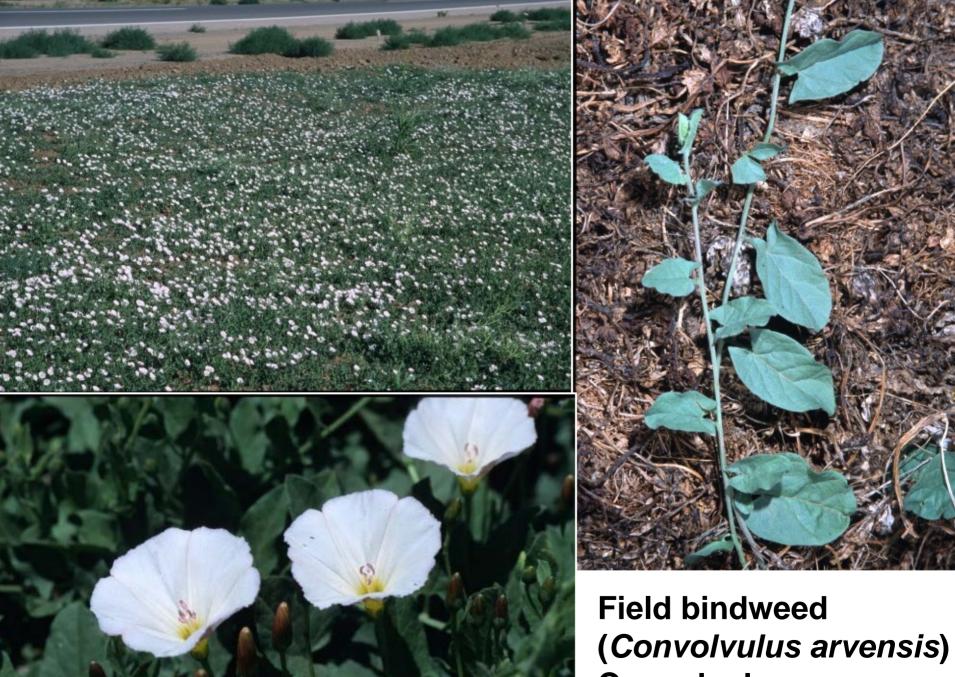
Weed Alerts! 2007

Joe DiTomaso
UC Davis

Plants that are already weedy or invasive to some extent, but appear to on the increase



Convolvulaceae

Field bindweed (Convolvulus arvensis)

- Reported by Susan Schwartz, Friends of Five Creeks
- CDFA Noxious Weed C List
- Finding an expansion of this major agricultural and urban weed into riparian areas (creeks) in the Bay Area
- Deep rooted, expansive perennial that is difficult to control
- Native to Europe



Sharppoint fluvellin (Kickxia elatine)

- Reported by Stan Hooper, Midpeninsula Regional Open Space District
- Fairly widespread weed of agriculture and urban areas throughout the state
- Moving into Santa Cruz Mountains in undisturbed areas
- Low-growing winter annual
- Native to Europe



Musk thistle (Carduus nutans)

- Reported by CJ Fotheringham
- CDFA Noxious Weed A list, rarely found in Southern California
- Also a Moderate on the Cal-IPC list
- Found at Big Bear Lake for first time
- Biennial or winter annual
- Very invasive in other western states
- Native to Europe



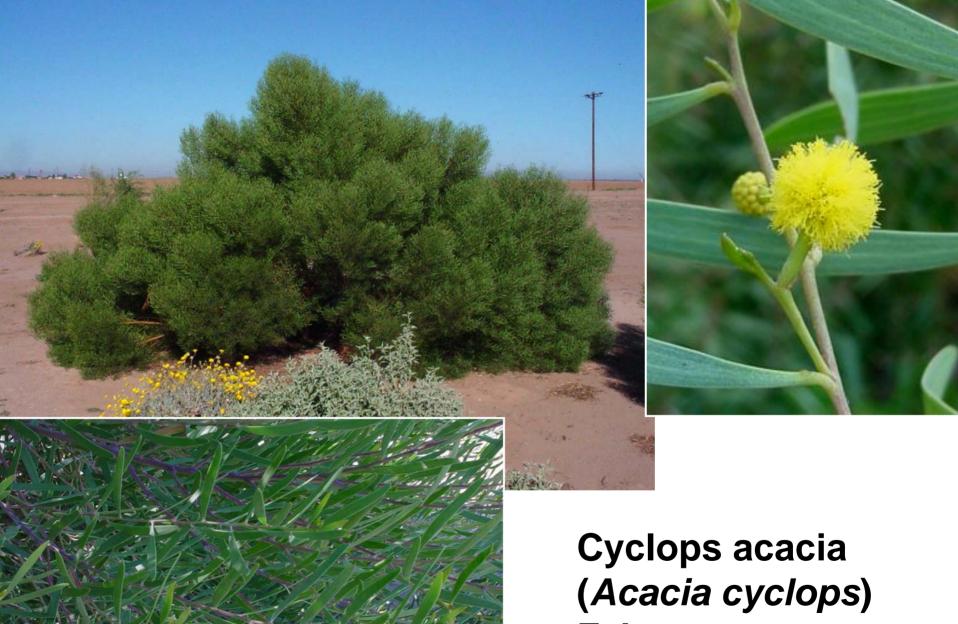


Narrowleaved crimson clover (*Trifolium angustifolium*) Fabaceae

Narrowleaved crimson clover (*Trifolium angustifolium*)

- Reported by Andy Sanders and Fred Hrusa
- Has previously been present in California, but is spreading rapidly along the Central Coast
- Annual with very narrow leaflets
- Native to Europe

Cultivated plants going wild!



Fabaceae

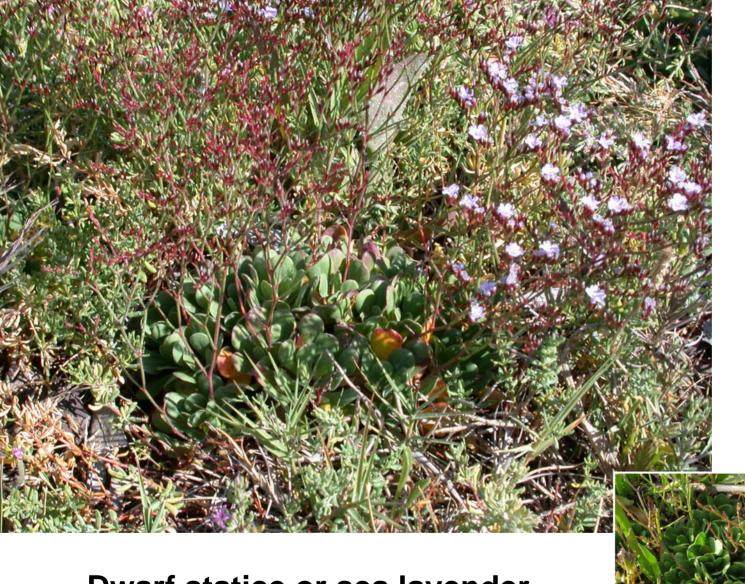
Cyclops acacia (Acacia cyclops)

- Reported by Carolyn Martus, CNPS
- Misidentified as Acacia longifolia
- The worst of all the Acacia species in San Diego
- Widely planted by CalTrans
- Native to Australia



Sydney golden wattle (*Acacia longifolia*)





Dwarf statice or sea lavender (*Limonium ramosissimum*) Plumbaginaceae

Dwarf statice or sea lavender (Limonium ramosissimum)

- Reported by Mark Page, Katharyn Boyer, and Peter Baye
- Spreading in Bay Area, particularly in the salt marsh areas (Mill Valley/Tiburon), also in southern California salt marshes
- Acts as a groundcover, spreads rapidly and produces a lot of seed
- Escaped perennial ornamental, not listed in Jepson Manual
- Native to Europe

New introduction in California



Tagasaste or tree lucerne (Chamaecytisus palmensis)

- Reported by Tara Athan, Mendocino Coop WMA
- Promoted as a fodder in the 1980s in Australia and was widely planted
- Escaped cultivation there along the coast
- Being cultivated in Mendocino Co and sold as a fodder plant
- Rare escape in California, called C. proliferus in the Weeds of California and Jepson Manual
- Spreading evergreen broom-like species
- Native to Canary Islands

Photos: J. Cooke, www.ecolsoc.org.au/What%20we%20do/Prizes/documents/JuliaCookeESA2004.pdf





Ward's weed (*Carrichtera annua*) Brassicaceae

Ward's weed (Carrichtera annua)

- Reported by Jessica Vinje, The Center for Natural Lands Management
- Has become a widespread rangeland invasive in southern Australia
- New species to California, not reported in the Weeds of California or the Jepson Manual
- First established in San Diego County
- Population is moderate sized and appears to be difficult to control
- Annual mustard, very similar to wild radish
- Native to Europe

Rate of spread in southern Australia

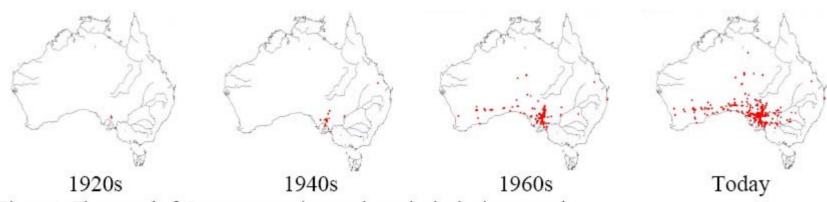


Figure 1. The spread of C. annua over time as shown by herbarium records.

Climate analysis using BIOCLIM showed that Ward's Weed appears to be restricted to areas with winter-dominated rainfall and mild winter temperatures (Figure 2) and preliminary studies suggested a link with calcareous soils (Figure 3).

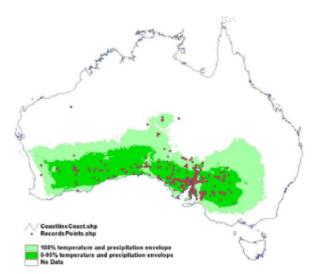


Figure 2. Current (red dots) and predicted (green) distribution of *C. annua* using the temperature and precipitation of the hottest and coolest quarters.

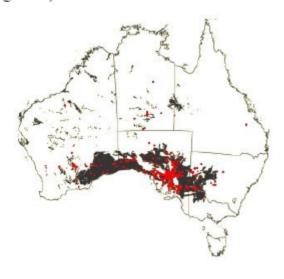


Figure 3. Overlay of *C. annua* location points (red) on a map of calcareous soils (Australian Audit Atlas).



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Agrostemma githago Photo by Joe DiTomaso



Some pertinent manuscripts to come out in the first issue

- Common reed (*Phragmites australis*) response to postemergence herbicides
- Integrated Management of Perennial Pepperweed
- The Invasive Species Assessment Protocol: A Tool for Creating Regional and National Lists of Invasive Non-Native Plants that Negatively Impact Biodiversity
- Jubatagrass (Cortaderia jubata) Control Using Chemical and Mechanical Methods
- Effective Fennel Control with Herbicides in Natural Habitats in California