Invasive Plants on the Horizon

... may be closer than you think

Nancy Loewenstein
School of Forestry and Wildlife Sciences

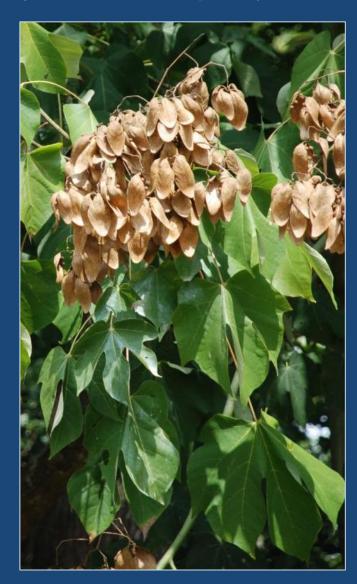






Chinese parasoltree

(Firmiana simplex)





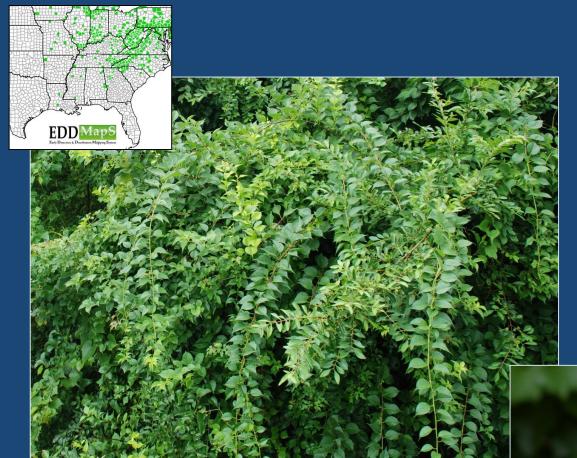


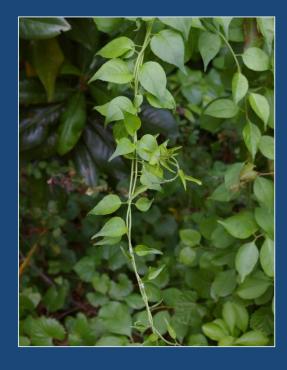






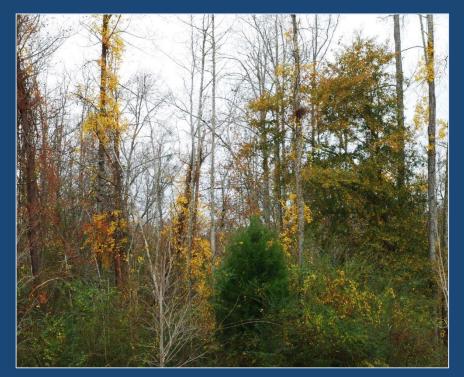
... how it came to be called parasol tree







Oriental bittersweet



fall color – yellow leaves, red fruit



plants are usually dioecious ... separate male and female plants



Category 2

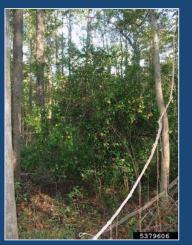
trifoliate orange (Citrus trifoliata syn. Poncirus trifoliata)



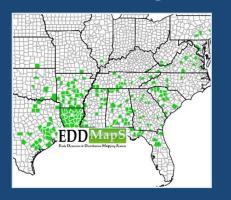
white flowers with five petals



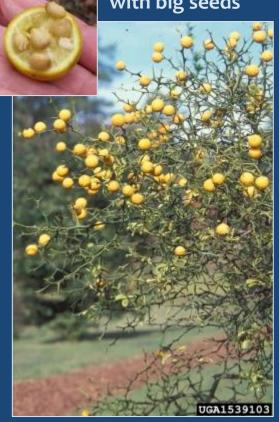




dense growth



fruit ... small oranges with big seeds



Category 2

pampas grass (Cortaderia selloana)







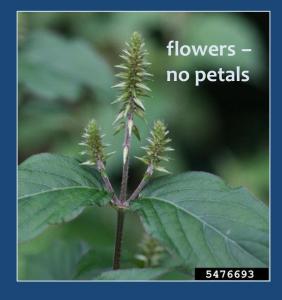


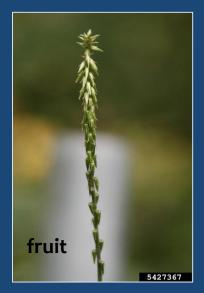
Japanese chaff flower (Achyranthes japonica)

Watch list A



blooms late summer through early fall







Leaves opposite with entire margins



seed dispersal!

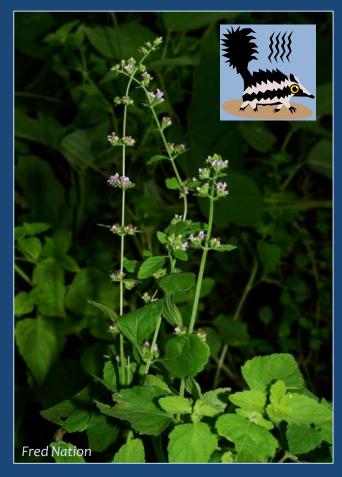
tropical bush mint (Hyptis mutabilis)

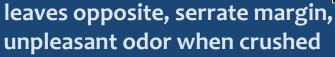
Watch list A





mint family – stems square









Japanese knotweed (Reynoutria japonica)

Watch list A

(syn. Polygonum cuspidatum; Fallopia japonica)









distinctive leaf shape, white flowers, winged seeds, hollow stems Leslie Metrholf, www.bugwood.org

Watch list B

garlic mustard (Alliaria petiolata)



EDD Maps Eng Dama a Barban Region for

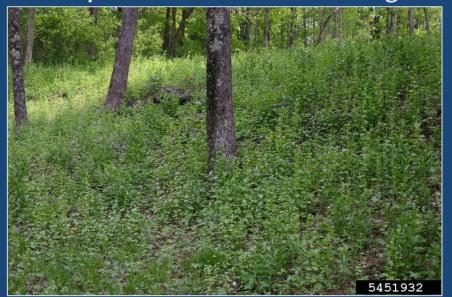


basal rosette the first year ... leaves kidney shaped with coarsely toothed margins.

cool season biennial ... garlic odor when crushed

5510361

Second year ... stems elongate and flowers are produced. Leaves more triangular.



garlic mustard



flowers - 4 white petals



fruit – narrow green pods, turn tan then explode, dispersing seed

photos: www.bugwood.org





distinctive bark



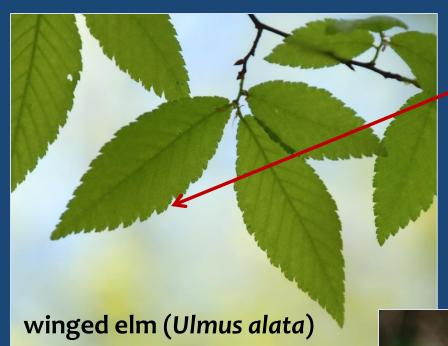
@2010 Will Cook

www.carolinanature.com

serrate margin, base may be slightly unequal

no corky ridges on stems





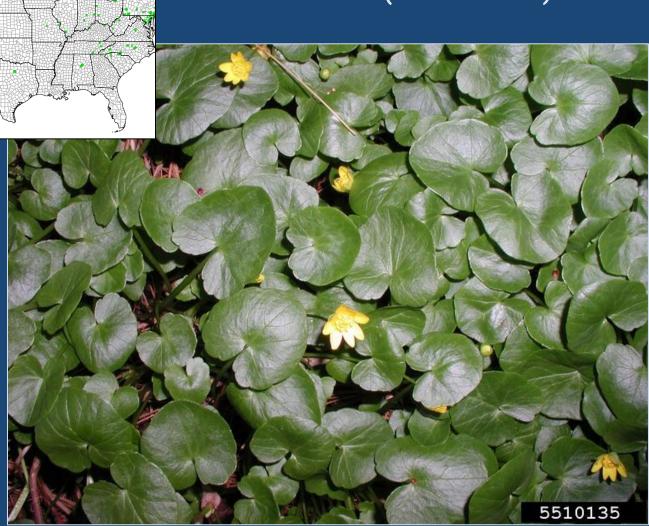
doubly serrate margin

singly serrate margin



fig buttercup, lesser celandine

(Ficaria verna)



leaves are dark shiny green, kidney- to heart-shaped, rubbery



Showy flowers, typically eight petals

Under the radar?

Ficaria verna quietly naturalizing in the Southeast

A few minutes on the internet reveals that fit buttercup — aka lesser celandine (Ficaria verna, for merly Ranunculus ficaria) is a perennial with origin in Europe and northern Africa; that it has been cul tivated in the US for over 150 years; that Words worth wrote poems praising it; that it is available

In April 2013 it was discovered in Greenvill County, SC. After having met the plant, we feel that it is vital to make the Southeast's invasive plants community aware that it is HERE (not

rming a solid green blanket... which nat

elves, when a birder spotted a patch of un-nt yellow flowers in Lake Conestee Nature April 4, 2013, was curious enough to ask

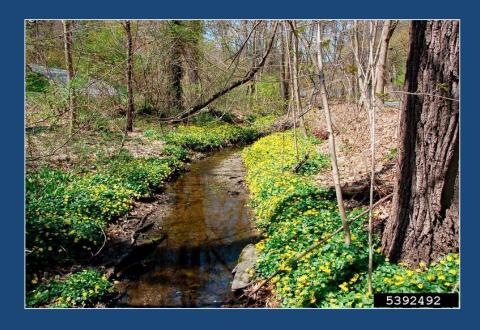




run, and, on April 4, 2013, was carlous enough to ask
about them.

Most North American floristic treatments have
not emphasized sub-specific differences, but a recent
all five currently recognized subspecies are piesent
in the United States (Tost et al. 2009). The one we
the Company of the Company
in the United States (Tost et al. 2009). The one we
the Company of the Company of the Company of the Company
in the United States (Tost et al. 2009). The one we
the Company of the Company of the Company
in the United States (Tost et al. 2009). The one we
the Company of the Company
in the United States (Tost et al. 2009). The one we
the Company of the Company
in the United States (Tost et al. 2009). The one we
the Company of the Company
in the United States (Tost et al. 2009). The company
is the Company
in the Co

fig buttercup





Plants form dense infestations and then die back after flowering (short life cycle).



tubers
and
bulbils*
produce
new
plants



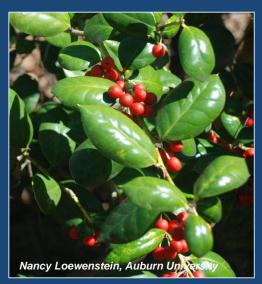
* not all subspecies produce bulbils

photos: www.bugwood.org

Chinese holly (Ilex cornuta)



glossy, leathery, evergreen leaves ... terminal spine points down, next two point up like horns (scientific name 'cornuta' means horn)



There are many cultivars ... spines are lacking in some.



We need your help!!

Please report sightings of "species on the horizon"

Welcome: Nancy Loewenstein , Auburn University Logout

Report Sightings

Distribution Maps

Species Information

Tools & Training

My EDDMapS

About

Invasive Species Mapping Made Easy!



EDDMapS, started in 2005, is now providing a picture of the distribution of invasive species across the U.S. and Canada

- ✓ Fast and easy to use no knowledge of GIS required.
- ✓ Web-based mapping of invasive species distribution to help fill gaps and identify "leading edge" ranges
- Facilitates Early Detection and Rapid Response implementation with online data entry forms, e-mail alerts and network of expert verifiers
- One Database for both local and national data
- Data can be searched, queried and downloaded in a variety of formats
- Cooperates with and aggregates data from other invasive species mapping projects
- Custom/hosted applications can be quickly and inexpensively developed

Who's Using It?

- ✓ Southeast Exotic Pest Plant Council.
- Alaska Exotic Plant Information Clearinghouse
- Missouri River Watershed Coalition
- ✓ Biological Control Agents of Weeds
- Florida Invasive Species Partnership
- Invaders of Texas
- Mid-Atlantic Invasive Plant Council
- ✓ Appalachian Trail Conservancy
- EDDMapS Alberta Alberta Invasive Plants Council
- National Wildlife Refuge Early Detection Network for New England
- ✓ Outsmart Invasive Species
- ✓ Invasive Plant Atlas of New England
- ✓ What's Invasive Coming Soon

Statistics

1,947,176 County Reports 1,081,095 Point Reports 2,433 Species / 11,930 Users

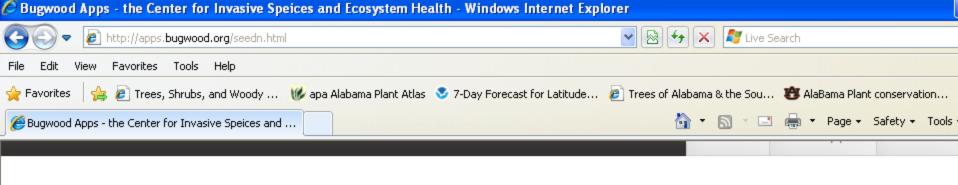
Educational Resources



BRING THE POWER OF EDDMAPS TO YOUR SMARTPHONE

Introducing BugwoodApps - comprehensive mobile

http://www.eddmaps.org



Southeast Early Detection Network

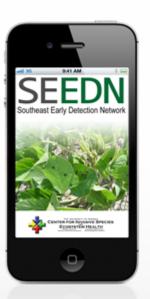
Submit invasive species observations directly with your iPhone from the field.

Features:

- GPS automatically captures your current location
- Submit an image of your sighting to add validity to your report
- Online reporting
- Offline reporting: reports saved on your phone to upload when you have network connectivity
- Species ID Guides include images and information on the worst non-native invasive plants, insects and plant pathogens in the Southeastern United States
- Provides real-time point distribution maps centered on your current location
- Invasive species resources







Get It For Android

Get It For iPhone