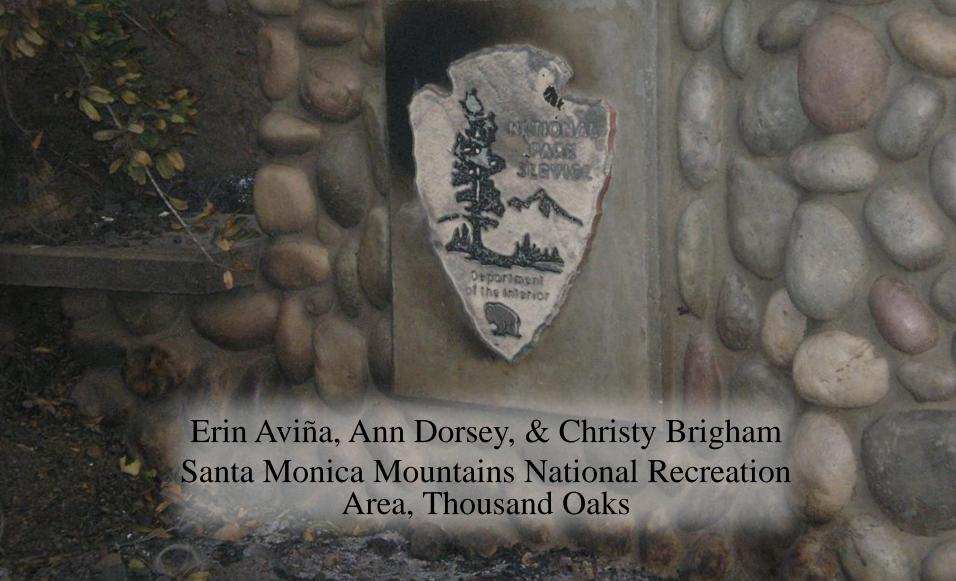
Post-fire recovery plan for Solstice Canyon in Malibu, CA USA





The Recovery Plan

- Solstice Canyon
- Goals & Objectives
 - *Plan
 - *Results
 - *What we learned
 - **❖**What next?

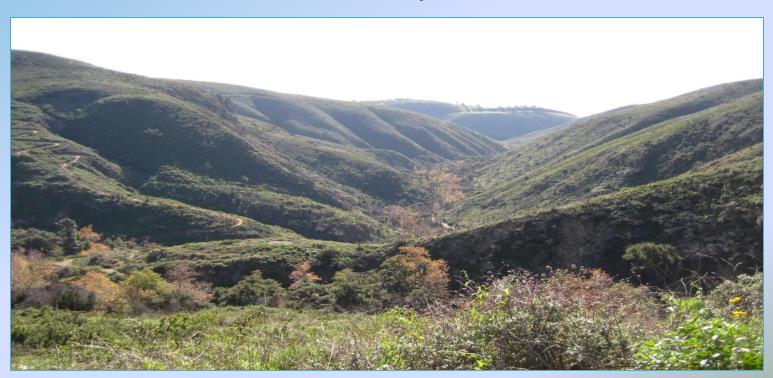
Solstice Canyon

❖ Malibu, CA.

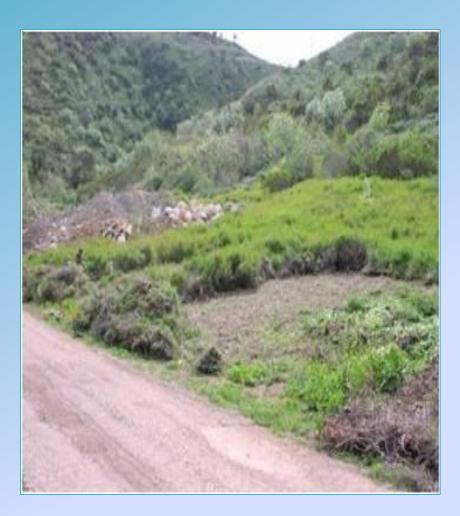
❖550-acre

Perennial stream

Floristically diverse

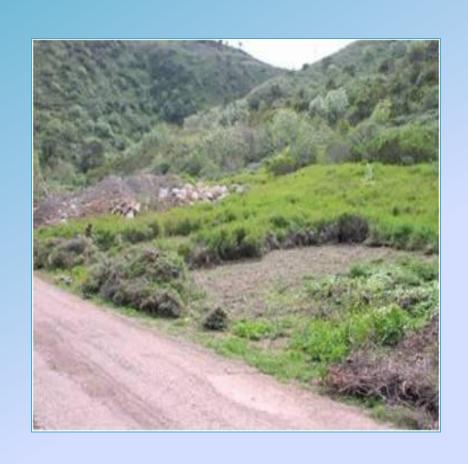


Too much Euphorbia!!





Lots of blood, sweat & tears!!!





Corral Canyon Fire





Corral Canyon Fire

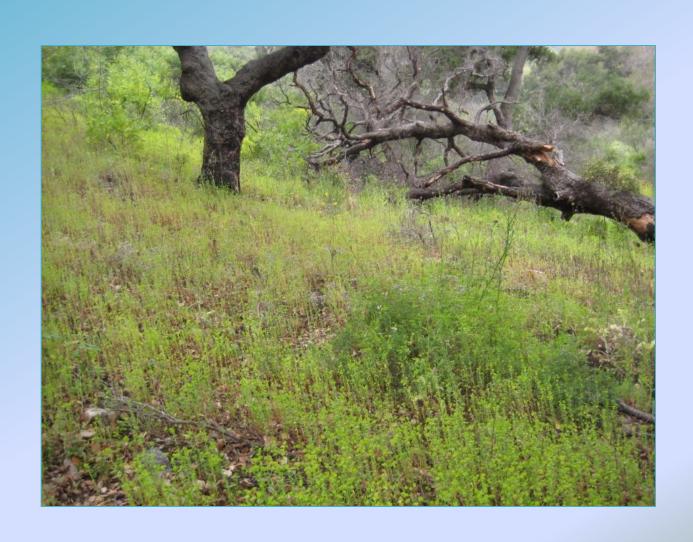


Corral Canyon Fire

> Open space













Goal



Goals

Maintain past restoration efforts

- Remove all target invasives
- Close the canopy
- High native cover
- Maintain floristic diversity

Objectives

- Reduction in *E. terracina* by 50%
- Decrease all non-native by 50%
- Increase native cover by 20%

In 3 seasons!!

Post-fire recovery plan

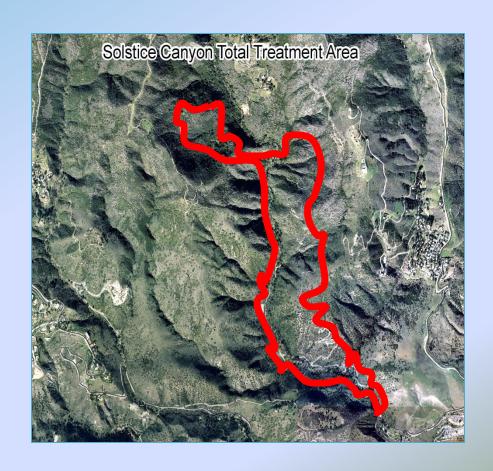
- 1. Surveys
- 2. Defining of treatment areas
- 3. Pre-treatment assessments
- 4. Treatment prioritization
- 5. Treatment
- 6. Post-treatment assessment

Park surveys

Goal: locate large populations

Information gathered

- Location
- Size
- Dominant target



Post-fire recovery plan

- 1. Surveys
- 2. Defining of treatment areas
- Pre-treatment assessments
- 4. Treatment prioritization
- Treatment
- Post-treatment assessment

Defining of treatment areas



37 acres

Post-fire recovery plan

- 1. Surveys
- 2. Defining of treatment areas
- 3. Pre-treatment assessments
- 4. Treatment prioritization
- Treatment
- 6. Post-treatment assessment

Pre-treatment assessments

Data collected:

- 1. % cover of natives
- 2. % cover non-natives
- 3. % cover target species
- 4. % cover bare ground
- 5. % cover litter
- 6. Phenology of target species



Post-fire recovery plan

- 1. Surveys
- 2. Defining of treatment areas
- Pre-treatment assessments
- 4. Treatment prioritization
- 5. Treatment
- 6. Post-treatment assessment

Treatment prioritization

Scoring system:

- 1. Native/ Weed ratio habitat quality
- 2. Identity of target species abundance
- 3. Proximity to creek and/or foot traffic –will it travel

Post-fire recovery plan

- 1. Surveys
- 2. Defining of treatment areas
- 3. Pre-treatment assessments
- 4. Treatment prioritization
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Treatment

 Based on the proximity of the target species to surrounding native plant populations

Removed using approved IPM methods

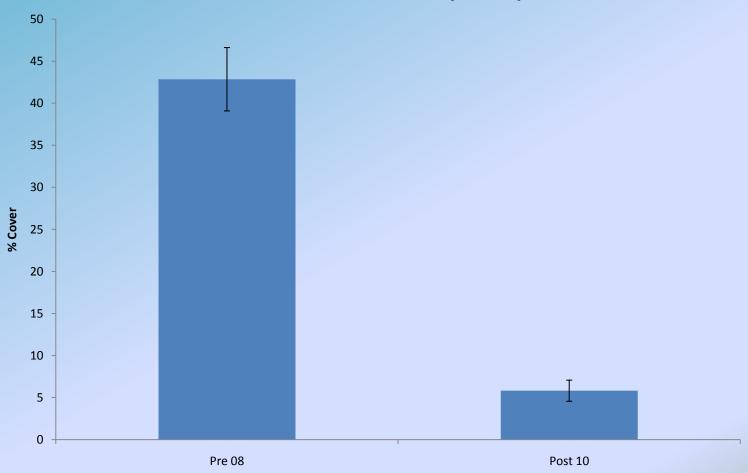
Post-fire recovery plan

- 1. Surveys
- 2. Defining of treatment areas
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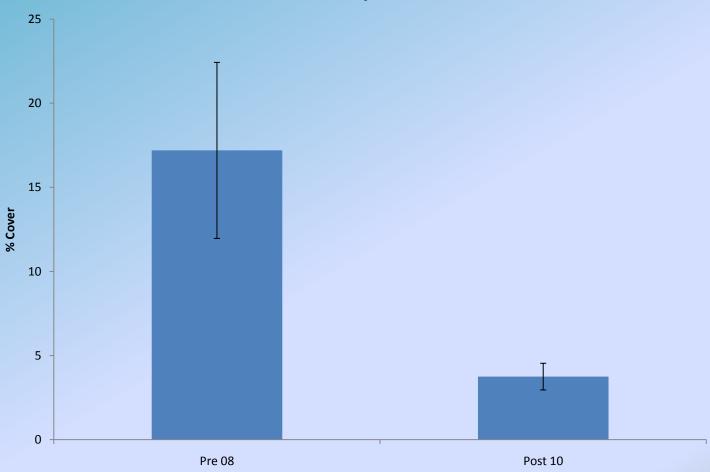
Post-treatment assessment

- To ensure control methods were meeting management objectives
- same as collected during pre-treatment assessments

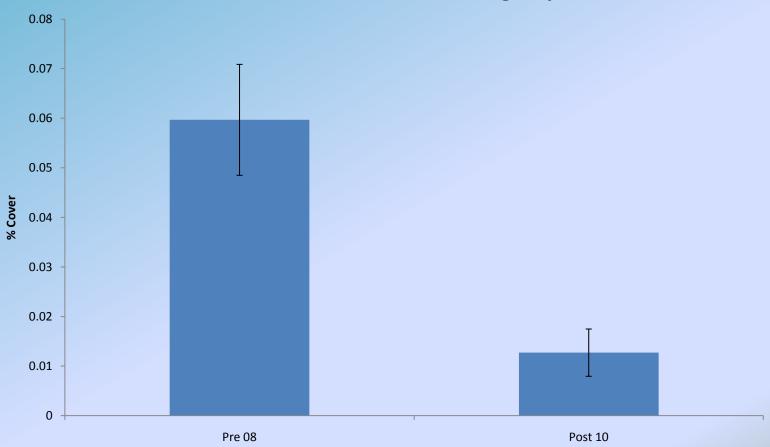
86% reduction in non-native plant species



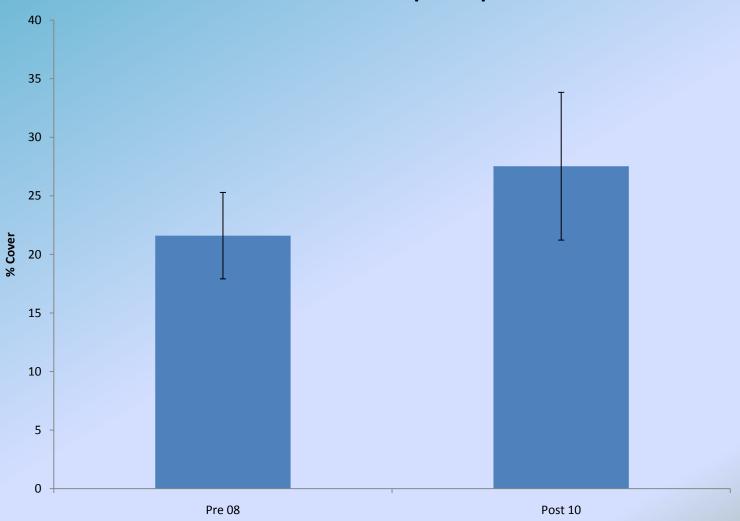
78% reduction in *Euphorbia terracina*



79% reduction in other invasive target species



22% Increase in native plant species



Future work needed

• Future monitoring -5.6 acres



Future work needed

- Future monitoring 5.6 acres
- Can it be applied in other parks

