What is CalWeedMapper and how does it inform Regional Planning?

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What we did

1. Developed a statewide mapping and prioritization tool [CalWeedMapper];
2. Collected data for it [expert knowledge];
3. Linked it with Calflora and CCH data for nightly updates of new data
4. Used this tool to work with regional partners to design landscape-level regional strategies
Data in CalWeedMapper

Expert knowledge (by USGS quad)

Including…
- Abundance (including *absence*)
- Spread trend
- Management status

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New occurrence data
(Calflora and CCH) nightly

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Continuously up-to-date (though coarse) statewide distribution data
Data in CalWeedMapper

- Species needs verification
- Occurrence data only
- Spreading
- Under management but still spreading

Abundance:
- Low
- Medium
- High

Trend:
- Spreading
- Managed, spreading
- Managed, decreasing
- Eradicated

Verification Needed:
- Verify Quad
- Verify Species

OCCURRENCE OBSERVATIONS:
- Consortium of California
- Herbaria
- Calflora
Modeling Potential Spread

*Spartium junceum* (Spanish broom)

Cal-IPC Rating: High
Other Ratings: CDFA C, BAEDN

*species description*
Spatial Analysis:
Regional Management Opportunities

Category based on **distribution**, priority based on Cal-IPC **rating**.

**Surveillance**: Species not present but found within 50 miles – watch for it.

**Eradication**: Species found only in single isolated quads – eradicate it.

**Containment**: Species more widespread – contain its spread.

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**Surveillance**
Leafy spurge

**Eradication**
Canada thistle

**Containment**
Cheatgrass
Regional Planning

- Landscape-level collaborative planning
- Regions (2-6 counties)
- Transparent, collaborative process to evaluate and prioritize
- Goal - prioritize a handful of species for surveillance and eradication in the region
- Obtain funding for highest priority regional projects
Regional Planning Process

1. Meeting to devise regional strategy
   - Use CalWeedMapper regional report
   - Decide on species of concern:
     - Surveillance: learn and look for. Map and treat immediately if found!
     - Eradication target: eradicable from the region for less than $100k?

2. Meeting #2 to draft an eradication workplan
   - Map all known occurrences in Calflora
   - Establish responsibility for initial treatment and for long term monitoring
Regional Strategy

Cal IPC is working with regional partners to set landscape-level strategies, secure implementation funding, and build a coordinated approach statewide. Click on the map to see regional efforts underway!

REGION UPDATES

Northwest
See page.
Strategic Plan and Eradication Workplan are complete. In August of 2016, the Wildlife Conservation Board (WCB) funded an effort to eradicate 5 species over the next 5 years. Use the ID presentation on the 23 priority species to learn more about this region’s top consorts.

North Central
See page.
Strategic Plan and Eradication Workplan are complete. Funding opportunities worldwide is compiled and WCB funding is submitted. Many thanks to Marilyn Mckee and Richard Tate for their work creating a stellar ID presentation of their 23 priority species.

Bay Area
See page.
Cal IPC has absorbed BAEDN and is furthering this Bay Area CDR effort. Steering Committee completed WCB proposals and is working with CDR to eradicate 7 early detection species from riparian areas. Work is underway on grant proposal to eradicate an isolated Hypericum cousinnes effort. NEP is funding work.

Central Coast
See page.
Learn to identify priority detection species using an illustrated plant guide. Track new occurrence reports of surveillance & monitoring species in your area. (See new reports of CalIPC inventory and CDFW Watch List species)
Get See grant-ready projects in the Eradication Workshop.

South Central Coast
See page.
In August of 2016, the Wildlife Conservation Board (WCB) funded an effort to eradicate 5 species over the next 5 years. Our team of weed warriors will assemble in early February to kick off this regional effort!

South Coast
Strategic Plan draft.
Participants are sharing data and mapping priority species in Southern California.

North Sierra
See page.
Strategic Plan and Eradication Workplan are complete. Two years of treatment were funded through a California Forest Health grant administered through CDFA. Additional funding from the Wildlife Conservation Society’s Climate Adaptation Fund has bolstered this effort. The initial regional effort was funded in part by the TTOP Nature Fund.

Central Sierra
See page.
Participants prioritized 10 eradication and 15 surveillance targets. NFWF PTI has provided two years of funding to eradicate three of the top priority species.

http://calweedmapper.cal-ipc.org/regions/
Learn to identify priority detection species using an illustrated plant list. Track new occurrence reports of surveillance & eradication species in your area. (Also see new reports of Cal-IPC inventory and Cal-IPC Watchlist species.)

http://calweedmapper.cal-ipc.org_REGIONS/
South Central Coast Priority Species

Eradication Targets
1. Canada thistle (*Cirsium arvense*)
2. Dalmatian toadflax (*Linaria dalmatica* ssp. *Dalmatica*)
3. Invasive sea lavender (*Limonium duriusculum*)
4. Japanese dodder (*Cuscuta japonica*)
5. Russian wheatgrass (*Elymus farctus*)
Learn and do outreach on your region’s priority species

Weed Alert! Shining geranium

Description
- Up to 20 in. herb with small pink flowers
- 5-petaled flowers in pairs on thin reddish stems
- Modified leaves just below flower petals are hairless
- Leaves are shiny, roundish to kidney-shaped with 3-7 lobes
- Stems are typically upright and bright reddish in color
- Seeds form in capsules with a long pointed beak, giving the plant one of its common names, "crane’s bill"
- Reproduces by seed
- Spread by roads, trails, equipment, and as a nursery stock contaminant
- Native to Europe and Asia

Bloom Period May - Jun

Habitat Oak woodland, grassland, forest openings, disturbed sites

2-Minute Removal Pull

Shining geranium (Geranium lucidum)
“The Cal-IPC approach is helping me reinvigorate our noxious weed work. It has helped get our Trinity County WMA back on track. If we are able to pull off prioritizing our Trinity County weeds then we should be able to better focus on priorities.”

-Josh Smith, Watershed Research and Training Center, Hayfork (2014)
Questions?

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Photo from 2018 Symposium (also during fire season & on the Fort Ord field trip!)