

SPEAKER RESOURCE GUIDE – ORNAMENTAL AND TURFGRASS + 7A & 7D APPLICATOR CIC 2023

Pesticide Applicator Testing Information

- a. Applicator Licensing and Certification - <https://iowaagriculture.gov/pesticide-bureau/applicator-licensing-certification>
1. **Pesticide Storage and Security: 3 Keys to Success** – Evan Alderman, M.S., Co-Coordinator/Extension Specialist, Pesticide Safety Education Program, Iowa State University Extension and Outreach, alderman@iastate.edu.
 - a. Storage Building and Location - <https://pesticidestewardship.org/storage/storage-building-location/>
 - b. Storage Conditions - <https://pesticidestewardship.org/storage/storage-conditions/>
 - c. Storage Safety and Security - <https://pesticidestewardship.org/storage/safety-and-security/>
 - d. Storage of Pesticides - <http://npic.orst.edu/health/storage.html>
 - e. Temperature Effects on Storage - <https://extension.missouri.edu/publications/ipm1012>
 - f. Is This Pesticide On My Shelf Still Good? - https://edustore.purdue.edu/item.asp?Item_Number=PPP-142
 2. **Personal Protective Equipment: Back to Basics** – Evan Alderman, M.S., Co-Coordinator/Extension Specialist, Pesticide Safety Education Program, Iowa State University Extension and Outreach, alderman@iastate.edu; and Carolyn Sheridan, RN, BSN, Founder and Executive Director, Ag Health & Safety Alliance, carolyn@aghealthandsafety.com.
 - a. Ag Health & Safety Alliance - <https://aghealthandsafety.com/>
 - b. Personal Protective Equipment - <https://pesticidestewardship.org/personal-protective-equipment/>
 - c. The Label and PPE - <https://pesticidestewardship.org/personal-protective-equipment/the-label-and-personal-protective-equipment/>
 - d. Components of PPE - <https://pesticidestewardship.org/personal-protective-equipment/components-of-personal-protective-equipment/>
 - e. Cleaning, Maintenance, Storage, and Disposal - <https://pesticidestewardship.org/personal-protective-equipment/cleaning-maintenance-storage-and-disposal/>
 3. **Turfgrass Diseases** – Nick Christians, PhD., University Professor, Department of Horticulture, Iowa State University, nchris@iastate.edu.
 - a. Identification and Management of Turfgrass Diseases - <https://extension.missouri.edu/publications/ipm1029>
 - b. Helminthosporium Leaf Spot - <https://www.turffiles.ncsu.edu/diseases-in-turf/leaf-spot-in-turf/>
 - c. Fairy Ring - <https://hortnews.extension.iastate.edu/fairy-rings>
 - d. Brown Patch - <https://www.turffiles.ncsu.edu/diseases-in-turf/brown-patch-in-turf/>
 - e. Red Thread - <https://hortnews.extension.iastate.edu/red-thread>
 - f. Slime Mold - <https://hortnews.extension.iastate.edu/slime-molds>
 - g. Rust - <https://hortnews.extension.iastate.edu/turf-grass-rust>
 - h. Powdery Mildew - <https://www.extension.purdue.edu/extmedia/bp/bp-111-w.pdf>

4. **Iowa Invasive Insect Update** – Donald Lewis, PhD., Professor Emeritus, Department of Plant Pathology, Entomology, and Microbiology, Iowa State University, drlewis@iastate.edu.
 - a. Iowa Tree Pests: Emerald Ash Borer - http://iowatreepests.com/eab_home.html
 - b. Iowa State University – Emerald Ash Borer - <https://hortnews.extension.iastate.edu/emerald-ash-borer>
 - c. Emerald Ash Borer Management Options - <https://store.extension.iastate.edu/Product/13114>
 - d. Brown Marmorated Stink Bug - <https://hortnews.extension.iastate.edu/brown-marmorated-stink-bug>
 - e. Japanese Beetle - <https://hortnews.extension.iastate.edu/japanese-beetle>
 - f. Spongy Moth - http://iowatreepests.com/gm_home.html
 - g. Spongy Moth: Potential Iowa Impact - http://iowatreepests.com/documents/GM_Potential_Impact_Feb_2018.pdf
 - h. Asian Longhorned Beetle - http://iowatreepests.com/alb_home.html
 - i. How to Identify Asian Longhorned Beetle - http://iowatreepests.com/alb_identify.html
 - j. Asian Longhorned Beetle: Tree Symptoms - http://iowatreepests.com/alb_symptoms.html
 - k. Iowa Tree Pests: Spotted Lanternfly - http://iowatreepests.com/slf_home.html
 - l. Iowa DNR Spotted Lanternfly - <https://www.iowadnr.gov/Conservation/Forestry/Forest-Health/Spotted-Lanternfly>
 - m. Iowa State University: Spotted Lanternfly - <https://hortnews.extension.iastate.edu/spotted-lanternfly>

5. **Addressing Problems on Ornamentals in the Landscape** – Cindy Haynes, PhD., Professor, and Aaron Steil, Consumer Horticulture Specialist, Department of Horticulture, Iowa State University, chaynes@iastate.edu and ajsteil@iastate.edu.
 - a. Powdery Mildew - <https://hortnews.extension.iastate.edu/powdery-mildew-ornamental-plants>
 - b. Aster Yellows - <https://hortnews.extension.iastate.edu/aster-yellows>
 - c. Verticillium Wilt - <https://hortnews.extension.iastate.edu/verticillium-wilt>
 - d. Japanese Beetle - <https://hortnews.extension.iastate.edu/japanese-beetle>
 - e. Magnolia Scale - <https://hortnews.extension.iastate.edu/magnolia-scale>
 - f. Fungus Gnats - <https://hortnews.extension.iastate.edu/fungus-gnat>
 - g. Oak and Hackberry Tatters - <https://hortnews.extension.iastate.edu/oak-and-hackberry-tatters>
 - h. Juglone - <https://hortnews.extension.iastate.edu/2021/08/juglone-%E2%80%93-what-it>
 - i. Horticulture and Home Pest News - <https://hortnews.extension.iastate.edu/>

6. **2023 Turfgrass Herbicide Update** – Adam Thoms, PhD., Assistant Professor, Department of Horticulture, Iowa State University, athoms@iastate.edu.
 - a. Products Mentioned
 - i. GameOn™ - <https://www.corteva.us/products-and-solutions/turf-and-ornamental/gameon.html>
 - ii. Defendor® - <https://www.corteva.us/products-and-solutions/turf-and-ornamental/defendor.html>
 - iii. Relzar™ - <https://www.corteva.us/products-and-solutions/turf-and-ornamental/relzar.html>
 - iv. Turflon® Ester Ultra - <https://www.corteva.us/products-and-solutions/turf-and-ornamental/turflon-ester-ultra.html>
 - v. Change Up™ - <https://nufarm.com/usturf/product/change-up/>

- vi. Surge® - <https://www.pbigordonturf.com/products/herbicides/selective-herbicides/surge-post-emergent-herbicide-nutsedge-clover-plantain/>
 - b. Managing Perennial Grassy Weeds in the Lawn - <https://hortnews.extension.iastate.edu/faq/how-do-i-control-perennial-grassy-weeds-lawn>
 - c. Is It Crabgrass, Bermudagrass, or Windmill Grass - <https://www.extension.iastate.edu/turfgrass/blog/it-crabgrass-bermudagrass-or-windmill-grass>
 - d. Windmill Grass - <https://www.extension.iastate.edu/turfgrass/blog/windmill-grass-chloris-verticillata>
 - e. Nimblewill - <https://crops.extension.iastate.edu/encyclopedia/nimblewill>
 - f. Crabgrass - <https://store.extension.iastate.edu/product/Crabgrass-Digitaria-spp>
 - g. Crabgrass vs. Goosegrass - <https://njaes.rutgers.edu/fs1309/>
7. **What's buzzing in Iowa? A new nemesis and familiar foes** – Ryan C. Smith, PhD., Associate Professor, Department of Plant Pathology, Entomology, and Microbiology, Iowa State University, smithr@iastate.edu.
- a. Iowa Mosquito Surveillance - <https://mosquito.ent.iastate.edu/>
 - b. Species Abundance - https://mosquito.ent.iastate.edu/browse_species.php
 - c. *Aedes vexans* - <https://bugguide.net/node/view/57572>
 - d. *Aedes aegypti* - <https://bugguide.net/node/view/39337>
 - e. *Aedes albopictus* - <https://bugguide.net/node/view/7644>
 - f. *Culex tarsalis* - <https://bugguide.net/node/view/83954>
 - g. *Culex pipiens* - <https://bugguide.net/node/view/35524>
 - h. Community-Wide Mosquito Management - <https://extension.entm.purdue.edu/publications/E-52/E-52.pdf>
 - i. Using Backpack Mist Blowers to Control Adult Mosquitos - https://mdc.itap.purdue.edu/item.asp?Item_Number=PPP-149&ga=2.201781336.891488440.1696283845-1586575011.1696283845