special Points of Interest

We value your input. If you are unable to attend the school IPM advisory board meeting, please email kvail@utk.edu or jchand11@utk.edu any comments or suggestions about ways to improve our program and further promote the adoption of IPM in schools.

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demonstrations and educational sessions there, our travel funds are often limiting. We will summarize responses for each survey question and discuss the results (http://schoolipm.utk.edu/success_results.html) at the board meeting.

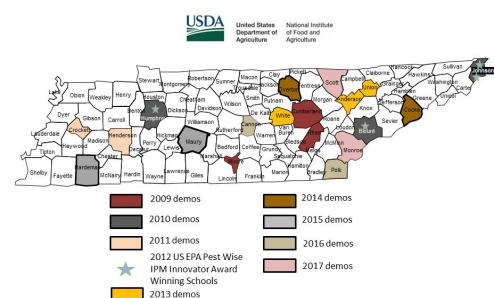
One survey topic I will discuss in detail is the use of lice insecticidal sprays in the classroom. Nearly 20% of respondents indicated that they spray for head lice and *we continue to find head lice premise spray cans in kindergarten or pre-K classrooms, and sometimes they, along with cleaners, are accessible to children in unlocked floor cabinets. This is wrong on many levels. Pesticides are dangerous in the hands of children. This violates the label which indicates to keep out of the reach of children. In addition, it is against the law for anyone to apply a pesticide in a school that is not under the supervision of a licensed operator (TCA 62-21-124). And, premise sprays are not needed to control head lice.*

UT Extension PMP School IPM Training 2015 - 2016



In 2015 we were awarded a grant through the Tennessee Department of Agriculture (TDA) and the Environmental Protection Agency (EPA) with a goal to require all pest management professionals that apply pesticides in schools to be certified in the principles of integrated pest management. In July 2015 we requested approval of a subcategory 7 certification for pest management technicians working in schools from the Tennessee Pest Control Licensing and Advisory Board. The board decided that a separate subcategory was not necessary and that an additional school IPM training manual and more school IPM questions on the category 7 (industrial, institutional, structural and health related pest control) certification exam would increase school IPM knowledge for all category 7 technicians. We completed the manual, *A Technician's Guide to Managing Pests in Schools*, in September 2016 and submitted school IPM questions to The Department of Agriculture to include in the category 7 certification exam. Nine hands-on, day-long school IPM training sessions were completed by 109 pest management professional (PMPs) or facilities managers from 2015-2017. Participants were informed about the principles of IPM, the six major school pests and how to conduct a school IPM program in Tennessee. Hands-on sessions included a glue board placement activity and school inspection. At the end of the day, all participants were given a test on school IPM. We list the company, technician and company service area on our website (<http://schoolipm.utk.edu/training.html>) for all certified applicators that passed the exam ($\geq 70\%$) to allow schools to easily find a company with IPM trained technicians. Attendees of the Tennessee School Plant Management Association in Pigeon Forge, TN June 2016 were informed of this list of trainees and links to the list of trainees were provided in several school IPM newsletter articles.

UT Extension School IPM Demonstrations



Two schools served as IPM demonstration sites per year, Copper Basin Elementary (Polk County) and Auburn Elementary (Cannon County) in 2016-2017 and Robbins Elementary (Scott County) and Sweetwater City Elementary (Monroe County) in 2017-2018. The 2017-2018 demonstrations will conclude December 30, 2018 and we plan to conduct a regional meeting in the fall of 2018 for each

site. Two new demonstrations will be initiated in September, one of which will be located in Middle or West Tennessee. If you are interested in your school becoming one of the new demonstration sites, please contact us at your earliest convenience. To date, we have conducted 18 demonstrations. From 2010 – 2017, we estimated the decrease in pyrethroid volume applied when schools followed our IPM recommendations and hope to finalize these analyses in time to share them with you at the advisory board meeting.

Electronic and social media is used to promote school IPM. We still maintain and update our website, Child-serving Facility Integrated Pest Management, schoolipm.utk.edu. About 6 newsletters are produced per year and emailed to all public school system facilities directors, and past and present school personnel and pest management professional demonstration participants. The newsletters are archived and articles indexed by subject on our site (<http://schoolipm.utk.edu/newsletter.html>). We also post current pest problems, pest management training opportunities and other pest-related issues to our Facebook site, Urban Integrated Pest Management in Tennessee (tinyurl.com/UrbanIPMTN).

At our 2014 board meeting, we discussed La Crosse encephalitis, the leading cause of mosquito-borne disease among children. The potential for Zika Virus transmission put mosquitoes in the spotlight again. We developed a factsheet on mosquito management and bite protection at schools and childcare facilities and hope to have a formatted version by the time of our meeting.

At the conclusion of this meeting, we will discuss ways to improve our program and further promote the adoption of IPM in schools. We hope to see you in person on August 29 as we feel interaction is greater among participants when they are present in the same room. However, if you are unable to travel, you can still join the meeting online by using this link, <https://utia.zoom.us/j/852940304>.

Please reply to this email if you will be attending in person or online so we can properly prepare for the meeting. We value your input. If you are unable to attend, please email any comments or suggestions about ways to improve our program and further promote the adoption of IPM in schools.

Thanks for your time and attention and hope to see you on August 29!

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ACE (Associate Certified Entomologist) Prep Course Fall 2018

Please forward the following announcement to your pest management professional.

Are you certified in pesticide applicator category 7 with a minimum of 5 years of verifiable pest management experience in the United States? Then you may be ready to become an ACE, an associate certified entomologist. Before you can become an ACE, you will need to provide two letters of professional reference, be willing to adhere to the [ACE Code of Ethics](#), [complete the application and pay the application fee to the Entomological Society of America](#) and pass an online test of your knowledge of structural pest control. The program and its benefits are explained in its entirety at <http://www.entocert.org/ace-certification>. The application process is separate from the training offered below.

To help you prepare for the exam, Dr. Karen Vail, Extension Urban Entomologist of the UT Department of Entomology & Plant Pathology will provide an ACE Prep Course this fall. All training sessions will be held 6 – 8 pm on select Mondays in Room 101 Ellington Plant Science Building of the University of Tennessee's Institute of Agriculture Campus, Knoxville, TN 37996.

2018 Training Date	Subject
September 10	Integrated Pest Management
September 17	Pest Management Tools
September 24	Pesticide Safety, Laws & Labels
October 8	Insect Biology and Morphology
October 15	Ants
October 22	Cockroaches
October 29	Occasional Invaders
November 5	Stinging and Biting Arthropods
November 19	Stored Products Pests
November 26	Flies
December 3	Wood-destroying Organisms
December 10	Common Commensal Pests/Review
December 17⁺ 5 pm – 8 pm	Exam (limited to 20)⁺

The ACE exam will be given in room 243 Computer Lab of the Brehm Animal Science Building.

You can register for all classes of the ACE Prep Course at one time for a discounted price of \$300 or you can pay \$30 for each individual class as long as you register at least one week ahead of the training date. Enrollment limited to 25 per training date.

Register for the UT ACE Prep Course online at <https://tiny.utk.edu/ACEPrepFall2018>

2018 All Bugs Good and Bad Webinar Series

Just in case you missed the announcement about the 2018 All Bugs Good and Bad Webinar Series, I've listed the schedule below.



All Bugs Good and Bad

2018 Webinar Series

First Friday of the Month 2:00 pm (Eastern)

Join Us for This Free Webinar Series on Pests



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|--------------------|--|
| February 2 | <u>Feral Hogs, Ecology, and Control</u>
<i>Norm Haley</i> |
| March 2 | <u>Misidentified Pests in the Landscape</u>
<i>Dr. Erfan Vafaie</i> |
| April 6 | <u>Argentine Ants and Others</u>
<i>Dr. Eric Benson</i> |
| May 4 | <u>What Everyone Must Know About Fleas</u>
<i>TBA</i> |
| June 1 | <u>Attracting Pollinators to Our Yards</u>
<i>Molly Keck</i> |
| August 3 | <u>Bees, Wasps, and Hornets, Oh My!</u>
<i>Lynn Braband</i> |
| September 7 | <u>Winterizing Your Home to Keep Out Pests</u>
<i>Janet Hurley</i> |
| October 5 | <u>Structural Misidentified Pests</u>
<i>Elizabeth "Wizzie" Brown</i> |
| November 2 | <u>Lice, Scabies, and Mites</u>
<i>Dr. Nancy Hinkle</i> |
| December 1 | <u>Pantry Pests</u>
<i>Dr. Dan Suiter</i> |



For more information on the series and how to connect to the webinars, visit:

<http://articles.extension.org/pages/74590/>



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Comments or questions
 on this newsletter?

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Follow us on
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<http://tinyurl.com/UrbanIPMTN>

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For more information about IPM in Tennessee schools and other facilities, or to view past issues of *Pests and Pesticides in Child-serving Facilities*, please visit <http://schoolipm.utk.edu>

NATIONAL IPM INFORMATION

eXtension's Pest Management In and Around Structures: Urban Integrated Pest Management http://www.extension.org/urban_integrated_pest_management

National School IPM
schoolipm.ifas.ufl.edu/

IPM in Schools Texas
<http://schoolipm.tamu.edu/>

IPM Institute of North America
www.ipminstitute.org/

School IPM PMSP—all schools IPM by 2020 <https://ipminstitute.org/projects/school-ipm-2020/>

National Pest Management Association IPM
www.whatisipm.org/

EPA schools
<http://www2.epa.gov/managing-pests-schools>

For further information about the IPM program at your school or in your county, contact your county Extension Agent or the school IPM Coordinator. For county agent contact information, please visit <https://extension.tennessee.edu/Pages/Office-Locations.aspx>

Precautionary Statement

To protect people and the environment, pesticides should be used safely. This is everyone's responsibility, especially the user. Read and follow label directions carefully before you buy, mix, apply, store or dispose of a pesticide. According to laws regulating pesticides, they must be used only as directed by the label.

Disclaimer

This publication contains pesticide recommendations that are subject to change at any time. The recommendations in this publication are provided only as a guide. It is always the pesticide applicator's responsibility, by law, to read and follow all current label directions for the specific pesticide being used. The label always takes precedence over the recommendations found in this publication.

Use of trade or brand names in this publication is for clarity and information; it does not imply approval of the product to the exclusion of others that may be of similar, suitable composition, nor does it guarantee or warrant the standard of the product. The author(s), the University of Tennessee Institute of Agriculture and University of Tennessee Extension assume no liability resulting from the use of these recommendations.

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