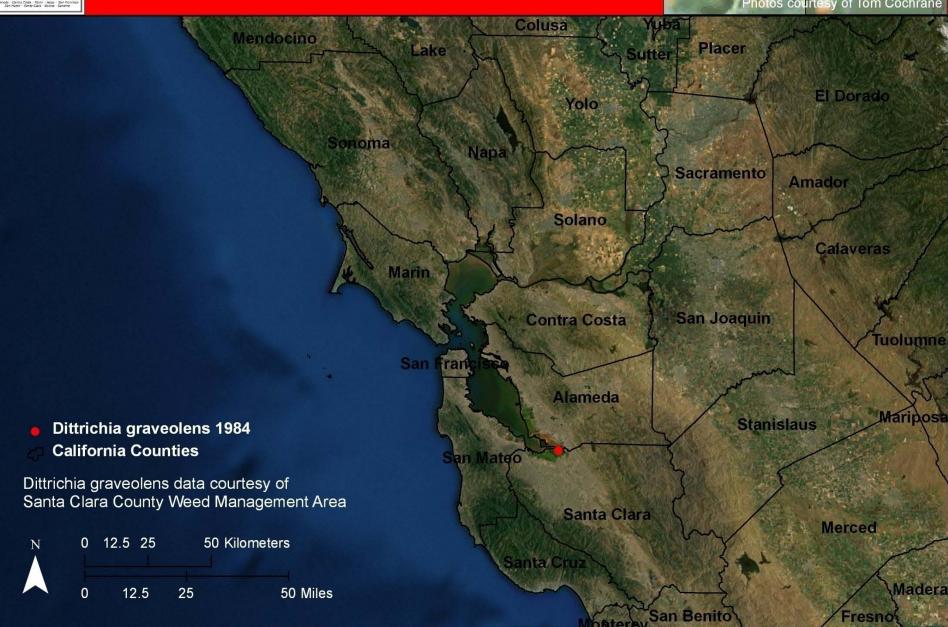
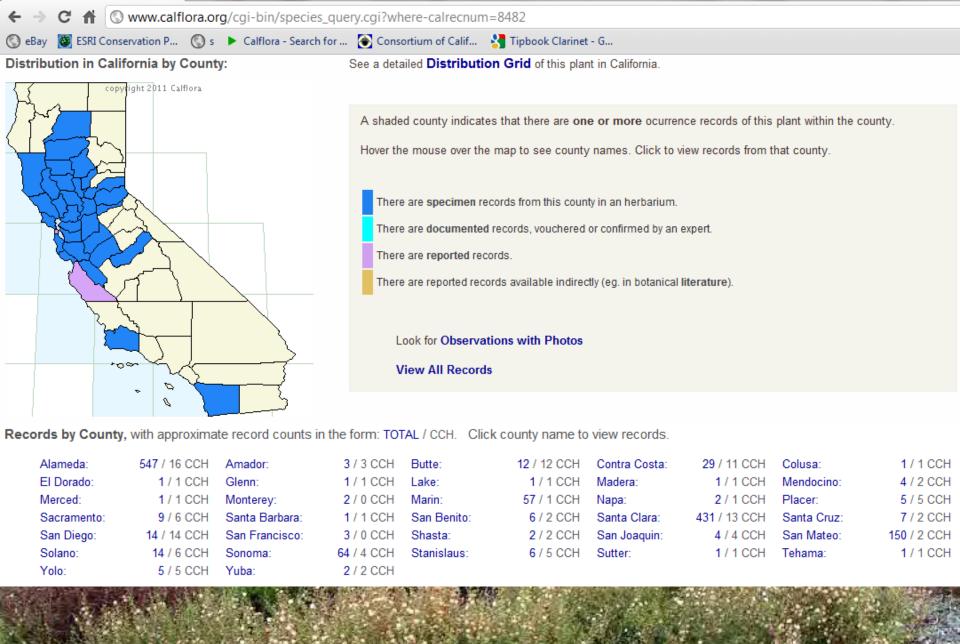




Dittrichia graveolens 1984







2006 Kick-off meeting



WEED DATA WANTED FOR THE CALFLORA DATABASE!

Three Ways to Contribute Data!

- 1) Enter individual non-native plant observations online.
- 2) Submit an entire GIS dataset from a project.
- 3) Submit field observations of non-native plants via a smartphone application.
- *A Frequently Asked Questions page about Contributing Plant Observations is posted at www.calflora.org/add/pofaq.html

1) Enter individual non-native plant occurrences.

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News and Events Around the West

Invasive Weeds Beware -- BAEDN Is Here!

"EARLY DETECTION" PROGRAM LAUNCHED TO MARK CALIFORNIA INVASIVE WEEDS AWARENESS

SF BAY AREA, CA JULY 20, 2009

Go to www.calfl

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Calflora BAEDN Weed Courveroog I mry

Bay Area Early Detection Network gets rolling

Daniel Gluesenkamp, Audubon Canyon Ranch

Whether we are protecting humans from swine flu or protecting rivers from Arando donax, early detection and rapid response (EDRR) is the most cost-effective approach for coping with biological invasions. Indeed, the official California Invasive Weed Action Plan identifies EDRR as "the single most important element" for coping with invasions. EDRR is a "stitch-in-time" approach which proactively deals with infestations before they can grow into large and costly environmental threats. By acting early we efficiently prevent the environmental and economic damage caused by harmful invaders, we can use less intrusive control techniques, and we dramatically reduce the



planning and resources required to manage populations compared to when they have grown larger and become well established. The Bay Area Early Detection Network

(BAEDN) is an exciting new initiative

that builds an EDRR system to serve the entire nine county San Francisco Bay Area: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma counties. The group unites and coordinates the EDRR efforts of dozen of agencies, hundreds of professional land managers, and potentially thousands of volunteers. BAEDN partners work together to develop a scientifically rigorous list of the most harmful invasive plants, train each other in detection techniques, make detections and report them to the online website and then prioritize individual patches so that the most dangerous outbreaks can be removed before they spread. It's simple, it's

... continued next pag-

which brings up a small scrollable window with field name definitions.

Typing within the Scientific or Common Name fields automatically act California's non-native plant names. Taxa not yet recorded in Californ appear in the drop down menu. Once a taxon is selected you can exp toggle to the lower left of the map.

If you know the coordinates, check the box to enter them; otherwise, the location. The drop-down menu in the map's upper right corner all

You may also click on the Photos toggle to add your pictures associate

After data entry is complete, click the Save button on the bottom left

have been harmed. It's simple, it's sensible.

Initiated in 2006 by Audubon Canyon Rand Gluesenkamp, National Park Service's San Andrea Williams, U.S. Fish & Wildlife San F numerous colleagues throughout the Bay A the network. Calflora has built BAEDN's use Google map interface and pick-lists to make

In addition, BAEDN has hired Jennifer Ster California Department of Food and Agricult Wildlife funding. ACR's Partners in Conserv Foundation have also supported BAEDN, B. Watchers program, which trains volunteers Gate National Recreation Area, and builds

and the California Department of Food and Agriculture.

s have announced the launch of the Bay Area Early alifornia Invasive Weed Awareness Week of July 20-25th. ponse (EDRR) system designed as the first line of defense

twork includes the entire nine-county San Francisco Bay

BAEDN -- A New Strategy for Invasives

By Don Mayall, Chair, Rare Plants, Santa Clara County

In 1984, a member of our Chapter discovered an unknown tarweed-like plant along the railroad tracks near Alviso in Santa Clara County. It was not even in the Jepson Manual. It was identified as stinkwort, (Dittrichia graveolens), an invasive nonnative from Europe. Little attention was paid to it by land managers, although it had been a pest plant in Australia for the past 150 years. It subsequently spread rapidly in the county forming a dense monoculture in wetlands, vacant fields, and along trails. It is now a serious problem to the Santa Clara Valley Water District and the County Parks and Recreation Department.

In 2004 a grass was noted growing under the redwoods at Thornewood Open Space Preserve in San Mateo County. A perennial bunchgrass, it seemed a lot like native grasses. but was checked out and discovered to be slender false brome (Brachypodium sylvaticum), a nonnative from Europe that had already spread through 10,000 acres in Oregon. Because of quick work by the Open Space District and the County Department of Agriculture, this infestation is being brought under control before it spreads widely.

The moral of these stories is that if an invasive plant is detected, its potential to become invasive is recognized, and responsible authorities are notified early enough. widespread environmental damage and costly control programs can be avoided. The California Invasive Weed Action Plan identifies early detection and rapid response as the single most important element for coping with pest

A new effort, the Bay Area Early Detection Network (BAEDN), has just been launched in the nine-county area around San Francisco Bay. This project has received funding from several sources, including the National Fish and Wildlife Foundation, the US Fish and Wildlife Service BAEDN provides a system for easily reporting sightings of invasive plants and getting them into the Calflora Database.



The local community chapters are committing labor force and other in-kind service with the Agency purchasing the needed chain saws, herbicide and licensed applicators.

Long range plans by Ft. Defiance Agency are to reestablish the historic

vegetations along the Little Pueblo Colorado Wash that includes transplanting native species as Cottonwood and Navajo Willow along the stream bed. Long-term benefits are the protection and preservation of native vegetation which will enhance the beauty and conservation of the wash by controlling the aggressive woody

SF Bay Area Early Detection Network Each of us has born witness to an ugly invasion, each of us carry the memory of a wild piece of California which has been lost to weedy invaders. We all have noticed a small outbreak of some harmful weed, and



thought "someone should do something about that before it expands," Fortunately, there are tools which can save some of our remaining wild places. Whether we are protecting humans from swine flu or protecting rivers from Arundo donax, early detection and rapid response (EDRR) is the most cost-effective approach for coping with biological invasions. EDRR is a "stitch-in-

time" approach which proactively deals with infestations before they can grow into large and costly environmental threats. By acting early we efficiently prevent the environmental and economic damage caused by harmful invaders, and we can use less intrusive techniques, and we dramatically reduce the planning and resources required to control large, established invasive plant populations.

We have all recognized the importance of early detection and rapid response (EDRR), and EDRR is consistently identified as "the single most important element" in coping with biological invasions. (2005 California State Noxious Weed Action Plan). Of course, we also know about the benefits of regular exercise: it can be difficult to do what we know is right. An effective EDRR program is a rare thing; it requires large-scale coordination of multiple actors, it requires systems for prioritizing targets and managing multi-year treatment, it means that some large and compelling invasions go without treatment so that we can address small but important

The Bay Area Early Detection Network (BAEDN) is an exciting new initiative that builds an EDRR system to serve the entire nine county San Francisco Bay Area. The group unites and coordinates the EDRR efforts of dozens of agencies, hundreds of professional

10:06 AM

Under the Save button is an option to publish the record which makes of 2 records can only be viewed by the person who entered them. Some contributors choose to work on certain rec

time in an unpublished state, and then publish those records only when they are ready.

Contact spprt@calflora.org for additional Calflora technical a



Growing the Network

Acterra

Alameda County Department of Agriculture

Audubon California

Audubon Canyon Ranch

BAELIN Inc.

Bay Area Open Space Council

Bay Institute

Calflora Database

California Association of Resource Conservation

Districts

California Department of Fish and Game

California Department of Food and Agriculture

California Department of Pesticide Regulation

California Invasive Plant Council

California Native Plant Society

California State Coastal Conservancy

California State Parks

Caltrans District 4

City and County of San Francisco

City of Walnut Creek

Conservation Value, Inc

Contra Costa County Department of Agriculture

Contra Costa Resource Conservation District

Creekside Center for Earth Observations

Ducks Unlimited

East Bay Regional Parks District

Friends of 5 Creeks

Friends of Corte Madera Creek

Friends of Glen Canyon Restoration Team

Friends of Sausal Creek

Garcia and Associates

Gold Ridge Resource Conservation District

Golden Gate National Parks Conservancy

Jasper Ridge Biological Preserve - Stanford

University

Jepson Herbarium

Laguna de Santa Rosa Foundation

Land Trust of Napa County

Literacy for Environmental Justice

LSA Associates

Marin Audubon

Marin County Open Space District

Marin Municipal Water District

Midpeninsula Regional Open Space District

Napa Botanical Survey Services

Napa County

National Park Service

Nature in the City

North Hills Landscape Committee

Peninsula Open Space Trust Cloverdale

Pepperwood Preserve

Pacific Gas & Electric (PG&E)

Presidio Trust

Regional Water Quality Control Board

San Francisco Bay Joint Venture

San Francisco Estuary Invasive Spartina Project

San Francisco Natural Areas Program

San Francisco Parks Trust

San Mateo Co Parks & Rec Foundation

San Mateo County Department of Agriculture

San Mateo Resource Conservation District

Santa Clara County Department of Agriculture

Santa Clara County Open Space Authority

Save the Bay

Shelterbelt Builders INC

Solano Agricultural Commissioner

Solano Land Trust

Solano Resource Conservation District

Sonoma Ecology Center

Sonoma Land Trust

Stanford University

University of California Berkeley Botanical Garden

University of California Berkeley Herbarium

University of California Cooperative Extension

University of California Davis

University of California Santa Cruz

United States Fish & Wildlife Service

Weed Management Area - Alameda/Contra Costa

Weed Management Area - Marin/Sonoma

Weed Management Area - Napa

Weed Management Area - San Francisco

Weed Management Area - San Mateo

Weed Management Area - Santa Clara

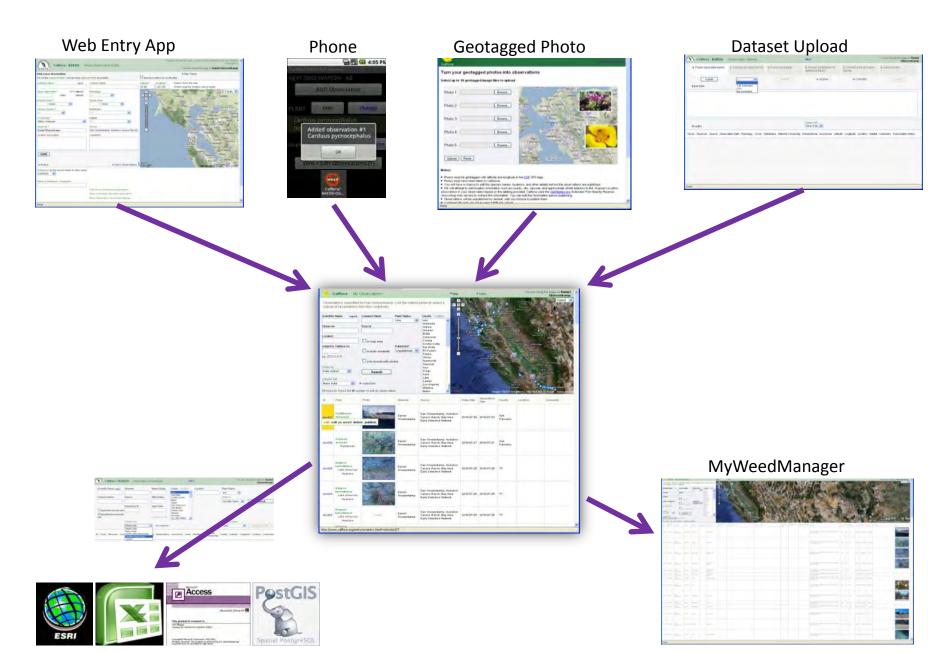
Weed Management Area - Solano

West Coast Wildlands

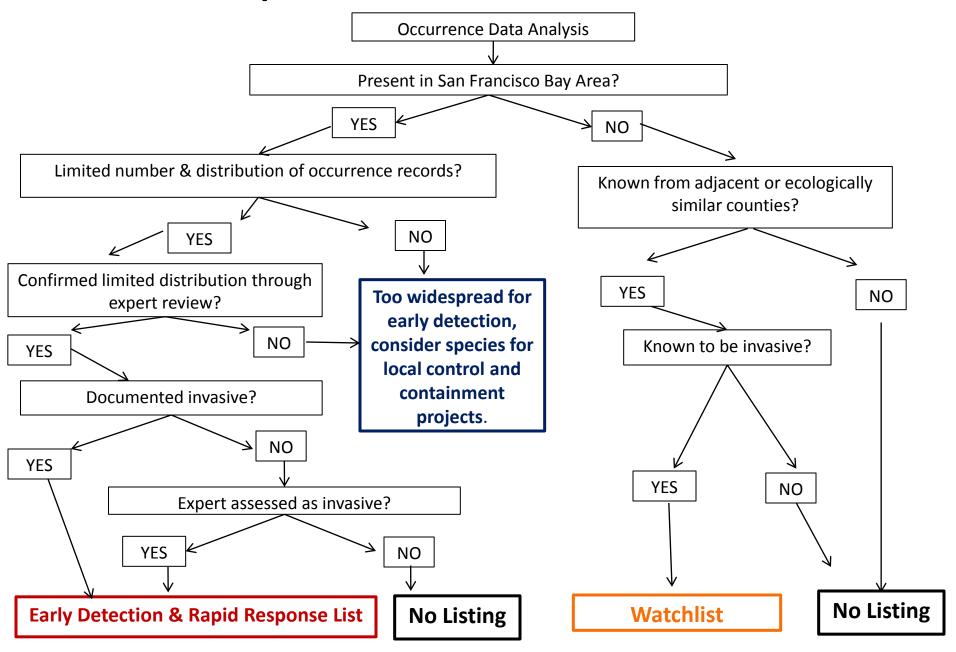
2010 Partners meeting



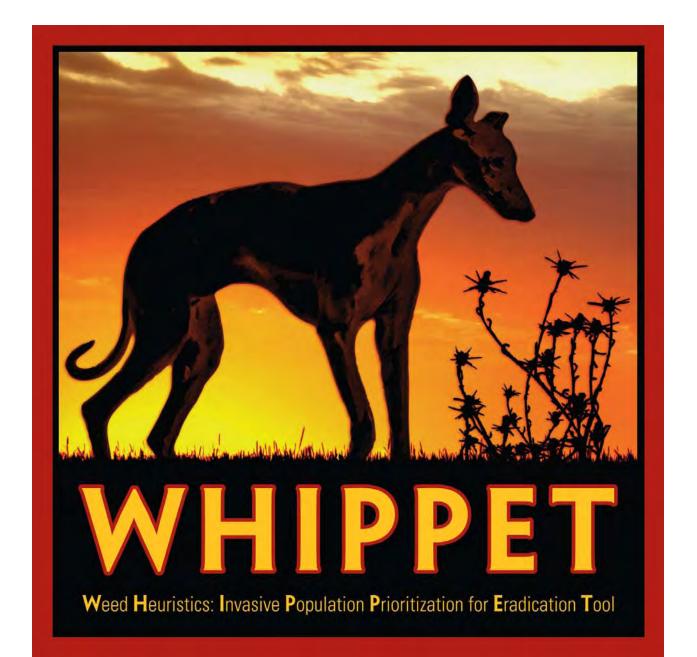
Occurrence Reporting

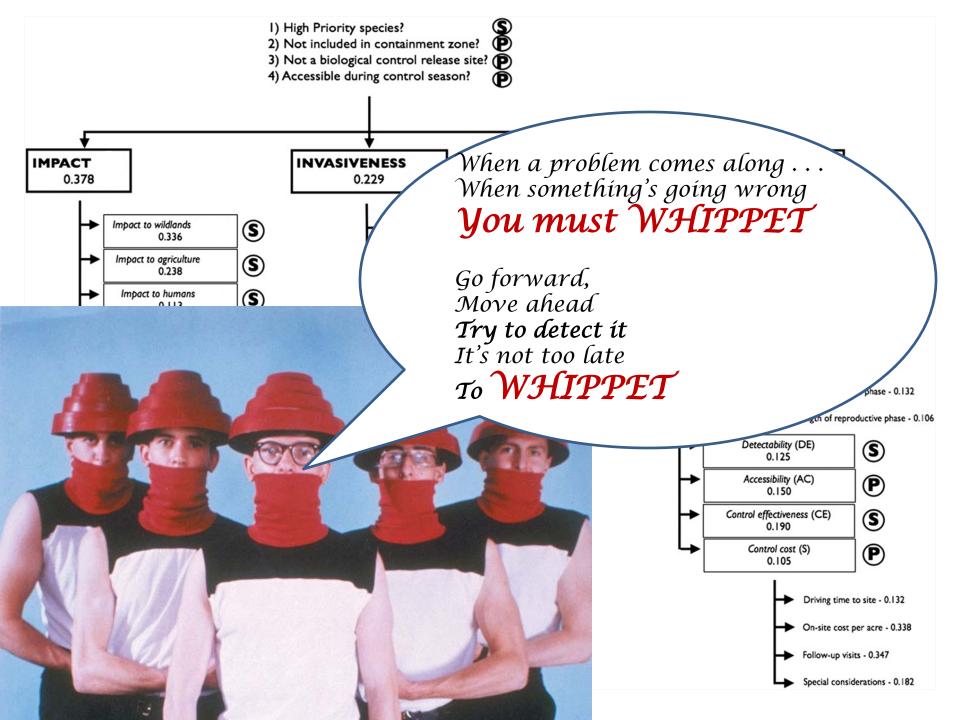


Species Prioritization



Occurrence Prioritization







BAEDN High Priority Populations April 15, 2011





BAEDN Population Verifications as of October 3, 2011

Category	Definition	Number of sites	% of total sites
Extirpated	5 Consecutive years of surveillance shows no aboveground plants, or at least no aboveground plants found within the past 5+ years.	10	3.7%
Extirpated?	All plants removed over 5 years ago. Monitoring status for the site is uncertain though.	8	2.9%
Under surveillance	The site is checked for plants annually but there are no aboveground plants. The site is in transition from 'Under treatment' to 'Extirpation.' If any plants are found during surveillance the site status should return to 'Under treatment.'	21	7.7%
Under treatment	Target non-native species actively being removed.	135	49.6%
Partial treatement	Only part of the infestation being treated.	3	1.1%
Planned for treatment	Planned for treatment in 2011 or pending permits or funds.	16	5.9%
Not under treatement	Not under treatment by landowner or manager.	50	18.4%
Unknown	Not known by landowner or manager	26	9.6%
Unverified	No response from landowner, manager, or reporter when contacted about the site.	3	1.1%
	Total	272	100%



Licorice plant (Helichrysum petiolare) Marin County



Hanging sedge (Carex pendula) Marin County







Canary Island St. Johns wort (*Hypericum canariense*) on the San Mateo coast









Ravennagrass
(Saccharum ravennae)
UC Davis,
McLaughlin Reserve,
Napa County

Contra Costa County

Castor bean (*Ricinis comunis***)**



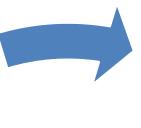
Purple loosestrife (Lythrum salicaria)



Photos by Mike Perlmutter

Next Steps: Keep on keepin' on

Determine what species will be bad tomorrow



Find where they are today



EDRR



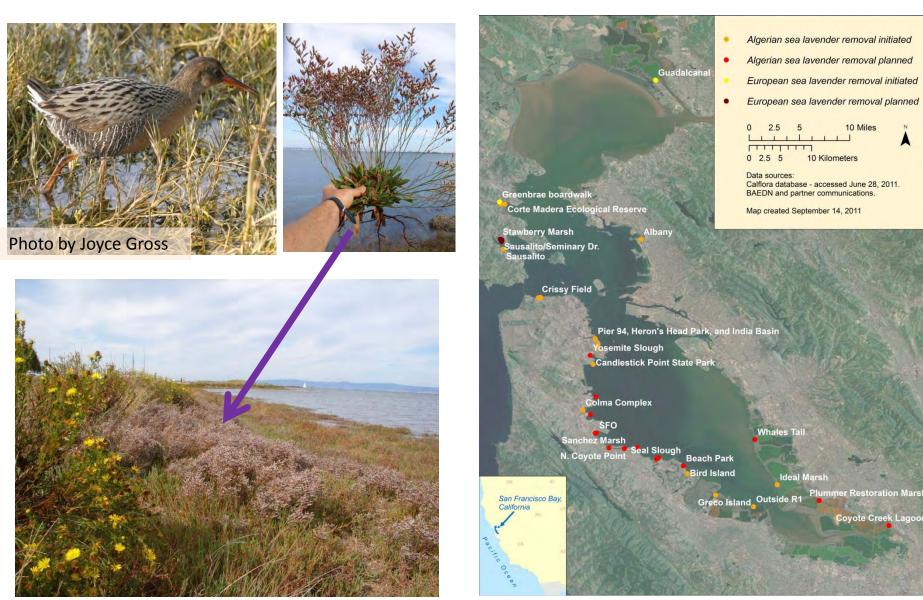
+ Trainings, tool development and capacity building

Show results, ask for more money



Prioritize and eradicate the most harmful

Next Steps: Improving Coastal Protection



Photos by Mike Perlmutter

Thank You Partners and Supporters





















For more info please go to:

BAEDN.org

Contact Mike@BAEDN.org



Reporting

How to Report an Occurrence and/or Share a Dataset

Data can be entered either as individual occurrences, or by uploading entire datasets.

- To upload a limited number of occurrences, proceed to the main <u>Occurrence Reporting</u> page and enter information in the provided fields. Click on any of the field names for help.
- To upload an entire dataset, please proceed to the <u>Upload Tool</u>. Additional guidance about uploading entire
 datasets is available <u>here</u>, or please contact BAEDN staff and we can provide assistance. All datasets are
 appreciated; we will happily upload datasets that include populations of widespread species, as well as
 early detections.
- Mobile Reporting Tools developed by BAEDN and Calflora to facilitate reporting occurrences using smart
 phones are now available in BETA.

The BAEDN Database and Calflora

BAEDN's Occurrence Reporting Database has been built by <u>Califora</u>, an organization dedicated to providing information about California plant biodiversity. Califora's digital library is an important repository for information on California wild plants from diverse sources, with access to over 1 million plant records. Data can be easily searched on the internet, and query results can be readily downloaded.

Definition of an Occurrence

An occurrence, for the purposes of the BAEDN database, is any occurrence of a non-native plant species. All infestation reports are important; and reports of even widespread species are important for identifying which

What is Early Detection?

Report

What counts as an early detection?

- Species which are not yet widespread. The most important species for rapid response are listed on the Priority Species List, which will soon be available for download.
- Species which are widespread, but in areas where they are not yet abundant.