


**Talk Outline**

1. CCC – Coastal Act and Coastal Zone
2. What constitutes ESHA?
3. Maritime Chaparral = ESHA
4. Maritime Chaparral Determination Difficulties
5. Setbacks/Buffers and Fuel Modification




**CCC Established in 1972, Coastal Act signed into law, 1976**


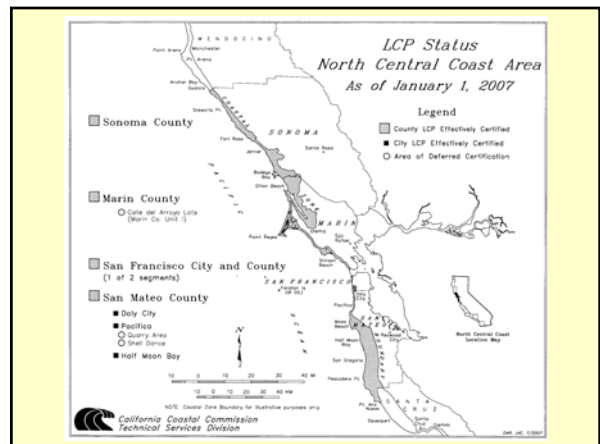
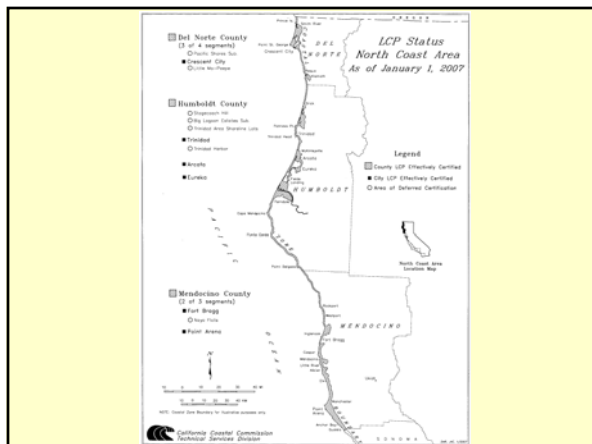
Del Norte  
Humboldt  
Mendocino  
Sonoma  
Marin  
San Francisco  
San Mateo  
Santa Cruz  
Monterey  
San Luis Obispo  
Santa Barbara  
Ventura  
Los Angeles  
Orange  
San Diego



**Coastal Zone – 15 Counties**

**Coastal Act Policies Require:**

Protection, enhancement and restoration of environmentally sensitive habitats, including intertidal and nearshore waters, wetlands, bays and estuaries, riparian habitat, certain wood and grasslands, streams, lakes, and habitat for rare or endangered plants or animals



Section 30106: "Development" means, on land, in or under water, the placement or erection of any solid material or structure; discharge or disposal of any dredged material or of any gaseous, liquid, solid, or thermal waste; grading, removing, dredging, mining, or extraction of any materials; change in the density or intensity of use of land, including, but not limited to, subdivision pursuant to the Subdivision Map Act and any other division of land, including lot splits, except where the land division is brought about in connection with the purchase of such land by a public agency for public recreational use; change in the intensity of use of water, or of access thereto; construction, reconstruction, demolition, or alteration of the size of any structure, including any facility of any private, public, or municipal utility; and the removal or harvesting of major vegetation other than for agricultural purposes, kelp harvesting, and timber operations which are in accordance with a timber harvesting plan submitted pursuant to the provisions of the Z'berg-Nejedly Forest Practice Act of 1973. As used in this section, "structure" includes, but is not limited to, any building, road, pipe, flume, conduit, siphon, aqueduct, telephone line, and electrical power transmission and distribution line.

## What constitutes ESHA?

1. CDFG Rare Plant Communities
2. Federal and State Listed Species
3. CNPS 1B Listed Plant Species
4. Habitats that support listed species

Standard of review? City or County LCP's or Coastal Act

## Maritime Chaparral = ESHA

CDFG – Biogeographic Data Branch: Vegetation Classification: Terrestrial Section  
 (\*indicates a series or association considered rare and worthy of consideration by CNDDDB) September 2003

\*37.308.00 Woollyleaf Manzanita Chaparral [*Arctostaphylos tomentosa* ssp. *tomentosa*]

\*37.308.01 Northern Maritime Chaparral {37C10}

\*37.308.02 Central Maritime Chaparral {37C20}

37.102.00 Chamise - Black Sage Chaparral [*Adenostoma fasciculatum*-*Salvia mellifera*]

\*37.102.01 Southern Maritime Chaparral {37C30}

## Coastal zone counties where maritime chaparral identified in CNDDDB

### Northern Maritime Chaparral

Marin County  
 San Mateo County  
 Santa Cruz

### Central Maritime Chaparral

Monterey County  
 San Luis Obispo County  
 Santa Barbara County

### Southern Maritime Chaparral

San Diego County

## CNDDDB Federal and State Manzanita & Ceanothus Listings

*Arctostaphylos confertiflora*, Santa Rosa Island Manzanita – Fed End  
*Arctostaphylos glandulosa* ssp. *crassifolia*, Del Mar manzanita – Fed End  
*Arctostaphylos hookeri* ssp. *hearstiorum*, Hearst's manzanita – State End  
*Arctostaphylos hookeri* ssp. *ravenii*, Presidio manzanita – Fed and State End  
*Arctostaphylos imbricata*, San Bruno Mountain manzanita – State End  
*Arctostaphylos morroensis*, Moro manzanita – Fed Threatened



*Ceanothus hearstiorum*, Hearst's ceanothus – State rare  
*Ceanothus maritimus*, maritime ceanothus – State rare  
*Ceanothus masonii*, Mason's ceanothus – State rare

## Conservation and Ecology of California's Maritime Chaparral Workshop Follow-up Questions and Answers

Answers edited by Grey Hayes, PhD  
 Coastal Training Program  
 Elkhorn Slough National Estuarine Research Reserve  
 5/29/03

- Appendix 1: Sensitive plant species associated with maritime chaparral in Monterey County
- Appendix 2 Sensitive plant species associated with maritime chaparral in Santa Cruz County
- Appendix 3: Sensitive plant species associated with maritime chaparral in San Luis Obispo County
- Appendix 4: Sensitive plant species associated with maritime chaparral in San Mateo County
- Appendix 5: Sensitive plant species associated with maritime chaparral in California's central coast region
- Appendix 6: Sensitive animal species associated with maritime chaparral in California's central coast region

### CNPS Listed Manzanita



*Arctostaphylos andersonii* Santa Cruz manzanita List 1B.2  
*Arctostaphylos bakeri* ssp. *bakeri* Baker's manzanita List 1B.1.1  
*Arctostaphylos canescens* ssp. *sonomensis* Sonoma manzanita List 1B.2  
*Arctostaphylos cruzensis* Arroyo de la Cruz manzanita List 1B.2  
*Arctostaphylos edmundsii* Little Sur manzanita List 1B.2  
*Arctostaphylos glandulosa* ssp. *crassifolia* Del Mar manzanita List 1B.1  
*Arctostaphylos hookeri* ssp. *franciscana* Franciscan manzanita List 1A  
*Arctostaphylos hookeri* ssp. *hearthorium* Hearst's manzanita List 1B.2  
*Arctostaphylos hookeri* ssp. *hookeri* Hooker's manzanita List 1B.2  
*Arctostaphylos hookeri* ssp. *montana* Mt. Tamalpais manzanita List 1B.3  
*Arctostaphylos hookeri* ssp. *ravenii* Presidio manzanita List 1B.1  
*Arctostaphylos imbricata* San Bruno Mountain manzanita List 1B.1  
*Arctostaphylos klamathensis* Klamath manzanita List 1B.2  
*Arctostaphylos luciana* Santa Lucia manzanita List 1B.2  
*Arctostaphylos mendocinoensis* pygmy manzanita List 1B.2  
*Arctostaphylos montaraensis* Montara manzanita List 1B.2  
*Arctostaphylos montereyensis* Monterey manzanita List 1B.2  
*Arctostaphylos morroensis* Morro manzanita List 1B.1

*Arctostaphylos myrtifolia* lone manzanita List 1B.2  
*Arctostaphylos pacifica* Pacific manzanita List 1B.2  
*Arctostaphylos pajaroensis* Pajaro manzanita List 1B.1  
*Arctostaphylos pallida* Pallid manzanita List 1B.1  
*Arctostaphylos pilosula* Santa Margarita manzanita List 1B.2  
*Arctostaphylos pumila* sandmat manzanita List 1B.2  
*Arctostaphylos purissima* La Purisima manzanita List 1B.1  
*Arctostaphylos refugioensis* Refugio manzanita List 1B.2  
*Arctostaphylos silvicola* Bonny Doon manzanita List 1B.2  
*Arctostaphylos stanfordiana* ssp. *decumbens* Rincon manzanita List 1B.1  
*Arctostaphylos stanfordiana* ssp. *raichei* Raiche's manzanita List 1B.1  
*Arctostaphylos tomentosa* ssp. *daciticola* dacite manzanita List 1B.1  
*Arctostaphylos tomentosa* ssp. *eastwoodiana* Eastwood's manzanita List 1B.1  
*Arctostaphylos virgata* Marin manzanita List 1B.2  
*Arctostaphylos wellsii* Wells' manzanita List 1B.1

### CNPS Listed Ceanothus



*Ceanothus confusus* Rincon Ridge ceanothus List 1B.1  
*Ceanothus cuneatus* var. *fascicularis* Lompoc ceanothus List 4.2  
*Ceanothus cuneatus* var. *rigidus* Monterey ceanothus List 4.2  
*Ceanothus cvaneus* Lakeside ceanothus List 1B.2.1  
*Ceanothus divergens* Callistoga ceanothus List 1B.2.1  
*Ceanothus ferrisiae* Coyote ceanothus List 1B.1.1  
*Ceanothus foliosus* var. *vineatus* Vine Hill ceanothus List 1B.1.1  
*Ceanothus fresnensis* Fresno ceanothus List 4.3.1  
*Ceanothus gloriosus* var. *exaltatus* glory brush List 4.3.1  
*Ceanothus gloriosus* var. *gloriosus* Point Reyes ceanothus List 4.3.1  
*Ceanothus gloriosus* var. *porrectus* Mt. Vision ceanothus List 1B.3  
*Ceanothus hearstiorum* Hearst's ceanothus List 1B.2  
*Ceanothus maritimus* maritime ceanothus List 1B.2

### Maritime Chaparral Determination Difficulties:

1. Disturbed/degraded areas (problem areas)
2. Edge populations
3. Transitional populations – chaparral/pine forest/  
oak woodland (community exists in form of a seed bank)
4. Evolving definition
5. Dominance vs. presence
6. Boundary determinations/delineations
6. LCP's vs CA

**Other issues involving maritime chaparral:**

**Appropriate Setbacks/Buffers**

**Fuel Modification**



Photo from Odium and Tyler 2002 paper