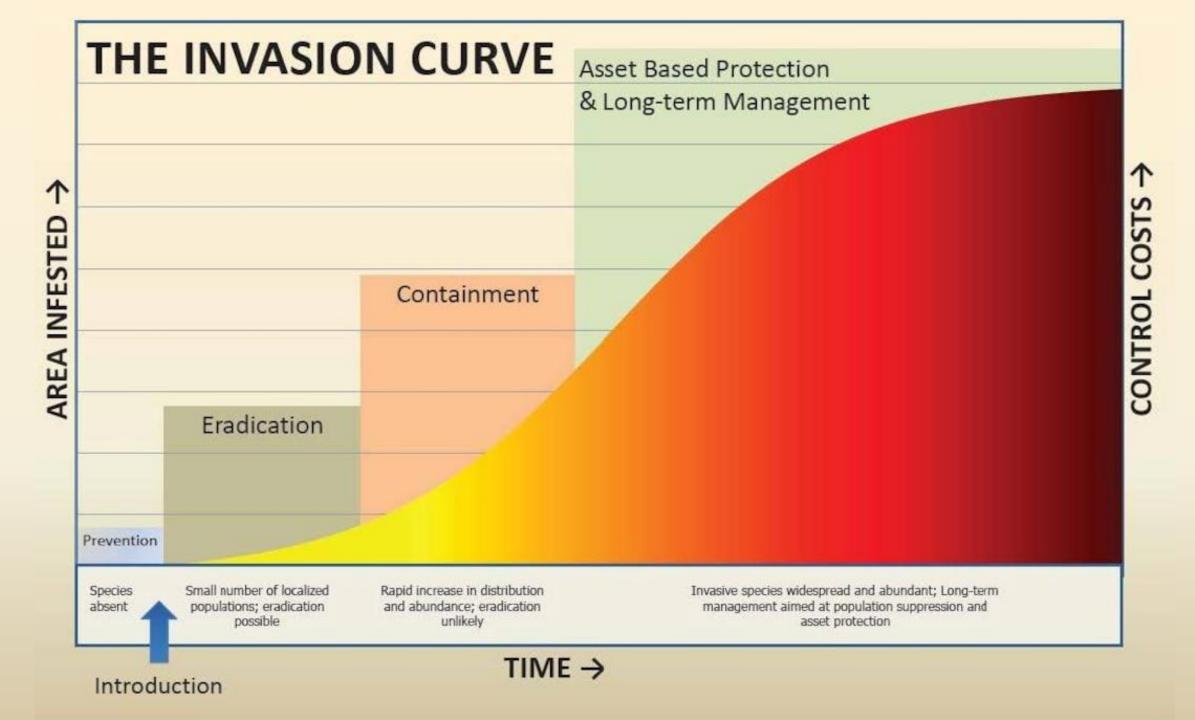
Monitoring Invasive Plant Management



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Cal-IPC Regional EDRR Targets

- CDFA-rated
- Present in less than 10% of the region
- Under management by most counties in the region



Region	No. Counties	Area (sq. miles)	No. EDRR Targets
Bay Area	9	6,907	17
Central Coast	3	5,114	8
Central Sierra	5	6,282	7
Channel Islands	3	351	37
Desert	1	20,057	-
East Sierra	2	13,230	12
North Central	3	13,233	18
No. Central Valley	6	7,996	18
North Coast	2	4,763	11
North Sierra	6	8,139	14
Northeast	2	8,459	5
Northwest	2	4,574	8
Sierra San Joaquin	3	9,544	3
So. Central Coast	2	6,034	7
So. Central Valley	3	4,821	7
South Coast	2	5,901	10
South Sierra	3	14,346	6
Southeast	3	15,590	5
Southwest	3	12,204	22

Most Common EDRR Targets

	Species	Common Name	Count of Regions Listed as an EDRR target	
	Linaria dalmatica ssp. dalmatica	dalmatian toadflax	9	
	Centaurea stoebe ssp. micranthos	spotted knapweed	8	
1.38	Onopordum acanthium	Scotch thistle	8	
	Chondrilla juncea	rush skeletonweed	7	
	Cynara cardunculus	artichoke thistle	5	

GOAL: Visit and manage each EDRR population each year



South Coast: Los Angeles and Ventura Counties

Southwest: Orange, western Riverside, and San Diego Counties



Bay Area: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma Counties

Regional Comparison

Region	No. of Counties	Area (acres)	No. of EDRR Species	No. of Populations in 2023	Percent of Populations Visited in 2023	Percent of Populations Managed in 2023
Bay Area	9	4,789,672	15	279	22%	4%
South Coast	2	3,701,108	9	226	18%	<1%
Southwest	3	4,425,057	15	714	10%	3%

Percentage EDRR Populations Visited in 2023



Counting EDRR Populations

Included Calflora records from 2010 - 2024. This included observation records, survey records, herbarium records, and iNaturalist records

Desert knapweed (*Volutaria tubuliflora*) in the Anza Borrego area was not included in the count. Japanese knotweed (*Fallopia japonica*) in Marin County was not included in the count.

History stacks were counted as a single population.

Populations of the same species within 25 meters of each other were counted as a single population.

We removed CalWeedMapper records, which are redundant with other data.

Our count totals are lower than a direct Calflora search.

Tracking Management

We count a population as managed when there is a record from the current year (ideally appended to a history stack for that population) with the **"Management Status"** field marked as either:

- "Under management" (ideally with details in the "Notes" field)
- "Searched for, not found" if management has been recorded in previous years (we assume that this is post-treatment monitoring)

(Note that "Searched for, not found" is also used when investigating the site of an old Calflora observation to see if the plant is truly there now.)

Herbarium Records

 These populations may no longer exist and may inflate the number of EDRR populations

 Visiting these records and creating new Calflora observations with a completed management status will help us to more accurately represent EDRR management

Region	No. of Herbarium Records	Percent of Populations that are Isolated Herbarium Records
Bay Area	71	16%
South Coast	26	6%
Southwest	84	4%

iNaturalist Records

- iNaturalist records make up a significant percentage of EDRR records
- These records may come from the community. It is important to stay aware of these records and verify these records.

Region	Percentage of iNaturalist Records
Bay	3%
South Coast	69%
Southwest	35%

Regional EDRR Management Highlights

Almost half of Orange County's visits to EDRR populations in 2023 included management.

The South Coast and the Southwest regions have less than 10% of isolated herbarium records as populations.

Help track regional EDRR populations

- **1.** Keep records in Calflora aim for every EDRR population, every year
- 2. Use history stacking* append new records for each visit
- 3. Mark management status* and leave details in "Notes" field
- 4. Sign up for email alerts* and follow up on new observations
- *Training videos available from recent webinars at:

www.cal-ipc.org/solutions/mapping/



Thank you!

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Spotted knapweed (Centaurea stoebe ssp. micranthos)