



### Volunteer Forces at Work

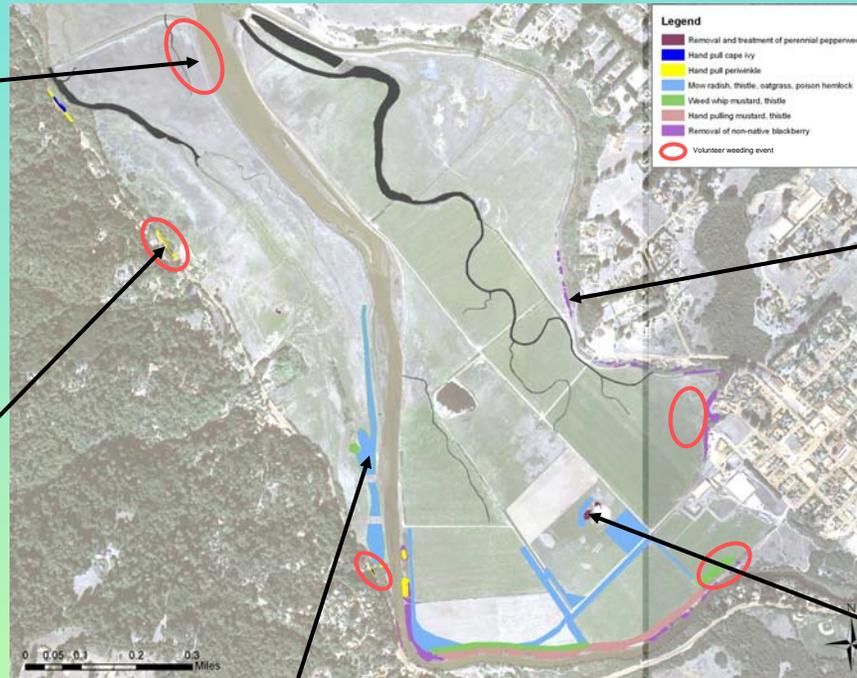
From 1<sup>st</sup>-graders to college-age students to community members, volunteer groups have helped "weed-out" invasive species.

Right: At a high tide refugia, students weed around plantings (pictured below).



Project manager, Lorraine Parsons, and volunteers remove cape ivy (*Delairea odorata*) where it resprouted after previous removal efforts.

## Taking Action Against Invasive Plants



### Blackberries:

Do you know the difference between non-native and native?



**Non-native**  
Himalayan blackberry  
(*Rubus armeniacus*)



Back of leaf much lighter than front  
Number of leaflets: 3 (when young)  
5 (commonly)



Few, large thorns

**Native**  
California blackberry  
(*Rubus ursinus*)



Back of leaf green, both sides similar  
Number of leaflets: 3



Many, small thorns

### Natives v. Non-natives



**Non-native invasive:**  
Milk thistle  
(*Silybum marianum*)

**Non-native invasive:**  
Poison hemlock  
(*Conium maculatum*)

**Native grass:**  
Pacific wildrye  
(*Leymus triticoides*)



**Non-native invasive:**  
Wild and cultivated radish  
(*Raphanus sativus*,  
*R. raphanistrum*)

**Non-native invasive:**  
Oatgrass  
(*Avena* sp.)

As these photographs depict, there are both native and non-native species capable of forming densely vegetated stands. With luck, some selective mowing, and revegetation efforts, native wildrye might win this battle...or at least be able to stand its ground!

Want to be on Team Wildrye??? See our flyer "Planting Natives In Their Midst" if you'd like to help with ongoing revegetation efforts.

### Perennial Pepperweed – yikes!

Perennial pepperweed (*Lepidium latifolium*) is a very aggressive, salt-tolerant species. It is capable of attaining complete cover by way of underground rhizomes; lengthy, almost continual flowering periods; numerous, highly-viable seeds; and rhizome fragments that can sprout when they are as small as 2 cm! This species is a severe and immediate threat to many San Francisco Bay Area salt marshes... including the Giacomini Wetlands.

