

# PlantRight: Partnering to Stop the Sale of Invasive Plants



Stephanie Falzone  
Project Manager

*November 4, 2016*

# A bit about me....





Nursery Survey



Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

Plant Right has identified several alternative plants that are native to California and are highly resistant to pests and diseases. These plants are suggested as alternatives to invasive garden plants. The table below provides a list of these alternative plants, their characteristics, and their distribution in California.

Alternative Species	Suggested Alternative	Characteristics	Native Distribution
<p><b>Alternanthera versicolor</b>            Alternanthera versicolor is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases. It is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases.</p>	<p><b>Alternanthera versicolor</b>            Alternanthera versicolor is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases. It is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases.</p>	<p>Alternanthera versicolor is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases. It is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases.</p>	<p>Alternanthera versicolor is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases. It is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases.</p>
<p><b>Coreopsis grandiflora</b>            Coreopsis grandiflora is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases. It is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases.</p>	<p><b>Coreopsis grandiflora</b>            Coreopsis grandiflora is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases. It is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases.</p>	<p>Coreopsis grandiflora is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases. It is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases.</p>	<p>Coreopsis grandiflora is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases. It is a highly resistant and pest-free plant. It is a native plant of California and is highly resistant to pests and diseases.</p>

Plant List



Continuing Education



Plant Risk Evaluator (PRE)



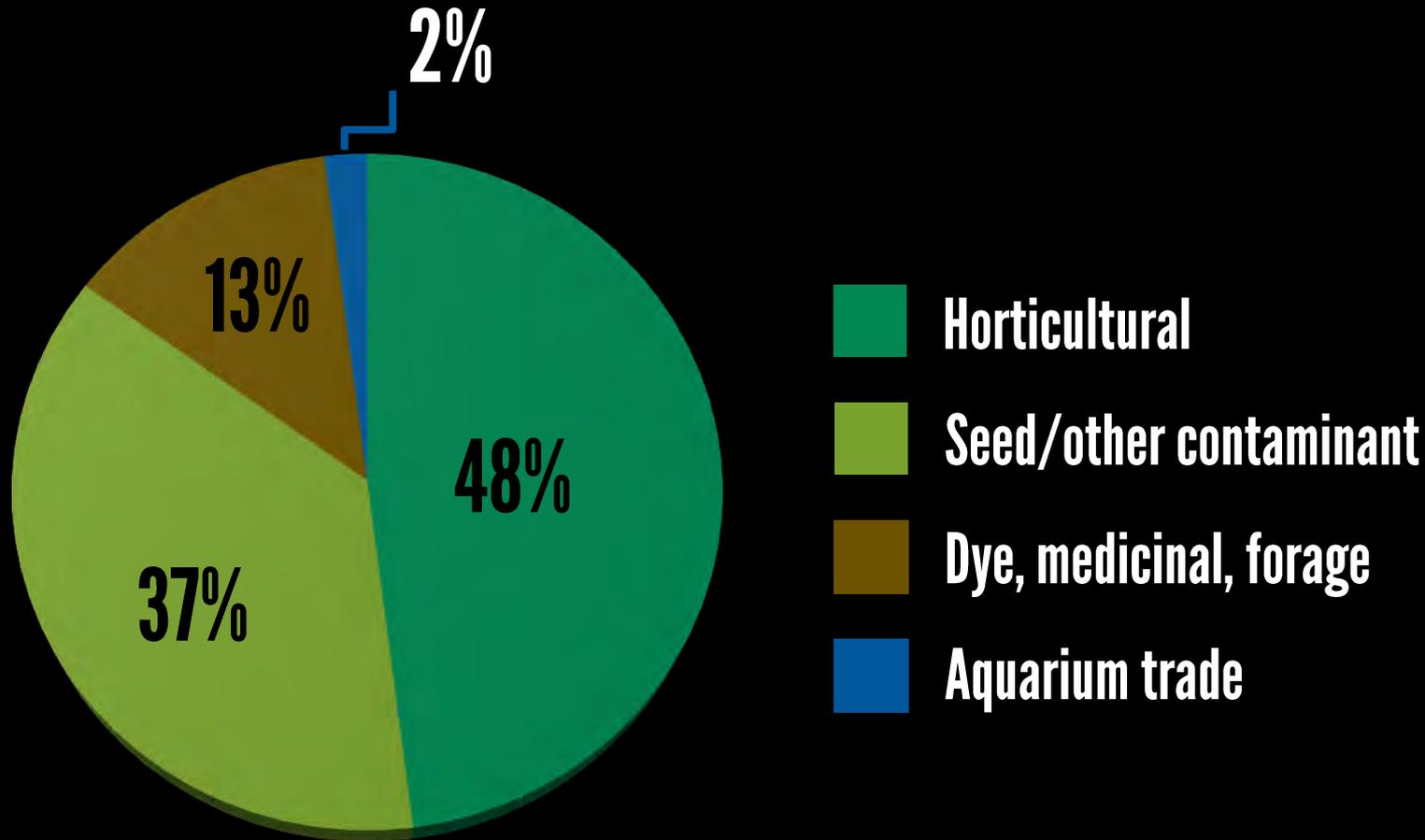
Other Outreach



**Sustainable Conservation helps California thrive by uniting people to solve the toughest challenges facing our land, air, and water.**



# Invasive Plant Pathways (California)



*(Bell et al., 2003)*



Collaborative  
Voluntary  
Science-based

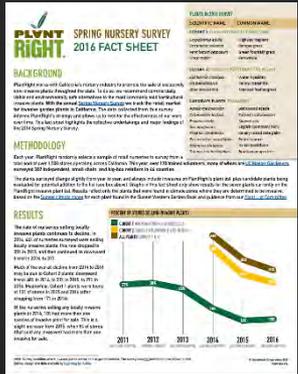
## Industry

## Nonprofits

## Government

## Science





# Nursery Survey



# Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

Legend

Plant Name	Native Plant Society	California Native Plant Society	California Native Plant Society	California Native Plant Society
<b>Alternatives</b>	<ul style="list-style-type: none"> <li>Alternatives to <i>Impatiens</i>: <i>Impatiens</i> is a highly invasive species that can be replaced by native alternatives such as <i>Impatiens</i> (California Native Plant Society).</li> </ul>	<ul style="list-style-type: none"> <li>Alternatives to <i>Impatiens</i>: <i>Impatiens</i> is a highly invasive species that can be replaced by native alternatives such as <i>Impatiens</i> (California Native Plant Society).</li> </ul>	<ul style="list-style-type: none"> <li>Alternatives to <i>Impatiens</i>: <i>Impatiens</i> is a highly invasive species that can be replaced by native alternatives such as <i>Impatiens</i> (California Native Plant Society).</li> </ul>	<ul style="list-style-type: none"> <li>Alternatives to <i>Impatiens</i>: <i>Impatiens</i> is a highly invasive species that can be replaced by native alternatives such as <i>Impatiens</i> (California Native Plant Society).</li> </ul>
<b>Alternatives</b>	<ul style="list-style-type: none"> <li>Alternatives to <i>Impatiens</i>: <i>Impatiens</i> is a highly invasive species that can be replaced by native alternatives such as <i>Impatiens</i> (California Native Plant Society).</li> </ul>	<ul style="list-style-type: none"> <li>Alternatives to <i>Impatiens</i>: <i>Impatiens</i> is a highly invasive species that can be replaced by native alternatives such as <i>Impatiens</i> (California Native Plant Society).</li> </ul>	<ul style="list-style-type: none"> <li>Alternatives to <i>Impatiens</i>: <i>Impatiens</i> is a highly invasive species that can be replaced by native alternatives such as <i>Impatiens</i> (California Native Plant Society).</li> </ul>	<ul style="list-style-type: none"> <li>Alternatives to <i>Impatiens</i>: <i>Impatiens</i> is a highly invasive species that can be replaced by native alternatives such as <i>Impatiens</i> (California Native Plant Society).</li> </ul>

# Plant List



# Continuing Education



# Plant Risk Evaluator (PRE)



# Other Outreach



# Annual Nursery Survey



# 2016 Spring Nursery Survey

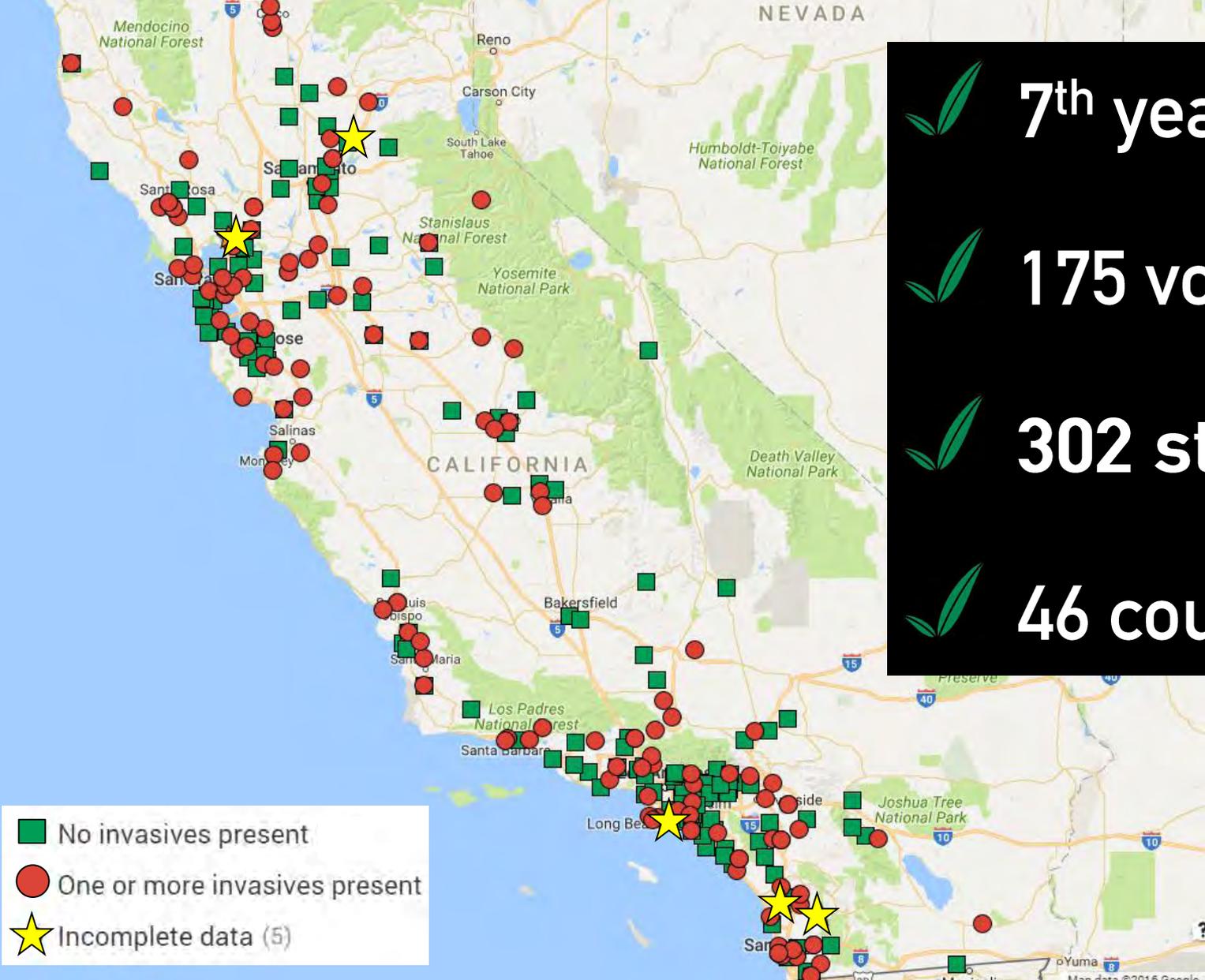
Purpose:

- ✔ Track retail market
- ✔ Update plant list
- ✔ Inform strategy



Bobbie Wright

# 2016 Spring Nursery Survey



7<sup>th</sup> year

175 volunteers

302 stores!

46 counties

- No invasives present
- One or more invasives present
- ★ Incomplete data (5)

# Cohort 1 (Listed since 2006)



Highway  
iceplant

*Carpobrotus  
edulis*



Periwinkle

*Vinca  
major*



Green  
fountain  
grass

*Pennisetum  
setaceum*



Pampas  
grass

*Cortaderia  
selloana*

# Cohort 2 (Added in 2014)



**Mexican  
feathergrass**

*Stipa/Nassella  
tenuissima*



**Water  
hyacinth**

*Eichhornia  
crassipes*

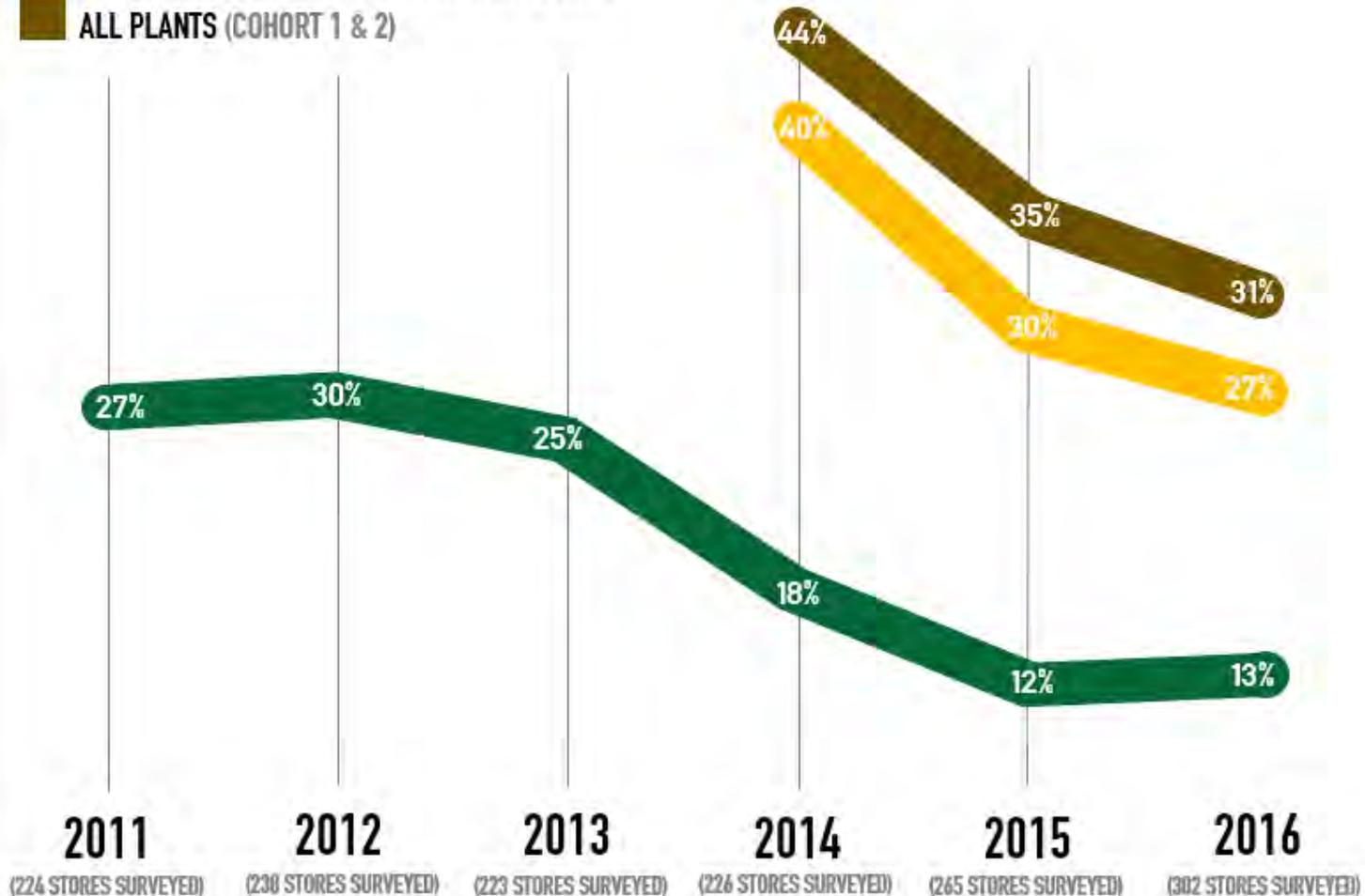


**Yellow water  
iris**

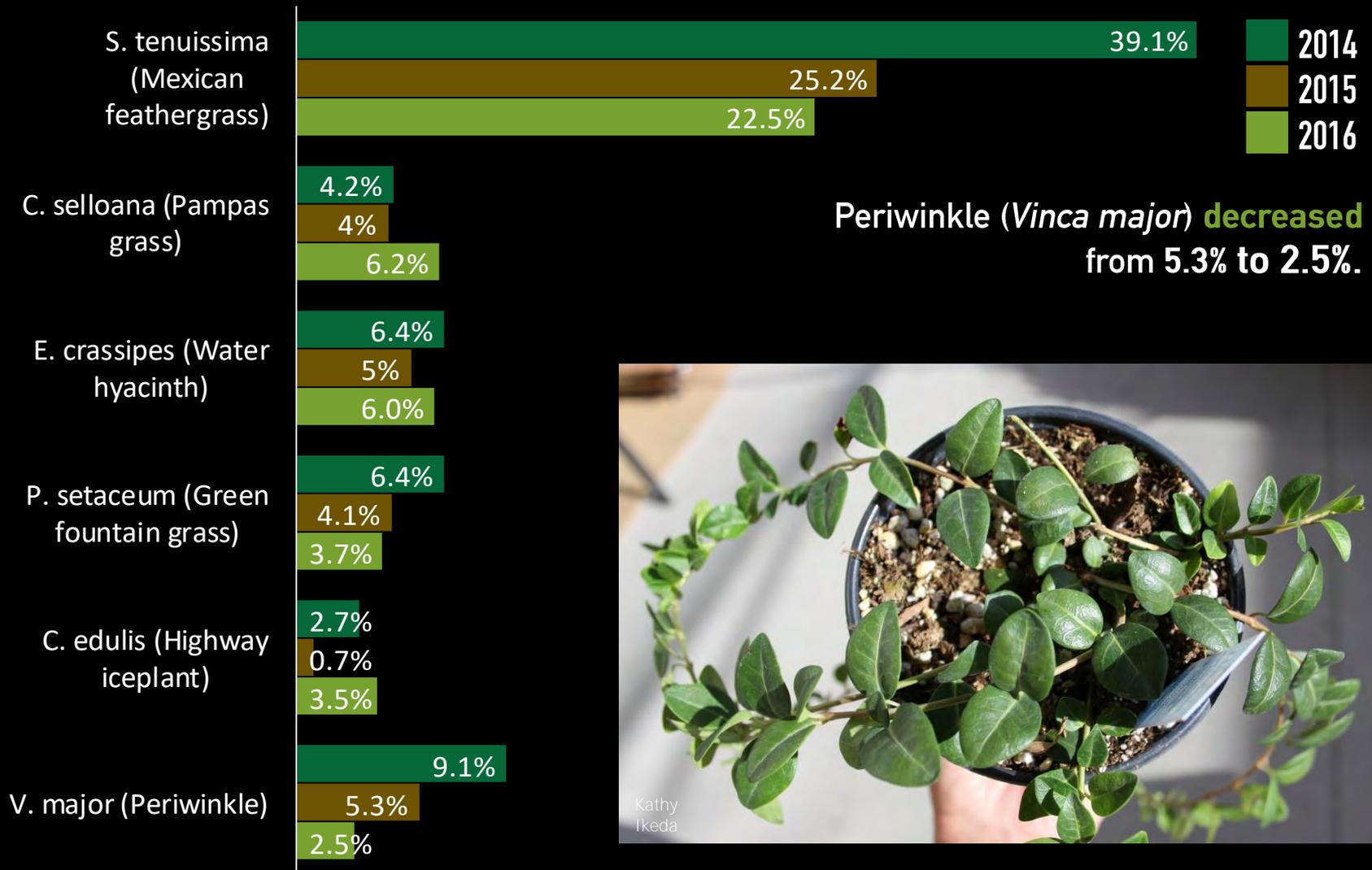
*Iris  
pseudacorus*

# Overall | % of Stores Selling Invasives

- COHORT 1 (ON PLANTRIGHT LIST SINCE 2006)
- COHORT 2 (ADDED TO PLANTRIGHT LIST IN 2014)
- ALL PLANTS (COHORT 1 & 2)



# 2014-2016: Presence of All Plants at Retail



# Store Types

✓ Big box stores



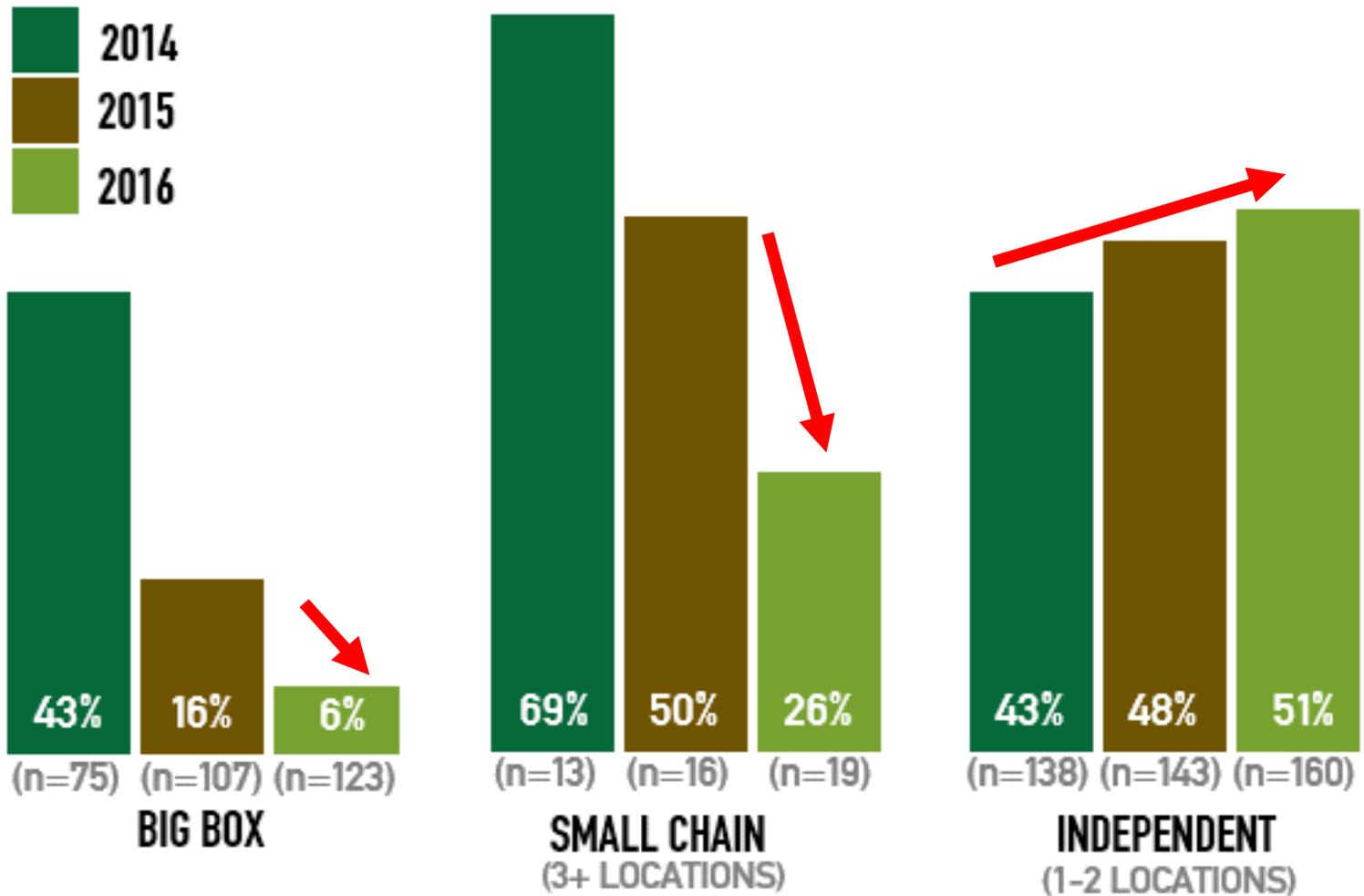
✓ Small Chain



✓ Independent



# Results by Store Type



# Want to know more?

Fact Sheet

Full Report



## SPRING NURSERY SURVEY 2016 FACT SHEET

### BACKGROUND

PlantRight works with California's nursery industry to promote the sale of exclusively non-invasive plants throughout the state. To do so, we recommend commercially viable and environmentally safe alternatives to the most commonly sold horticultural invasive plants. With the annual [Spring Nursery Survey](#) we track the retail market for invasive garden plants in California. The data collected from this survey informs PlantRight's strategy and allows us to monitor the effectiveness of our work over time. This fact sheet highlights the collective undertakings and major findings of the 2016 Spring Nursery Survey.

### METHODOLOGY

Each year, PlantRight randomly selects a sample of retail nurseries to survey from a total pool of over 1,500 stores operating across California. This year, over 170 trained volunteers, many of whom are [UC Master Gardeners](#), surveyed 302 independent, small chain, and big-box retailers in 46 counties.

The plants surveyed change slightly from year to year, and always include invasives on PlantRight's plant list, plus candidate plants being evaluated for potential addition to the list (see box above). Graphs in this fact sheet only show results for the seven plants currently on the PlantRight invasive plant list. Results reflect only the plants that were found in climate zones where they are determined to be invasive, based on the [Sunset climate zones](#) for each plant found in the Sunset Western Garden Book and guidance from our [Plant List Committee](#).

### RESULTS

The rate of nurseries selling locally invasive plants continues to decline. In 2014, 44% of nurseries surveyed were selling locally invasive plants; this rate dropped to 35% in 2015, and then continued its downward trend in 2016, to 31%.

Much of the overall decline from 2014 to 2016 may be due to Cohort 2 plants' downward trend: 40% in 2014, to 30% in 2015, to 27% in 2016. Meanwhile, Cohort 1 plants were found at 13% of stores in 2015 and 2016 (after dropping from 17% in 2014).

Of the nurseries selling any locally invasive plants in 2016, 10% had more than one species of invasive plant for sale. This is a slight increase from 2015, when 8% of stores (that sold any invasives) had more than one invasive for sale.

#### PLANTS IN 2016 SURVEY

##### SCIENTIFIC NAME COMMON NAME

##### COHORT 1: ON PLANTRIGHT LIST SINCE 2006

<i>Carpobrotus edulis</i>	Highway iceplant
<i>Cortaderia selloana</i>	Pampas grass
<i>Pennisetum setaceum</i>	Green fountain grass
<i>Viola major</i>	Periwinkle

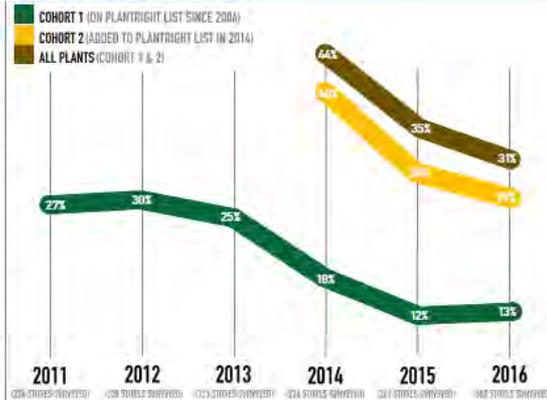
##### COHORT 2: ADDED TO PLANTRIGHT LIST IN 2014

<i>Eichhornia crassipes</i>	Water hyacinth
<i>Iris pseudacorus</i>	Yellow water iris
<i>Stipa tenuissima</i>	Mexican feathergrass

##### CANDIDATE PLANTS: EVALUATED

<i>Acacia melanoxylon</i>	Blackwood acacia
<i>Cotoneaster lacteus</i>	Parney's cotoneaster
<i>Fraxinus uhdei</i>	Shamel ash
<i>Ilex aquifolium</i>	English (common) holly
<i>Phoenix canariensis</i>	Canary Island date palm
<i>Plectocochys serpyllifolia</i>	Pette licorice
<i>Rhamnus alaternus</i>	Italian buckthorn
<i>Schinus terebinthifolius</i>	Brazilian peppertree

#### PERCENT OF STORES SELLING INVASIVE PLANTS



Note: Survey identifies where invasive plants are for sale at garden centers. The survey does not identify volume of plants sold. Survey design and data analysis by [Learning for Action](#).

## Results of PlantRight 2016 Spring Retail Nursery Survey

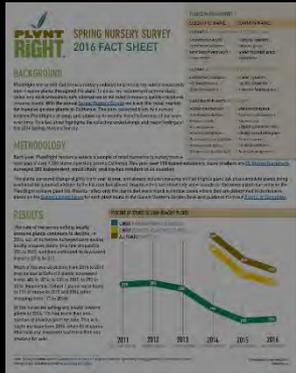
Prepared For  
**Sustainable Conservation**

Prepared By  
**Learning for Action**

September 2016



Learning for Action enhances the impact and sustainability of social sector organizations through highly customized research, strategy development, and evaluation services.



Nursery Survey



Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

Legend: Invasive (red dot), Native (green dot), Non-Invasive (blue dot), Non-Native (yellow dot), Invasive (red dot), Native (green dot), Non-Invasive (blue dot), Non-Native (yellow dot).

Native Plants	Suggested Non-Invasive Alternatives	Invasive Alternatives	Native Alternatives
<b>Native Plant 1</b> Description of native plant 1.	<b>Suggested Non-Invasive Alternatives</b> List of suggested alternatives for native plant 1.	<b>Invasive Alternatives</b> List of invasive alternatives for native plant 1.	<b>Native Alternatives</b> List of native alternatives for native plant 1.
<b>Native Plant 2</b> Description of native plant 2.	<b>Suggested Non-Invasive Alternatives</b> List of suggested alternatives for native plant 2.	<b>Invasive Alternatives</b> List of invasive alternatives for native plant 2.	<b>Native Alternatives</b> List of native alternatives for native plant 2.
<b>Native Plant 3</b> Description of native plant 3.	<b>Suggested Non-Invasive Alternatives</b> List of suggested alternatives for native plant 3.	<b>Invasive Alternatives</b> List of invasive alternatives for native plant 3.	<b>Native Alternatives</b> List of native alternatives for native plant 3.

Plant List



Continuing Education



Plant Risk Evaluator (PRE)



Other Outreach

# 2016 Plant List



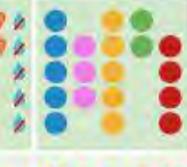
## Suggested Alternatives for Invasive Garden Plants

PlantRight's 2016 list of horticultural invasive plants identifies the highest priority invasive plants available for sale in California. If one of these plants is invasive in your climate zone, they should not be used in gardens or landscaping. Instead, consider one of the beautiful, non-invasive alternatives below.

Thank you for joining us to protect California's environment by Planting Right!

### Legend



Invasive Grasses	Suggested Non-invasive Alternatives	Featured Information	Suitable Climates
 <p><b>Green fountain grass</b> (<i>Pennisetum setaceum</i>) Invasive in climate zones: <span style="color: blue;">●</span> <span style="color: pink;">●</span> <span style="color: orange;">●</span> <span style="color: green;">●</span> <span style="color: red;">●</span></p>	<p><b>Oriental fountain grass</b> (<i>Pennisetum orientale</i>)</p> <p><b>Pennisetum 'Fireworks', 'Skyrocket' &amp; 'Fairy Tails'</b> (<i>Pennisetum x advena</i>, often mislabeled as <i>P. setaceum</i> cultivars)</p> <p><b>Purple fountain grass</b> (<i>Pennisetum macrostachys</i> 'Burgundy giant')</p> <p><b>California fescue</b> (<i>Festuca californica</i>)</p> <p><b>Pink muhly</b> (<i>Muhlenbergia capillaris</i> 'Regal Mist')</p>	<p>Compact, floriferous, cold hardy, very similar aesthetic and habit</p> <p>Cultivars, similar aesthetic and habit. 'Fireworks' is magenta striped with green and white. 'Skyrocket' is green with white edges, and 'Fairy Tails' is solid green.</p> <p>Cultivar, trim in winter for bright red new foliage, not frost hardy</p> <p>Shade tolerant grass, needs good drainage, tolerates mowing</p> <p>Fluffy pink cloud-like blooms, frost tolerant, needs drainage, good en masse</p>	
 <p><b>Mexican feathergrass</b> (<i>Stipa/Nassella tenuissima</i>) Invasive in climate zones: <span style="color: blue;">●</span> <span style="color: pink;">●</span> <span style="color: orange;">●</span> <span style="color: green;">●</span> <span style="color: red;">●</span></p>	<p><b>Blue grama grass</b> (<i>Bouteloua gracilis</i> 'Blonde Ambition')</p> <p><b>Alkali sacaton</b> (<i>Sporobolus airoides</i>)</p> <p><b>Mexican deer grass</b> (<i>Muhlenbergia dubia</i>)</p> <p><b>White awn muhly</b> (<i>Muhlenbergia capillaris</i> 'White Cloud')</p> <p><b>Autumn moor grass</b> (<i>Sesleria autumnalis</i>)</p>	<p>Attractive flowerheads, best when cut back in winter, cultivar of CA native</p> <p>Robust yet slower growing, does well in a range of soils</p> <p>Semi-evergreen mounder, likes well-drained soils, good en masse</p> <p>Fluffy white cloud-like flower heads, easy care</p> <p>Neat clumper, good en masse, tough</p>	
 <p><b>Pampas grass</b> (<i>Cortaderia selloana</i>) Invasive in climate zones: <span style="color: blue;">●</span> <span style="color: orange;">●</span> <span style="color: red;">●</span></p>	<p><b>Foerster's reed grass</b> (<i>Calamagrostis x acutiflora</i> 'Karl Foerster')</p> <p><b>Deer grass</b> (<i>Muhlenbergia rigens</i>)</p> <p><b>Lomandra hystrix</b> 'Katie Belles' and 'Tropicbelle'</p> <p><b>Lindheimer's muhly grass</b> (<i>Muhlenbergia lindheimeri</i>)</p> <p><b>Giant sacaton grass</b> (<i>Sporobolus wrightii</i>)</p>	<p>Stately white plumes from summer until frost, durable and showy</p> <p>Smaller form with simple, clean plumes, easy to grow</p> <p>Tidy, tough, 4 ft. with low spring/summer flowers, not for salty soils</p> <p>Graceful plumes to 7 ft., 3-4 ft. foliage, tough, evergreen</p> <p>Deciduous 4 ft. foliage, 6 ft. with plumes, appreciates extra water</p>	
Invasive Water Plants	Suggested Non-invasive Alternatives	Featured Information	Suitable Climates
 <p><b>Water hyacinth</b> (<i>Eichhornia crassipes</i>) Invasive in climate zones: <span style="color: blue;">●</span> <span style="color: orange;">●</span> <span style="color: red;">●</span></p>	<p><b>King of Siam water lily</b> (<i>Nymphaea</i> 'King of Siam')</p> <p><b>Pickerel weed</b> (<i>Pontederia cordata</i>)</p> <p><b>Cape pondweed</b> (<i>Aponogeton distachyos</i>)</p>	<p>Large, double purple flowers, floating leaves, roots in bottom soil</p> <p>Similar flowers, not free-floating, good in ponds, winter dormant, spreads vegetatively</p> <p>Bright fragrant flowers, foliage floats on water, dormant in winter</p>	
 <p><b>Yellow water iris</b> (<i>Iris pseudacorus</i>) Invasive in climate zones: <span style="color: blue;">●</span> <span style="color: orange;">●</span> <span style="color: red;">●</span></p>	<p><b>Canna species</b> (<i>Canna</i> hybrids)</p> <p><b>Japanese iris</b> (<i>Iris ensata</i> and cultivars)</p> <p><b>Laevigata iris</b> (<i>Iris laevigata</i> and cultivars)</p>	<p>Many colors and sizes available, robust in ponds, needs to be wintered indoors</p> <p>Best on pond margins, not to be submerged, showy flowers</p> <p>Grows in shallow water, available flower colors are purple, red or white; poisonous</p>	

Find your **Sunset** climate zone: <http://www.sunset.com/garden/climate-zones>

Photo credits | Top to bottom: John Randall, The Nature Conservancy Flickr user: a2ka2k, Flickr user: Arthur Chapman, Ted Center, USDA, Bill Welch.

[www.PlantRight.org](http://www.PlantRight.org)

# 2016 Plant List



## Why using non-invasive plants matters:



When invasive plants spread into natural areas, they push out native plants and wildlife. This impairs waterways, increases fire severity, harms ecosystems and reduces biodiversity. It also creates financial burden on taxpayers; in California, over \$80 million and countless hours of painstaking labor is spent each year addressing invasive plants. This does not include financial losses from reduced agricultural yields, land values, and recreational opportunities.

By Planting Right, you are protecting our natural resources, local ecosystems and our economy.

Invasive Groundcovers	Suggested Non-invasive Alternatives	Featured Information	Suitable Climates
 <p><b>Highway iceplant</b> (<i>Carpobrotus edulis</i>)</p> <p>Invasive in climate zones: ● ●</p>	<p>Trailing iceplant (<i>Delosperma cooperi</i>)</p> <p>Wild strawberry (<i>Fragaria chiloensis</i>, <i>F. californica</i>)</p> <p>White trailing iceplant (<i>Delosperma 'Alba'</i>)</p> <p>Rosea iceplant (<i>Drosanthemum floribundum</i>)</p> <p>Prostrate coyote bush (<i>Baccharis pilularis</i> 'Twin Peaks' or 'Pigeon Point')</p> <p>Prostrate grevillea (<i>Grevillea x gaudichaudii</i>)</p>	<p>Showy pink flowers, low maintenance, cold-hardy</p> <p>Edible, best in sandy or well-drained soil, tolerates drought or moderate water</p> <p>White flowers, attracts bee pollinators, small-leaved</p> <p>Good for erosion control, tough, moderate to minimal water, can be weedy on coast</p> <p>Easy care, habitat plant, drought tolerant on coast, reliably deer-proof, good for slope stabilization</p> <p>Colorful, easy-care, best in part shade, spreads to 15 ft. wide, moderate water</p>	
 <p><b>Periwinkle</b> (<i>Vinca major</i>)</p> <p>Invasive in climate zones: ● ● ● ●</p>	<p>Dwarf periwinkle (<i>Vinca minor</i>)</p> <p>Hardy geranium (<i>Geranium 'Rozanne'</i>)</p> <p>Serbian bellflower (<i>Campanula poscharskyana</i>)</p> <p>Star / Asian jasmine (<i>Trachelospermum jasminoides</i>/ <i>Trachelospermum asiaticum</i>)</p> <p>Ceanothus groundcovers (<i>Ceanothus</i> spp.)</p> <p>Hummingbird sage (<i>Salvia spathacea</i>)</p> <p>Taiwan raspberry (<i>Rubus pentalobus</i>)</p>	<p>Nice in containers or groundcover in a wide range of soils, long-blooming, blue flowers</p> <p>Reliable spring to early summer blooms, medium water, hardy, 2 ft. tall x 3 ft. wide</p> <p>Similar flowers in spring to early summer, low water, fast growth, 8" tall, spreading</p> <p>Fragrant and abundant flowers, shrub-like, grows as mat or on trellises, 2 ft. x 10 ft.</p> <p>Blue flowers, low water, slow growing, native w/ many varieties; ask for local options</p> <p>Habitat plant, showy flowers and foliage, great for dry shade under oaks</p> <p>Dense, mild autumn color, creeps over rocks, tough groundcover, slower growing</p>	



Looking for more California native plants? Visit a PlantRight Retail Nursery Partner for great, local planting ideas – view locations near you at [PlantRight.org/nursery-partners](http://PlantRight.org/nursery-partners). PlantRight encourages gardeners to see what native plants do great in your neighborhood at: [calscape.cnps.org](http://calscape.cnps.org). Find your local California Native Plant Society Chapter at [cnps.org](http://cnps.org).

PlantRight has 'retired' the following invasive plants from this list as retailers have largely phased them out of California's nursery trade. These should not be used in gardens or landscaping. For information on these retirees, visit [www.PlantRight.org](http://www.PlantRight.org).

Do Not Use

- Capeweed (*Arctotheca calendula*)
- Russian olive (*Elaeagnus angustifolia*)
- Bridal veil broom (*Retama monosperma*)
- Arundo, giant reed (*Arundo donax*)
- Blue gum eucalyptus (*Eucalyptus globulus*)
- Scarlet wisteria (*Sesbania punicea*)
- Jubata grass (*Cortaderia jubata*)
- French broom (*Genista monspessulana*)
- Spanish broom (*Spartium junceum*)
- Scotch broom (*Cytisus scoparius*)
- Crystalline iceplant (*Mesembryanthemum crystallinum*)
- Saltcedar (*Tamarix ramosissima*)
- Portuguese broom (*Cytisus striatus*)
- Myoporum (*Myoporum laetum*)
- Chinese tallow tree (*Triadica sebifera*)

# Criteria for Retirement

Found at <1% of retail nurseries for 3 years in a row

Retired

**PLVNT RIGHT. Invasive Garden Plants**

PlantRight's 2016 list of horticultural invasive plants identifies the highest priority invasive plants available for sale in California. If you address plants in this list in your climate zone, they should not be used in gardens or landscaping. Instead, consider one of the beautiful, non-invasive alternatives below. Thank you for joining us to protect California's environment by Planting Right!

**Legend**

- South Coast (South Coast 1A-1F)
- Desert (Desert Zones 10A-10)
- Sierra & Coastal Mountains (Sierra & Coastal 7A-7)
- North & Central Coast and Delta (Sierra Zones 1A-1C)
- Low Water Use
- CA Native

Invasive Group	Suggested Non-Invasive Alternatives	Featured Information	Suitable Climate
<b>Green fountain grass (Pennisetum)</b>	<b>Oriental fountain grass (Pennisetum orientale)</b> <b>Pennisetum 'Rubrum', 'Skunkhead', 'Virgatum' &amp; 'Tiger Tail'</b> (Pennisetum hybrids, often mislabeled as Pennisetum 'Rubrum')	Compact, bushy, cold hardy, very similar aesthetic and habit Semi-culm, very similar aesthetic and habit	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Purple fountain grass (Pennisetum maculatum)</b>	<b>Purple fountain grass (Pennisetum maculatum)</b> , <b>Burgundy giant</b>	Similar cultivar with burgundy tones. Firm in winter for bright red new foliage	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>California fescue (Festuca californica)</b>	<b>California fescue (Festuca californica)</b>	Single culm grass, needs good drainage, tolerates mowing	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Pink mulla (Panicum capillare 'Fog Hill')</b>	<b>Pink mulla (Panicum capillare 'Fog Hill')</b>	Fully pink cloud-like blooms, fast tiller, needs drainage, good in mass	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Blue grass (Panicum gracile)</b>	<b>Blue grass (Panicum gracile)</b> , <b>Yonder American</b>	Attractive florets, best when cut back in winter	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Alkali sacaton (Sporobolus airoides)</b>	<b>Alkali sacaton (Sporobolus airoides)</b>	Robust yet slower growing, stem walk in a range of soil	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Mexican bear grass (Nolina longifolia)</b>	<b>Mexican bear grass (Nolina longifolia)</b>	Semi-evergreen rosettes, blue with distinct talls, good in mass	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>White pan mulla (Spartocarpus copifera 'White Cloud')</b>	<b>White pan mulla (Spartocarpus copifera 'White Cloud')</b>	Fully white cloud-like flower heads, easy care	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Autumn moor grass (Deschampsia autureata)</b>	<b>Autumn moor grass (Deschampsia autureata)</b>	Fast clumper, good in mass, tough	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Reinhardt's reed grass (Chloris macrostachya)</b>	<b>Reinhardt's reed grass (Chloris macrostachya)</b> , <b>Leaf Fencer?</b>	Stately white plumes from summer until frost, durable and showy	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Blue grass (Panicum gracile)</b>	<b>Blue grass (Panicum gracile)</b>	Sturdy form with simple, close blooms, easy to grow	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Comandra hybrid 'Violet Jewel' and 'Tropicella'</b>	<b>Comandra hybrid 'Violet Jewel' and 'Tropicella'</b>	Tall, upright, 4 ft. with long summer flowers, and for sunny soils	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Stiffstem's mealy grass (Muhlenbergia missouriensis)</b>	<b>Stiffstem's mealy grass (Muhlenbergia missouriensis)</b>	Direct of plumes to 7 ft., 4-6 ft. fringed, tough, long-term	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Great sacaton grass (Sporobolus airoides)</b>	<b>Great sacaton grass (Sporobolus airoides)</b>	Doublehead 4 ft. tall, 4 ft. with plumes, appropriate once winter	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Water hyacinth (Eichhornia crassipes)</b>	<b>King of Siam water lily (Nymphaea 'King of Siam')</b> <b>Pink lotus (Nymphaea 'Pink Lotus')</b> <b>Cape pondweed (Sagittaria distachya)</b>	Large, double purple flowers, floating leaves, roots in bottom soil Similar flowers, but free floating, good in ponds, winter dormant, spreads vegetatively Bright fragrant flowers, foliage floats on water, dormant in winter	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native
<b>Yellow water lily (Nymphaea 'Yellow')</b>	<b>Coma species (Coma hybrid)</b> <b>Japanese iris (Iris ensata and cultivars)</b> <b>Lampyris iris (Iris lampyris and cultivars)</b>	Many colors and sizes available, robust in ponds, needs to be wintered indoors Bulb on pond margins, not to be submerged, showy flowers Grows in shallow water, smaller flower colors are purple, red or white, pinkish	South Coast, Desert, Sierra & Coastal Mountains, North & Central Coast and Delta, Low Water Use, CA Native

Photo credit: Top left: Jason Bickel, The Nelson Conservatory, "Tiger Tail" (Pennisetum 'Tiger Tail'), 1/10/2016; Photo credit: Top right: Jason Bickel, The Nelson Conservatory, "Tiger Tail" (Pennisetum 'Tiger Tail'), 1/10/2016.

www.PlantRight.org

PROMOTING NONINVASIVE PLANTS FOR CALIFORNIA

**PLVNT RIGHT**

About Us

## Invasive Plants Rarely Sold at Nurseries

With the help of retailers, growers and landscaping professionals, the following invasive plants have largely been phased out of California's garden center supply chain, and replaced with noninvasive alternatives. Because these invasive garden plants are rarely sold at retail, we have "retired" them from our PlantRight List.

- Arundo, giant reed**  
Arundo donax  
Recommended alternatives to Arundo donax
- Salicoidar**  
Tamarix ramosissima  
Recommended alternatives to Tamarix ramosissima
- Blue gum eucalyptus**  
Eucalyptus globulus  
Recommended alternatives to Eucalyptus globulus

Log in

# Criteria for Addition

1. Known to be invasive somewhere in CA or is evaluated (PRE) as a high risk.
2. Sold at >3% of retail nurseries.
3. Invasive range is large enough to be significant to CA gardeners / landscape pros.

A photograph of two men in a vineyard. The man on the right, wearing a tan shirt and a hat, is pointing towards a young plant in the foreground. The man on the left, wearing a light blue shirt and a hat, is looking at the plant. A speech bubble is positioned above the man on the right, containing the text "We need to choose our battles carefully." The background shows rows of grapevines and a wooded area.

**We need to  
choose our  
battles carefully.**

# Want to know more?

medium.com/@plantright



PlantRight [Follow](#)

Working with California's nursery industry to promote non-invasive plants. [Enlist at plantright.org](#)  
Oct 7 · 5 min read

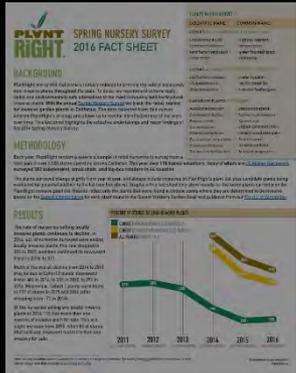
## Where invasive plants are sold in California —and how we know

This past spring, they were all over California. With clipboards, cameras, and data sheets in hand, they were searching at a nursery or garden center near you—for invasive plants.

The nursery survey is how we measure what is happening in California's retail nursery industry, and none of it would happen without our survey volunteers. This year 175 volunteers (many of them UC Master Gardeners) were trained by PlantRight to survey for invasive plants at retail locations throughout the state.

*Helping with the survey gives the UC Master Gardeners not only a chance to further their knowledge of invasive plants, but the opportunity to work with wonderful people at PlantRight. We find most nursery managers want to know more about the PlantRight program and are eager to get the helpful information on alternative plants which we are able to leave with them to help them educate their customers about growing choices.*

— Linda Haque, Ventura County Master Gardener and survey volunteer



Nursery Survey



Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

This table provides a list of suggested alternatives for various invasive garden plants. It includes columns for the invasive plant, the suggested alternative, and a legend indicating the plant's status in California.

Invasive Plant	Suggested Alternative	Legend
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native
Arundo donax	Arundo donax	Native

Plant List



Continuing Education



Plant Risk Evaluator (PRE)



Other Outreach

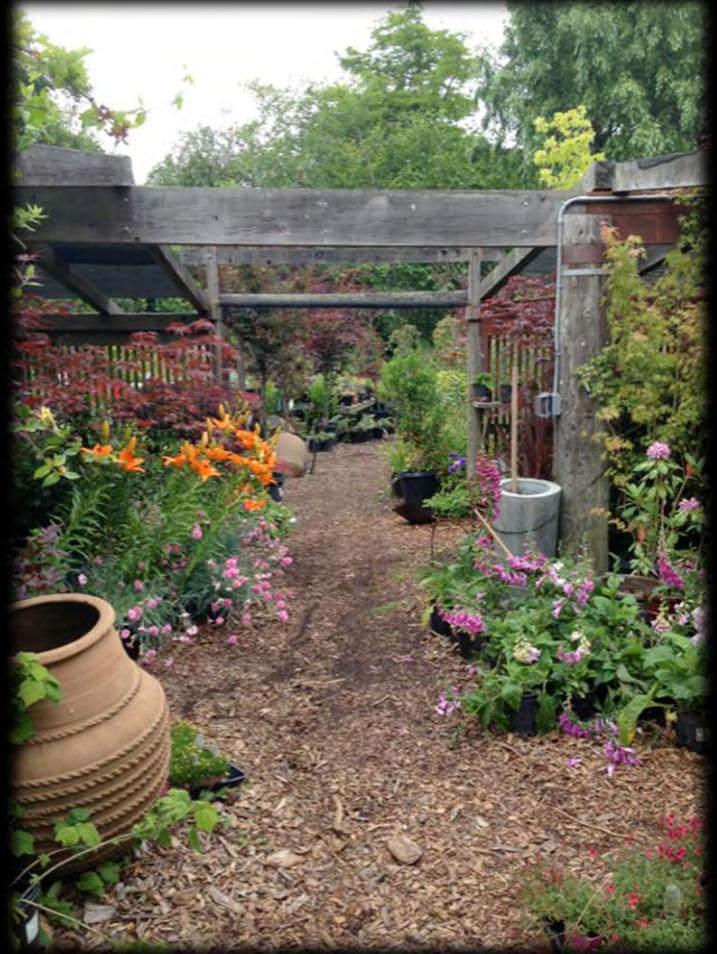
# Retail Nursery Partnership



# Retail Nursery Partnership

## STORES COMMIT TO:

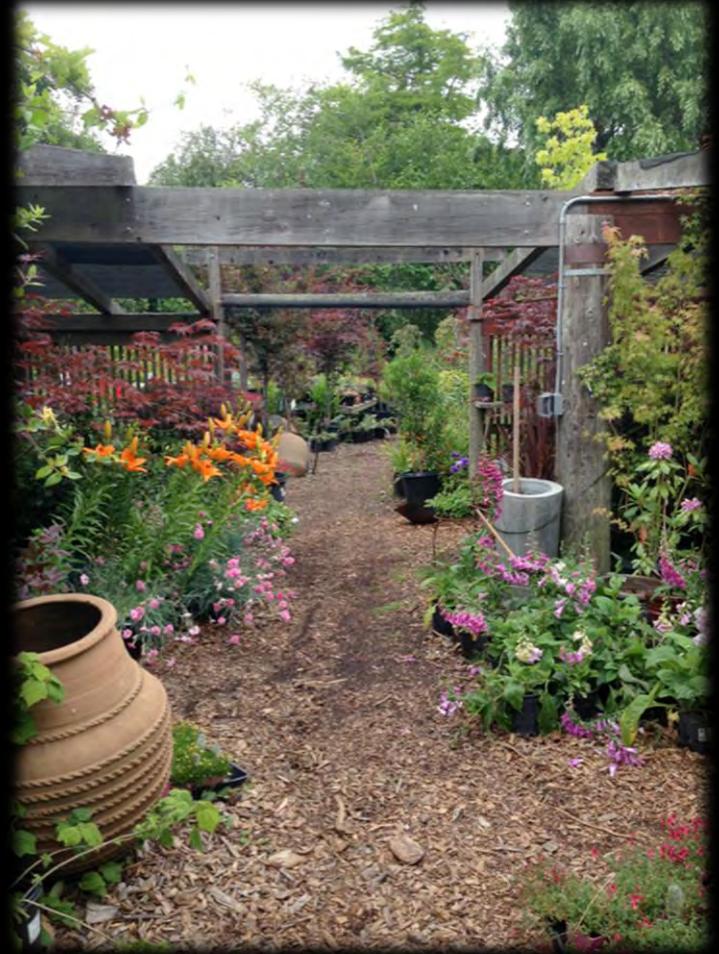
- **PlantRight pledge**
- **Phase out invasives**
- **Graduate buyers through PlantRight's online training**



# Retail Nursery Partnership

## STORES RECEIVE:

- Invasive plant expertise
- Educational resources
- Added to our online directory
- Recognition as leaders



# RNP Today

- ★ 22 partners
- ★ 455 store fronts



Roger's Gardens



City Farmers Nursery



McShane's Nursery

# Belmont Nursery

The "Go-To" Place for Plants

WATERWISE BOTANICALS

# S l o a t



Garden Center

# GREEN ACRES

NURSERY & SUPPLY

# NORTH PARK NURSERY

PLANTS  
GIFTS  
GARDEN  
SUPPLIES



1361  
**YAMAGAMI'S**  
**GARDEN CENTER**

NURSERY



# THE Plant FOUNDRY

Nursery & Store



# LOWE'S

ROGER'S  GARDENS.

# Orchard

est. 1931  
SUPPLY HARDWARE™

PAPIENHAUSEN  
HARDWARE

# EMIGH

ACE Hardware



# 7 Day

NURSERY

# High Country Nursery

Serving the San Jacinto Mountains since 1971



# Summer Winds

GARDEN CENTERS, INC.



# Mission Blue Nursery

near 3401 Bayshore Blvd. in Brisbane

# The GARDEN COMPANY

EXCEPTIONAL PLANTS & GIFTS

# City Farmers Nursery



# McSHANE'S

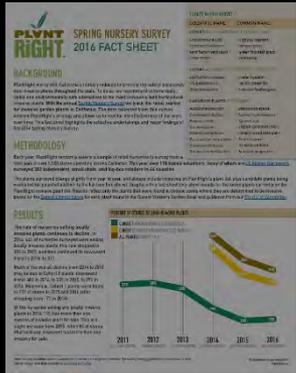
NURSERY  
EST. 2005  
& LANDSCAPE SUPPLY



# Big Oak Nursery

# Pietro Talini's Nursery

EST. 1976



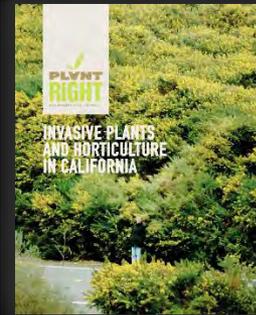
Nursery Survey



Retail Nursery Partners

A screenshot of a "Suggested Alternatives for Invasive Garden Plants" webpage. It features a table with columns for "Invasive Garden Plant", "Suggested Alternatives", and "Legend". The table lists various plants and their alternatives, with a map of California in the background.

Plant List



Continuing Education

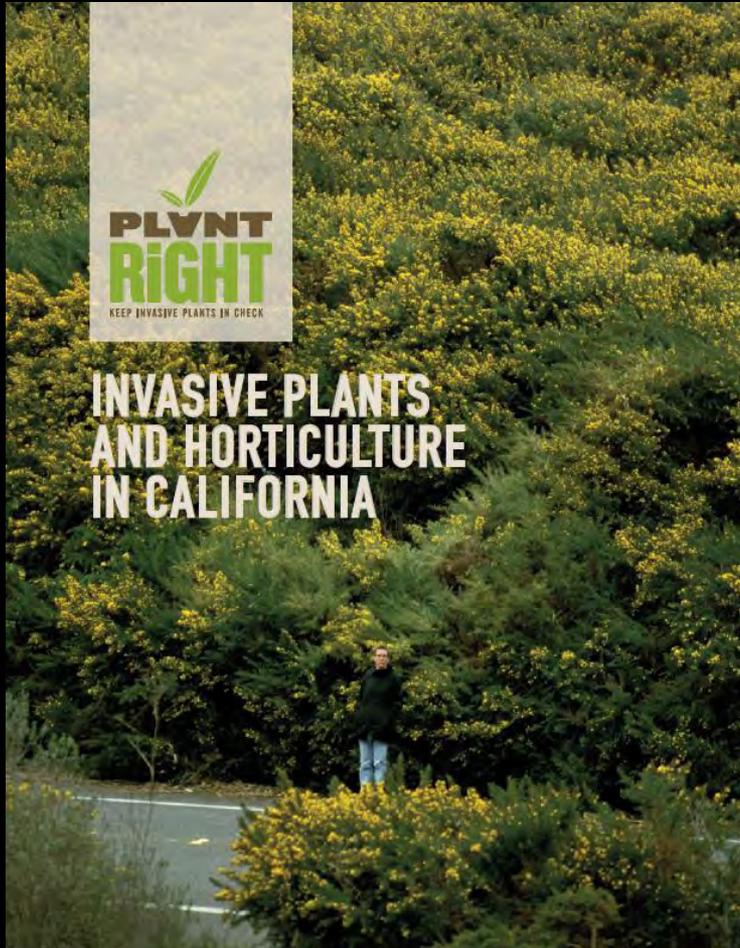


Plant Risk Evaluator (PRE)



Other Outreach

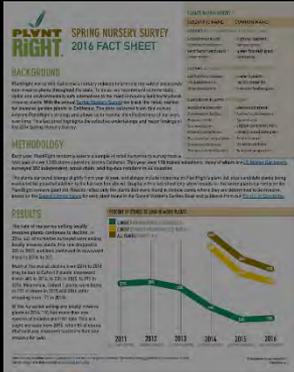
# Continuing Education



✓ Nursery and landscape trade

✓ Video and study guide

✓ Pledge



Nursery Survey



Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

**Legend**  
 Invasive: Red dot  
 Alternative: Green dot  
 Native: Blue dot  
 California Native: Yellow dot

Plant Name	Invasive	Alternative	Native	California Native
Arundo donax	●	●	●	●
Lythrum salicaria	●	●	●	●
Urtica dioica	●	●	●	●
... (many more rows) ...	●	●	●	●

Plant List



Continuing Education



Plant Risk Evaluator (PRE)



Other Outreach

# What's next for PlantRight?

- ✓ New website
- ✓ E-newsletter
- ✓ Plants of Concern/Plants of Interest
- ✓ Evaluating and adding more alternatives



**Want to get  
involved?**



Nursery Survey



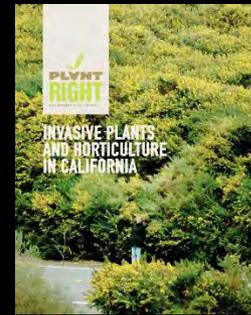
Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

Plant Right has compiled a list of suggested alternatives for the most common invasive garden plants. These plants are native to California and are easy to grow. They are also drought-tolerant and require little maintenance. The list includes the following plants:

Invasive Species	Suggested Alternative	Native Distribution
<p><b>Redwood</b>            Redwood is a large tree that grows in the coastal redwood forests of California. It is native to the coastal redwood forests of California.</p>	<p><b>California Redwood</b>            California Redwood is a large tree that grows in the coastal redwood forests of California. It is native to the coastal redwood forests of California.</p>	<p>California Redwood is native to the coastal redwood forests of California.</p>
<p><b>Blackberry</b>            Blackberry is a climbing vine that grows in the coastal redwood forests of California. It is native to the coastal redwood forests of California.</p>	<p><b>California Blackberry</b>            California Blackberry is a climbing vine that grows in the coastal redwood forests of California. It is native to the coastal redwood forests of California.</p>	<p>California Blackberry is native to the coastal redwood forests of California.</p>
<p><b>Redwood</b>            Redwood is a large tree that grows in the coastal redwood forests of California. It is native to the coastal redwood forests of California.</p>	<p><b>California Redwood</b>            California Redwood is a large tree that grows in the coastal redwood forests of California. It is native to the coastal redwood forests of California.</p>	<p>California Redwood is native to the coastal redwood forests of California.</p>

Plant List



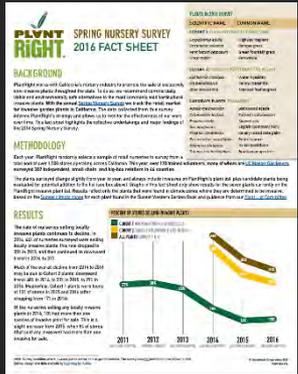
Continuing Education



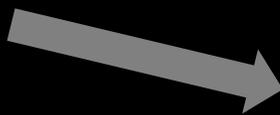
Plant Risk Evaluator (PRE)



Other Outreach



# Nursery Survey



Invasive Garden Plant	Suggested Alternatives	Plant Characteristics
Arundo donax	Arundo donax	...
...	...	...

# Plant List



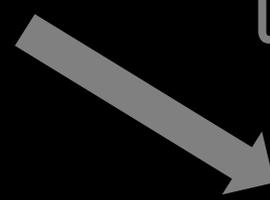
# Retail Nursery Partners



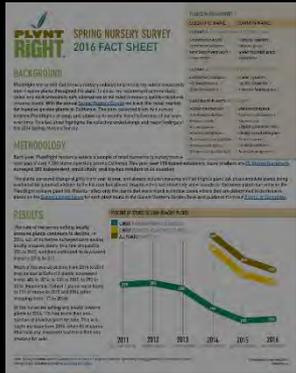
# Continuing Education



# Plant Risk Evaluator (PRE)



# Other Outreach



Nursery Survey



Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

Legend: CA (California), AZ (Arizona), NV (Nevada), UT (Utah), NM (New Mexico), CO (Colorado), WY (Wyoming), MT (Montana), ND (North Dakota), SD (South Dakota), NE (Nebraska), KS (Kansas), OK (Oklahoma), MO (Missouri), IL (Illinois), IN (Indiana), OH (Ohio), PA (Pennsylvania), NY (New York), NJ (New Jersey), DE (Delaware), MD (Maryland), VA (Virginia), NC (North Carolina), SC (South Carolina), GA (Georgia), FL (Florida).

Invasive Species	Suggested Non-Invasive Alternatives	Endemic Alternatives	Native Alternatives
<b>Arundo donax</b> Common reed	Arundo donax (non-invasive) Phragmites australis (non-invasive) Spartina patens (non-invasive)	Arundo donax (native) Phragmites australis (native) Spartina patens (native)	Arundo donax (native) Phragmites australis (native) Spartina patens (native)
<b>Lythrum salicaria</b> Purple loosestrife	Lythrum salicaria (non-invasive) Lythrum hyssagifolium (non-invasive) Lythrum junceum (non-invasive)	Lythrum salicaria (native) Lythrum hyssagifolium (native) Lythrum junceum (native)	Lythrum salicaria (native) Lythrum hyssagifolium (native) Lythrum junceum (native)
<b>Verbena officinalis</b> Verbena	Verbena officinalis (non-invasive) Verbena stricta (non-invasive) Verbena rigida (non-invasive)	Verbena officinalis (native) Verbena stricta (native) Verbena rigida (native)	Verbena officinalis (native) Verbena stricta (native) Verbena rigida (native)
<b>Verbena stricta</b> Verbena	Verbena stricta (non-invasive) Verbena officinalis (non-invasive) Verbena rigida (non-invasive)	Verbena stricta (native) Verbena officinalis (native) Verbena rigida (native)	Verbena stricta (native) Verbena officinalis (native) Verbena rigida (native)
<b>Verbena rigida</b> Verbena	Verbena rigida (non-invasive) Verbena officinalis (non-invasive) Verbena stricta (non-invasive)	Verbena rigida (native) Verbena officinalis (native) Verbena stricta (native)	Verbena rigida (native) Verbena officinalis (native) Verbena stricta (native)

Plant List



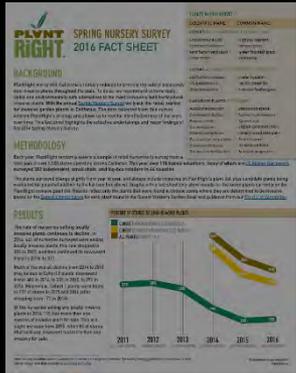
Continuing Education



Plant Risk Evaluator (PRE)



Other Outreach



Nursery Survey



Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

This table provides a list of suggested alternatives for various invasive garden plants. It includes columns for the invasive plant, the suggested alternative, and a legend for the alternative's characteristics.

Invasive Plant	Suggested Alternative	Legend
Blackberry	Blackberry	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
Redwood	Redwood	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
Yellow Pines	Yellow Pines	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
White Pine	White Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
Blue Pine	Blue Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
Red Pine	Red Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
White Pine	White Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
Blue Pine	Blue Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
Red Pine	Red Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
White Pine	White Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
Blue Pine	Blue Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides
Red Pine	Red Pine	Native, Drought Tolerant, Low Water, No Fertilizer, No Pesticides

Plant List



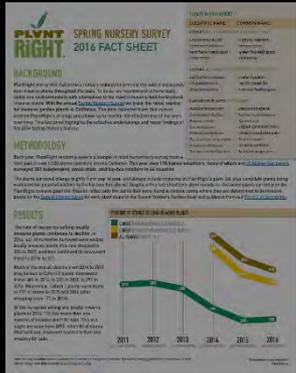
Continuing Education



Plant Risk Evaluator (PRE)



Other Outreach



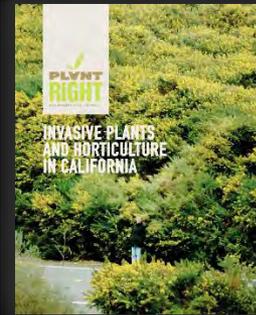
Nursery Survey



Retail Nursery Partners

A screenshot of a "Suggested Alternatives for Invasive Garden Plants" webpage. It features a table with columns for "Invasive Garden Plant", "Suggested Alternatives", and "Legend". The table lists various plants and their alternatives, with a map of California on the right side of the page.

Plant List



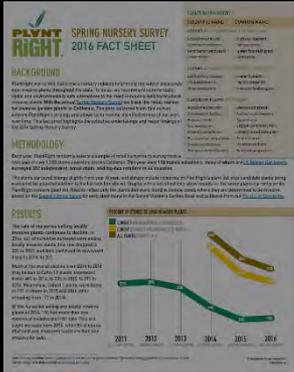
Continuing Education



Plant Risk Evaluator (PRE)



Other Outreach



Nursery Survey



Retail Nursery Partners

**Suggested Alternatives for Invasive Garden Plants**

Legend

Native Plant	Alternative Plant	Native Plant	Alternative Plant
Yellow flower	Green plant	Red flower	Blue plant
Purple flower	Orange plant	Pink flower	White plant
Light green plant	Dark green plant	Light purple plant	Light blue plant

www.PlantRight.org

Plant List



Continuing Education



Plant Risk Evaluator (PRE)



Other Outreach

# Let's be social!



@\_plantright



@\_PlantRight



facebook.com/PlantRight



Add #plantright to get your photo shared on our Instagram page



**Stephanie Falzone**

*Project Manager*

**(415) 977-0380 x 350**

**sfalzone@suscon.org**

**plantright@suscon.org**

**[www.PlantRight.org](http://www.PlantRight.org)**