# San Diego Regional Invasive Plant Early Detection and Rapid Response (EDRR) Program: in Support of NCCP

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## **NCCP Invasives work**

- 1. 'NCCP' Invasives Plan completed Sep 2012: Report and PAFs at SDMMP.com
- SANDAG/EMP contract awarded to San Diego AWM, work focused on <u>EDRR</u>.
- 3. Two year work plan developed based on plan: implementation & coordination started January 2015!
- through 8 examples highlight: mapping/surveying
- outreach to managers, biologists, etc.: weed ID sheets

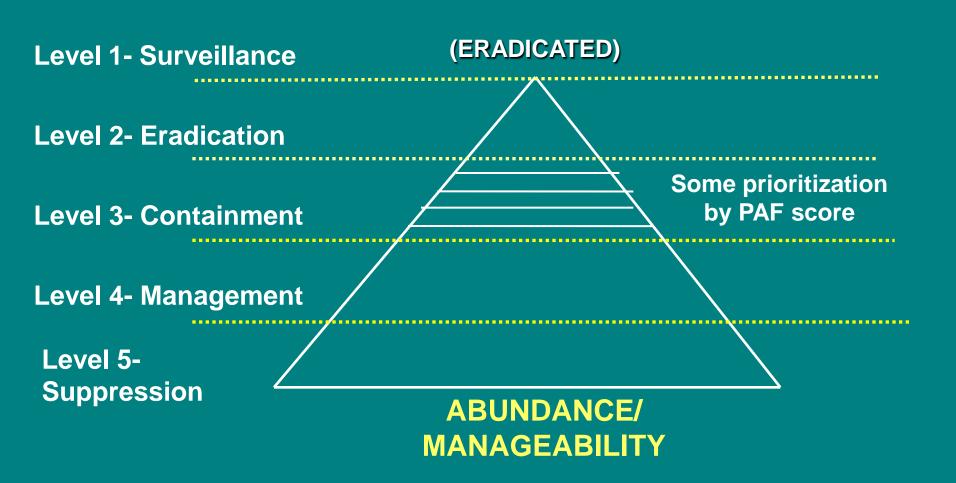
# Regional Impact Assessments

**Purpose:** Assess severity of impacts and management feasibility of priority species at the regional level to establish management priorities

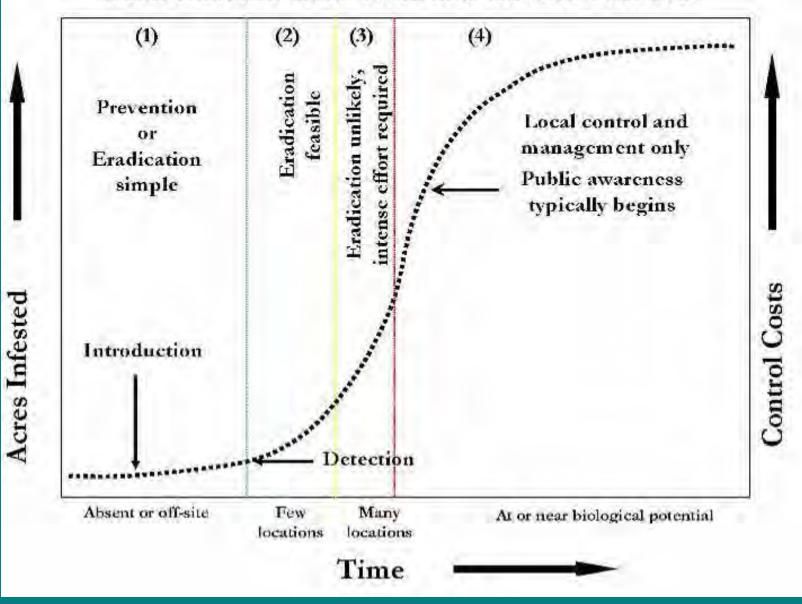
- Science-based Assessments
  - Plant Assessment Forms (PAFs)
    - o Ecological impacts
    - o Invasiveness
    - o Distribution/abundance



## Management Levels



### Weed Increase Over Time and Control Potential



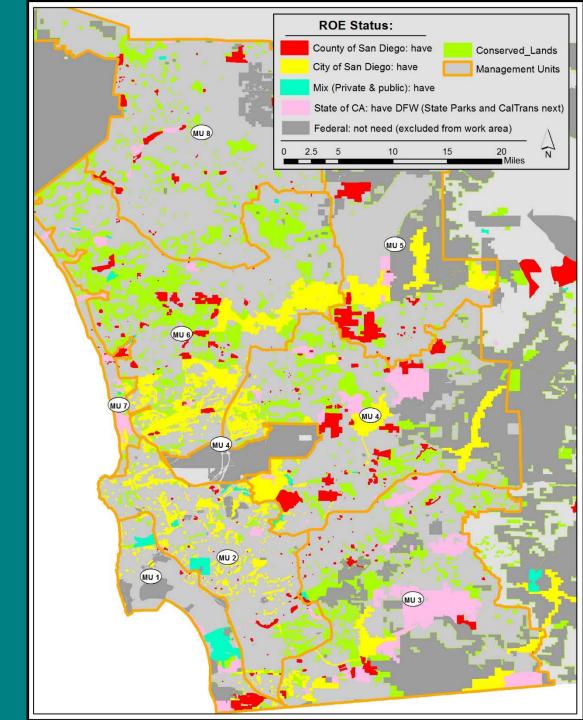
## Goal:

respond quickly

How?

Have standing authorization: Right of Entry Agreements

**COMPLETED** 



## Ageratina adenophora: Eupatory





#### **Invasive Non-Native:**

# Crofton Weed, Eupatory (Ageratina adenophora)

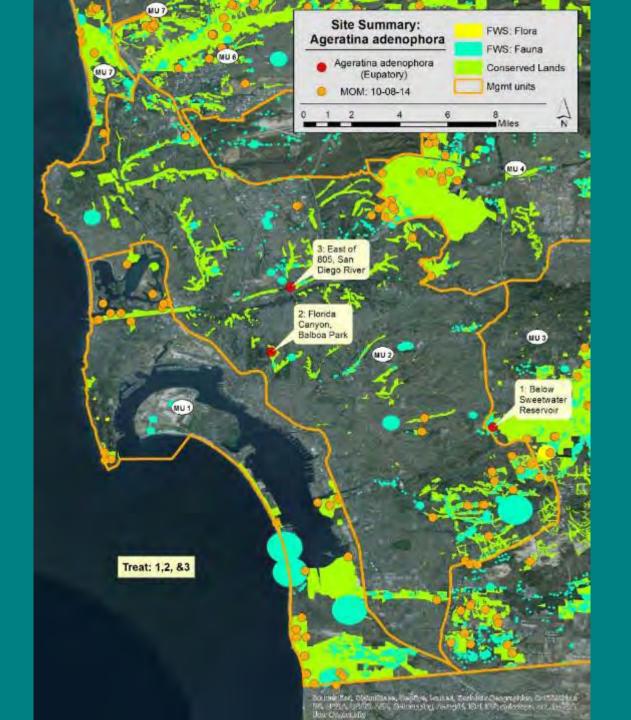
**Description:** perennial herb or subshrub, woody base, 2-5 ft (.6-1.5m) tall. Opposite leaves 1-4" (3-10cm). Stems: purple, glandular hairy. Flowers: composite, flower head all discoid flowers (no ray flowers) 1/4" (6mm) across, clustered in groups, individual flowers 1/16-1/8" (<5mm) across, white or pink tinged.

**Ecology:** disturbed areas, wetland/riparian edges, canyons, hillsides.

**Similar to:** no common natives or non-natives. Mule-fat has discoid ray flowers, but thinner leaves.



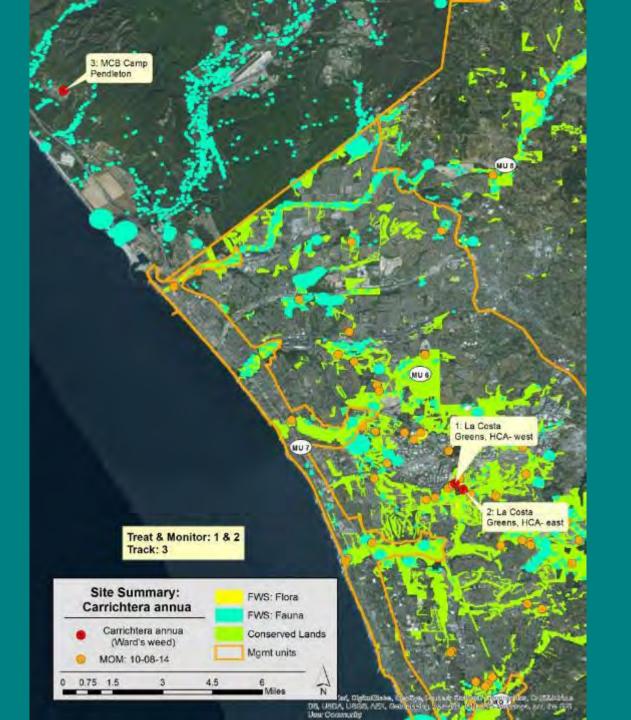
Report sightings to: <a href="mailto:edrrsd@gmail.com">edrrsd@gmail.com</a> and database at www.Calflora.org



# Ageratina adenophora: Eupatory





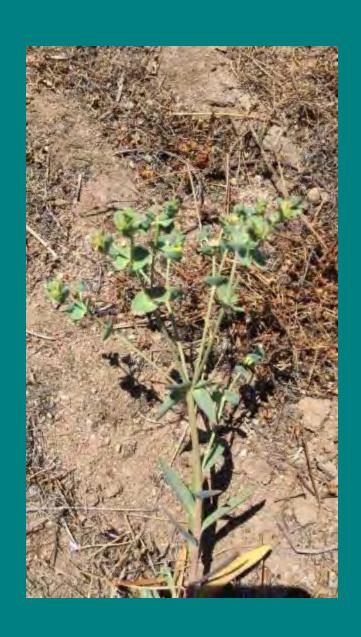








## Euphorbia terracina: Carnation spurge







#### Consortium of California Herbaria

Participants

Nov

Search

**About** 

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#### **Accession Detail Results**

#### UCR is the home institution for this record

Please cite data retrieved from this page: Data provided by the participants of the Consortium of California Herbaria (ucjeps.berkeley.edu/consortium/; Tue Aug 25 21:10:05 2015).

Records are made available under the CCH Data Use Terms.

Specimen number	UCR246512
Determination	Euphorbia terracina More information: Jepson Online Interchange
Collector, number, date	Fred M. Roberts, 7164, Sep 29 2009
County	San Diego
Locality	Upper Deer Canyon drainage between Carmel Mountain Road and Abing Avenue, c. 100 m north of SR56 and 4.0 km southwest of the summit of Black Mountain. Square M9
Elevation	122 m
Habitat	Shallow ravine on loamy sand soil in annual grassland with scattered shrubs
Coordinates	32.95583 -117.14556 BerkeleyMapper [or without layers, here]
Datum	Not recorded; ER = 1000 m
Coordinate source	Collector GPS
Voucher information	associated species Assoc. with Avena, Bromus diandrus, Baccharis sarothroides, Heterotheca grandiflora.
Annotations and/or curatorial actions	Euphorbia nutans Euphorbia terracina Steve Boyd May 2014

USGS quad: Del Mar 7.5' Q.; Erect herb, stems 0.8 m tall, flowers yellow. Locally common.;

#### Comment Read com

Notes

Read comments

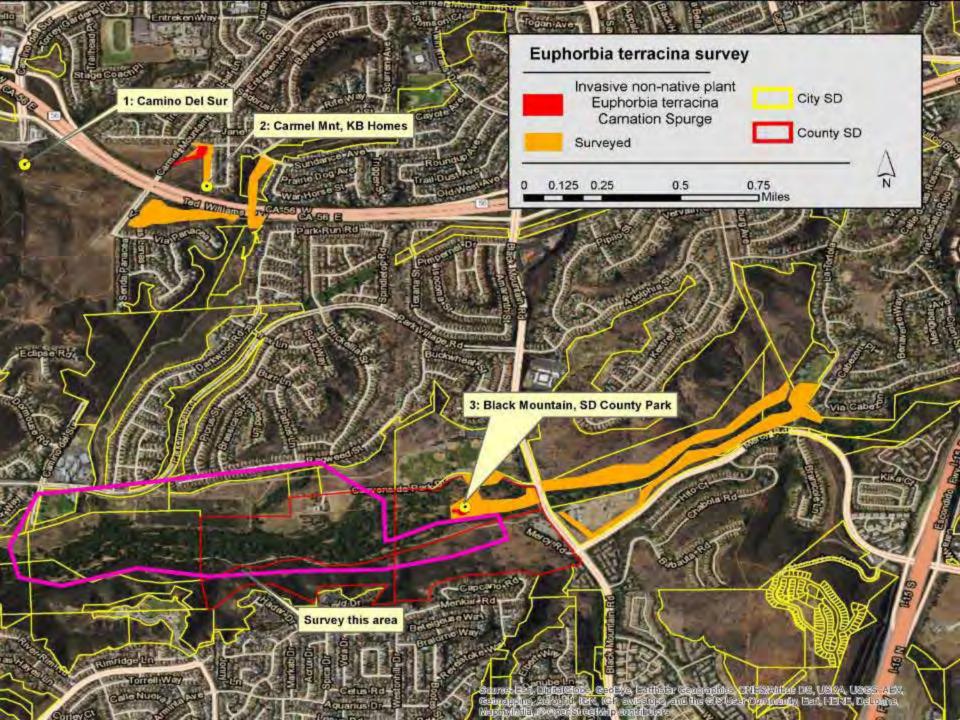
Help

#### Related searches:

- 1. taxon=Euphorbia terracina
- 2. county=San Diego; taxon=Euphorbia terracina
- 3. county=San Diego; collector=Roberts
- 4. collector=Roberts; taxon=Euphorbia terracina
- 5. collector=Roberts; number=7164
- 6. collector=Roberts; number=7164; include nearby numbers
- 7. date=Sep 29 2009; collector=Roberts
- 8. date=Sep 29 2009; county=San Diego











#### **Invasive Non-Native:**

## French Broom (Genista monspessulana)

Description: large, evergreen, woody shrub up to 9 feet (3m) tall. Leaves: small < 1/2" (1cm), compound leaflets in groups of three. Flower: small, < 1/4" (6mm), yellow, 1-2 per axil.

Ecology: occurs in a variety of habitats from disturbed to undisturbed areas, coastal scrub, oak woodlands, riparian corridors and open forests.

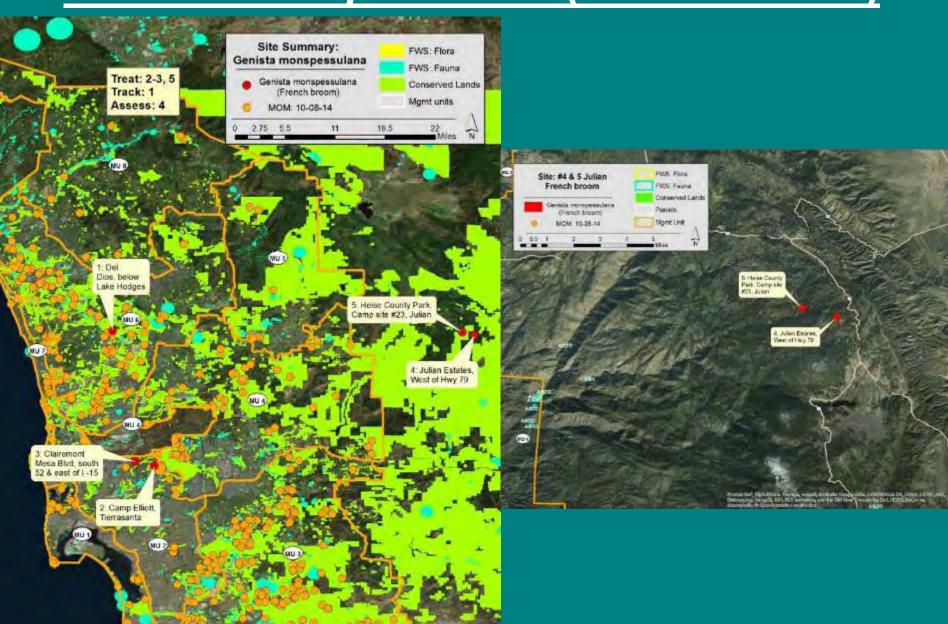
Similar to (see back): Spanish broom (non-native) large shrub with deciduous leaves and 1" (3cm) yellow flowers. Scotch broom (nonnative) large shrub with deciduous leaves and 1" (3cm) yellow flowers. Deerweed (native) short-lived perennial < 2 ft (.6m) tall with smaller yellow-orange-red flowers.



Report sightings to: edrrsd@gmail.com and database at www.Calflora.org

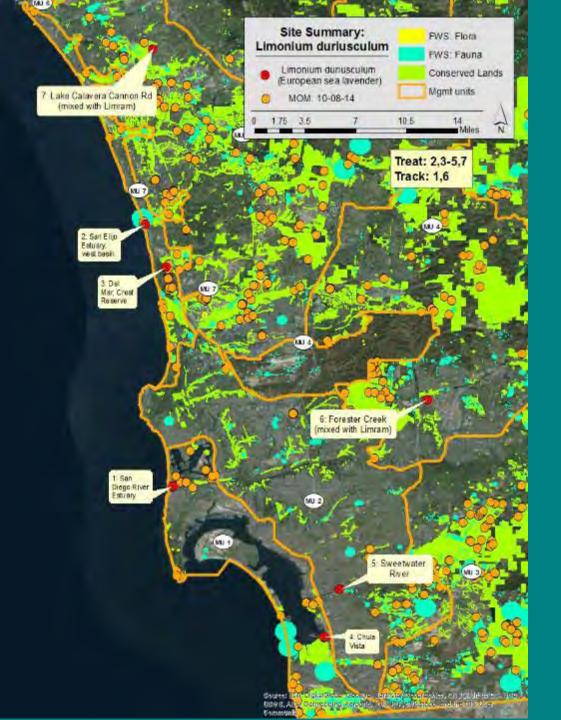


## Genista monspessulana (French broom)



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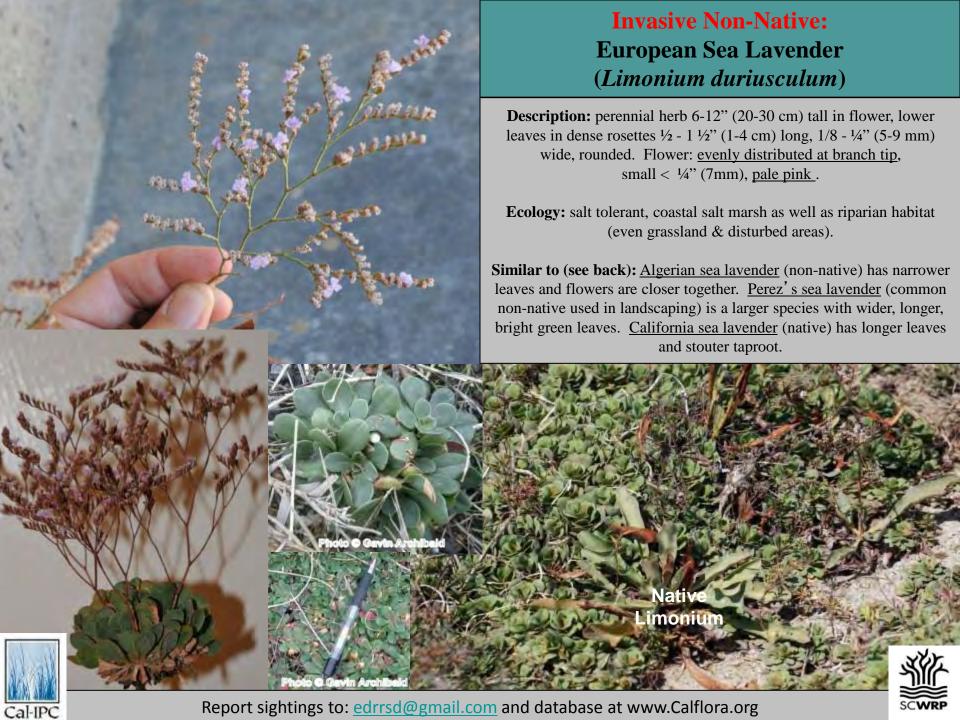
## Limonium duriusculum: European sea lavender

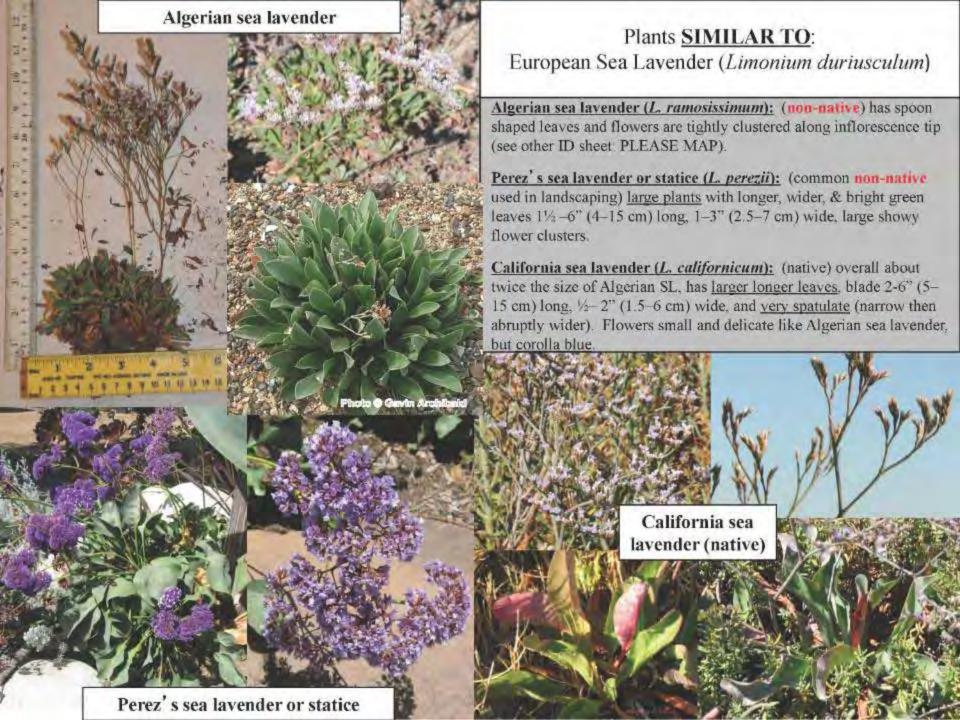








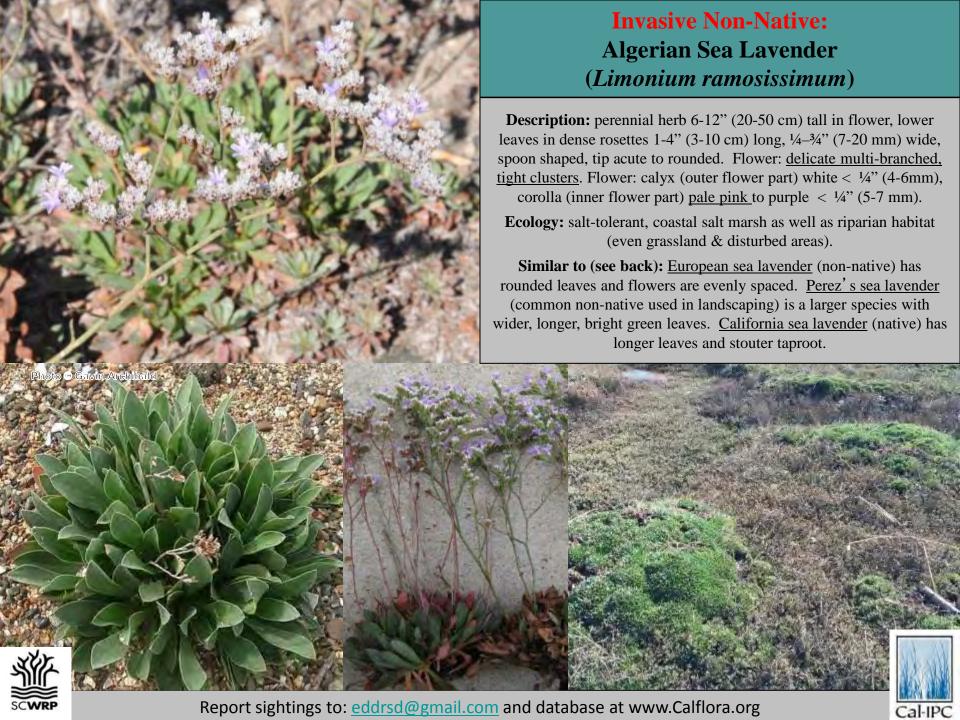












# Limonium ramosissimum: Algerian sea lavender

















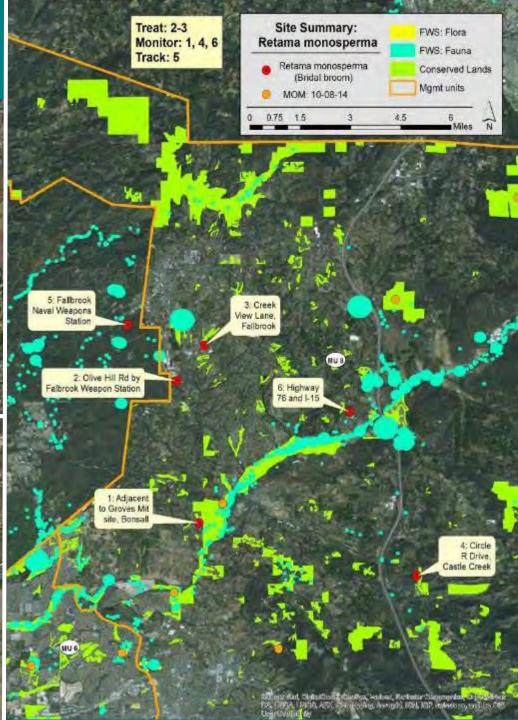




## Retama monosperma: bridal broom





















## **Invasive Non-Native:**

## Red Sesbania, Rattlebox (Sesbania punicea)

**Description:** shrub to small tree that can grow up to 10 ft (3 m) tall. Leaflets: 20-34 per branch (always an even number), elliptic to elliptic-oblong. Flower: **Orange-red pea-like flowers**, 5-15 per group. Fruits: 1-3" (2.5-7 cm) long.

Ecology: wetlands/riparian areas, other moist sites, roadsides, cultivated as an ornamental plant.

Similar: looks a bit like: black locust (Robinia pseudoacacia), an uncommon non-native tree with white flowers and obvious spines on the stem and Cassia occidentalis, yellow flowered, 8 leaflets.







Jim Roberts [mailto:jimirob@san.rr.com]

## Recently a noxious weed listed in CCR 4500 (<a href="http://www.cdfa.ca.gov/plant/regs\_nws.html">http://www.cdfa.ca.gov/plant/regs\_nws.html</a>) was found for sale in Sonoma County.

The plant is called Sesbania punicea, also known as Sesbania tripetti.

The attached list contains nurseries which purchased *S. punicea* from Monterey Bay

Nursery (the supplier of the Sonoma County nursery).

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Nursery	Address	City	Zip	County	Invoice Date	# Plants 9	Note
The Avant Gardener - Landscape Design	4424 Reinhardt Drive	Oakland	94619	Alameda	7/16/2015	9	Nursery not in Database
Evergreen Garden Center, Inc.	210 West Alluvial Avenue	Clovis	93611	Fresno	6/26/2015	12	
Lincoln Avenue Nursery, Inc.	804 Lincoln Avenue	Pasadena	91103	Los Angeles	7/25/2015	5	
Marina del Rey Garden Center	13198 Mindanao Way	Marina Del Rey	90292	Los Angeles	7/3/2015	4	
Armstrong Garden Centers, Inc.	5816 San Fernando Road	Glendale	91202	Los Angeles	8/5/2015	*10	*10 plants total sent to Armstrong (see Ventura County)
Armstrong Garden Centers, Inc.	25225 Crenshaw Boulevard	Torrance	90505	Los Angeles	8/5/2015	see note	*10 plants total sent to Armstrong (see Ventura County)
North Star Nursery	17901 North Highway One	Fort Bragg	95437	Mendocino Mendocino	7/1/2015	2	
Miss Trawick's Home and Garden	664 Lighthouse Avenue	Pacific Grove	93950	Monterey	7/22/2015	1	Nursery not in Database
Country Roads Antiques	204 West Chapman Avenue	Orange	92866	Orange Orange	6/19/2015	2	Nursery not in Database
Green Thumb International, Inc El Toro	23782 Bridger Road	Lake Forest	92630	Orange Orange	7/2/2015	2	
Plant Depot	32413 San Juan Creek Road	San Juan Capistrano	92675	Orange Orange	6/25/2015	3	Address in Database is 33413 San Juan Creek Road
Upland Bonsai Nursery	1518 North Tustin Street	Orange	92867	Orange Orange	6/25/2015	5	
Village Nurseries, L.P. (HB)	10500 Garfield Avenue	Huntington Beach	92646	Orange Orange	7/3/2015	4	,
Village Nurseries, L.P. (ORG)	1582 North Tustin Street	Orange	92867	Orange Orange	7/10/2015	4	
Emigh Hardware Company	3535 El Camino Ave, Country Clu	Sacramento	95821	Sacramento	7/23/2015	4	Address in database is 3555 El Camino Avenue
Anderson's La Costa Nursery	400 La Costa Avenue	Encinitas	92024	San Diego	6/25/2015	5	,
Walter Anderson Enterprises	3642 Enterprise Street	San Diego	92110	San Diego	6/25/2015	*20	*20 plants total sent to Walter Anderson
Walter Anderson Enterprises	12755 Danielson Court	Poway	92064	San Diego	6/25/2015	see note	*20 plants total sent to Walter Anderson
Pacific Nurseries	2499 Hillside Boulevard	Colma	94014	San Mateo	7/10/2015	6	
Seaside Gardens	3700 Via Real	Carpinteria	93013	Santa Barbara	7/22/2015	3	,
Summer Winds Garden Centers of California (d	15796 Winchester Boulevard	Los Gatos	95030	Santa Clara	6/26/2015	2	
Dig Gardens	420 Water Street	Santa Cruz	95060	Santa Cruz	6/19/2015	2	
Friedman's Home Improvement	429 North McDowell Boulevard	Petaluma	94954	Sonoma	7/31/2015	*15	*15 plants total sent to Friedman's
Friedman's Home Improvement	1360 Broadway Avenue	Sonoma	95476	Sonoma	7/31/2015	see note	*15 plants total sent to Friedman's
Green Thumb International, Inc Ventura	1899 Victoria Avenue	Ventura	93003	Ventura	7/3/2015	5	,
Armstrong Garden Centers, Inc.	50 Taylor Court	Thousand Oaks	91360	Ventura	8/5/2015	see note	Location not in Database. *10 plants total sent to Armstror
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