

Weed Manger

Cynthia Powell

www.calflora.org



Introductions & who has used Geoweed

Calflora basics

Update on Weed Manager

- approach
- features & components
- plans for next year

Using Phone App to Log Data



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Our Nonprofit's Mission

California's digital plant library provides information on wild CA plants for conservation, education, and appreciation

- provides this info in readily usable electronic formats

 serve public information needs related to scientific study, land management, environmental analysis, education, and appreciation of CA plant life



Calflora database contains

- > 10,000 native and introduced species
- > 800,000 plant location observations (points, lines, and polygons)
- > 30,000 relationships between old and new plant names
- > 300,000 plant photos

For 36,000 unique Calflora e-visitors each month (1,200/day)

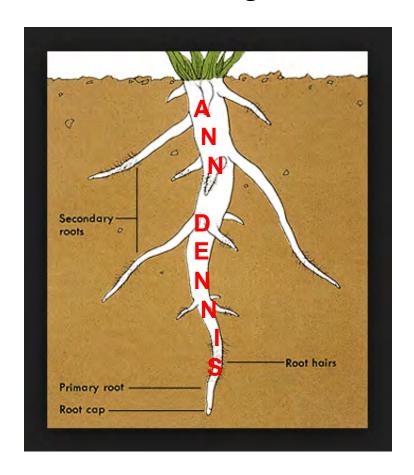


Of those 10,000 native and introduced species in CA,

- 20% of species in CA are not native
- 20% of the data contributed to Calflora are also not native



Calflora started as Ann Dennis sharing a text file of CA plants in 1994

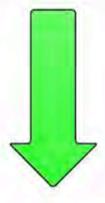


And became a 501(c)3 non-profit in 2001



Data In

- > 500 Professional Botanists
- > 1000 Amateur Botanists
- > 1800 Other Observers
- > 100 Institutions



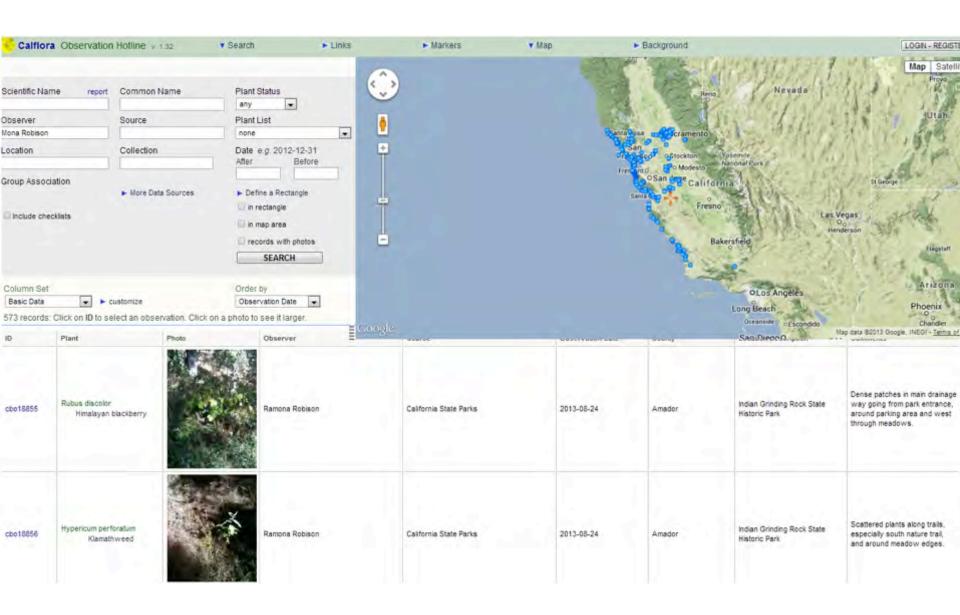
Data Out

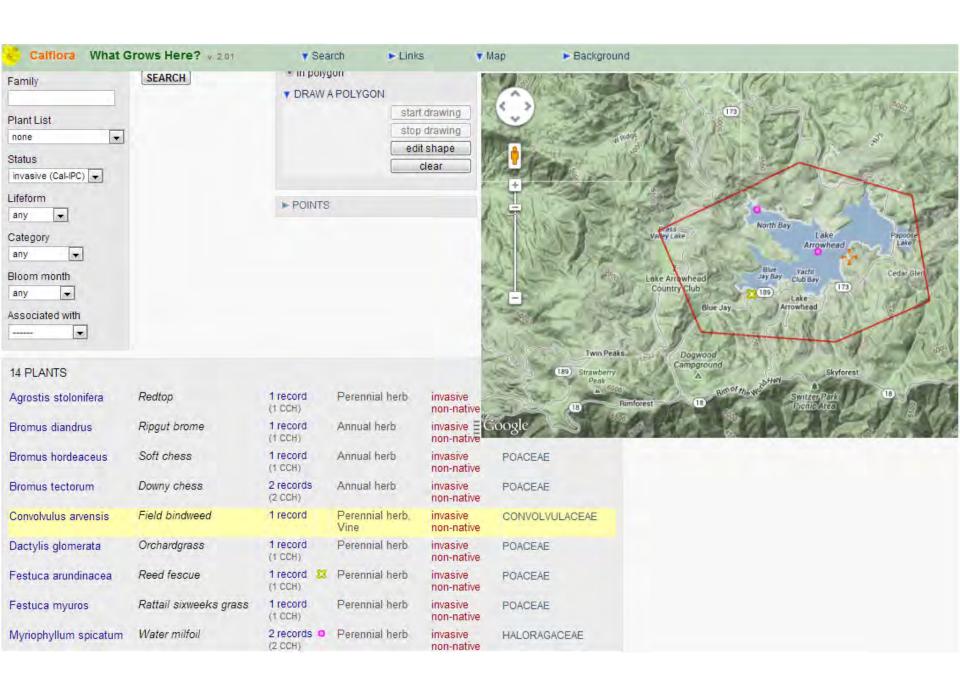
Researchers Students Botanists Ecologists Land Managers Conservationists



Calflora Database

Mona Robison's records







Calflora partnership model Calflora project best practices



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OATS

O = Occurrences – species point data

A = Assessments —time-changing info % cover size of polygon plant phenology

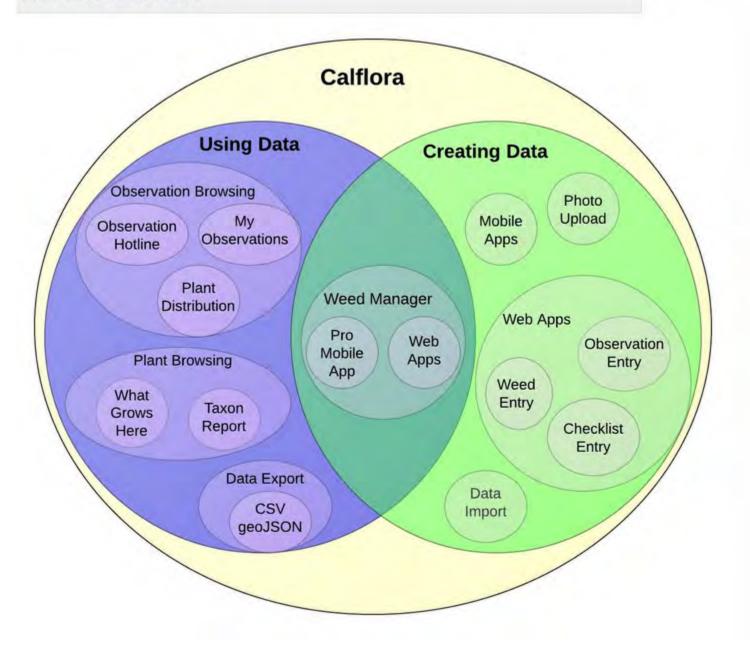
<u>T = Treatments</u> – herbicide, hand-pull, mow, etc.

<u>S = Surveys</u> – canvass defined area to seek target plants; includes absence data

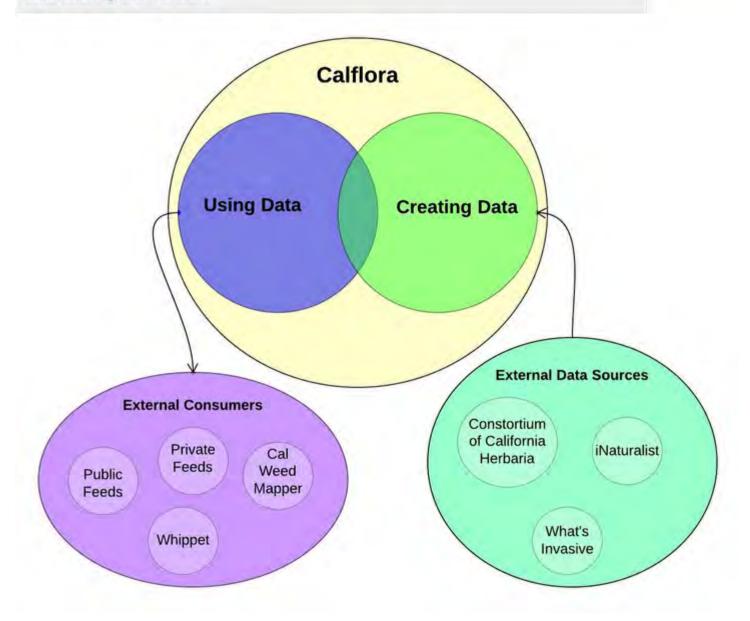




http://www.calflora.org/entry/mgr/diagrams.html



Data Sharing with Partners



About Weed Manager

- Weed Manager is a system to track weed infestations and treatments over time.
- It is an evolution of current Calflora tools for tracking weeds.
- Fully built out, Weed Manager will have feature parity with desktop Geoweed, with some improvements:
 - Configurable Field Sets
 - More Search and Report options

Anticipated Benefits of Using Weed Manager

- Flexibility with respect to data collection. Collect the data you need for a project, no more and no less.
- Ease of data exchange. Core data fields and the core methodology remain standard across all organizations who use the system, thus enabling data exchange and integration.
 - New data is immediately visible in the context of historical data -- the 2 million plant observations available now in Calflora.
- New generation data collection devices. A smart phone or tablet assisted by a GPS puck (eg. Garmin Glo) is a strong platform for this kind of work, with low maintenance cost (phone contract not required).
- Advantages of web technology. Data can be seen and worked on by organization members no matter where they are.

Overview of Weed Manager Tools

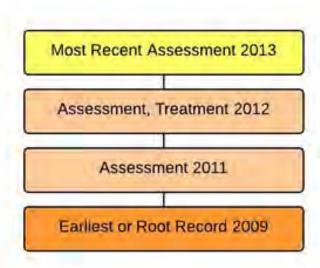


Observation Entry in Weed Manager

Observation Entry has some new features:

When editing a record, view the assessment and treatment history of that record.

Make a new record part of the assessment history of a previously known occurrence.



Aka stack





Mockups of all apps
Observation entry 75%
Treatment entry 75%
Project Setup 75%
Observer Pro 50%
Data import

Phase II

Field Set configuration Work Performed entry Data export Project Setup 100%

Phase III

Search, Report 75%
Observation entry 100%
Treatment entry 100%
Sum Work Performed
Data feed to Phone App
Observer Pro 100%

Phase IV

Search, Report 100% Training Outreach

November 2013

February 2014

May 2014

September 2014



With Cal-IPC, we are applying for a STDP grant (Special Technology Development Program, through the forest service).

We need \$35K matching funds, non-federal. If your organization would like to contribute \$2,500-\$5,000 toward that matching funding, you receive a discount on your annual per organization usage fee.



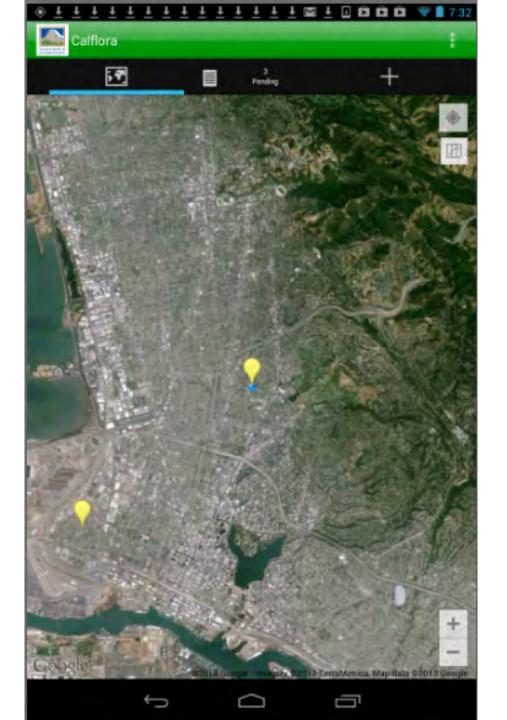
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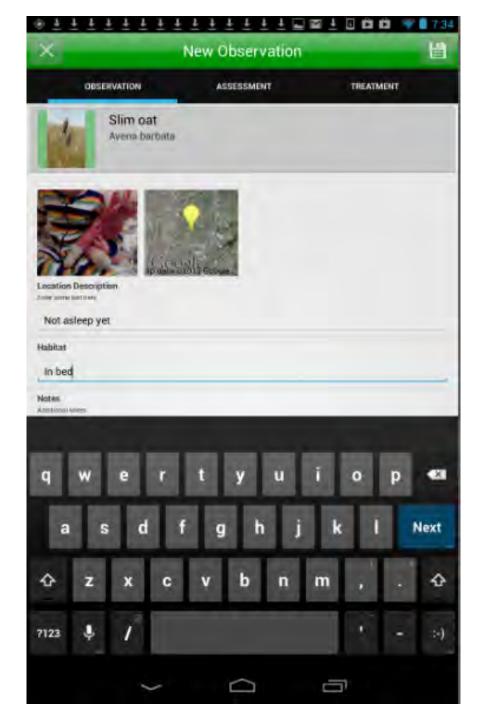
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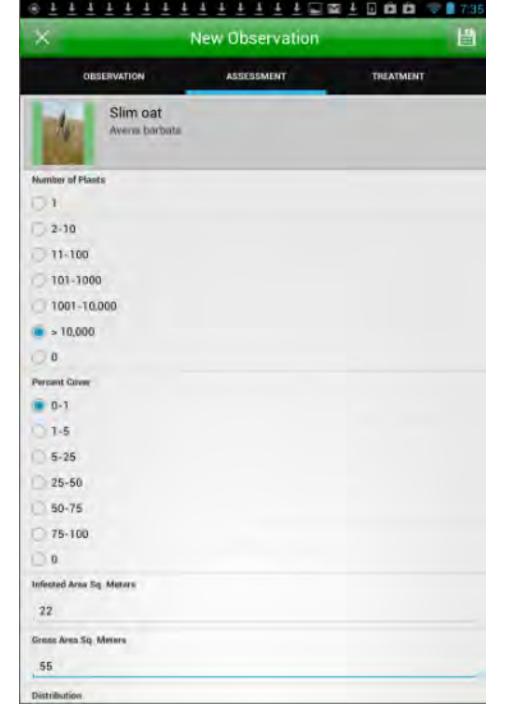
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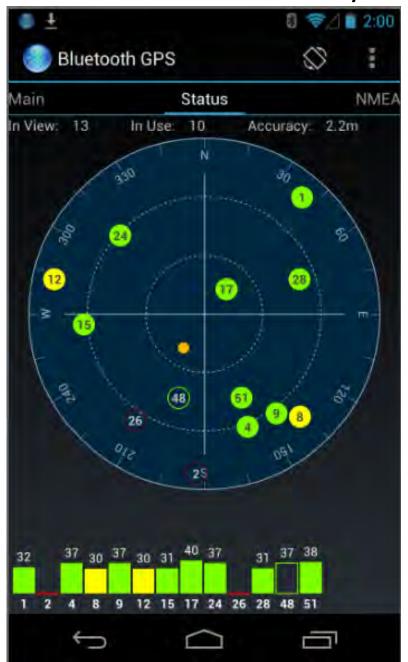








Satellites and Accuracy



Dual XGPS150A

Universal Bluetooth® GPS receiver for portable devices





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THANK YOU! QUESTIONS?