

Plant-out-of-place Black Locust



Plant-out-of-place Oblong Spurge



Report your Plant-out-of-place sighting!



These plant-out-of-place cards were designed to help with the identification of the new invaders of Point Reyes National Seashore.

If you see any of these plants in the park—LET US KNOW! Send us a picture and description of where you found the plant.

If you see these plants—or other unusual plants—growing in the open space lands of the Bay Area, contact the landowner, your county agriculture department or cooperative extension agent, or the CDFA biologist listed on the other side of this card.

Working together we can protect the unique natural resources of our area.



Bay Area Weed Watchers

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Sausalito, CA 94965

Point Reyes National Seashore
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Point Reyes, CA 94956



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www.sfnps.org/invasive_plants
www.weedwatcher.org



Bay Area Early Detection Network



Bay Area Early Detection Network (BAEDN) is a partnership between regional land managers and invasive species experts to coordinate the early detection of, and rapid response to, infestations of invasive plant species that are still limited in distribution. A reporting tool will be available soon.
www.baedn.org

California Department of Food & Agriculture's Plant Health and Pest Prevention Division has district biologists charged with "Protecting California's agricultural and natural resources against damage caused by exotic plant pests and diseases." They are most concerned with regulated noxious weeds.

For more information visit
www.cdffa.ca.gov/phpps/ipc/encycloweedia/encycloweedia_hp.htm

To report a noxious weed sighting, contact
Robin Breckenridge
CDFA Biologist
916-718-4432
RBrecken@cdffa.ca.gov

California Invasive Plant Council
"[Protects] California's wildlands through research, restoration, and education." For additional information on invasive plant species, see their website.
www.cal-ipc.org

EXOTIC HERB Oblong Spurge

(*Euphorbia oblongata*)



Description

- Erect perennial up to 3 ft tall
- Tiny flowers surrounded by yellow petal-like bracts
- Leaves alternate along hairy red stem, 2-3 in long, finely toothed
- Stems contain a milky latex sap

Habitat

- Disturbed areas, roadside, pastures

Don't confuse with...

Gopher Plant

(*Euphorbia lathyris*)
which has:

- Opposite leaves
- Also a plant-out-of-place



Image credits: Front top: Charles Kennard; bottom © CDFA Back top: NPS; Back bottom: Jean Tosti

EXOTIC TREE Black Locust

(*Robinia pseudoacacia*)

Description

- Fast-growing tree that can reach 30 ft
- Leaf of 7-13 oval leaflets paired along a stem, ending in a leaflet at the tip (pinnate)
- Drooping cluster of white pea-shaped flowers
- Pair of stout spines where leaf meets branch
- Rough grey bark

Habitat

- Grasslands, disturbed sites, creeks

Don't confuse with...

California Buckeye

(*Aesculus californica*) which has:

- Upright clusters of white flowers
- Pointed, toothed leaflets palmately (in a fan from the end of a stem) arranged
- No spines



Black Locust leaves
with branch spines



California Buckeye
leaves and flowers

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Plant-out-of-place Common Gorse



Plant-out-of-place Plumeless Thistle



Plant-out-of-place Klamathweed



EXOTIC HERB Klamathweed

(*Hypericum perforatum*)

Description

- Erect perennial 1-3 ft tall
- Plant woody at base with branches on upper half of stem
- Leaves light green, long and narrow, 3/5-1 in long
- Leaves with "perforations;" clear dots visible when held to the light
- Bright yellow flowers with black dots at the margins

Habitat

- Disturbed areas, roadsides, meadows, pastures, rangelands, and waste places
- Reproduces by seeds and rhizomes

Don't confuse with...

Hyssop loosestrife

(*Lythrum hyssopifolia*) which has:

- Sprawling growth form
- Small pink flowers



Klamathweed



Hyssop Loosestrife

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EXOTIC HERB Plumeless Thistle

(*Carduus acanthoides*)



Description

- Erect annual plant 1-8 ft tall
- Small 1-in-long purple flowers surrounded by long stout spines
- Conspicuous wings on stem
- Deeply lobed dark green leaves; waxy coating and white hairs underneath

Habitat

- Rangelands, pastures, grasslands, roadsides, disturbed areas

Don't confuse with...

Bull Thistle

(*Cirsium vulgare*), a widespread nonnative thistle which has:

- Stout, 2-in-wide purple flower heads
- Dark green leaves, rough like sandpaper, covered in bumps



Don't confuse with
Bull Thistle leaf

Image credits: Front top/bottom: WI DNR; Front middle: Steve Dewey, USU, www.forestryimages.org; Back top: Gary L. Piper, WSU, Bugwood.org; Back bottom: Dan Tengel, MissouriPlants.com

EXOTIC SHRUB Common Gorse

(*Ulex europaea*)

Description

- Woody, evergreen shrub, 3½-6 ft tall
- Simple spiny leaves, 1/5-3/5 in long
- Yellow pea-like flowers March-May
- Brown, hairy pod fruits, ½-1 in long
- ½-in long spines found at base of leaves
- Branches are green when young, turning brown with age

Habitat

- Disturbed coastal areas
- Tolerates poor soils, including serpentine

Don't confuse with...

Scotch Broom

(*Cytisus scoparius*) which does not have:

- Thorny stems
- Also a plant-out-of-place



Common Gorse stem



Scotch Broom stem

Image credits: Front top/middle: © John M. Randall, The Nature Conservancy; Front bottom: Forest & Kim Starr, USGS; Back left: Don Gardner, USGS; Back right: © Barry A. Rice, The Nature Conservancy

Plant-out-of-place Licorice Plant



Plant-out-of-place Tocalote



Plant-out-of-place Iberian Starthistle



EXOTIC HERB Iberian Starthistle

(*Centaurea iberica*)

Description

- Erect annual plant ½-4 ft tall
- Numerous small (½ in wide) purple, white, or pink flower heads surrounded by long, sharp spines
- Young leaves are deeply lobed, green with sparse bristles
- Mature leaves 4-8 in long, without hairs
- Stems without “winged” ridges
- Young plants form a rosette (circular cluster of leaves)

Habitat

- Agricultural, grasslands, roadsides, disturbed areas

Don't confuse with...

Purple Starthistle

(*Centaurea calcitrapa*) which has:

- Purple flower heads slightly smaller (¼ in wide) than Iberian starthistle
- Has no pappus (bristle on seed)
- Also a plant-out-of-place



Iberian Starthistle seed (left)
Purple Starthistle seed (right)



Image credits: © 2001 CDFA

EXOTIC HERB Tocalote

(*Centaurea melitensis*)

Description

- Erect annual plant to 3 ft
- Numerous small bright yellow flower heads surrounded by purple-based 1/2-in-long spines
- Mature leaves grey-green and rough, unlobed (see middle image, front)
- Stems are “winged”
- Young plants form a rosette (circular cluster of leaves)
- Also known as Napa Thistle and Malta Starthistle

Habitat

- Agricultural, grasslands, roadsides, disturbed areas

Don't confuse with...

Yellow Starthistle

(*Centaurea solstitialis*) which has:

- Flower heads with 1-in yellow spines
- Grows to 6 ft
- Leaves with 1-2 lobes
- Also a plant-out-of-place



Tocalote



Yellow Starthistle

Image credits: Front top/ middle: © 2000 Texas A&M; Front bottom: public domain (Forest & Kim Starr); Back left: © Michael Chambers; Back right: © Barry A. Rice, The Nature Conservancy

EXOTIC SHRUB Licorice Plant

(*Helichrysum petiolare*)

Description

- Mounding silvery-green shrub to 4 ft
- Dense clusters of creamy white flowers 1-2 in across
- Rounded heart-shaped leaves, up to 1 in, silvery light green to white with dense white hairs on both sides.
- Dense, round, slightly hairy stems

Habitat

- Coastal scrub and grasslands

Don't confuse with...

Buckwheat

(*Eriogonum* sp.) which has:

- 2-3-in pink clusters of flowers
- Broader, mostly basal leaves

Lizardtail

(*Eriophyllum staechadifolium*) which has:

- 2-3-in yellow clusters of flowers
- Deeply lobed leaves

California Sagebrush

(*Artemisia californica*) which has:

- Deeply lobed, thread-like leaves
- Pleasant scent



Coast Buckwheat (above)



Lizardtail (top)



California Sagebrush (bottom)

Image credits: Front: © John M. Randall/The Nature Conservancy ; Back: © Br. Alfred Brousseau, Saint Mary's College)

Plant-out-of-place Woolly Distaff Thistle



Plant-out-of-place Yellow Starthistle



Plant-out-of-place Purple Starthistle



EXOTIC HERB Purple Starthistle

(*Centaurea calcitrapa*)

Description

- Erect annual plant 1/2-4 ft tall
- Numerous small (1/4 in wide) purple, white, or pink flower heads surrounded by long, sharp spines
- Mature flowers WITHOUT a pappus (tiny tuft of hair on seed for dispersal– like a dandelion)
- Young leaves deeply lobed, grey, with cobweb-like hairs and light midrib
- Mature leaves 4-8 in long, without hairs
- Stems without “winged” ridges

Habitat

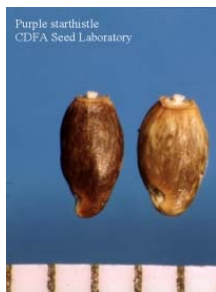
- Agricultural, grasslands, roadsides, disturbed areas

Don't confuse with...

Iberian Starthistle

(*Centaurea iberica*) which has:

- Purple flower heads with spines, wider (1/2 in) than PST (1/4 in)
- Has a pappus (bristle on seed)



Purple Starthistle seed (left)
Iberian Starthistle seed (right)

Image credits: Front top: NPS; Front middle/bottom: © Barry Rice, The Nature Conservancy; Back: © 2001 CDFA

EXOTIC HERB Yellow Starthistle

(*Centaurea solstitialis*)

Description

- Annual plant 1/2-6 ft tall
- Numerous small bright yellow flower heads surrounded by long, sharp yellow spines (0.4-1 in long)
- Mature leaves grey-green, covered with fine cottony hairs, giving the plant a grey-silver appearance from a distance
- Stems are “winged”
- Young plants form a rosette (circular cluster of leaves)

Habitat

- Agricultural, grasslands, roadsides, disturbed areas

Don't confuse with...

Tocalote or Napa Thistle

(*Centaurea melitensis*) which has:

- Yellow flower heads with 1/2-in-long spines, shorter than YST
- Grows to 3 ft tall, shorter than YST
- Also a plant-out-of-place

Yellow Starthistle

Tocalote



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EXOTIC HERB Woolly Distaff Thistle

(*Carthamus lanatus*)



Description

- Erect annual plant to 3 ft tall
- Yellow flower heads with red veins $\frac{3}{4}$ in wide, surrounded by spiny modified leaves up to 2 in
- Leaves with deep lobes and spines
- Stems single on the bottom half and branched on the top
- No stem wings
- Young plants form a rosette (circular cluster of leaves)

Habitat

- Disturbed areas, seeds are moved by animals and machinery

Don't confuse with...

Yellow Starthistle

(*Centaurea solstitialis*)

which has:

- Unlobed upper leaves
- A grey appearance
- Thin spines around flower



Yellow Starthistle flower

Image credits: Front top/bottom: Bogdan; Front middle/Back top: NPS; Back bottom: © Barry A. Rice, The Nature Conservancy

Plant-out-of-place Silverleaf Cotoneaster



Plant-out-of-place Orange Cotoneaster



Plants-out-of-place Broom Basics



Scotch Broom (*Cytisus scoparius*)

- Branches angled; leaflets narrow, 0-3
- Flowers 1 in, yellow, sometimes with red or white accents
- Pods 1-2 in, flat, hairy around margins



Spanish Broom (*Spartium junceum*)

- Branches rounded; leaflets narrow, 0-1
- Flowers 1 in, yellow, at branch tips only
- Pods 2-4 in, flat, sparsely to not hairy

EXOTIC SHRUBS

Broom Basics



French Broom (*Genista monspessulana*)

- Branches angled; leaflets broad, 3, generally persistent
- Flowers less than 1 in
- Pods 1 in, fat, gray-fuzzy



Portuguese Broom (*Cytisus striatus*)

- Branches angled; leaflets narrow, 0-3
- Flowers 1 in, somewhat "squished"
- Pods 1 in, fat, gray-fuzzy

Image credits: Front top: MPF; Front bottom: © John M. Randall, The Nature Conservancy; Back top: Carina (northbaywanderer); Back bottom: Franz Xaver

EXOTIC SHRUB

Orange Cotoneaster

(*Cotoneaster franchetii*)

Description

- Evergreen shrub up to 9 ft tall
- Fountain-shaped growth form with zig-zag branches
- Leaves $\frac{3}{4}$ -1 in long, dull grey-green above, covered with felty hair below
- Leaves appear silver or white from a distance
- Pink tinged rose-like flowers (5-11 per cluster)
- Orange-red fruits with 3 stones

Habitat

- Agricultural, grasslands, roadsides, disturbed areas, coastal scrubland and forest areas

Don't confuse with...

Silverleaf Cotoneaster

(*Cotoneaster pannosa*) which has:

- Deep red fruits with 2 stones
- Larger leaves (3/4-2 in long)
- Also a plant-out-of-place



Orange Cotoneaster



Silverleaf Cotoneaster

Image credits: Front top, middle: NPS; Front bottom, Back left: Pat Breen, Oregon State University; Back right: Forest and Kim Starr, USGS

EXOTIC SHRUB

Silverleaf Cotoneaster

(*Cotoneaster pannosa*)

Description

- Evergreen shrub with arching branches, up to 6 $\frac{1}{2}$ ft tall
- $\frac{3}{4}$ -1-in-long leaves, dull gray-green above and felty white beneath
- Small white rose-like flowers with fully opened petals in clusters in the spring
- Small deep red berries with 2 stones produced in fall and winter

Habitat

- Coastal areas, woodlands, shrublands, grasslands
- Escapes garden cultivation via bird-dispersed seeds

Don't confuse with...

Orange Cotoneaster

(*Cotoneaster franchetii*) which has:

- Pink- or rose-colored flowers
- Orange-red berries with 3 stones

Milkflower Cotoneaster

(*Cotoneaster lacteus*) which has:

- Larger (1-3-in long) leaves
- All are plants-out-of-place



Milkflower Cotoneaster (top) with many berries and large leaves; and

Orange Cotoneaster (bottom) with orange-red berries

Image credits: Front: Forest and Kim Starr, USGS; Back: Andrea Williams, NPS