Charting the Future for NC-IPC: A Discussion

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NC-IPC Annual Meeting March 10-11, 2016 Salisbury, NC

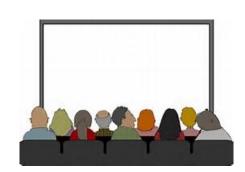


NC-IPC History and Ongoing Activities

- NC-EPPC founded in 1999
- Changed to NC-IPC in 2013
- Annual meetings since 2000



- Public presentations
- Maintain a website
- Give awards & grants





What else can we or should we be doing?





















What other groups are doing



















Florida - EPPC

- Bylaws
- Checklist
- CISMA Grant
- Control & Evaluation
- Editorial
- EducationGrant

- Finance
- Legislative
- Membership
- Merchandise
- Nominations
- Outreach
- Plant Industry Liaison
- Listserv

- Plant List
- Research Grant
- Strategic Planning
- Symposium (3 comm.)
- Vendor
- Website (2 comm.)
- SE & NA-EPPC representatives
- Species Task Force



List of Invasive Plant Species

- Category I and Category II species
- Unpublished Hold cat.
- Updated every 2 years
- Evaluation process
 - Vouchered specimens
 - County distribution
 - Description of impacts
 - Few other details
 - NOT score-based
 - Fieldtrips
 - Vote

Florida Exotic Pest Plant Council's 2013 List of Invasive Plant Species

Purpose of the List: To focus attention on -

- > the adverse effects of exotic pest plants on Florida's biodiversity and native plant communities,
- the habitat losses in natural areas from exotic pest plant infestations,
- > the impacts on endangered species via habitat loss and alteration,
- the need for pest plant management,
- the socio-economic impacts of these plants (e.g., increased wildfires or flooding in certain areas),
- changes in the severity of different pest plant infestations over time,
- providing information to help managers set priorities for research and control programs.

CATEGORY

Invasive exotics that are altering native plant communities by displacing native species, changing community structures or ecological functions, or hybridizing with natives. This definition does not rely on the economic severity or geographic range of the problem, but on the documented ecological damage caused.

Scientific Name	Common Name	FLEPPC Category	Gov.	Regional Distribution
Abrus precatorius	rosary pea	I	N	C, 5
Acacia auriculiformis	earleaf acacia	1		C, 5
Albizia julibrissin	mimosa, silk tree	I		N, C
Albizia lebbeck	woman's tongue	I		C, 5
Ardisia crenata (A. crenulata misapplied)	coral ardisia	I		N, C, S
Ardisia elliptica (A. humilis misapplied)	shoebutton ardisia	1	N	C, 5
Asparagus aethiopicus (A. sprengeri; A. densiflorus misapplied)	asparagus-fern	I		N, C, 5
Bauhinia variegata	orchid tree	I		C, 5
Bischofia javanica	bishopwood	I		C, 5
Calophyllum antillanum (C. calaba misapplied)	santa maria, mast wood, Antilles calophyllur	n I		S
Casuarina equisetifolia	Australian-pine, beach sheoak	I	P, N	N, C, 5
Casuarina glauca	suckering Australian-pine, gray sheoak	I	P, N	C, 5
Cinnamomum camphora	camphor tree	1		N, C, 5
Colocasia esculenta	wild taro	1		N, C, 5
Colubrina asiatica	lather leaf	1	N	5
Cupaniopsis anacardioides	carrotwood	I	N	C, 5
Deparia petersenii	Japanese false spleenwort	1		N, C
Dioscorea alata	winged yam	1	N	N, C, 5
Dioscorea bulbifera	air-potato	1	N	N, C, 5
Eichhornia crassipes	water-hyacinth	I	P	N, C, S
Eugenia uniflora	Surinam cherry	I		C, 5
Ficus microcarpa (F. nitida and	laurel fig	I		C, 5

FLEPPC List Definitions:

Exotic – a species introduced to Florida, purposefully or accidentally, from a natural range outside of Florida.

Native – a species whose natural range includes Florida.

Naturalized exotic – an exotic that sustains itself outside cultivation (it is still exotic; it has not "become" native).

Invasive exotic – an exotic that not only has naturalized, but is expanding on its own in Florida native plant communities.

Abbreviations:

Government List (Gov. List): P = Prohibited aquatic plant by the Florida Department of Agriculture and Consumer Services;

N = Noxious weed listed by Florida Department of Agriculture & Consumer Services;

U = Noxious weed listed by U.S. Department of Agriculture.

S = south, referring to each

Regional Distribution: N = north, C = central,



Assessment of non-natives in Florida Natural areas

- Purpose: Decrease invasions by ensuring UF faculty don't recommend plants with invasive charac.
- Used by: Extension staff, Fl. Dept. of Ag.
- 3 tools
 - Predictive tool:
 - Status assessment:
 - Infraspecific taxon protocol:
- Evaluation committee, Inv Plant Working Group
- Review extension publications to ensure compliance



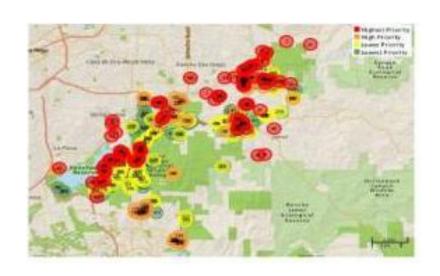
Status Assessment

- 5 sections
 - Where the plant is invading
 - Ecological impacts
 - Potential for expansion
 - Difficulty of Management
 - Economic Value
- Three geographic regions of Florida
- Requires 3 experts for each regions familiar with the species
- Assessment confined to species that invade natural areas that are minimally disturbed by people.



California – Invasive Plant Council

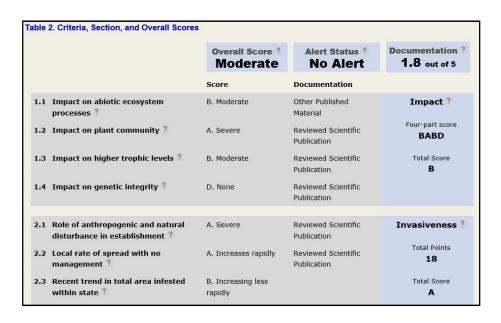
- ID cards for invasive species
- EDRR resources
- Weed management strategies
- Annual symposium
- CalWeedMapper
- Training
- Whippet
- CA Invasive Plant Inventory





California Invasive Plant Inventory

- Evaluations use published lit and field reports
- Consider cumulative impacts
- Publically reviewed
- Ranked high, moderate, limited (Alert)
- Factors considered
 - Ecological impact
 - Invasive potential
 - Distribution
 - Documentation level

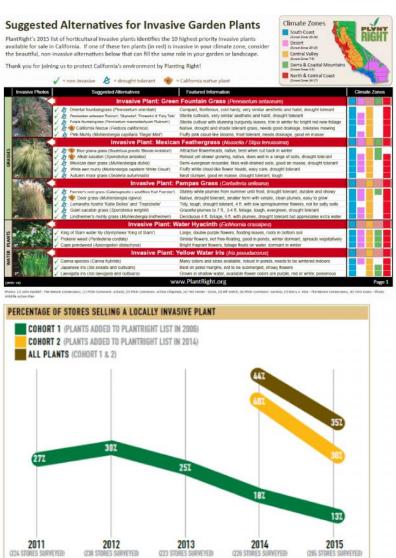




Goal: Promote non-invasive plants in partnership with the horticultural industry to protect California's natural beauty, wildlife and

communities.

- Plant Risk Evaluation (PRE model)
- Retail nursery partnerships
- Suggested alternatives for invasive plants
- Nursery survey program





Maryland Dept. of Agriculture

- 2011: The Invasive Plants Advisory Committee:
- Advise the Sec. of Ag. on regulating invasive plants and preventing their introduction
- Ag, DNR, DOT officials, industry, academia, & other experts
- They use the PPQ WRA + MD filter
- Tier 1 Plants: Prohibited
- Tier 2 Plants: Require signage

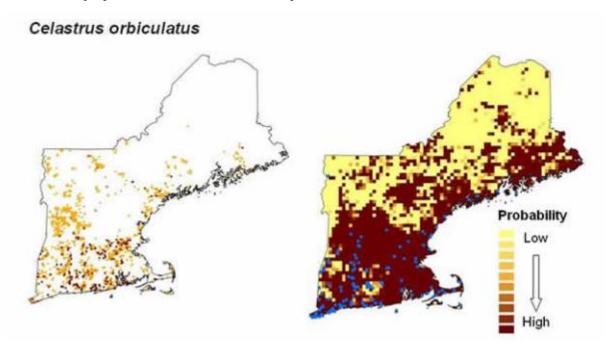






Invasive Plant Atlas of New England

- Volunteer-based project to map and monitor invasive sp.
- Hundreds of trained volunteers = presence & absence data
- Used for EDRR, management decisions, predictive models
- Smartphone app → EDDMaps





Tennessee - EPPC

- Host a variety of seminars
- Developed canned PPT presentations
- Gravel & sand pit certification
- Other resources
- Landscaping alternatives

Exotic P	otic Pest Plant Native Plant Alternative(s)				
SCIENTIFIC NAME	COMMON NAME (ORIGIN)	SCIENTIFIC NAME	COMMON NAME	CULTIVAR	WILDLIFE VALUE
TREES					
Ailanthus altissima	Tree-of-heaven (China): fast growth, compound foliage, showy seed clusters, poor soil	Juglans nigra Rhus spp. Ptelea trifoliata Fraxinus americana & F. quadrangulata	Black Walnut: compound foliage, nuts, poor soil Sumac: fast growth, compound foliage, fall color, showy fruit clusters, poor soil Hoptree, Wafer Ash: compound foliage, seed clusters White Ash & Blue Ash: compound foliage, seed clusters, fall color, seedless white ash cultivar 'Autumn Purple'	yes yes yes yes	mammals, birds, butterflies/moth bees, birds, butterflies birds, butterflies birds, butterflies
Albizia julibrissin	Mimosa (Asia, Mid East): fast growth, compound foliage, fragrant pink flower clusters, umbrella shape	Robinia hispida Cercis canadensis Cornus florida Chionanthus virainicus	Rose-acacia Locust: compound foliage, shrubby habit, pink flower clusters, poor soil Redbud: fast growth, showy pink flowers, umbrella shape 'Appalachian Spring'- Flowering Dogwood: showy flowers, fruit, fall color, form, anthracnose resistant Fringe Tree: showy fragrant flowers, fruit (female)	yes yes yes	bees, butterflies bees, butterflies birds, bees, butterflies birds



Tennessee - EPPC

- Ranked Invasive Plant List
 - Severe Threat = invasive traits, spread easily, displace natives
 - Significant Threat = invasive traits; don't spread as easily
 - Lesser Threat = spread in or near disturbed areas
 - Watch list

Watch list:

- Elaeagnus multiflora Cherry Silverberry
- Ficaria verna Lesser Celandine, Fig Buttercup
- Youngia japonica Oriental False Hawkweed
- Paederia foetida Skunkvine

A Group Discussion



- Goal: Better understand the interests of NC-IPC members, especially which additional activities are most important
 - Your needs and ideas
 - How can NC-IPC make a stronger impact
- Goal: Get members' ideas and support for implementing the most important activities
 - Evaluate which projects are more feasible
 - Where are you willing to help out?
- An online survey
 - Sent it out to 200, 18 responded
 - Posted some ideas, and organized them into 3 groups

Summary of Online Survey

Project types were ranked from 1 to 3, where 1 was the most important

Category	Avg. Rank
Education & outreach	1.6
Plant lists and related actions	1.8
Networking & other services	2.7

Summary of Online Survey: Education & Outreach

Projects were ranked from 1 to 4, where 1 was the most important.

Project	Avg. Rank
Develop standard presentations & other materials for outreach & education	2.36
Develop specific fact sheets (status, biology, control strategies) for web and print	2.43
Organize public demonstrations of invasive plant control	2.79
Conduct educational field trips demonstrating impact of invaders on the NC environment	2.43

Education & Outreach Discussion

Develop standard presentations & other materials for outreach & education

What kinds of educational materials?

 To whom should these materials be directed (i.e., is there a specific audience)?

Summary of Online Survey: Plant Lists

Projects were ranked from 1 to 4, where 1 was the most important.

Category	Avg. Rank
Develop and maintain a categorized list of NC invasive plant species	1.9
Identify potential NC invaders not yet here for early detection	3.0
Work with NC growers to identify invaders for phasing out of cultivation	2.3
Identify non-invasive options for invasive plants commonly cultivated in NC	2.9

Plant Lists Discussion

Develop and maintain a categorized list of NC invasive plant species

- What should be the goal of the list?
- What kinds of categories would be most useful for you and other users of this list?

Summary of Online Survey: Networking & Other Services

Projects were ranked from 1 to 4, where 1 was the most important.

Category	Avg. Rank
Create an email listserv and/or forum for invasive species discussions	2.2
Organize statewide volunteer surveys for invasive plant detection and mapping	2.4
Develop an Early Detection and Rapid Response (EDRR) system	3.0
Organize volunteer invasive plant removal workdays on conservation lands	2.4

Other Services Discussion

Create an email listserv and/or forum for invasive species discussions

What would you want to get out of it?

Other Services Discussion

Organize volunteer invasive plant removal workdays on conservation lands

 If we were to organize such a program, what should we try to achieve and how can we get the most out of it?



Moving Forward

- Diversifying NC-IPC programs, activities, and services
- Board hasn't met to discuss the survey results
- NC-IPC is a volunteer-based organization
- Creating a listserv (Networking & Other Services)
- Develop materials for outreach (Ed. & Outreach)
- Maintaining a categorized NC Invasive Plant List (Plant Lists)