

# This brochure lists the exotic plants to avoid and the attractive native alternatives that will work just as well. The list features those invasive plants often considered for home gardens and landscaping, their state ranking as a pest, and their qualities typically considered ornamental or useful. Adjacent to each is one or more suggested native plant alternatives along with their desirable aesthetic or practical characteristics as a suitable replacement, the availability of cultivars, and their wildlife value. With this knowledge homeowners and professionals can make fully informed decisions for a beautiful garden in their backyards and a healthy natural heritage in the shared Tennessee landscape beyond.

# Discover Tennessee's Natural Beauty

To learn more about our state's natural beauty, visit these websites:

Tennessee Native Plant Society

www.tnps.org

Tennessee State Parks

http://tn.gov/environment/parks/

TDEC Resource Management Division <a href="http://tn.gov/environment/na/">http://tn.gov/environment/na/</a>

Other good sources to explore the natural beauty of Tennessee include municipal parks, nature centers, botanic gardens and arboretums.

### **Native Plant Sources**

Please support local nurseries carrying nursery-propagated native plants—stock supplied through seed, division or tissue culture of existing nursery plants and not collected from the wild. A partial list of state nurseries selling native plants may be found on TN-EPPC's website www.tneppc.org

# Tennessee's Native Plant Alternatives to Exotic Invasives

# A Garden & Landscape Guide

Beautiful flowers, interesting foliage, ample fruit, tough constitution, and fast growth are plant qualities that appeal to gardeners and landscapers. When these desirable horticultural characteristics occur in plants that are not native to Tennessee or the eastern U.S., these exotics could escape from maintained landscapes, invade natural areas, and damage native plant communities in the state. Non-native plants that readily spread in natural areas, either vegetatively or via seed, pose a significant threat to the health and welfare of Tennessee's rich biological diversity. These plants are considered exotic invasive pests.

## **The Problem**

Plants introduced to the U.S. from other areas of the world are an important part of gardening and landscaping. Most of these plants are well-behaved and rarely stray beyond the garden wall. Only about one percent of these non-natives readily escape into the wild and become invasive in natural areas. Invasive plants exhibit certain traits.

- Adaptation to local climate
- Rapid growth
- Mature quickly to flower and set seed
- Produce copious amounts of seed
- Effective seed dispersal
- Rampant vegetative spread
- No major pest or disease problems

These traits can give exotic invasive plants undue advantage in wild habitats like forests, wetlands, cedar glades, and grasslands. Exotic species can overwhelm native plants depriving them of nutrients, water, light, and space and may totally displace native species, replacing a diverse ecosystem with a near sterile monoculture and resulting in the reduction of biodiversity, loss of endangered species and their habitats, loss of habitat and food sources for wildlife, and disruption of native plant-animal associations. Exotic invasive plants threaten the health and stability of Tennessee's beautiful natural heritage and across the United States cost an estimated \$35 billion annually in control efforts and crop losses. (Pimentel, et al., 2004)



# Tennessee Exotic Pest Plant Council

The exotic invasive plants in this brochure came from a larger list compiled by the Tennessee Exotic Pest Plant Council, a group of scientists and public land managers who monitor plant communities in the state. TN-EPPC ranks each plant according to its degree of invasiveness as follows:

- Rank 1 Severe Threat
   Spreads easily into native plant communities and displaces native vegetation
- Rank 2 Significant Threat
   Not presently considered to spread as easily into native plant communities as Rank 1 species
- Rank 3 Lesser Threat
   Spreads in or near disturbed areas and are not presently considered a threat to native plant communities
- Alert: Invasiveness in Tennessee undetermined; known invasive in similar habitats, severe threat in adjacent states, or substantial management difficulty

TN-EPPC's website **www.tneppc.org** features the complete list of invasive pest plants in the state, control recommendations for certain species, and detailed native plant landscaping information tailored to East, Middle and West Tennessee. Another good website for invasive plant information and control recommendations is sponsored by Plant Conservation Alliance at **www.nps.gov/plants/alien/fact.htm.** 

Some exotic invasives are agricultural pests—forage grasses and noxious weeds. Some were brought in for erosion control—kudzu (*Pueraria montana*) and crown vetch (*Coronilla varia*)—or medicinal/culinary uses—common mullein (*Verbascum thapsus*), coltsfoot (*Tussilago farfara*), mugwort (*Artemisia vulgaris*), spearmint and peppermint (*Mentha spicata, M. x piperita*). Some hitched rides on boats or got dumped out of home aquariums—hydrilla, water thyme (*Hydrilla verticillata*), Parrot's feather, water milfoil (*Myriophyllum aquaticum*) and Brazilian water-weed (*Egeria densa*). Many are horticultural. Unfortunately some of the invasive traits listed above can increase a plant's horticultural desirability.

The worldwide search for "new" and exciting landscape plants has played a role in the dramatic shift of plant species' distributions around the globe, and the introduction of potentially invasive species is a real danger. Research indicates that 85% of the non-native invasive woody plants in North America were originally brought in as ornamental or landscape plants. (Reichard, 1999) Gardeners, nursery owners, landscapers, and design professionals should be aware of this potential and understand the consequences.

## The Solution

Those who look beyond the few troublesome exotic plants will find an incredible selection of homegrown plants. There is at least one good native plant substitute for each of the horticultural exotic pest plants. Often there is a related native counterpart with similar desirable characteristics. Native plants evolved through geologic time in this geographic location, developing a strong connection to the land, each other and the wildlife. Landscaping with native plants taps into that connection providing a beautiful garden biologically adapted to Tennessee's climate, soils, wildlife, and plant communities. Native plants aren't limited to "wild" or "woodland" gardens and can just as easily adorn a mailbox, blend with traditional garden favorites in perennial borders, or anchor a commercial landscape.

Choosing native plants is just one of the simple steps Tennesseans can take to slow the spread of exotic invasive plants.

- Keep a current list of the exotic pest plants in Tennessee and surrounding states handy as a research reference for future plant purchases. (see: www.se-eppc.org—the lists are updated as warranted)
- Share this information with gardening friends and colleagues.
- Do not collect plants from the wild and avoid altering the native composition of your landscape.
- Know your plants; to be safe, if you don't know it, don't grow it.
- Consider removing exotic invasives from your landscape. On the TN-EPPC website, www.tneppc.org, click "Invasive Plants" for information on controlling some of the state's worst pest plants.
- Investigate the diverse, lovely and useful native plants readily available commercially for home gardens and landscapes.
- Consider replacing exotic invasives with plants native to your local region.
- Encourage your local nursery to avoid the worst invasives and carry nursery-propagated native plant alternatives.
- Assist invasive species removal projects in your area.

	<b>Exotic Pes</b>	st 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.	Black Walnut: compound foliage, nuts, poor soil Sumac: fast growth, compound foliage, fall color, showy fruit clusters, poor soil	yes yes	mammals, birds, butterflies/moth bees, birds, butterflies
			Ptelea trifoliata Fraxinus americana & F. quadrangulata	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	birds, butterflies birds, butterflies
	Albizia julibrissin	Mimosa (Asia, Mid East): fast growth, compound foliage, fragrant pink	Robinia hispida	Rose-acacia Locust: compound foliage, shrubby habit, pink flower clusters, poor soil	yes	bees, butterflies
		flower clusters, umbrella shape	Cercis canadensis Cornus florida	Redbud: fast growth, showy pink flowers, umbrella shape 'Appalachian Spring' - Flowering Dogwood: showy flowers, fruit, fall color, form, anthracnose resistant	yes yes	bees, butterflies birds, bees, butterflies
1	Broussonetia papyrifera	Paper Mulberry (Asia): poor soil,	Chionanthus virginicus Morus rubra	Fringe Tree: showy fragrant flowers, fruit (female)  Red Mulberry: edible fruit (female)		birds birds, butterflies
_	<i>Биоиззопски раруписти</i>	bark, fast growth, fruit (female)	Ostrya virginiana Nyssa sylvatica Sassafras albidum	Hophornbeam: bark, strong branching, seed clusters Blackgum: fall color, fruit (female) Sassafras: poor soil, fall color, fruit (female)		birds birds birds birds
	Firmiana simplex	Chinese Parasoltree (Asia): large maplelike leaves, smooth bark,	Acer pensylvanicum	Striped Maple: large maplelike leaves, smooth striped bark, flower/seed panicles	yes	bees
		long flower panicles	Catalpa speciosa	<b>Cigar Tree, Northern Catalpa:</b> showy flowers, seedpods, fast growth, adaptable sites		butterflies
]	Koelreuteria paniculata	Golden Raintree (Asia): showy flower clusters, compound leaves, soil adaptable	Cladrastis kentukea Robinia pseudoacacia	Yellowwood: compound leaves, showy fragrant flower clusters Black Locust: fast growth, compound foliage, showy fragrant flower clusters, poor soil	yes yes	bees bees, butterflies
	Melia azedarach	Chinaberry (China): compound foliage, hard fruit	Aralia spinosa	Devils Walkingstick: compound foliage, showy flowers & fruit		bees, birds, butterflies
]	Paulownia tomentosa	Princess Tree (China): showy flowers, fast growth	Aesculus pavia Magnolia virginiana	Red Buckeye: showy flowers Sweetbay Magnolia: showy fragrant flowers, fast growth	yes yes	hummingbirds, mammals
	Populus alba	White Poplar (Eurasia): lobed leaves with white undersides	Tilia americana var. heterophylla Liquidambar styraciflua Platanus occidentalis	White Basswood: white leaf undersides Sweetgum: lobed leaves, fall color Sycamore: lobed leaves, showy exfoliating bark	yes yes	bees, butterflies birds, butterflies birds, mammals
	Pyrus calleryana	Bradford Pear, Callery Pear (China): white flowers, fall color,	Amelanchier arborea & A. laevis	Downy & Allegheny Serviceberry: white flowers, edible fruit, fall color, cultivar 'Snowcloud' has upright form	yes	bees, birds, butterflies, mamma
		upright form	Crataegus spp. Prunus mexicana Prunus angustifolia Viburnum rufidulum Cercis canadensis	Hawthorn: white flowers, fruit Mexican Plum: white fragrant flowers, fruit Chickasaw Plum: shrub, white flowers, fruit Rusty Blackhaw: white flowers, fruit, fall color 'Royal White'- Redbud: white flowers, seedpods, fall color	yes	bees, birds, butterflies bees, birds, butterflies bees, birds, mammals bees, birds, mammals bees, butterflies
]	Triadica sebifera (Sapium sebiferum)	Chinese Tallowtree: summer flowers, fall color, white fruit	Oxydendrum arboreum	Sourwood: summer flowers, fall color, seedpods	yes	bees, birds
	SHRUBS					
	Berberis thunbergii	Japanese Barberry: foliage color,	Physocarpus opulifolius	'Diablo' - Ninebark: showy flowers, fruit, exfoliating bark,	yes	bees, birds, butterflies
		winter fruit, dense habit	Fothergilla gardenii llex verticillata Viburnum obovatum	maroon-tinged foliage  Dwarf Witch Alder: showy fragrant flowers, fall color, compact  'Red Sprite' - Winterberry: winter fruit, compact habit  'Densa' - Small-leaf Arrowwood: evergreen, spring flowers, dense habit	yes yes yes	birds, mammals bees, birds bees, birds
	Buddleja davidii	Butterfly Bush (Asia): summer flower spikes, attracts butterflies	Cephalanthus occidentalis Ceanothus americanus Aesculus parviflora Clethra alnifolia Amorpha fruticosa	Buttonbush: summer flower clusters New Jersey Tea: late spring flower clusters, seedpods Bottlebrush Buckeye: summer flower spikes Summersweet: fragrant summer white/pink flower, bark Indigo Bush: summer purple flower spikes, poor soil	yes yes yes	bees, butterflies bees, butterflies bees, butterflies bees, butterflies bees, birds, butterflies
]	Elaeagnus angustifolia	Russian Olive (Eurasia): silvery leaves, yellow fruit, poor soil, fragrant flowers	Croton alabamensis Lindera benzoin	Alabama Croton: silvery fragrant leaves, poor soil, fall color Spicebush: red fruit, fall color, early spring flowers, aromatic twigs	yes	bees, birds, butterflies
	Elaeagnus umbellata E. pungens	,, , , , , , , , , , , , , , , , , , , ,	Hypericum frondosum	Golden & Shrubby St. John's-wort: showy yellow flowers, exfoliating bark, site adaptable	yes	birds
	Euonymus alata	Burning Bush (Asia): fall color, fruit	Euonymus americanus Itea virginica Vaccinium corymbosum Rhus aromatica Rhus copallinum(a) var. latifolia	Hearts-a-bustin': fruit, fall color, shade-loving Virginia Sweetspire: showy fragrant flowers, fall color Highbush Blueberry: showy flowers, edible fruit, fall color Fragrant Sumac: summer red fruit, fall color, dry/poor soil 'Morton' - Prairie Flame Shining or Winged Sumac: showy flowers, fall color, compact habit, glossy leaves, fruitless, dry/poor soil	yes yes yes yes	bees, birds bees bees, birds bees, birds bees
	Hibiscus syriacus	Rose-of-sharon (China): large mallow flowers	Hibiscus moscheutos & H. laevis	Swamp & Halberd-leaved Rose-mallow: large summer flowers, tall/wide herb	yes	butterflies
	llex crenata	Japanese Holly: evergreen, dense form, small leaves, black fruit	llex vomitoria Hypericum densiflorum	Yaupon Holly: evergreen, small leaves, dwarf cultivars, red fruit Dense St. John's-wort: small leaves, dense form, yellow flowers	yes yes	bees, birds bees, birds
	Ligustrum japonicum Ligustrum sinense	Japanese Privet: evergreen, hedges, black fruit, fragrant flowers, shiny leaves Chinese Privet: evergreen, hedges,	llex glabra Kalmia latifolia Osmanthus americanus	Inkberry: evergreen, shiny leaves, hedges, black fruit Mountain Laure!: evergreen, shiny leaves, showy flowers Devilwood: evergreen, shiny foliage, fragrant flowers,	yes yes	bees, birds bees, butterflies birds, butterflies
7	Ligustrum vulgare	black fruit, fragrant flowers Common Privet (Europe): hedges, black	Viburnum bracteatum	dark blue winter fruit 'Emerald Luster' - Limerock Arrowwood: showy flowers, blue-black fru	it yes	bees, birds, butterflies
]	Ligustrum obtusifolium	fruit, fragrant flowers, shiny leaves Border Privet (Japan): hedges	Morella (Myrica) cerifera Viburnum nudum	Southern Waxmyrtle: evergreen, shiny leaves, fragrant, waxy gray fruit Possumhaw Viburnum: shiny leaves, showy flowers, black fruit	yes yes	birds bees, birds, butterflies
]	Lonicera fragrantissima Lonicera maackii Lonicera morrowii Lonicera tatarica	January Jasmine (China): white/yellow Amur Bush Honeysuckle (Asia): tough constitution Morrow's Bush Honeysuckle (Japan): Twinsisters (Russia): white/pink	Hamamelis virginiana Hamamelis vernalis Diervilla sessilifolia Photinia pyrifolia (Aronia arbutifolia)	Witch Hazel: yellow fragrant flowers in fall Ozark Witch Hazel: orange fragrant flowers early spring Southern Bush Honeysuckle: tough constitution, yellow flowers Red & Black Chokeberry: fragrant flowers, red or black	yes yes	birds birds bees, butterflies bees, birds

	xotic Pest I			Alternative(s)		
SCI			CIENTIFIC NAME (	COMMON NAME	CULTIVAR	WILDLIFE VALUE
_	SHRUBS continu					
Α	Lonicera x bella	Bell's Bush Honeysuckle: (hybrid of Lonicera morrowii & Lonicera tatarica)	llex verticillata Callicarpa americana Viburnum acerifolium Rhododendron calendulaceum & R. arborescens	Winterberry: red winter fruit American Beautyberry: pink flowers, bright purple fruit Mapleleaf Viburnum: white flowers, fruit, fall color Flame & Sweet Azaleas: showy fragrant flowers, fall color	yes yes yes yes	bees, birds bees, birds bees, birds, butterflies butterflies
A	Mahonia bealei	<b>Leatherleaf Mahonia</b> (China): evergreen, blue fruit, form, shade	Cornus amomum Callicarpa americana Ilex opaca	Silky Dogwood: showy flowers, blue fruit, fall color American Beautyberry: bright purple fruit American Holly: tree, evergreen, red fruit (female)	yes yes	bees, birds bees, birds bees, birds, butterflies
Α	Nandina domestica	Sacred Bamboo, Heavenly Bamboo (Asia): evergreen, colorful foliage, fruit, tough constitution	Leucothoe axillaris & L. fontanesiana Xanthorhiza simplicissima Agarista populifolia	Coastal Leucothoe & Doghobble: showy flowers, evergreen, colorful foliage Yellowroot: foliage texture, spring flowers, fall color 'Leprechaun' - Florida Hobblebush: evergreen, colorful foliage, fragrant flowers, compact habit	yes	birds bees, butterflies
1	Rosa multiflora	Multiflora Rose (Asia): showy flowers, hips, living fence	Rosa palustris Rosa setigera Rosa carolina	Swamp Rose: showy flowers, hips, living fence Prairie Rose: showy flowers, hips, spreader Carolina Rose: showy flowers, hips, smaller shrub	yes	bees, birds bees, birds bees, birds
3	Rubus phoenicolasius	Wineberry (Asia): edible fruit	Rubus spp. Rubus odoratus	Blackberries: showy flowers, edible fruit Purple Flowering Raspberry: showy flowers	yes	bees, birds bees, birds
2	Spiraea japonica	Japanese Spiraea: showy flowers, foliage, mounded form	Physocarpus opulifolius Viburnum dentatum Spiraea tomentosa Neviusia alabamensis Rhododendran canescens & R. periclymenoides	Ninebark: showy flowers, foliage, exfoliating bark Arrowwood: showy flowers, fruit, fall color Steeplebush, Hardhack: showy pink flowers Alabama Snowwreath: showy white flowers, mounded form Piedmont & Pinxter Azaleas: showy fragrant flowers, fall color	yes yes	bees, birds, butterflies bees, birds, butterflies butterflies bees, butterflies
	VINES		a in penelymenolaes			
A	Ampelopsis brevipedunculata	Amur Peppervine, Porcelainberry (Asia): blue fruit	Passiflora lutea Menispermum canadense Parthenocissus quinquefolia Vitis spp. Ampelopsis cordata	Yellow Passion-flower: flowers, blue fruit Moonseed: blue-black fruit Virginia Creeper: blue-black fruit, fall color Grape: edible blue-black fruit, fragrant flowers Heartleaf Peppervine: blue fruit	yes yes	birds, butterflies birds, butterflies birds birds, mammals birds
3	Cardiospermum halicacabum	Love-in-a-puff, Balloonvine (Central/S. America): compound foliage, puffy seedpod, unique seed	Campsis radicans Staphylea trifolia Aristolochia spp. Clematis viorna	Trumpet Creeper: compound foliage, showy flowers Bladdernut: shrub, puffy seedpods, showy flowers, bark Pipevine: unique flower Leatherflower: showy purple flowers, fluffy seedheads	yes	hummingbirds butterflies butterflies hummingbirds
1	Celastrus orbiculatus	Asian Bittersweet: showy fruit capsules	Celastrus scandens Cocculus carolinus	American Bittersweet: showy fruit capsules, poor soil Carolina Snailseed: quantity of red fruit, short vine		birds birds, mammals
3	Clematis terniflora	Sweet Autumn Clematis (Japan): showy flowers, fragrant	Clematis virginiana	Virgin's Bower: showy flowers, fragrant		bees
3	Euonymus fortunei	Wintercreeper (China): evergreen, maroon color, climber, sun/shade, dry soil, groundcover	Bignonia capreolata  Antennaria plantaginifolia Pityopsis (Heterotheca, Chrysopsis) graminifolia Polystichum acrostichoides Chrysogonum virginianum	Crossvine: semi-evergreen, winter color, climber, showy flowers, sun/shade, dry soil Pussytoes: poor soil, dry soil, evergreen herb Narrowleaf Silkgrass: poor soil, dry soil, groundcover, silvery leaves, yellow flowers, herb, sun Christmas Fern: evergreen fern, dry soil, shade 'Eco-Lacquered Spider' - Green-and-gold: evergreen	yes	bees, hummingbirds butterflies bees, butterflies butterflies
	11 1 1 2	F P.1. (5)		groundcover, yellow flowers	·	
3	Hedera helix	English vy (Europe): evergreen, shiny leaves, shade, dry soil, groundcover, climber	Decumaria barbara  Berchemia scandens Bignonia capreolata Gaultheria procumbens  Pachysandra procumbens  Asarum canadense	Climbing Hydrangea, Woodvamp: vine, shiny leaves, tardily deciduous, fragrant flower clusters, light shade  Supplejack: shiny leaves, blue-black fruit, dry soil  Crossvine: semi-evergreen, winter color, shiny leaves, flowers  Wintergreen, Eastern Teaberry: evergreen groundcover, flowers, red fruit, shiny leaves, shade, acid soil  Allegheny Spurge: herb groundcover, yearlong foliage  mottles in winter, fragrant flowers  Wild Ginger: herb groundcover, shade, moist soil	yes	bees birds bees, hummingbirds bees, birds, mammals
1	Lonicera japonica	Japanese Honeysuckle: White fragrant flowers, twining, black fruit	Lonicera sempervirens Lonicera flava Gelsemium sempervirens	Coral or Trumpet Honeysuckle: prolific red flowers, well- behaved, twining, red fruit Yellow Honeysuckle: yellow flowers, orange fruit Carolina or Yellow Jessamine (Jasmine): semi-evergreen,	yes	hummingbirds, birds, butterflie
A	Lygodium japonicum	Japanese Climbing Fern: lacy compound foliage, twining vine	Clematis glaucophylla Adiantum pedatum	fragrant flowers, well-behaved, twining, glossy leaves  Blue-leaved Leather-flower: compound foliage, twining vine, showy red flowers  Maidenhair Fern: lacy foliage, unusual form		bees
2	Vinca minor &. V. major	Common Periwinkle (Eurasia): & Greater Periwinkle evergreen groundcover, blue flowers, glossy foliage, shade	Phlox stolonifera & P. divaricata  Carex flaccosperma, C. plantaginea, & C. platyphylla  Mitchella repens	Partridgeberry: evergreen groundcover, white flowers, red fruit, acid-loving, glossy foliage	yes	butterflies  birds
			Packera aurea (Senecio aureus)  Dryopteris marginalis	Golden Ragwort: dark evergreen foliage, groundcover, yellow fragrant flowers Marginal Woodfern: evergreen fern		bees, butterflies
3	Wisteria floribunda Wisteria sinensis	Japanese Wisteria: showy flowers, fragrant Chinese Wisteria: similar to above	Wisteria frutescens &/or ( W. macrostachya)	American Wisteria & Kentucky W.: showy flowers, fragrant, blooms in first couple of years, not as aggressive	yes	butterflies
KEV	1 Severe Threat: Spread into native plant comm and displaces native ver	unities considered to sp	reat: Not presently read as easily into native ies as Rank 1 species	areas and are not presently considered a know	wn invasive in simi	n Tennessee undetermined; lar habitats, severe threat in stantial management difficulty



SCIENTIFIC NAME	COMMON NAME (ORIGIN)	SCIENTIFIC NAME	COMMON NAME	CULTIVAR	WILDLIFE VALUE
HERBS	,				
Bupleurum rotundifolium	Hare's Ear (Eurasia): short annual, foliage	Triodanis perfoliata	Venus' Looking-glass: short annual, foliage, showy flowers		
Centaurea cyanus	Bachelor's Button, Cornflower (Mediterranean): Showy blue flowers, annual	Collinsia verna Campanulastrum americanum (Campanula americana)	Blue-eyed Mary: showy blue/white spring flowers, annual Tall Bellflower: showy blue summer flowers, biennial		bees bees, butterflies
		Phacelia bipinnatifida Stokesia laevis Eurybia hemispherica (Aster paludosus ssp. hemisphericus)	Purple Phacelia: showy purple spring flowers, biennial Stokes' Aster: showy blue flowers, evergreen foliage Southern Prairie Aster: blue flowers, dry soil	yes	bees bees butterflies
Cichorium intybus	Chicory (Eurasia): blue flowers, poor alkaline soil	Sisyrinchium angustifolium Symphyotrichum (Aster) patens	Blue-eyed Grass: blue flowers, poor alkaline soil Late Purple Aster: blue flowers, poor dry soil	yes	bees, butterflies
Cosmos bipinnatus & C. sulphureus	Cosmos (Mexico): colorful flowers, feathery foliage, annuals, poor soil	Heliopsis helianthoides Bidens aristosa	Smooth Oxeye: yellow summer flowers, poor soil Tickseed Sunflower: yellow summer/fall flowers, annual, feathery foliage	yes	bees, butterflies bees, butterflies
Daucus carota	Queen Anne's Lace (Europe): showy flowers, butterflies	Angelica venenosa Thaspium spp. Zizia aptera & Z. aurea	Hairy Angelica: showy white flowers Meadow Parsnip: showy yellow flowers Heartleaf & Golden Alexanders: showy yellow flowers		bees, butterflies bees, butterflies bees, butterflies
Dipsacus fullonum	Fuller's Teasel (Europe): unusual flower head	Eryngium yuccifolium	Button Snakeroot, Rattlesnake-master: unusual flower heads, unusual form		bees, butterflies
Eichhornia crassipes	Water Hyacinth (S. America): pond plant, showy purple flower	Pontederia cordata	Pickerelweed: pond plant, showy purple flowers		bees
Eschscholzia californica	California Poppy: showy yellow - orange flowers	Oenothera fruticosa Asclepias tuberosa	Sundrops: bright yellow, poppy-like flowers Butterfly-weed: orange flowers, drought/heat tolerant	yes yes	bees bees, butterflies
Gaillardia pulchella	Firewheel (Central US): annual, red/yellow ray flowers	Coreopsis tinctoria Helenium flexuosum	Plains Coreopsis: annual, red/yellow ray flowers Purple-headed Sneezeweed: perennial, yellow ray flowers	yes	bees, butterflies bees, butterflies
Hesperis matronalis	Dame's Rocket (Europe): showy flowers	Phlox spp.	Phlox: showy flowers	yes	bees, butterflies
lris pseudacorus	<b>Yellow Iris</b> (Eurasia): showy flowers, damp soil	Iris virginica Iris fulva Iris versicolor Hymenocallis caroliniana (H. occidentalis)	Southern Blue Flag, Virginia Iris: blue flowers, damp soil Red Iris: copper flowers, damp - wet soil Harlequin Blue Flag: blue flowers, damp soil Spiderlily: showy white flowers, moist to damp soil		bees bees bees
Lespedeza bicolor	Shrubby Bushclover (Asia): showy flowers, shrublike habit	Baptisia spp. Thermopsis villosa Amsonia tabernaemontana	Wild Indigo: showy flowers, shrublike habit Carolina Bushpea: showy flowers, shrublike habit Bluestar: showy flowers, shrublike habit	yes	bees, butterflies bees, butterflies bees, butterflies
Leucanthemum vulgare (Chrysanthemum leucanthemum)	Oxeye Daisy (Eurasia): white daisy flowers	Erigeron pulchellus Boltonia asteroides Symphyotrichum (Aster) ericoides	Robin's Plantain: white daisy flowers, spring Boltonia: white daisy flowers, late summer White Heath Aster: white daisy flowers, dry soil, fall	yes yes	bees, butterflies bees, butterflies bees, butterflies
Lysimachia nummularia	Creeping Jenny (Europe): groundcover, sun or shade	Chrysogonum virginianum var. australe Phlox bifida Sedum ternatum Tiarella cordifolia	Green-and-gold: evergreen herb, yellow flowers, groundcover, part sun Glade Phlox: groundcover sun, pale blue flowers Woodland Stonecrop: evergreen groundcover, white flowers Creeping Foamflower: evergreen groundcover, showy flowers	yes	butterflies butterflies
Lythrum salicaria	Purple Loosestrife (Eurasia): showy flowers, wet soil, long bloom	Liatris spp.  Lobelia spp. Eupatorium spp. Chelone spp. Physostegia virginiana Conoclinium coelestinum Asclepias incarnata Asclepias purpurascens Lysimachia ciliata	Blazing Star, Gayfeather: showy purple flowers, various species bloom over long period summer-fall  Lobelia, Cardinal Flower: showy blue or red flowers, moist-wet soil Joe-Pye-weed: showy purple flowers, moist-wet soil  Turtlehead: showy white or pink flowers, wet soil  Obedient Plant: showy pink flowers, moist soil  Mistflower: showy blue flowers, moist-wet soil  Swamp Milkweed: showy pink flowers, moist-wet soil  Purple Milkweed: rose-purple flowers, moist-dry soil  Fringed Loosestrife: showy yellow flowers, moist-wet soil	yes yes yes yes yes	bees, butterflies hummingbirds, butterflies bees, butterflies butterflies bees bees, butterflies bees, butterflies bees, butterflies bees, butterflies bees bees bees
Muscari neglectum (M. atlanticum)	<b>Grape Hyacinth</b> (Europe): blue flowers, spring bulb	Camassia scilloides Mertensia virginica Iris cristata	Wild Hyacinth: blue flowers, spring bulb Virginia Bluebells: showy blue spring flowers Crested Iris: showy blue spring flowers	yes	bees, butterflies bees bees
Myosotis scorpioides	Forget-me-not (Eurasia): small annual, blue flowers	Collinsia verna Polemonium reptans	Blue-eyed Mary: small annual, blue/white flowers Jacobs Ladder: small perennial, blue flowers	yes	bees bees
Ornithogalum umbellatum	<b>Star-of-Bethlehem</b> (Europe): white spring flowers, bulb	Claytonia virginica Thalictrum thalictroides	Spring Beauty: white spring flowers, bulb Rue Anemone: white spring flowers, long bloom	yes	bees bees
Polygonum cuspidatum	Japanese Knotweed, Fleeceflower, Mexican Bamboo: tall, white summer flower panicles, shrublike	Aruncus dioicus Veronicastrum virginicum Ageratina altissima Cimicifuga racemosa Clethra alnifolia Itea virginica	Goat's-beard: tall, white summer flower panicles Culver's Root: tall, white summer flower spires White Snakeroot: tall, white fall flowers Black Snakeroot: tall white summer flower spires Summersweet: shrub, fragrant white summer flowers Virginia Sweetspire: shrub, white summer flowers, fall color	yes yes yes yes yes	bees bees, butterflies bees, butterflies bees, butterflies bees, butterflies bees



	Exotic Pest Plant		Native Plant Alternative(s)				
	SCIENTIFIC NAME	COMMON NAME (ORIGIN)	SCIENTIFIC NAME	COMMON NAME	CULTIVAR	WILDLIFE VALUE	
	GRASSES						
2	Arundo donax	Giant Reed, Reed Grass (India): tall bamboo grass	Arundinaria gigantea Saccharum (Erianthus) giganteum Andropogon gerardii Sorghastrum nutans	River Cane: tall bamboo grass Sugarcane Plumegrass: tall grass, fluffy seedheads Big Bluestem: tall grass, colorful foliage Indian Grass: tall grass, colorful flowers	yes	butterflies birds birds	
1	Imperata cylindrica	Cogon Grass, Japanese Bloodgrass: short ornamental grass, red foliage	Panicum virgatum Bouteloua curtipendula	'Rotstrahlbusch', 'Hanse Herms', 'Shenandoah', 'Squaw', 'Rehbraun' - Red Switch Grass: red fall foliage, short grass Sideoats Grama: red flowers, seed stalks, short grass	yes		
2	Miscanthus sinensis including var. gracillimus, var. variegatus, var. zebrinus	Zebra or Eulalia Grass, Chinese Silvergrass (Asia): ornamental grass	Saccharum (Erianthus) giganteum Schizachyrium scoparium Sorghastrum nutans Panicum virgatum Andropogon glomeratus Andropogon ternarius Muhlenbergia capillaris	Sugarcane Plumegrass: fluffy seedheads, tall, wet - dry soil Little Bluestem: colorful foliage, seedheads, short grass Indian Grass: colorful flowers, regular soil moisture Switchgrass: colorful foliage, upright habit, seedheads Bushy Bluestem: fluffy seedheads, wet - moist soil Splitbeard Bluestem: unique seedheads, dry soil, short grass Pink Muhly Grass: colorful flowers, wiry foliage, short grass	yes yes yes	birds, butterflies birds birds birds birds birds birds	

#### **Medicinal & Culinary Invasive Plants**

- 2 Glechoma hederacea, Ground Ivy or Creeping Charlie, is often grown as a medicinal plant. Many native plants are well known for their medicinal qualities and may serve in place of nonnative species.
- [3] Mentha spicata, Spearmint, and [2] Mentha x piperita, Peppermint, are used as culinary herbs. If you choose to grow these species, please keep them carefully contained in pots and dispose of cuttings or discarded plants responsibly to prevent their spread.

#### **TN-EPPC Co-sponsors**

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#### www.picktnproducts.org

- Perennial Plant Society of Middle Tennessee
- Tennessee Native Plant Society

#### **Nomendature**

 ITIS, Integrated Taxonomic Information System

#### **Citations**

- Pimentel, D., R. Zuniga, and D. Morrison. "Update on the Environmental and Economic Costs Associated with Alien-Invasive Species in the United States." Ecological Economics 52 (2004): 273-288.
- Reichard, Sarah H. "A Method for Evaluating Plant Invasiveness." Public Garden 14, no. 2 (1999): 18-21.

## **Native Plant Culture References**

All plants listed are native to Tennessee or the southeast and grow well in Tennessee. Many of the native plants listed as substitutes for one exotic invasive may also be successful alternatives for others. A few of the suggested natives, particularly vines, may display aggressive tendencies in a managed garden. Before choosing any native plant, it is wise to become familiar with its growth habit and preferred growing conditions. To find photographs, full descriptions, and culture recommendations for the plants suggested here, please consult one of these or other native plant gardening texts.

#### Allan M. Armitage

Armitage's Native Plants for North American Gardens, 2006

#### William Cullina

Growing & Propagating Wildflowers, 2000 Native Trees, Shrubs & Vines, 2002 Native Ferns, Moss & Grasses, 2008

#### Leonard Foote & Samuel Jones

Gardening with Native Wildflowers, 1990 Native Shrubs & Woody Vines of the Southeast, 1989

#### Margie Hunter

Gardening with the Native Plants of Tennessee: The Spirit of Place, 2002

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#### Guy Sternberg & Jim Wilson

Landscaping with Native Trees, 1995

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