Coordinated Regional Strategy in the Central Sierra Using CalWeedMapper

Wendy West UC Cooperative Extension -Central Sierra

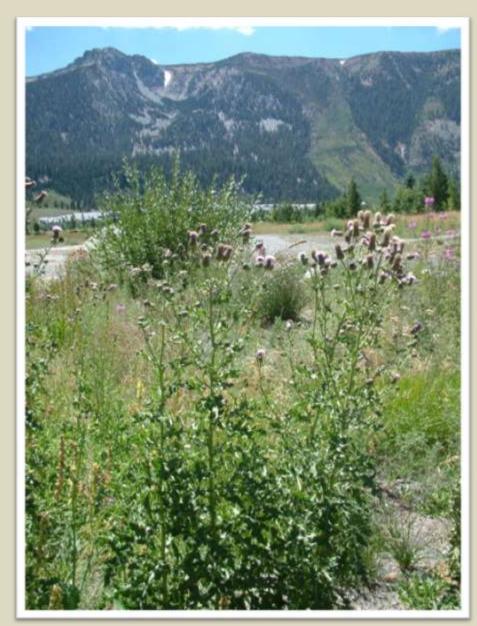


Photo: Bob Case

## **Regional Planning with CalWeedMapper**

- Prepare for funding opportunities
- Collaborative planning at the landscape level (2-5 counties)
- A region contains many Cal-IPC Inventory species
- Goal: focus on a handful of early detection species within a region
- Supplement, not supplant, existing local priorities





- Result of Cal-IPC statewide mapping effort and your expert knowledge contributions!
- Provides information about the distribution of species statewide by combining expert knowledge data and occurrence (GIS) data into one system
- Data submitted to Calflora or CalWeedMapper will update distribution of that species

http://calweedmapper.calflora.org



## **Regional Planning: Steps**

Cal-IPC works with local land managers to:

- 1. Translate information from CalWeedMapper to **regionwide** opportunities for surveillance & eradication
- 2. Draft **Strategic Plan** for review by land managers
- **3. Eradication** targets: apply for funding to address top 5 regional species
- **4. Surveillance** targets: learn and survey for early detection and rapid response
- 5. Watch for **new detections** of these species and respond rapidly!

## **Regional Strategy**

Step 1:

Translate information from CalWeedMapper to **regionwide** opportunities for surveillance & eradication

• Based on Cal-IPC rating, impacts, mapping and local concerns.





## **Regional Strategy**

### Step 2:

### Draft Strategic Plan for review by land managers



REGIONAL STRATEGY FOR THE CENTRAL COAST - 2012 This Regional Strategy can help land managers improve their coordination of invasive plant management at a multi-county scale, while providing the basis for future funding proposals, It is derived from local knowledge and CalWeedMapper's Management Opportunity Report at calweedmapper.calflora.org. Species were selected from Cal-IPC's statewide Invasive Plant Inventory. Please submit weed location data to Californ and alert Cal-IPC of new potential wildland L ERADICATION TARGETS. Land managers will work together to eradicate all populations of these species in the region within five years. These are intended to be integrated into local strategies, if appropriate, without replacing existing local priorities. Species may be removed from the eradication list, pending more COMMON NAME Centaurea stoebe ssp. micranthos (= Centaurea barb goatgrass 2 LINK TO MAP maculosa) CalWeedMapper: Aegilops triuncialis Lythrum salicaria 3 spotted knapweed CatWeedMapper: Centaurea stoebe ssp. micranthos. (= 4 Asparagus asparagoides purple loosestrife Follopia japonica (= Polygonum cuspidatum) bridal creeper CalWeerMapper: Lythrum salicaria 5 6 Centaurea diffusa CalWeedMapper: Asparagin asparagoides Japanese knotweed CalWeedMapper: Fallopia japonica (= Polygonum 7 Chondrilla juncea diffuse knapweed rush skeletonweed CalWeedMapper: Centaurea diffusa

CalWeedMapper: Chondrilla juncea

## **Central Sierra Regional Strategy**

### **Top 5 Eradication goals:**

- 1. Purple starthistle Centaurea calcitrapa
- 2. Diffuse knapweed Centaurea diffusa
- 3. Spotted knapweed *Centaurea stoebe ssp. micranthos*
- 4. Canada thistle Cirsium arvense
- 5. Oblong spurge Euphorbia oblongata)



Oblong spurge

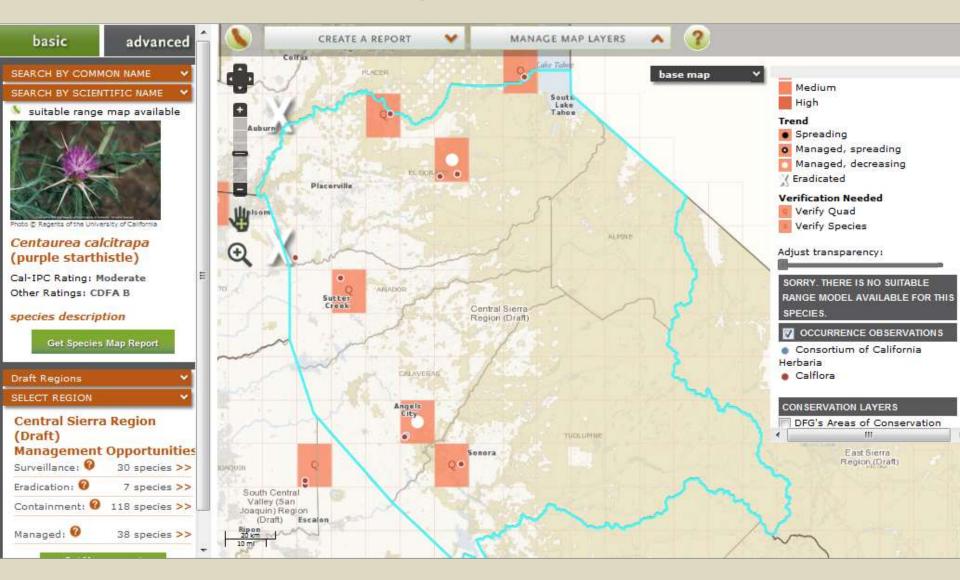




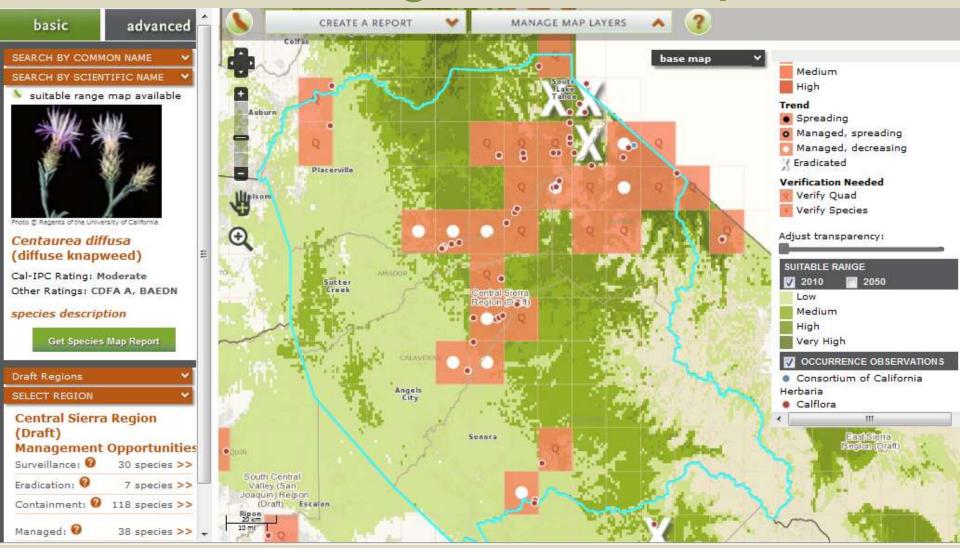
Spotted knapweed

Purple starthistle

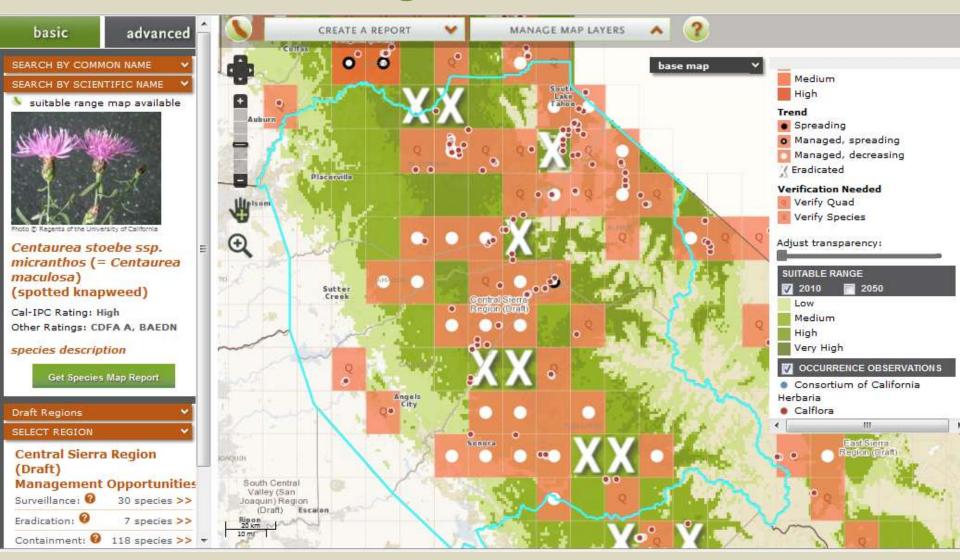
### **Eradication target 1: purple starthistle**



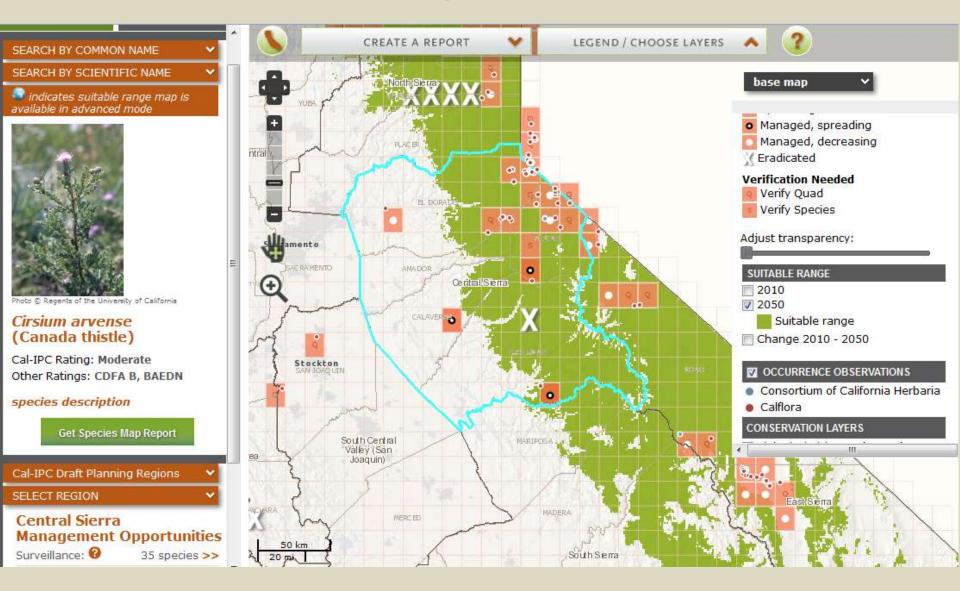
### **Eradication target 2: diffuse knapweed**



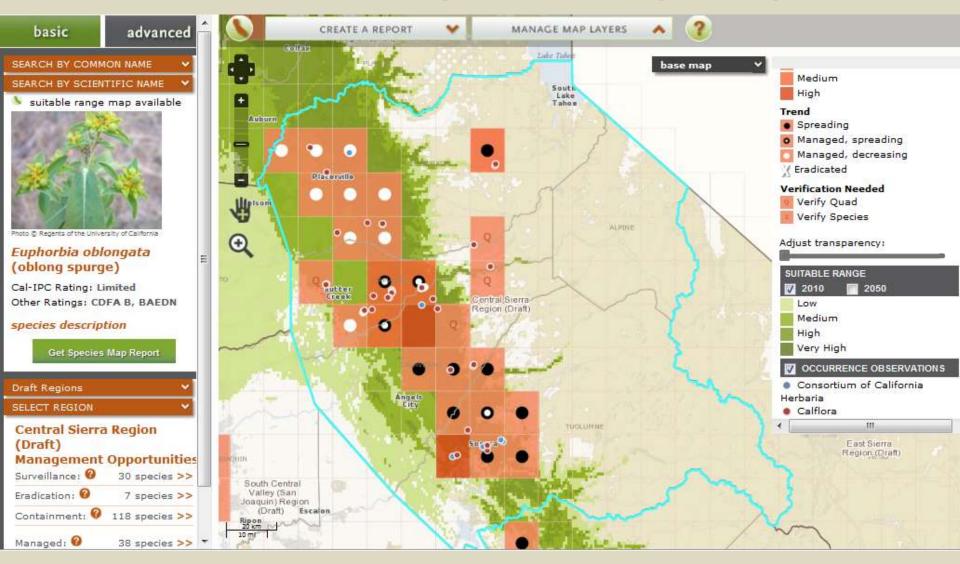
### **Eradication target 3: spotted knapweed**



### **Eradication target 4: Canada thistle**



### Eradication target 5: oblong spurge



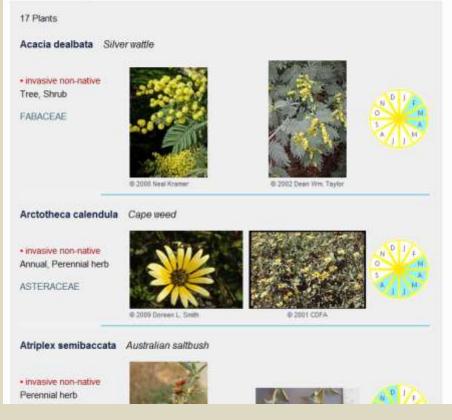
## **Surveillance Targets**

- 17 surveillance species identified for the Central Sierra
- Chose targets for public outreach and education
- Field crews and volunteers can be trained to watch for new species invading, using Calflora's Plant lists (website, .pdf or downloadable to a Smartphone)

← → C <a>D www.calflora.org/app/ipl?vrid=&dist\_id=px147&bloom=t</a>

#### Central Sierra Region Surveillance Species

These species are top priority surveillance species for the 5 county (Alpine, Amador, Calaveras, Eldorado & Tuolumne Central Sierra region.



### Surveillance Targets and Outreach 17 species, including:

- Salvinia molesta (giant salvinia)
- Saponaria officinalis (bouncingbet)
- Stipa miliacea var. miliacea (Piptatherum miliaceum) (smilograss)
- Carthamus lanatus (woolly distaff thistle)
- Saccharum ravennae (ravennagrass)
- Nicotiana glauca (tree tobacco)
- Cynara cardunculus (artichoke thistle)
- Cynoglossum officinale (houndstongue)
- Halogeton glomeratus (halogeton)

## **Regional Strategy**

### **Results:**

# Central Sierra group has applied for NFWF funding for eradication of 5 top priority species over 5 years



Easygrants ID: 33507 National Fish and Wildlife Foundation – Pulling Together: Managing Invasives 2012, Full Proposal (A Title: Priority Invasive Plant Eradication in the Central Sierra

**Grant Request Information** 

Title of Project Priority Invasive Plant Eradication in the Central Sierra

Total Amount Requested\$ 7Matching Contributions Proposed\$ 2Proposed Grant Period10

\$ 74,040.00 \$ 263,000.00 10/01/2012 - 09/30/2014

**Project Description** 

CWMAs in a 5-county central Sierra region have identified high-priority eradication targets. This project conducts eradication activities and shares a prioritization approach with other regions.

#### Project Abstract

The Sierra Nevada region of California is experiencing increased invasive plant incursion. Through early detection



#### Northwest

BETA

Del Norte, Humboldt and Trinity WMAs have identified 12 eradication and 17 surveillance targets. An eradication workplan is under construction and will be reviewed at upcoming December meeting. A presentation to learn about these species is under development for Humboldt County's general WMA meeting in the spring.

#### **Central Coast**

Monterey, Santa Cruz and San Benito participants identified 8 eradication and 8 surveillance targets in a strategic plan. A presentation to learn about these species is under development for an upcoming joint Santa Cruz/Monterey WMA meeting. WMA chairs are coordinating directed searches/mapping to determine infestation sizes and location to finalize the eradication workplan. Monitor these and other newly reported occurrences in Calflora.



#### **North Central**

Siskiyou and Shasta WMAs have identified 9 eradication and 15 surveillance targets and have a draft strategic plan. Participants will use an upcoming WMA meeting to review and update the mapping of the eradication species. An eradication workplan is under construction and will be reviewed at upcoming December meeting.

#### **Central Sierra**

Alpine, Amador, Calaveras, El Dorado, and Tuolumne counties prioritized 10 eradication and 15 surveillance targets. This strategy has been used in a Pulling Together grant proposal to NFWF from which we'll hear results on Nov 30. Near term goal is to review/update eradication species in CalWeedMapper by Nov 15 and submit new occurrences to Calflora, if found. Monitor these and other newly reported occurrences in Calflora.

- 100% -

### Watch for new detections and coordinated rapid response!

<u>Central Sierra's Weed Observation Hotline</u> displays surveillance and eradication occurrences submitted recently in our region...

Calflora Observation	Hotline v. 1.17 Vearch	► Links ► Markers	🔻 Мар	Background
Scientific Name report	Common Name	Plant Status non-native 👻	uba	Truckee Carson City Lake Tance
Observer	Source	Plant List Central Sierra region hotline 👻		South Lake
Location	Project	Date e.g. 2012-12-31 After Before	Roseville + Citrus	El Dorato National Forest
► Group Criteria	<ul> <li>Other Data Sources</li> <li>Include records from</li> <li>Consortium of CA Herbaria</li> <li>What's Invasive *</li> <li>iNaturalist</li> <li>research grade</li> <li>casual grade *</li> <li>Include Checklists</li> </ul>	2012-3-1  Define a Rectangle  in rectangle  in map area  records with photos  SEARCH	Sacrai nento Ek Grove Loci Stocktoni Tracy Man	Hece Oakdale
Column Set		Order by		Odesto National Park
Weed Data - Customize		Observation Date 🚽		Turlock
7 records: Click on ID to colod	an observation Click on a photo	to coo it larger		

ID	Plant	Photo	Observer	Source	Observation Date	Phenology	InfestedArea	GrossArea	Cover	Distribution	National Ownership
cbo7768	Hypericum perforatum Klamathweed, common St. Johnswort		Takagi & Prince		2012-06-30	Flowering	0.1 Square Feet		0 - 1%		* National Park Service

## **Other Regions**

## Other regions using this process:

- Monterey San Benito Santa Cruz Counties
- Shasta & Siskiyou Counties
- Del Norte Humboldt Trinity Counties
- Cache Creek Watershed (Yolo/Lake Counties)
- State Parks Santa Cruz Mountain Sector

• More to come in 2013!



## Acknowledgments

Thanks to all of the land managers who have contributed their time and knowledge.

Funding provided by:

- US Forest Service, State & Private Forestry
- California Dept. of Food and Agriculture
- California Landscape Conservation Cooperative
- Richard and Rhoda Goldman Fund
- USDA Forest Service Special Technology Development Program
- National Forest Foundation
- Shasta-Trinity National Forest

Cal-IPC is an equal-opportunity provider.