

# Update: Horticulture Invasives Prevention



Presented By Alex Simmons, Program Manager



To promote the use of noninvasive  
plants for gardening and  
landscaping  
in California.



- ✓ Collaborative
- ✓ Voluntary
- ✓ Science-based

## Industry



## Nonprofits

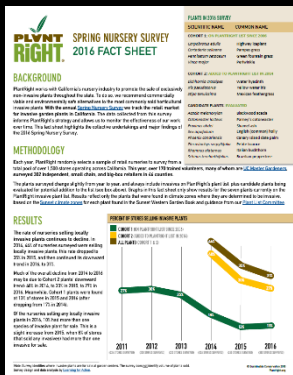


## Government



## Science





Nursery Survey

**PLANT RIGHT. Suggested Alternatives for Invasive Garden Plants**

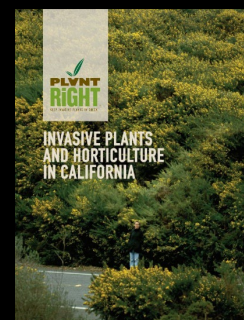
Plant Right is a 2017 list of suggested alternatives for the most common invasive garden plants. The list is organized by plant type and includes a legend for each plant type. The list is available at [www.plantright.org](http://www.plantright.org).

Plant Type	Native Plant Alternatives
Annuals	<ul style="list-style-type: none"><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li></ul>
Perennials	<ul style="list-style-type: none"><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li></ul>
Shrubs	<ul style="list-style-type: none"><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li></ul>
Trees	<ul style="list-style-type: none"><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li><li><b>Red-Flowered Currant</b> (<i>Ribes cereum</i>)</li></ul>

Plant List



Retail Nursery Partners



Continuing Education



Plant Risk Evaluator



Other Outreach



# Plant List



## Suggested Alternatives for Invasive Garden Plants

PlantRight's 2018 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

- Sierra & Coastal Mtns. (Sunset Zones 1-3)
- Central Valley (Sunset Zones 7-9)
- Desert (Sunset Zones 10-13)
- North & Central Coast (Sunset Zones 14-17)
- South Coast (Sunset Zones 18-24)
- 💧 Low water
- 📍 CA native or cultivar



Invasive Grasses	Suggested Non-invasive Alternatives	Featured Information	Suitable Climates
 <p><b>Green fountain grass</b> (<i>Pennisetum setaceum</i>)</p> <p>Invasive in climate zones: <span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</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>Mendocino reed grass</b> (<i>Calamagrostis foliosa</i>)</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>Cool-season grass 1 ft. tall &amp; 2 ft. wide. Arching flower heads spring through fall.</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><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p>
 <p><b>Mexican feathergrass</b> (<i>Stipa/Nassella tenuissima</i>)</p> <p>Invasive in climate zones: <span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</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>Purple three-awn</b> (<i>Aristida purpurea</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 early spring, cultivar of a CA native.</p> <p>Excellent for hot, dry areas. Fine-textured. Tolerates wide range of soil conditions.</p> <p>Fine-textured leaves that blow in the breeze. Thrives in sunny, dry locations.</p> <p>Fluffy white cloud-like flower heads. Great for mass plantings. Deer resistant.</p> <p>Neat clumper, good en masse. Can use under trees or in full sun as ground cover.</p>	<p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p>
 <p><b>Pampas grass</b> (<i>Cortaderia selloana</i>) and cultivars</p> <p>Invasive in climate zones: <span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</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 golden plumes that grow tightly vertical, durable and showy.</p> <p>Smaller than <i>M. rigens</i> with simple, clean plumes. Easy to grow.</p> <p>Tidy, tough, 3-5 ft. with late spring/summer flowers. Will not reseed.</p> <p>Graceful plumes to 7 ft., 3-4 ft. foliage, tough, evergreen.</p> <p>Showy, feather-like seed heads. Deep rooted and good for dry, alkaline sites.</p>	<p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p>
Invasive Water Plants	Suggested Non-invasive Alternatives	Featured Information	Suitable Climates
 <p><b>Water hyacinth</b> (<i>Eichhornia crassipes</i>)</p> <p>Invasive in climate zones: <span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</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><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p>
 <p><b>Yellow water iris</b> (<i>Iris pseudacorus</i>)</p> <p>Invasive in climate zones: <span style="color: orange;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</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, may need 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>	<p><span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p> <p><span style="color: green;">●</span> <span style="color: orange;">●</span> <span style="color: pink;">●</span> <span style="color: red;">●</span> <span style="color: blue;">●</span></p>

Find your **Sunset** climate zone: <http://www.sunset.com/garden/climate-zones>. Water needs information from **WUCOLS**. Depends on region.

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

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

# Spring Nursery Survey



Hedy Zikratch-Tyson

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







# 2021 Nursery Survey

- ✓ 9<sup>th</sup> year
- ✓ 85 volunteers
- ✓ 190 stores
- ✓ 38 counties

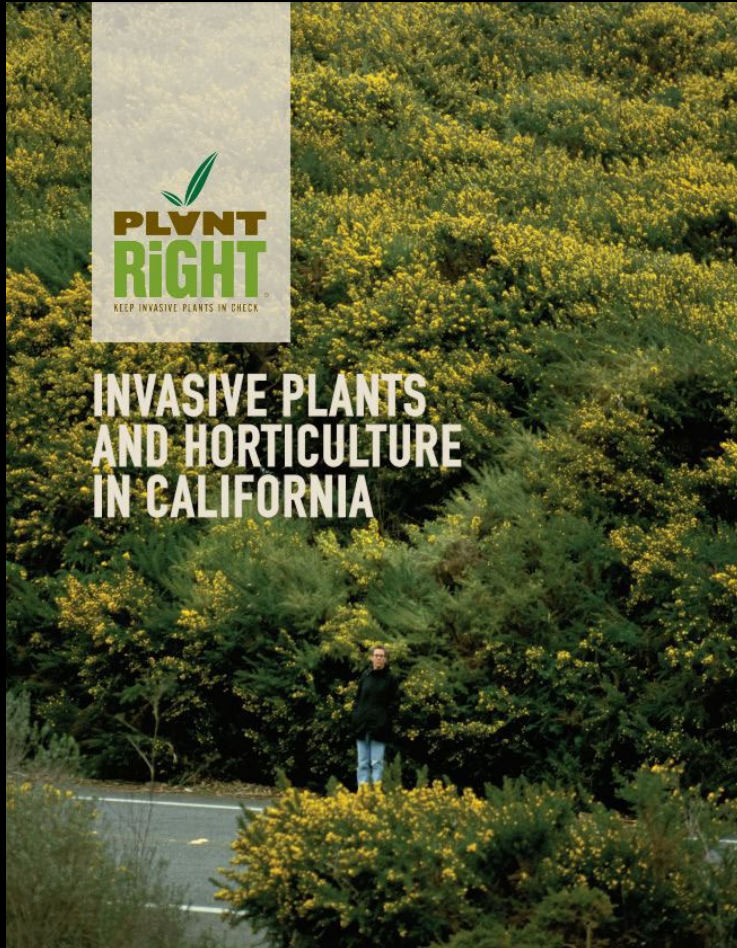


Map 1. Distribution of Surveyed Stores





# Continuing Education



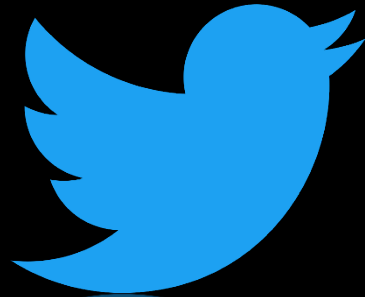
- ✓ Nursery and landscape trade
- ✓ Video and study guide
- ✓ Certificate and CE credits



# Social Media



@\_plantright



@\_PlantRight



facebook.com/PlantRight



## Score Legend

1 – 12	Low
13 – 15	Moderate
15 – 25	High

- Ornamental terrestrial plants
- 20 questions
- 97% accuracy rating
- Evaluation content:
  - ✓ Answers and sources
  - ✓ Climate match map
  - ✓ Reviews
  - ✓ Low-to-high potential risk rating
- Collaborative platform & database



# PRE Training funded by Western IPM Center



**PRE**

Plant Risk Evaluator



BUILDING CONTINUITY ACROSS STATE  
PLANT LISTS: PREDICTING INVASION RISK  
OF HORTICULTURAL PLANTS

# Looking Forward

- ✓ Applying for funding to continue PlantRight survey & outreach
- ✓ Continuing the WIPM working group Year 3
- ✓ Updates to the PRE website (new version)



# Contact

---



## Website

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

## Email

[info@plantright.org](mailto:info@plantright.org)

A Program of:



**PLANT  
CALIFORNIA**  
ALLIANCE