If You Don't Know, then Know Where to Go

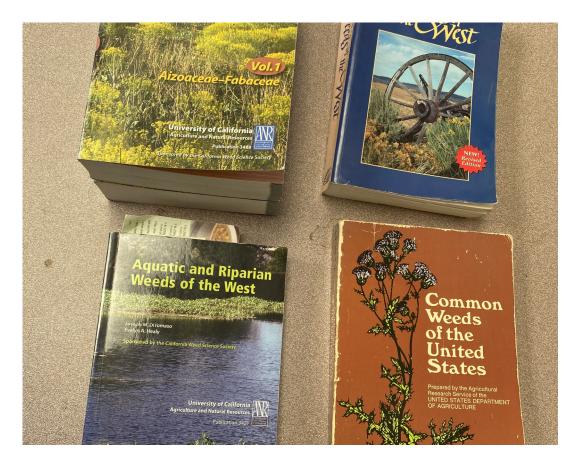
Sleuthing reveals a new population of desert knapweed (Volutaria tubuliflora) in San Diego County

Tracie Nelson Wildland Habitat Specialist California Department of Fish and Wildlife

'Botany-Challenged'

If you don't know its scientific family name, how can you ID an unfamiliar species?

* You won't find novel weed information in dated print.





April 3, 2023

Never seen this before





Seek

Dicot?!

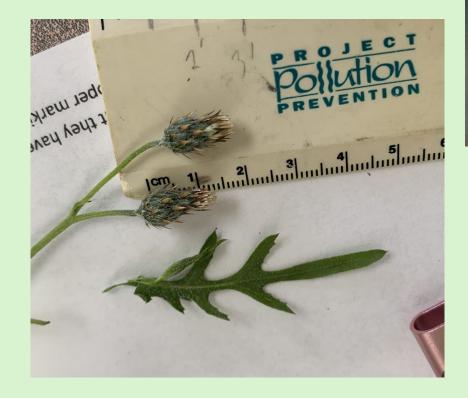
This is usually more helpful

Some kinda thistle.....

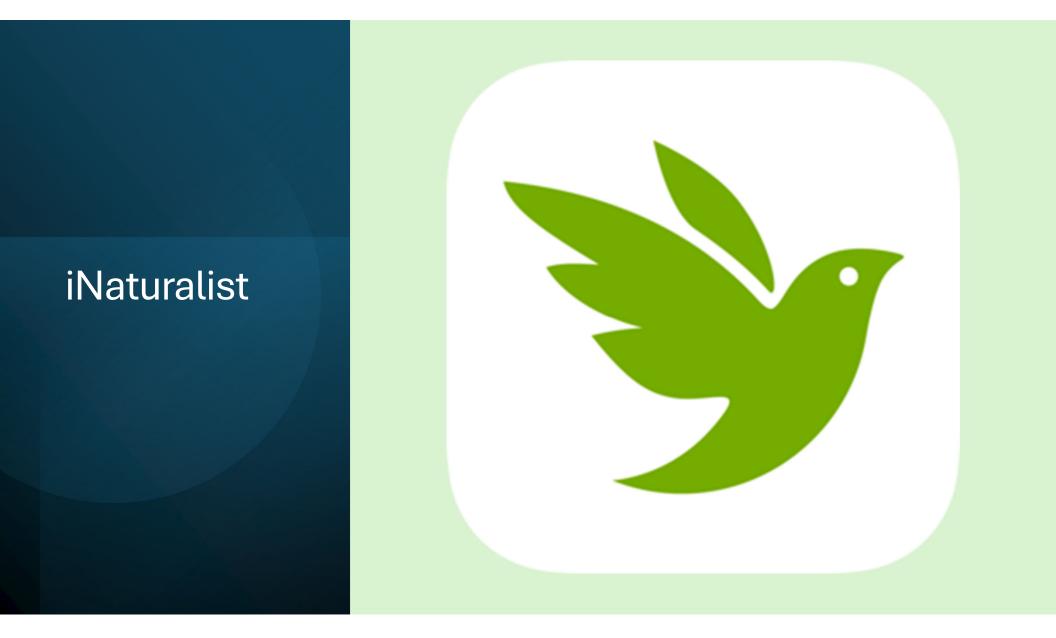




Took lots of photos







Cal-IPC

• Hail-Mary scroll



Plants A to Z

rowse below to see all plants on the Cal-IPC Inventory, including both invasive plants and "Watch" species. Clicking on the scientific name will take you to the Plant here you'll find links to more information on the plant.

Acacia baileyana

cootamundra wattle



Acacia cyclops

Acacia dealbata



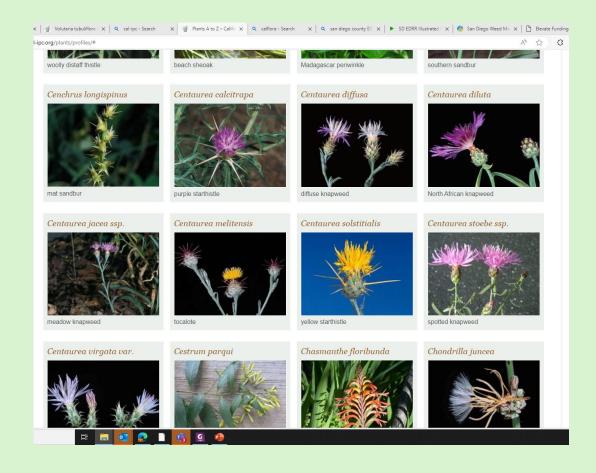


Sydney golden wattle



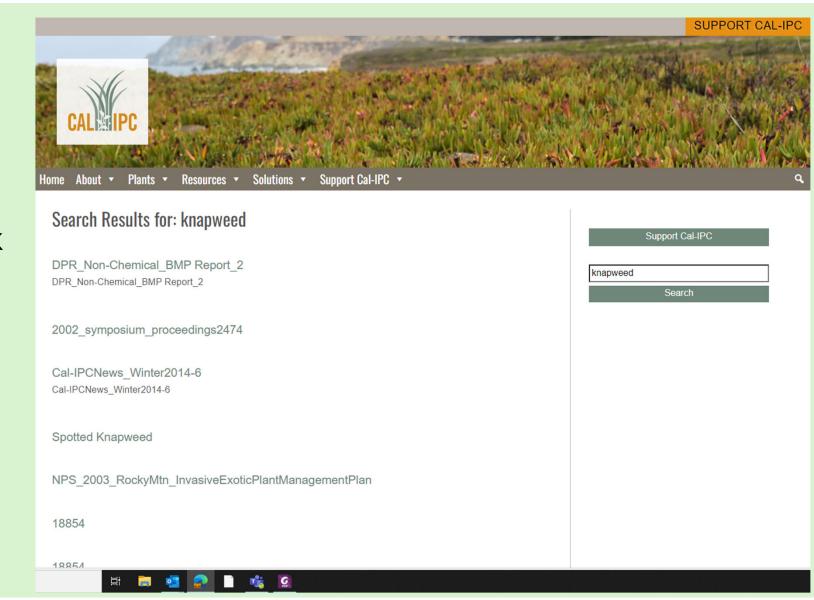
Acacia longifolia

It's a knapweed



SEARCH

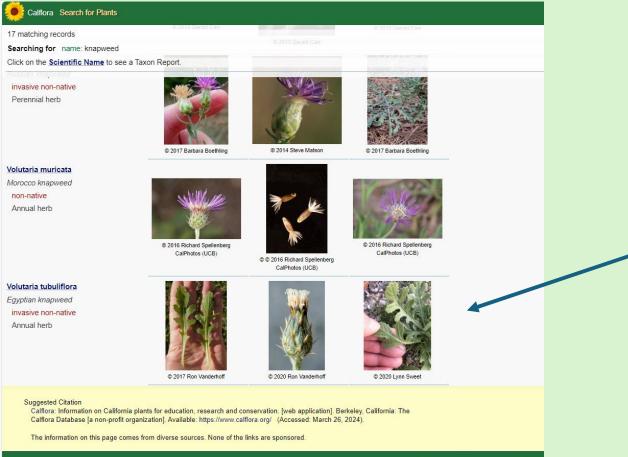
feature doesn't work for common –name categories on Cal-IPC



CalFlora

 The search function on CalFlora does work for common category terms like 'knapweed'.

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$\leftarrow \rightarrow C$	https://www.calflora.org/search.html
Calflora	A nonprofit database providing information on wild California
	Search for Plants Common A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
My Calflora	SEARCH CLEAR HELP Scientific A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
My Observations	Family A B C D E F G H I J K L M N O P O R S T U V W X Y Z
Add Observations	
Phone Applications	plant name scientific name or knapweed Alpine
Donate	Type a few letters to see matching names. Black knapweed Centaurea jacea ssp. nigra
HOME	duration Annual Brown knapweed Centaurea jacea sp. nigra a
	Perennial Brown knapweed Centaurea jacea ssp. jacea prte
About Calflora	Biennial Brownray knapweed Centaurea jacea
NEWS	Diffuse knapweed Centaurea diffusa
Observation Search	Egyptian knapweed Volutaria tubuliflora al
What Grows Here?	native status Native to California CNPS rare plar
Great Places	Not native to California Affinity to serpe Meadow knapweed Centaurea jacea ssp. pratensis
	Cal-IPC invasive plants Morocco knapweed Volutaria muricata n North African knapweed Centaurea diluta n
Planting Guide	community any Russian knapweed Rhaponticum repens
NRCS eVegGuide	Alkali Sink Spotted knapweed Centaurea stoebe
Weed Manager	Bristle-cone Pine Forest Spotted knapweed Centaurea stoebe ssp. micranthos bsa
Calinvasives	Chaparral Closed-cone Pine Forest
	Squarrose knapweed Centaurea virgata
Contact Calflora	result format Photos v mor Sulphur knapweed Centaurea sulphurea
	Syrian knapweed Centaurea babylonica
	Tyrol knapweed Centaurea nigrescens White knapweed Centaurea diffusa CA 94709 • 510-883-3148 • 1



CalFlora

This one, I think.

/www.cal-ipc.org/plants/profile/volutaria-tubuliflora-profile/

Common names: desert knapweed; Mediterranean knapweed

Volutaria tubuliflora (desert knapweed) is purple flowers and lobed hairy leaves found in the desert ranges and south coast ranges of California. It is native to northern Africa and the Mediterranean Basin. It favors grasslands, dunes, scrub and chaparral habitat. It propagates via multitudes of seeds. Seeds are dispersed via human traffic, machinery, water and wind.



Photo: Ron Vanderhoff

Learn more about the Cal-IPC project to contain desert knapweed.

Cal-IPC Rating: Limited — Alert @ CDFA Rating: A* @

Back to Cal-IPC

Assessment(s)

Plant Assessment Form - Information gathered by Cal-IPC on the impacts, rate of spread, and distribution of invasive plants in California. Does not include management information.

Weed Management Notes

No Weed RIC Management Notes are available for this species. Check for information on other species in the genus on the Weed RIC site.

Cal-IPC Newsletter Articles

- Weeds on the Move. Cal-IPC. Vol 31, Issue 2
- Wildland Weed News. Cal-IPC. Vol 25, Issue 2
- Wildland Weed News. Cal-IPC. Vol 25, Issue 1
- Partnership aims to eradicate Volutaria tubuliflora. Robison, Ramona; Matthews, Part McDonald, Chris; Parris, Frank Vol 25, Issue 1

• Early detection/rapid response around the state. Cal-IPC. Vol 23, Issue 2

Cal-IPC Symposium Presentations

Presentations are linked where available. Where a presentation is not available, find more information by reading the abstract in the Cal-IPC Symposia Archive.

- Big Canyon Habitat Restoration and Resiliency Project Phase 3: CEQA exempt through CDFW's SERP process. Arenas, Alys (2023)
- Regional EDRR with Bay Area WMAs. Johnson, Doug; Valentine, Nicole (2022)

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Invasive non-native plant Early Detection and Rapid Response (EDRR) targets in western San Diego County Report <u>new</u> sightings of these plants to coordinator Jason Giessow, jgiessow@cox.net or iNaturalist.org or Calflora.org							
Scientific name	Common name	Growth form	CDFA	Habitat	Status	Populations (eradicated)	ID Sheet
Aegilops triuncialis	Barbed goat grass	Annual grass	В	Grassland	Active EDRR target	1(1)	Yes
Ageratina adenophora	Eupatory	Perennial forb	Q	Riparian	Active EDRR target	4	Yes
Carrichtera annua	Ward's weed	Annual forb	A	Uplands (shrub & grass)	Active EDRR target	5	Yes
Centaurea solstitialis	Yellow star thistle	Annual forb	С	Grassland	Active EDRR target	11 (11)	Yes
Centaurea stoebe	Spotted knapweed	Annual forb	A	Uplands	Active EDRR target	3 (3)	Yes
Cytisus scoparius	Scotch broom	Perennial shrub	С	Uplands (shrub & grass)	Eradicated: monitoring	(1)	
Elymus caput-medusae	Medusahead	Annual grass	С	Grassland	Active EDRR target	7	Yes
Enchylaena tomentosa	Ruby saltbush	Perennial sub- shrub	Α	Uplands (shrub & grass)	Assessing	1 (1)	Yes
Euphorbia terracina	Carnation spurge	Annual forb	В	Uplands	Eradicated: monitoring	8(1)	Yes
Euphorbia virgata	Leafy spurge	Annual forb	A	Uplands	Active EDRR target	1 (1)	Yes (See ET)
Genista monosperma	Bridal broom	Perennial shrub	B	Uplands (shrub & grass)	Active EDRR target	4	Yes
Genista monspessulana	French broom	Perennial shrub	С	Riparian or uplands	Active EDRR target	5	Yes
Hypericum canariense	Canary Island St. John's wort	Perennial shrub	B	Shrublands	Active EDRR target	12	Yes
Iris pseudacorus	Yellow flag iris	Perennial monocot	В	Wetlands (fresh)	Assessing	9+	Yes
Limonium duriusculum	European sea lavender	Perennial forb	-	Wetlands (salt & fresh) & uplands	Active EDRR target	8 (1)	Yes
Limonium ramosissimum	Algerian sea lavender	Perennial forb	-	Wetlands (salt & fresh) & uplands	Active EDRR target	13 (1)	Yes
Lythrum salicaria	Purple loosestrife	Perennial forb	В	Wetlands (fresh)	Active EDRR target	2	Yes
Myoporum acuminatum	Waterbush	Perennial shrub	-	Riparian or uplands	Assessing	2	Yes
Sesbania punicea	Rattlebox	Perennial shrub	В	Wetlands (fresh)	Active EDRR target	1	Yes
Volutaria tubuliflora	Volutaria knapweed	Annual forb	A	Uplands (shrub & grass)	Active EDRR target	1 (1) + Borrego	Yes

Weed ID Card



Knapweed in Proctor Valley \odot S Reply Reply All → Forward U) ... Nelson, Tracie@Wildlife To O Chris J McDonald; O jgeissow@cox.net; O Andrew C Sanders Tue 4/4/2023 10:51 AM Aponte, Nicholas@Wildlife; O Price, Jason@Wildlife; Cc O edr Hoffmann, Krista@Wildlife (i) You forwarded this message on 4/4/2023 10:58 AM. This message was sent with High importance. Knapweed 04032023_TN.jpg 4FB4A47A-9086-4BE7-9B8D-4D1E46522232-L0-001.PNG \sim 450 KB 19 MB

Hello Chris, Jason and Andrew. I'm contacting you all in the hopes one or more of you can assist with (speedy) species ID, and to report a knapweed observation in Proctor Valley. I suspect it's Volutaria tubuliflora, based on the EDRR ID card and the fact that I can't find a perfect match in any of my other references. I noticed this unfamiliar plant yesterday, April 3, 2023. The population is located on CDFW's Rancho Jamul Ecological Reserve (west 'island', not directly connected to main body of Reserve), in the center of Proctor Valley. Plant appears to be an annual, in flower with about <5% open bloom. I do not know if the flowers respond to temperature, but it was cold and windy. I have one collected specimen in the fridge at RJER.

Approx location 32.684065, -116.910936, along a disturbed historic dirt path that leads down to the Eucalyptus grove.

I can't send multiple pics, as they get rejected by our collective firewalls, but I did post a few on iNaturalist. User name Traen. The one photo I'm attaching has an open flower in focus – looks just like the one on the EDRR ID card. No combs or spines on the phyllaries.

Despite the non-ideal temps (~55 F at the time), I hit what I could find with 3 gallons of RoundUP Pro concentrate 1.5% + Garlon 4 0.5%. However; I ran out before reaching any certainty that I'd found the extent of the occurrence. Jason – how did you treat the population with in Rice Canyon? Any recommendations??

We may need assistance locating the extent of this infestation - if resources are available. ?

Thanks for any assistance we can get with this.

Tracie Nelson Wildland Habitat Specialist California Dept of Fish and Wildlife South Coast Region, Lands Program 858 / 735-7109 cell

Recommendations:

- Survey the extent of the infestation (up to 100 yards surrounding)
- Manually remove the plants
 - Double bag!
- Use pre-emergents to suppress germination (Milestone)
- Monitor regularly

April 5: Surveyed Extent of Infestation







Since then...

- Re-treat with pre-emergent Milestone following first annual rains
- Monitored every 3-5 weeks thru the wet season and after unseasonable rain events
- Manual removal of any maturing break-through plants
- Check in with fellow local weed managers via quarterly WMA meetings

Moral of this novel weed ID story:

- Establish connections to local expertise (if you haven't already)
 - Weed Management Area group
- Use the tools available CalIPC, CalFlora, iNaturalist, Seek
- Download your local EDRR list and ID cards and keep them handy!

Weed Management Areas (WMAs)

Cal-IPC



Weed Management Areas and Regional Partnerships

County-based Weed Management Areas (WMAs) have formed in every part of the state. Follow the links below to learn more about each WMA, or see background on the WMA program. Links go to the WMA's own website if it has one or to a simple profile on our website. Help us keep these profiles up to date! Notify us of any changes by emailing info@cal-ipc.org.

Statewide WMA Meetings

View video recording for the 2023 Statewide WMA Meeting View video recording and presentations for the 2022 Statewide WMA Meeting View video recording and presentations for the 2021 Statewide WMA Meeting View presentations for the 2020 Statewide WMA Meeting.

Regional EDRR Priority Targets

This map and document with regional invasive plant EDRR targets was updated in October 2021, in collaboration with the California Department of Food and Agriculture, County Agricultural Commissioners, and Weed Management Areas. We encourage you to contribute observations of regional EDRR weed species!

Regional partnerships

County WMA links

A	17 140.44		Conto Como MARIA
Alameda-Contra Costa WMA	Imperial WMA	Monterey WMA	Santa Clara WMA
WMAs			Weed management Areas
Central Sierra Region	Northwest Region		Weed Management Areas
Central Coast Region	North Sierra Region		
Bay Area Region	North Central Region	South Central Coast Region	



Regions map