

SC Exotic Pest Plant Council Non-Native Invasive Plant Species List Update – August 2007

New exotic plant species observations, increasing threats, and distribution changes of invasive species in South Carolina over the past 3 years, prompted the need for an update of the SC Exotic Pest Plant Council species list. All species on the 2004 list were checked against the SC Plant Atlas, the Southeast Exotic Pest Plant Council's Early Detection & Distribution Mapping System (EDDMapS), and the USDA Plants Database for distribution and nomenclature changes. Several queries for information were sent out to a panel of professional and amateur botanists, field ecologists, land managers, SC-EPPC members, and others experienced with SC natural communities and exotic plant species. Information requested and received included comments on distributions and characteristics of previously listed species, additional species to list, and suggestions for threat category designations.

The categories were expanded to include several species that are not known to be in SC, but pose severe threats to natural communities in adjacent and nearby states. This category (Watch B) is designed to include species that are targeted for Early Detection and Rapid Response (EDRR) efforts. A List Committee meeting was held in August, 2007 to finalize changes made to the list. The panel of reviewers consisted of Joel Gramling, Doug Rayner, Jan Haldeman, John Nelson, Chick Gaddy, Steve Compton, Bert Pittman, Jean Everett, Jim Miller, Robin Mackie, Randy Westbrook, Johnny Stowe, John Brubaker, Colette DeGarady, Sudie Daves, David Bourgeois, Bill Hulslander, and Elyse Benson.

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Categories (Severity of Threat)

1. Severe threat =	Exotic invasive plant species which are known to pose a severe threat to the composition, structure, or function of natural areas in the state of South Carolina.
2. Significant threat =	Exotic invasive plant species which are established in natural areas and are spreading independently, but have not been observed to alter SC natural communities to the extent shown by "Severe Threat" species.
3. Watch A =	Exotic plant species found in SC, in limited infestations, that are a potential threat to natural areas. They exhibit invasive characteristics (high reproductive rate, high growth rate, establish new populations independently).
4. Watch B =	Exotic plant species known to pose a severe threat to natural areas in adjacent states or in the southeast, but that are not currently recorded for SC. These species are also on the Early Detection and Rapid Response (EDRR) list.

Distribution codes (Based upon maps of SC Plant Atlas)

M =	Mountains
P =	Piedmont
CP =	Coastal Plain
All =	All 3 Regions

Definitions

Exotic	A species or variety introduced to SC, purposely or accidentally, from a natural range outside of SC.
Native	A species whose natural range included SC at the time of European contact (1500 AD)
Distribution	Area of known and probable occurrence

Goals/Purpose

1. to focus attention on the presence and adverse effects exotic invasive plants have on South Carolina's biodiversity, natural communities, native plant and animal habitats, and rare species
2. to rank exotic plants based on their invasive characteristics and observed distribution
3. to foster early detection of invasive exotics so that control efforts can be implemented rapidly
4. to aid resource managers and agencies in decisions about land management efforts toward controlling invasive exotic plants
5. to increase public awareness of invasive exotic plant species in an effort to eliminate the use of invasive exotics in landscaping, restoration, and enhancement projects

Links for other invasive exotic plant lists/information:

agricultural/crop pests --	http://drpsp.clemson.edu/dpi/npp.htm
Aquatic Nuisance Species --	http://www.dnr.sc.gov/water/envaff/aquatic/img/illegal.pdf
Federal Noxious Weed List --	http://www.aphis.usda.gov/plant_health/plant_pest_info/weeds/downloads/weedlist2006.pdf
SC Noxious Weed List --	http://plants.usda.gov/java/noxious?rptType=State&statefips=45
USDA Forest Service --	http://www.fs.fed.us/database/feis/plants/weed/index.html
USDA Plants Database --	http://www.invasivespeciesinfo.gov/plants/main.shtml

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(list by Growth Form and by Severity of Threat) / Distribution based on SC Plant Atlas/SEEPPC Database

Growth Form	Severity of Threat	Common Name	Scientific Name	Distribution
Tree	Severe Threat	Tree of heaven ^	<i>Ailanthus altissima</i> ^	ALL
Tree	Severe Threat	Mimosa, Silktree	<i>Albizia julibrissin</i>	ALL
Tree	Severe Threat	Chinese Parasol Tree	<i>Firmiana simplex</i>	MCP
Tree	Severe Threat	Chinaberry	<i>Melia azedarach</i>	ALL
Tree	Severe Threat	Princess Tree/Royal Paulownia	<i>Paulownia tomentosa</i>	ALL
Tree	Severe Threat	Chinese Tallow Tree	<i>Triadica sebifera</i>	PCP
Tree	Significant Threat	Camphortree	<i>Cinnamomum camphora</i>	CP
Tree	Significant Threat	White Mulberry	<i>Morus alba</i>	ALL
Tree	Significant Threat	White Poplar	<i>Populus alba</i>	ALL
Tree	Watch A	Paper Mulberry	<i>Broussonetia papyrifera</i>	ALL
Tree	Watch A	Russian-olive	<i>Elaeagnus angustifolia</i>	MP
Tree	Watch A	Callery Pear (Bradford Pear)	<i>Pyrus calleryana</i>	MP
Tree	Watch A	Sawtooth Oak	<i>Quercus acutissima</i>	PCP
Shrub	Severe Threat	Thorny-olive	<i>Elaeagnus pungens</i>	ALL
Shrub	Severe Threat	Autumn-olive	<i>Elaeagnus umbellata</i>	ALL
Shrub	Severe Threat	Two Color Bush Clover, Shrub Lespedeza	<i>Lespedeza bicolor</i>	ALL
Shrub	Severe Threat	Japanese Privet	<i>Ligustrum japonicum</i>	ALL
Shrub	Severe Threat	Chinese Privet	<i>Ligustrum sinense</i>	ALL
Shrub	Severe Threat	Japanese Knotweed	<i>Polygonum cuspidatum</i>	ALL
Shrub	Severe Threat	Multiflora Rose	<i>Rosa multiflora</i>	ALL
Shrub	Severe Threat	Beach Vitex, Chasteberry, Roundleaf Chastetree	<i>Vitex rotundifolia</i>	CP

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Shrub	Significant Threat	Scotch Broom	<i>Cytisus scoparius</i>	ALL
Shrub	Significant Threat	Leatherleaf Mahonia	<i>Mahonia bealei</i>	PCP
Shrub	Significant Threat	Cascade Oregon Grape, Cascade Barberry	<i>Mahonia nervosa</i>	P
Shrub	Significant Threat	Nandina, Sacred Bamboo	<i>Nandina domestica</i>	ALL
Shrub	Significant Threat	Trifoliolate Orange	<i>Poncirus trifoliata</i>	ALL
Shrub	Significant Threat	Jerusalem Cherry	<i>Solanum pseudocapsicum</i>	P
Shrub	Watch A	Japanese Barberry	<i>Berberis thunbergii</i>	MP
Shrub	Watch A	Sweet Breath of Spring	<i>Lonicera fragrantissima</i>	ALL
Shrub	Watch A	Macartney Rose	<i>Rosa bracteata</i>	MP
Shrub	Watch A	Wineberry, Wine Raspberry	<i>Rubus phoenicolasius</i>	MP
Shrub	Watch A	Meadowsweet	<i>Spiraea japonica</i>	MP
Shrub	Watch B	Winged Euonymus, Burning Bush	<i>Euonymus alata</i>	MP (probable)
Shrub	Watch B	Saltcedar, Tamarisk, French Tamarisk	<i>Tamarix ramosissima, T. parviflora, T. gallica</i>	CP (planted)
Vines	Severe Threat	English Ivy	<i>Hedera helix</i>	ALL
Vines	Severe Threat	Japanese Climbing Fern	<i>Lygodium japonicum</i>	ALL
Vines	Severe Threat	Japanese Honeysuckle	<i>Lonicera japonica</i>	ALL
Vines	Severe Threat	Kudzu	<i>Pueraria montana</i>	ALL
Vines	Severe Threat	Asian/Japanese Wisteria	<i>Wisteria floribunda</i>	PCP
Vines	Severe Threat	Chinese Wisteria	<i>Wisteria sinensis</i>	ALL
Vines	Severe Threat	Bigleaf Periwinkle	<i>Vinca major</i>	ALL
Vines	Severe Threat	Common Periwinkle	<i>Vinca minor</i>	MP

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Growth Form	Severity of Threat	Common Name	Scientific Name	Distribution
Vines	Watch A	Sweet Autumn Virgin's Bower	<i>Clematis terniflora</i>	ALL
Vines	Watch A	Purple Crownvetch	<i>Coronilla varia</i>	MP
Vines	Watch A	Lace vine, Silverlace vine, Fleece vine, Silvertine Fleeceflower, Chinese Fleeceflower	<i>Polygonum aubertii</i>	P
Vines	Watch A	Asian/Oriental Bittersweet	<i>Celastrus orbiculatus</i>	ALL
Vines	Watch A	Japanese Dodder*^	<i>Cuscuta japonica</i> *^	ALL
Vines	Watch A	Air potato, Chinese yam	<i>Dioscorea oppositifolia</i>	ALL
Vines	Watch A	Climbing Euonymus, Winter Creeper	<i>Euonymus fortunei</i>	P
Vine	Watch A	Cherokee Rose	<i>Rosa laevigata</i>	PCP
Vines	Watch B	Fiveleaf akebia, chocolate vine	<i>Akebia quinata</i>	
Vines	Watch B	Bushkiller	<i>Cayratia japonica</i>	P (probable)
Grasses, sedges	Severe Threat	Cogongrass*^	<i>Imperata cylindrica</i> *^	MCP
Grasses, sedges	Severe Threat	Tall Fescue	<i>Lolium arundinaceus</i>	ALL
Grasses, sedges	Severe Threat	Japanese Stilt Grass, Nepalese Browntop	<i>Microstegium vimineum</i>	ALL
Grasses, sedges	Severe Threat	Chinese Silvergrass	<i>Miscanthus sinensis</i>	ALL
Grasses, sedges	Severe Threat	Bahia Grass	<i>Paspalum notatum</i>	ALL
Grasses, sedges	Severe Threat	Common Reed, Phragmites ^	<i>Phragmites australis</i> ssp. <i>australis</i> ^	CP
Grasses, sedges	Severe Threat	Golden Bamboo, Fishpole Bamboo	<i>Phyllostachys aurea</i>	PCP
Grasses, sedges	Severe Threat	Johnson Grass	<i>Sorghum halepense</i>	ALL

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Grasses, sedges	Significant Threat	Giant Reed	<i>Arundo donax</i>	ALL
Grasses, sedges	Significant Threat	Pampas Grass	<i>Cortaderia selloana</i>	CP
Grasses, sedges	Significant Threat	Dallis Grass	<i>Paspalum dilatatum</i>	ALL
Grasses, sedges	Significant Threat	Vasey's Grass	<i>Paspalum urvillei</i>	PCP
Grasses, sedges	Watch A	Weeping Love Grass	<i>Eragrostis curvula</i>	PCP
Grasses, sedges	Watch A	Torpedo Grass	<i>Panicum repens</i>	P
Grasses, sedges	Watch B	Deep-rooted sedge	<i>Cyperus entrerianus</i>	
Herbs	Severe Threat	Tropical Spiderwort, Bengal Dayflower*^	<i>Commelina bengalensis</i> *^	PCP
Herbs	Severe Threat	Wart Removing Herb/Marsh Dewflower/Aneilema	<i>Murdannia keisak</i>	ALL
Herbs	Severe Threat	Tropical Soda Apple ^	<i>Solanum viarum</i> ^	ALL
Herbs	Significant Threat	Nodding Thistle, Nodding Plumeless Thistle, Musk Thistle	<i>Carduus nutans</i>	MP
Herbs	Significant Threat	Spotted Knapweed	<i>Centaurea biebersteinii</i>	P
Herbs	Significant Threat	Bull Thistle	<i>Cirsium vulgare</i>	ALL
Herbs	Significant Threat	Showy Rattlebox	<i>Crotalaria spectabilis</i>	ALL
Herbs	Significant Threat	Queen Anne's Lace/Wild Carrot	<i>Daucus carota</i>	ALL
Herbs	Significant Threat	Serecea, Chinese Bush Clover	<i>Lespedeza cuneata</i>	ALL
Herbs	Significant Threat	Liriope, Monkey Grass, Big Blue Lilyturf	<i>Liriope muscari</i>	PCP
Herbs	Significant Threat	Rattlebox, Scarlet Wisteria Tree, Purple Sesban	<i>Sesbania punicea</i>	PCP

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Herbs	Watch A	Elephant's Ear, Coco Yam, Taro	<i>Colocasia esculenta</i>	CP
Herbs	Watch A	Smooth Rattlebox	<i>Crotalaria pallida</i>	PCP
Herbs	Watch A	Mascarene Island Leafflower	<i>Phyllanthus tenellus</i>	ALL
Herbs	Watch A	Leafflower Shatterstone, Chamber Bitter	<i>Phyllanthus urinaria</i>	PCP
Herbs	Watch A	Witchweed*	<i>Striga asiatica</i> *	CP
Herbs	Watch B	Garlic Mustard	<i>Alliaria petiolata</i>	
Herbs	Watch B	Canada Thistle	<i>Cirsium arvense</i>	
Herbs	Watch B	Purple Loosestrife ^	<i>Lythrum salicaria</i> ^	
* = species is on the Federal Noxious Weed List				
^ = species is on the South Carolina Noxious Weed List				