



Weed Alerts and CDFA Update

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2015 Additions to Section 4500 CA Noxious Weed List

<i>Aeschynomene</i> spp.	joint-vetch	<i>Limnobium laevigatum</i>	SA spongeplant
<i>Asphodelus fistulosus</i>		<i>Ludwigia decurrens</i>	
onionweed		winged water-primrose	
<i>Brachypodium sylvaticum</i>		<i>Ludwigia hexapetala</i>	water-primrose
forest false-brome		<i>Mercurialis ambigua</i>	Spanish mercury
<i>Centaurea jacea</i> s.l.		<i>Nymphoides peltata</i>	water shield
meadow & black knapweed		<i>Parthenium hysterophorus</i>	
<i>Coincya monensis</i>	star-mustard	Santa Maria feverfew	
<i>Euphorbia dendroides</i>	tree spurge	<i>Rhagadiolus stellatus</i>	star endive
<i>Fallopia x bohemica</i>		<i>Saccharum ravennae</i>	ravennagrass
Bohemian knotweed		<i>Salvinia auriculata</i> s.l.	giant salvinia
<i>Galega officinalis</i>	goatsrue	<i>Tribolium obliterum</i>	Capegrass
<i>Hydrocharis morsus-ranae</i>	frogbit	<i>Volutaria tubuliflora</i>	
<i>Leptochloa chinensis</i>		desert knapweed	
Chinese sprangeltop			



Invasive Weeds in CA



- Modern economy provides many pathways for entry
- Weeds may establish many years before they invade
- Early control much cheaper than later control

Glyphosate resistant pigweed in cotton field in GA



Common Weed Pathways



- Human introduction
- Horticulture escape
- Seed contamination
- Nursery stock
- Forage or straw
- Aggregate
- Natural dispersal

Pampas grass in production nursery



Boneseed

Chrysanthemoides monilifera

- Native to S. Africa
- Spreading in Orange Co.
- Bad weed in Australia
- Introduced via horticulture



Egyptian broomrape (*Orobanche aegyptiaca*)

Parasite on many crop plants
incl. tomato, cabbage,
& carrots

New find for N Am 6/14

Destroying tomato production
in Israel & Turkey

Most likely pathway via
contaminated seed or
transplants



Desert knapweed (*Volutaria tubuliflora*)

- Endemic to edge of Sahara Desert
- Found in San Diego Co. 2011
- Found in Orange Co. 2015
- White-flowered form rare in wild, but also in Chile
- Through ship container???



Winged water-primrose

Ludwigia decurrens

- Found in rice field in Butte Co. (3+ localities) where it's persisting
- Wetland plant native to SE US & S Am
- Known noxious weed in Japan
- Pathway via rice seed from Japan





Dittrichia viscosa False yellowhead

Found late in 2014 in
Solano Co.
Ballast weed in 1800s
in Fl, PA, & NJ
Similar ecology to
stinkwort
Roadside invasion
From container?



Small-Flowered Hawksbeard

Crepis pulchra

- Native to S. Europe
- Mostly as waif, but spreading in Napa, Solano, CC, & Alameda Cos.
- Introduced by ?



Hoary Cress

Berteroa incana

- Native to Eurasia
- Widespread in NA
- Missing from S states & rare in CA
- Toxic to livestock
- Spreading from Nevada?



Spanish mercury

Mercurialis ambigua

- Related to dog mercury
- Native to Spain
- Often a nursery weed
- Spreads in nursery stock & mulch



Myrtle Spurge

Euphorbia myrsinites

- In a group w/many weeds
- Spread via horticulture
- Mostly in winter cold areas
- Very weedy in UT
- Not yet established in CA



Myrtle Spurge in Utah

Euphorbia myrsinites



Capeweed

(Arctotheca calendula)

- Rosette annual w/ dark disk fls
- Confused w/ *A. prostrata* that is sold as a ground cover
- Currently known from 5 Counties in CA
- Introduced via grass seed from Australia



Cotton Fireweed

Senecio quadridentatus

- Native to Australia
- Known from SB, LA
- Looks native
- Coastal scrub
- Fire adapted
- Other, similar species just invading



Capegrass

Tribolium oblitterum

- Native to S. Africa
- Known from Fort Ord
- Inconspicuous
- But distinctive
- Not easy to control
- Pathway through military vehicles?



South American spongeplant (*Limnobium laevigatum*)

- Floating aquatic
- Propagates vegetatively & via seed
- Grows rapidly, might surpass water hyacinth
- Introduced via aquarium & ponds

