What is CalWeedMapper and how does it inform Regional Planning?

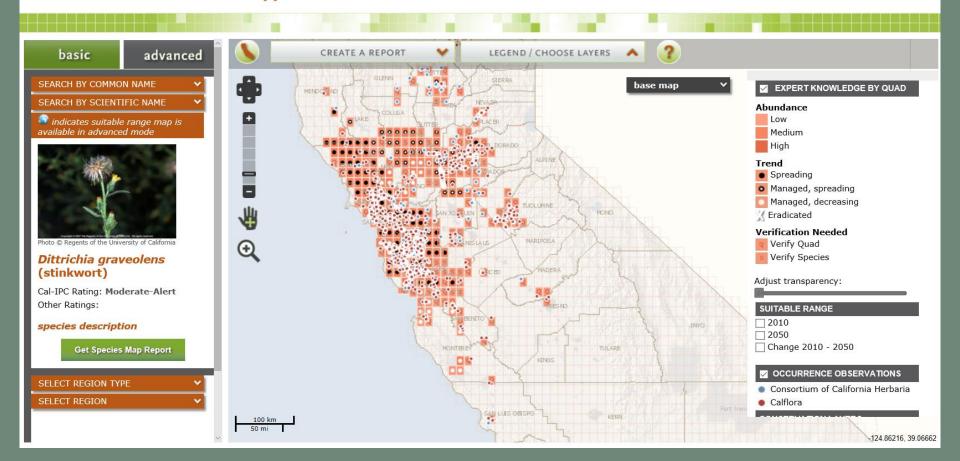


Dana Morawitz, Conservation/GIS Program Manager October 15, 2019

CalWeedMapper http://calweedmapper.cal-ipc.org

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CalWeedMapper



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...

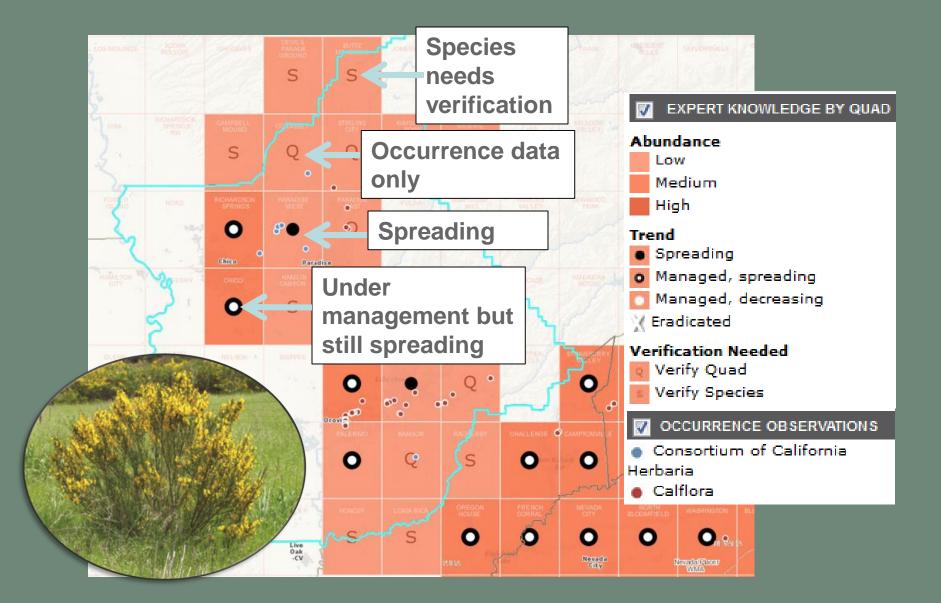
- Abundance (including *absence *)
- Spread trend
- Management status

╋

New occurrence data (Calflora and CCH) nightly

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

Data in CalWeedMapper



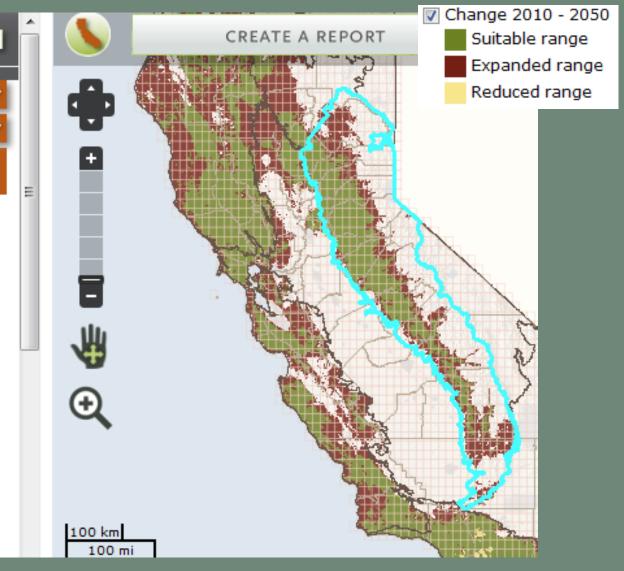
Modeling Potential Spread



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.

Species not present but found within 50 miles – watch for it. **Surveillance:** Species found only in single isolated quads - eradicate it. Eradication: Species more widespread – contain its spread. **Containment:**

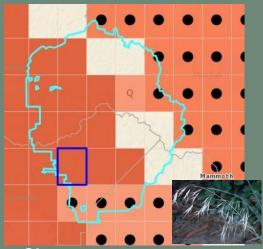
Surveillance



Eradication



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

- 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



CalWeedMapper – Regions page

CalWeed Mapper

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Regional Strategy

BETA

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 2015, the Wildlife Conservation Board (WCB) funded an effort to eradicate 5 species over the next 5 years! Use the ID presentation on the 26 priority species to learn more about this region's top concerns.

North Central

See page. Strategic Plan and Eradication Workplan are complete. Funding opportunities worksheet is compiled and WCB application is submitted. Many thanks to Marilyn McEvoy 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 EDRR effort. Steering Committee completed WCB proposal to eradicate 7 early detection species from riparian areas. Work is underway on grant proposal to eradicate an isolated *Hypericum* canariense effort. NFWF is funding work



removal work on Limonium ramosissimum and L. duriusculum at 10 sites.

Central Coast

See page. See the ID presentation on the 19 priority species. WMA chairs have verified infestation sizes and locations identified in their Eradication Workplan.

South Central Coast

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 drafted. Participants are sharing data/mapping priority species in Calflora.

North Sierra

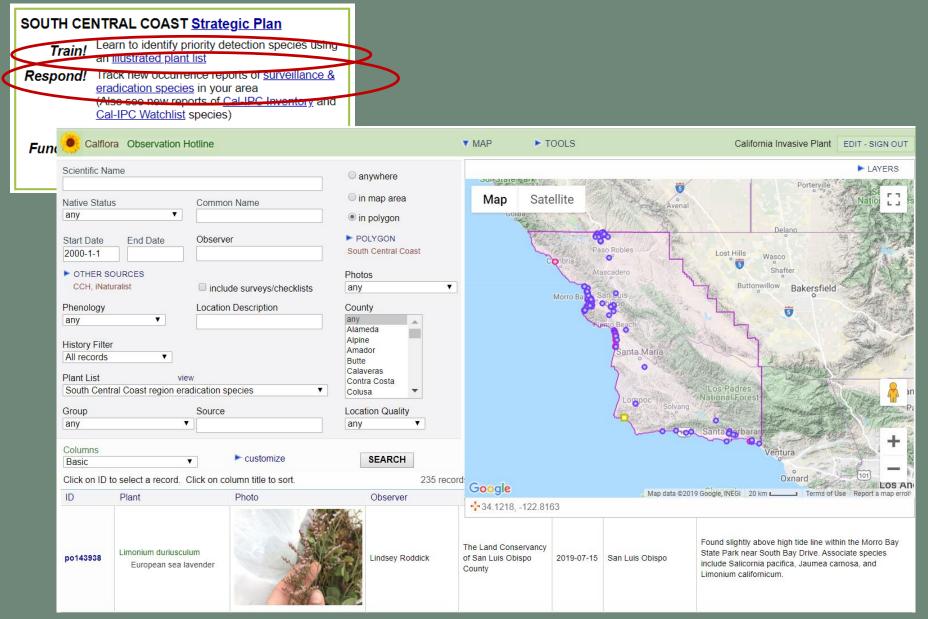
Strategic Plan and Eradication Workplan are complete. Two years of treatment are funded by a Calfire Forest Health grant administered through CDFA. Additional funding from the Wildlife Conservation Society's Climate Adaptation Fund has bolstered this effort. The initial regional effort was funded in part by the TTCF 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/

CalWeedMapper – Regions page



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



"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)

Photo by Katie Reinhart

Questions?

Contact: dfmorawitz@cal-ipc.org

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