Don't Plant a Pest!

Give them an inch and they'll take an acre...



Spanish broom (Spartium junceum) is an invasive plant that quickly outcompetes natives across California.

Suggested alternatives for invasive garden plants

Central Valley Version

Gardening Responsibly

California is a gardener's dream. Our Mediterranean climate allows us to have fantastic gardens that showcase a wide variety of ornamental plants from around the world. However, some of our garden plants don't stay in the garden but "jump the fence" and invade natural areas. These invasive plants can become serious wildland weeds that threaten California's biodiversity by displacing native species, changing the structure of plant communities, and ultimately reducing the value of habitat for wildlife.

They also affect our state's economy by lowering agricultural productivity increasing fire danger, and add to the cost of maintaining roads, parks, and waterways.

Some of the plants currently damaging California's natural areas were originally introduced for landscaping purposes. Garden escapees may have desirable characteristics in a garden setting, but they have certain characteristics



English ivv (Hedera helix) Photo by C. Martus

such as prolific seed production, that allow them to spread outside the garden and rapidly invade wildlands. Other invasive plants reveal their weedy tendencies in the garden. For example, English ivy can take over a yard and damage buildings and fences. Likewise, when birds drop English ivy seeds near a stream, it can take over native riparian vegetation and degrade habitat for wildlife

Of course, gardeners don't plant invasive species intentionally. Like most Californians, gardeners have a deep respect for our state's rich natural heritage. Fortunately, most ornamental plants behave perfectly well in their intended roles and are not a threat to wildlands. By choosing suitable alternatives for the few problem plants. we can save ourselves and our neighbors trouble and expense while helping to protect California's natural and agricultural landscapes from invasive plants.

Invasive plants are by nature a regional problem. A plant that jumps out of the garden in one climate and habitat type might behave perfectly in another. The problem plants listed here have escaped from gardens and have invaded natural areas throughout the Central Valley

Many of the characteristics that make a plant a good choice for the garden may also make it a successful

Garden Plants

Are easy to propagate Establish rapidly Mature early Have abundant flowers Are pest/disease tolerant

Invasive Plants

Seeds germinate early Like disturbed areas Mature early and vigorously Have prolific seeds Have few natural predators

🂢 Full sun

Part shade

Full shade

Regular water

Medium water

California native

Low water

How to use this brochure:

This brochure suggests safe alternatives for these invasive plants. When you are buying new plants for your garden, consider these alternatives or ask your local nursery for

other non-invasive plants. If one of the invasive plants is already in your yard, especially if you live near wildlands, you should consider removing it and replacing it with a recommended alternative. If you are thinking about planting one of these problem plants for its appearance, finding a replacement is often easy - some of the alternatives listed here are

selected especially for their similar

looks. If you need a plant to fill a functional role, such as a groundcover that grows well in a shady place, or a border plant that likes full sun, the alternatives listed here thrive in the same environments as problem plants while offering added benefits such as attracting wildlife. Care has been taken to suggest both California native plants, for those wishing to rediscover some of California's unique native plant heritage, as well as non-invasive ornamental plant alternatives. Many of these alternatives are readily available, while others may be found in specialty or native plant nurseries

Both native and non-invasive non-native plants have been varieties. Until these cultivars and varieties can be independently tested and verified, they are not recommended as substitutes

Ground Covers

DO NOT PLANT! **INVASIVE!**



ivy; Irish ivy (Hedera helix; Hedera canariensis; Hedera hibernica)

Some ivy species in the Hedera genus They can smother understory

vegetation, climb and kill trees, and harbor non-native pests like rats and snails. It is difficult to distinguish problem species from less invasive ones. Do not plant near natural areas, and never dispose of ivy in natural areas. Plants should not be allowed to fruit, as birds often spread the berries.



Big periwinkle (Vinca major)

commonly used groundcover with shiny, leathery leaves. It can provide habitat for rats and other pests. It s an aggressive grower with trailing stems that root wherever they touch the soil. Its ability to resprout from

stem fragments makes big periwinkle very hard to remove. and it will spread rapidly in riparian areas, shady creeks and drainages, smothering the native plant community. It can also be found on some shady, dry banks.

CONSIDER PLANTING THESE INSTEAD

Star jasmine; Asian star jasmine (Trachelospermum iasminoides: T. asiaticum)



white or vellow. El Nativo Growers, Inc.

Pachysandra (Pachysandra



foliage is bright

Giant alumroot/Coral bells Heartleaf bergenia (Heuchera maxima and hybrids) **♦** ♦ ♦ ♦





Common varrow (Achillea millefolium) 😔 🜣 🗅 (Ceanothus species) 🚷 💢 🔿



but shouldn't be planted near wildlands), Purple sage (Salvia leucophylla) 🕞

groundcover from 1' to 4' high Can be used as lawn substitute. Produces white flowers. Should be

Scaevola *(Scaevola aemula),* Taiwan raspberry *(Rubus pentalobus), Vinca minor* (so far not shown to be invasive,

(Bergenia cordifolia and



green leaves and

California wild lilac



drained soil. Good

Candytuft (*Iberis sempervirens*), Dwarf coyotebrush *(Baccharis pilularis)* 👴, Lamium *(Lamium maculatum)*,

it less invasive than the running

grower, impedes the growth of native plants takes over

natural areas. Also raises fuel loads and fire frequency in natural areas. Existing research indicates that red varieties (P. setaceum 'Rubrum') are not invasive.

Ornamental Grasses

DO NOT PLANT! **INVASIVE!**

Giant reed (Arundo donax; **Fountaingrass** A. donax 'Variegata') (Pennisetum setaceum)



displaces native plants.

flammable, burning even when green. Giant reed preads by sprouts or stem sections can cause erosion and flooding, and

by wind, water, or hitchhiking on vehicles. Fast

Lavender

(Lavendula species) 🌣 💍

seeds up to 20 miles. pampasgrass plant with its accumulated litter reduces wildlife habitat pportunities in natural

Pampasgrass; Jubatagrass

(Cortaderia selloana; C. jubata)

lands, and creates a serious fire and flood hazard. Sharp blades are hazardous to people, and plants harbor pests such as rats and snakes. "Sterile" varieties of this plant are *not* recommended as substitutes

Wind can carry the tiny

CONSIDER PLANTING THESE INSTEAD

Giant wildrye 'Canyon **Prince'** (Leymus condensatus)



mature to a bright silvery blue.

Bamboo (clumping species) (Bambusa multiplex) 💢 🐞 👌



New Zealand flax

(Phormium tenax) ☆ ♪ ◇ ♦ (Muhlenbergia rigens)

vellow and green.



Photo by C. Martus

Deergrass

Clumping perennial grass growing up to 3' tall with 2' plumes rising Native Americans

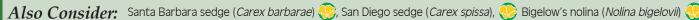
use it for making baskets.

Lindheimer's muhly

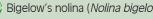
(Muhlenbergia lindheimeri)





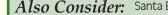








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Based on a brochure by the:



California Invasive Plant Council

1442-A Walnut Street, #462 Berkeley, CA 94709 (510) 843-3902

For more information about invasive plants visit:

- www.cal-ipc.org
- http://tncweeds.ucdavis.edu
- www.cdfa.ca.gov/wma/
- www.invasivespecies.gov
- www.cnps.org

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- California Invasive Plant Council
- California Native Plant Society, Mt. Lassen Chapter
- Center for Land-Based Learning
- EDAW
- Friends of Bidwell Park
- Monrovia Nursery Company
- Sacramento Weed Warriors, a project of the California Native Plant Society, Sacramento Chapter
- Sustainable Conservation-- Cal-HIP: Horticultural Invasives Prevention
- University of California, Davis Arboretum

To obtain more brochures, contact Cal-IPC

Cover photo: Joseph DiTomaso

Shrubs

DO NOT PLANT! **INVASIVE!**

Brooms (French; Portuguese; Scotch; Spanish) (Genista monspessulana; Cytisus striatus; Cytisus scoparius; Spartium junceum)



Bush poppy; Island bush

Photo by C. Martus

Golden currant

Dr. Robert Thomas, Margaret Orr

©1999 Calif. Academy of Sciences

(Ribes aureum)

poppy (Dendromecon rigida; D.



independently verified or tested and are not recommended as substitutes

Native California

spring to early

tolerent once

shrub with showy

summer. Drought

established. Prune

turnina into edible

ams. Attracts birds

to maintain form.

vellow flowers from

than one million acres in California. The flowers produce thousands of seeds that build up in the soil over time, creating dense thickets that obliterate entire plant and quickly, easily creating a fire hazard in residential landscapes. "Sterile" varieties of these plants haven't been

CONSIDER PLANTING THESE INSTEAD

Forsythia (Forsythia x

Ierusalem sage

(Phlomis fruticosa) 🌣 🖯

Consider: mock orange (Pittosporum tobira), St. Catherine's lace (Eriogonum giganteum), Western spicebush (Calycanthus occidentalis) 🦃

intermedia)

(Sesbania punicea) Brooms have invaded more

spring, forsythia

produces an

display of bright

Many varieties.

California sagebrush (Artemisia californica) 🕟, Coffeeberry (Rhamnus californica) 🕟, Evergreen currant/Island goose-berry (Ribes

viburnifolium) 💫, Fringe flower (Loropetalum chinense), Glossy abelia (Abelia grandiflora), Japanese kerria (Kerria japonica), Japanese

astounding



Cleveland sage

Photo by C. Martus

Toyon (Heteromeles

Scarlet wisteria

preading along the American River, the Delta, and northern California. Grows and preads rapidly along orridors, pushing and wildlife. Seeds are

leaves, arching

and summer. Grows

up to 4' tall.

shrub producing

spring and large

delicate white

moved by pods that float downstream.

(Salvia clevelandii) 👴 💢 💍

DO NOT PLANT! INVASIVE!

Trees

Eucalyptus (Blue gum; Red gum) Chinese tallowtree (Eucalyptus globulus; E. camaldulensis) (Sapium sebiferum)



olants. Fire depts hroughout recommend against

using eucalyptus trees for landscaping.



(Nyssa sylvatica) 🌣 🗘 👌 👌

river corridors and sandbars

ornamental that O'. Seeds are spread by birds can sprout from oots. Rapidly

Saltcedar (Tamarisk species)



wildlife habitat,

Crape myrtle 💢 👌

(Lagerstroemia hybrids)

and increases fire hazard. **ALSO DO NOT PLANT:** Black locust (*Robinia pseudoacacia*), Tree of heaven (*Ailanthus altissima*), Russian olive (*Elaeagnus angustifolia*)

area. Showy

and lavender.

Rosy pink flowers

new leaves appea

and are followed

y beanlike pods.

to aphids.

Eastern; Western redbud

(Cercis canadensis; C. occidentalis)

Photo by Joseph DiTomaso

summer flowers

in hot pink, white

of the vard. Never plant a running bamboo

Privet



ruit, birds can spread the berries throughout pecies are known to be invasive in landscaped

CAUTION! POTENTIAL PESTS!

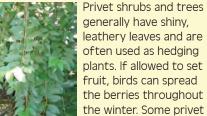
The plants in this section have been observed escaping into California wildlands, but it remains unclear whether they cause serious damage. You may want to consider removing them if they are already growing on your own property, especially if your land is adjacent to a natural or open space area.

Bamboo (running varieties) (Phyllostachys, Pseudosasa,



can quickly invade areas both in and out

(Ligustrum species)



plants. If allowed to set Photos by Ken Owen

and natural areas in several Central Valley

Catalpa (Northern; Common olive (fruiting Southern) (Catalpa species) varieties) (Olea europaea)



carried by the

vegetation in riparian areas.

(Foeniculum vulgare)

Sweet fennel

Gardeners wind. These trees compete with native should not plant this tree near open

space.

Edible fig (Ficus carica)



y vegetation

ALSO CONSIDER AVOIDING: Chinese pistache (*Pistacia chinensis*), Italian arum (*Arum italicum*), Silktree/Mimosa (*Albizia julibrissin*), Osage orange (*Maclura pomifera*), Firethorn (*Pyracantha*), Ravennagrass (*Saccharum ravennae* or *Erianthus ravennae*), White mulberry (Morus alba), Silver wattle (Acacia dealbata),

areas, and is competitive against natives

Low Water Use and Xeriscaping



California has a limited supply of fresh water, and gardeners can do their part to conserve this precious resource, as well as save on water bills, by choosing plants that use less water. Native or low water use plants also require less fertilizer and fewer pest control measures, and are usually easier to maintain. Finally, most of the low water use plants tend to be good habitat for native birds and beneficial insects. Add interest to your garden while using fewer resources by choosing California natives and other "un-thirsty" plants

perennial herb,

and reproduces

readily from seed

and root crown

Tall, with small

vellow flowers.

fennel occupies

disturbed, open

CONSIDER PLANTING THESE INSTEAD

Marina strawberry tree (Arbutus unedo 'Marina')



Photos by Bob Perry

Fern pine (Podocarpus gracilor) 🌣 🌣 🐧



(Quercus lobata) graceful native

drained soil. Valley oak



excellent street tree or individual specimen

temperatures. Can also be used as a hedge or screen plant. Many species and varieties are

Birds attracted



A A C 🔆



round appeal.

many Central Valley soil types.

Desert willow (*Chilopsis linearis*) 🕟 , English oak (*Quercus robur*), Southern live Also Consider: oak (Quercus virginiana), Washington hawthorn (Crataegus phaenopyrum)