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## Contact Us

Faith Oi

[foi@ufl.edu](mailto:foi@ufl.edu)

Nancy Sanders

[nsanders@ufl.edu](mailto:nsanders@ufl.edu)

Entomology & Nematology

Twitter [@PMU\\_News](#)

[Facebook](#)

## Online Training Available

<https://pmu.ifas.ufl.edu/>

## Additional Resources

University of Florida  
Extension Publications

<http://edis.ifas.ufl.edu/>

Pest Management in and  
Around Structures

<http://www.eXtension.org/>

## We Need Your Ticks!

If you have more than 5 raisin-size, blood-fed female brown dog ticks, (*Rhipicephalus sanguineus*) we want them!

If you have ticks for us, please contact **Dr. Phillip E. Kaufman** ([pkaufman@ufl.edu](mailto:pkaufman@ufl.edu), (352) 273-3975) or **Lois Wood** ([lwood@ufl.edu](mailto:lwood@ufl.edu), 352-273-3981) for more information.



Engorged female brown dog tick, about the size of a raisin.

## PMU Focus—"New" Landscape Weeds

By: Chris Marble

You would be hard-pressed to find a landscape in Florida that didn't have spurge, doveweed, nutsedge, dollarweed, or crabgrass, which are the usual suspects. These are some of the most common weeds in lawns and landscapes throughout Florida and the southern United States. Luckily, because they are so common, we have gotten pretty good at identifying and controlling them one way or another. These common species are also easy to find in most lawn weed guides or on university websites and control information is listed on most herbicide labels.

The problem is that of course these there are also many "uncommon" or "new" weed species that aren't in most weed guides or on many pesticide labels. These weeds may only be an issue in a small geographic location and can be harder to identify or might be confused with a more common look-a-like. In most cases, these weeds are not really new and are relatively common depending on what area you are in. The following

weeds are some of the most common “uncommon” species in Florida that are not widespread but can still wreak havoc in planting beds or in turf.



Figure 1. Artillery weed

- **Artillery weed (or Artillery Fern); *Pilea microphylla***

Artillery weed (also known as artillery fern) (Figure 1) is a short lived perennial weed with small green leaves and has a fern-like appearance although it's not really a fern. It is one of the most common “new” weed species in landscape planting beds, hardscape areas, and even in turf. It germinates and grows almost year-round in Florida. People often bring this weed in to extension offices because it is not well-controlled with glyphosate. For preemergence control, prodiamine (Barricade), indaziflam (Specticle), oxadiazon (Ronstar) and flumioxazin (SureGuard) offer good control. For postemergence control, glufosinate (Finale), flumioxazin (SureGuard), oxadiazon (Ronstar FLO), and diquat (Reward) have been effective in research trials.

- **Florida pellitory (*Parietaria floridana*)**

Florida pellitory, also known as “clear weed” is an erect cool-season annual that prefers shady wet areas. It is very commonly misidentified as chickweed due to the similar leaf shape. The most obvious difference between chickweed and Florida pellitory are the stems and the flowers (Figure 2). Florida pellitory has translucent or almost clear stems while chickweed does not. Florida pellitory also flowers in the leaf axil where the leaf meets the stem. Most non-selective or broadleaf herbicides are effective for controlling Florida pellitory if used according to the label.



Figure 2. Close-up of chickweed (left) vs. Florida pellitory (right).

- **Tassel-flower (*Emilia* spp.)**

Tassel-flower is not common in most weed control guides but it is a very common species in parts of Florida and seems to be spreading. There are several species of weeds that are called Tassel-flowers and all are very similar in appearance. They have a dandelion-type seed head and flowers are typically red, pink, or purple. Seeds are spread by wind for the most part. If it is growing in a turf area that is mowed regularly, you may never see a flower head, but can use the leaves for identification. The leaves have toothed margins and clasp the stem, that is they have no petiole that attaches the leaf to the stem. Most postemergence herbicides provide good control of this weed but controlling it with preemergence herbicides is much more of a challenge.



Figure 3. Close up of tassel-flower leaf claspng the stem.

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## Career Opportunity!

Island Environmental Pest Control is hiring!

Email Resume to [Brenda@go-island.com](mailto:Brenda@go-island.com); PH: 561-833-7375

Full time: Mon – Fri; some Saturdays

### Responsibilities

- Complete required route sheets, reports, invoices and vehicle inspection forms.
- Able to read labels of products used and be able to calculate amounts of product to apply and how to mix them properly in preparation for use and mix in apply pesticides as needed.
- Help load and unload equipment, chemicals and fertilizers from /to trucks and storage areas
- Maintain vehicle and equipment: cleanliness, safety, and general maintenance.
- Well-groomed and professional appearance according with company standards and present at all times
- Communicate professionally with customers, landscapers and coworkers
- All other duties as assigned

### Required Experience

- Qualified candidates must have a good driving record and successfully pass a background check and drug screening
- High school diploma or general education degree (GED) preferred
- Previous experience in pest control is a plus

### We Offer

- Paid Vacation/Sick/Holiday
- Health/Dental/ Aflac
- 401K

Compensation based on experience

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## Upcoming Training Opportunities:

...Did you know that PMU can help you by

- Partially satisfying the 482/5E-14 requirement for initial technician training hours?

Our [Oct 12-14 Termite Masters](#), [Oct 26-28 GHP Masters](#), and [Nov 9-11 L&O Masters](#) courses are open! Similar to the Structural Fumigation School (<http://conference.ifas.ufl.edu/fumigation/>), the state has graciously allowed us to hold the state certified operator examination at the end of each Masters course. We hold optional reviews in the evenings. To qualify, you must:

- Take the Foundations **and** Masters courses for GHP, WDO, or L&O
- Fill out an application package for the certified operator exam either
  - [Online](#); deadline one week before exam, or
  - [Paper](#); deadline for paper applications **September 1** for the Oct/Nov exams

### September 2016 Offerings:

**Foundations of Termite Management 101 (2 seats remaining)**

**Date:** Sept 7-9, 2016; Wed-Fri

**Place:** UF/IFAS Apopka MREC

**Time:** 8 AM-5 PM (W, TH); 8 AM-12 PM (F)

**Registration fee:** \$375

Learn how termites exploit over 50 building construction elements and how to treat them in a hands-on environment in 2-days instead of 2 years.

- Practice doing a DACS vehicle inspection and spill drill with Paul Mitola from DACS before a crisis occurs.
- Hear about the top 10 reasons technicians get in trouble and how to avoid them from Mark Ruff, industry attorney.
- Get more in-depth information on termite biology and behavior as well as product label navigation.

[Register here](#)

### **Foundations of General Pest Management 101**

**Date:** Sept 21-23, 2016; Wed-Fri

**Time:** 8 AM-5 PM (W, TH); 8 AM-12 PM (F)

**Place:** UF/IFAS Apopka MREC, 2725 S. Binion Rd, Apopka, FL 32703-8504

**Registration fee:** \$375

- Study domestic and peridomestic cockroach species and how to control them as well as rodent, small fly, filth fly, occasional invaders, fire ant, nuisance ant management and the most current **mosquito information**.
- Review the labels of commonly used GHP products, practice pest inspections at PMU's house and develop treatment strategies focused on IPM.
- Do a vehicle inspection and spill drill with Paul Mitola from FDACS.

[Register here](#)

### **October 2016 Offerings:**

#### **Foundations of Lawn and Ornamental Pest Management**

**Date:** October 5-7, 2016; Wed-Fri

**Time:** 8 AM-5 PM (W, TH); 8 AM-12 PM (F)

**Place:** UF/IFAS Apopka MREC, 2725 S. Binion Rd, Apopka, FL 32703-8504

**Registration fee:** \$375

- Learn about the general Florida licensing requirements for technicians and sales staff.

- Be able to pass DACS vehicle inspections, practice doing a spill drill, and learn the best ways to minimize risks before, during, and after an application.
- Learn to identify diseases, insects, and weeds in lawns and ornamentals and best management practices for their control.
- Gain hands on experience reading and understanding pesticide labels, calculating treatment areas, and calibrating application equipment for lawns, shrubs, and other ornamental plants.

[Register here](#)

### **WDO Inspections and Form 13645**

**Date:** October 6-7, 2016; **Thurs-Fri**

**Time:** 8 AM-5 PM (TH); 8 AM-12 PM (F)

**Place:** UF/IFAS Apopka MREC, 2725 S. Binion Rd, Apopka, FL 32703-8504

**Registration fee:** \$220

- Do an inspection at PMUs house for WDOs with Paul Mitola from DACS.
- Learn the proper determination of "live, damage and evidence" and how to use DACS 13645.
- Learn from industry attorney Mark Ruff about the legal ramifications of an incomplete WDOI, using case studies and a mock trial video.
- Review WDO biology and behavior.

[Register here](#)

**Master of Termite Management (Must have completed Foundations in order to advance. 3 seats remaining. [Termite Expert](#) is also open! Only for the elite—those who completed Foundations and Masters qualify!)**

**Date:** October 12-14, 2016; Wed-Fri

**Time:** 8 AM-5 PM (W, TH); 8 AM-12 PM (F)

**Place:** UF/IFAS Apopka MREC, 2725 S. Binion Rd, Apopka, FL 32703-8504

**Registration fee:** \$375

Review termite identification, biology and control and learn about wood-destroying beetles and wood-decaying fungi.

Learn how:

- To do a proper borate application
- Baits work
- To use foam and application techniques to optimize the distribution of liquid termiticides in soil with the Bayer University toys

Hear about the top 10 reasons that certified operators get in trouble and how to avoid them from Mark Ruff, industry attorney.

Do an inspection for WDOs at PMU's house designed to challenge even experienced inspectors.

Practice a licensee inspection with a DACS inspector and learn about the duties of a certified operator.

[Register here](#)

**Master of General Household Pest Management (FULL, WAITLIST ONLY. Email Faith: [foi@ufl.edu](mailto:foi@ufl.edu))**

**Date:** October 26-28, 2016; Wed-Fri

**Time:** 8 AM-5 PM (W, TH); 8 AM-12 PM (F)

**Place:** UF/IFAS Apopka MREC, 2725 S. Binion Rd, Apopka, FL 32703-8504

**Registration fee:** \$375

This fast-paced class is only offered once a year. Must have completed Foundations in order to advance.

- Learn about biting and stinging insects, stored product pests, and occasional invaders as well as how to recognize delusory parasitosis.
- Play with the tools of the trade, vacuums, steamers, foamers and practice spray patterns.
- Prepare for an introduction to vertebrate pests that carry disease causing organisms.
- Learn about the legal liabilities of GHP work.
- Practice affidavit writing and working with DACS on licensee inspections.

[Register here](#)

Click on "Register here" for course descriptions or go to <http://pmu.ifas.ufl.edu/courses> for more information

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Learn more from IFAS



- UF/IFAS has Extension Offices in each of Florida's sixty-seven counties. We also have twelve Research and Education Centers (RECs) and Research and Demonstration Sites (RDSs).
- If you need help a great place to start is your local County Extension Office. With an office located in every county it has never been easier to partner with the University of Florida and your local County Government. To find an office near you please visit:  
**<http://solutionsforyourlife.ufl.edu/map/>**