Pine Hill CDFW Fuel Reduction Project
CNPS Botanical Surveys 2016-2019
Ecological Plot Work 2019

DEBRA AYRES

drayres@ucdavis.edu

Bill and Tal Blackburn, Alice Cantelow-Lubekin, Lisa Couper, Melanie Gogol-Prokurat, Vicki Jennings, Lester Lubekin, Ginna Meyer, Cindy Podsiadlo, Gosia Porwit, Sarah Powell, Gwen Starrett, and Annie Walker

Plus Ginna's students!!

Pine Hill 1931

Weislander 1931

Phase I Goals and Protocols

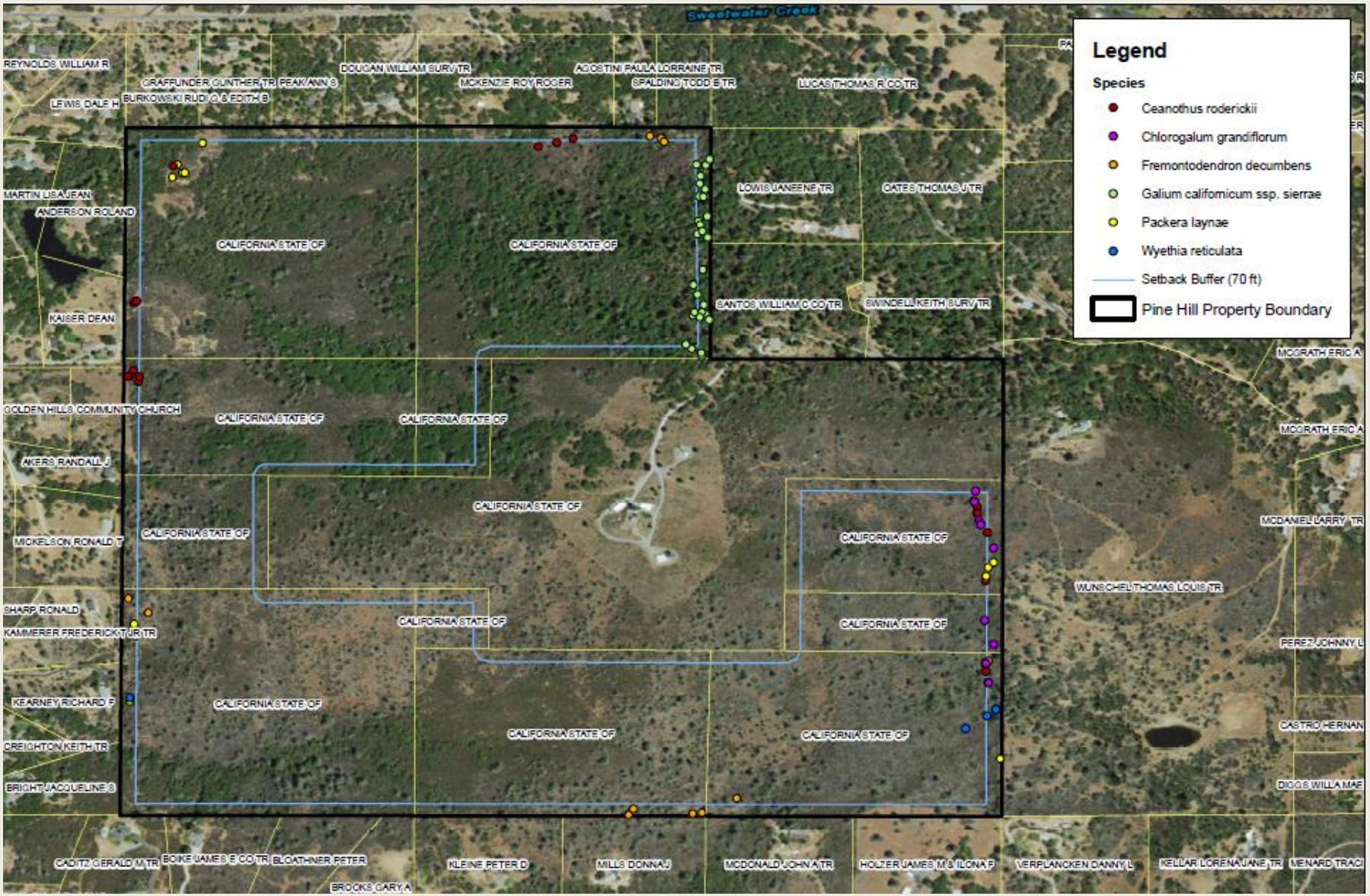
- Calfire to establish 70’ fuel reduction around 3 miles of Pine Hill perimeter– land-locked by private property.
- El Dorado CNPS - Conduct plant surveys to ID rare plants to leave alone:
  - Frde and Gaca focus & main mapping
- Burn pile placement to avoid all federally listed species
- Calfire hand crews cut down 12’ high brush and placed in burn sites ID’ed by botanists

Results

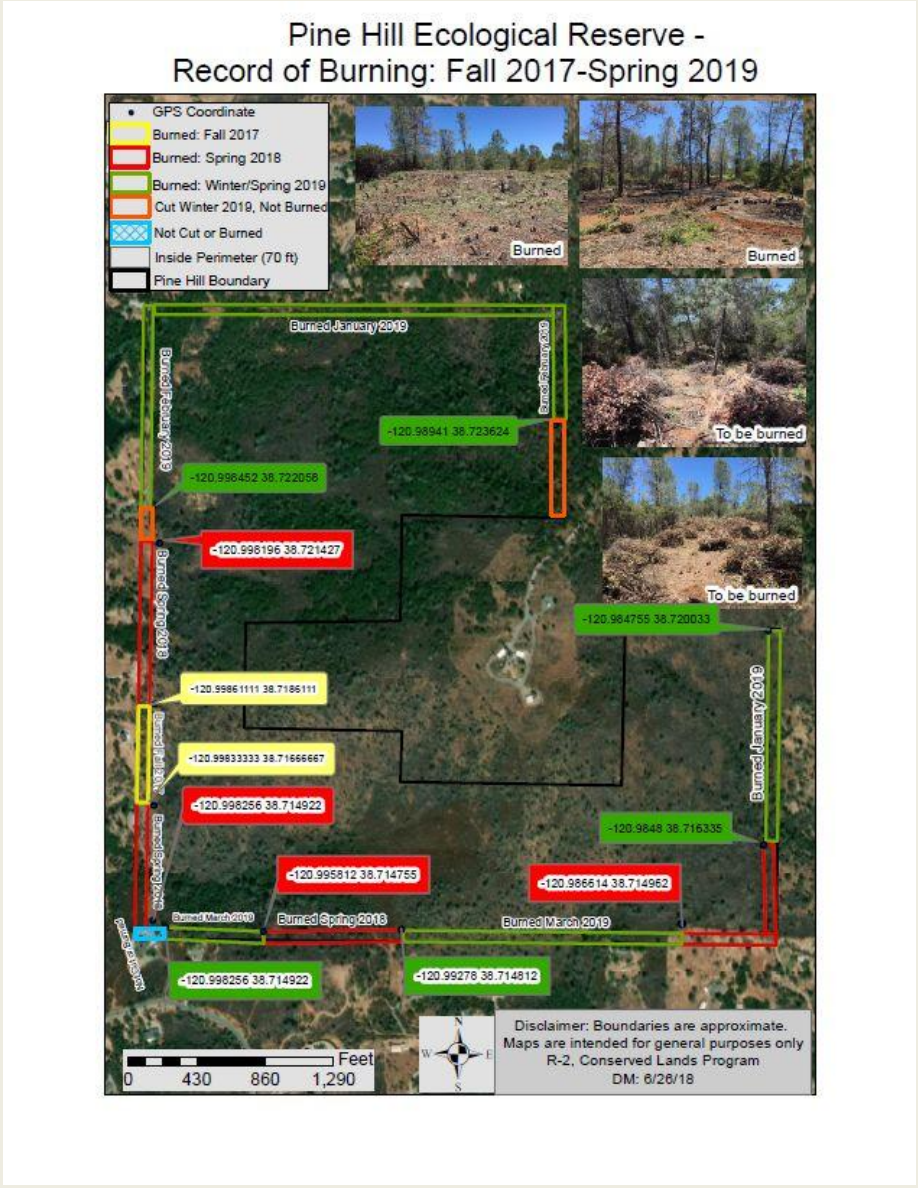
- Plant surveys conducted March-April 2017
- 12 field survey days, 19 volunteers, 200 hours
- Data/map compilation 15 hours
- Coordination, reports, presentations 45 hours

- 8.5 acres surveyed, flagged, and mapped

Result of Phase I plant surveys



Calfire clearing and burning 2017-2019



Phase II- The El Dorado Chapter 2019 - 2021

- Completely survey and map all rare species once the brush is cleared – DONE April 2019
- Establish plots on burned and cleared sites to:
  - document regeneration of the rare species after clearing and clearing plus burning.
  - assess recovery of chaparral.
  - assess invasion by weeds.
- The Chapter has spent 230 hours in 2019 on Phase II

Chaparral Rare Species

Stebbins' morning glory

Pine hill ceanothus

Pine hill flannelbush

El dorado mule ears

El dorado bedstraw

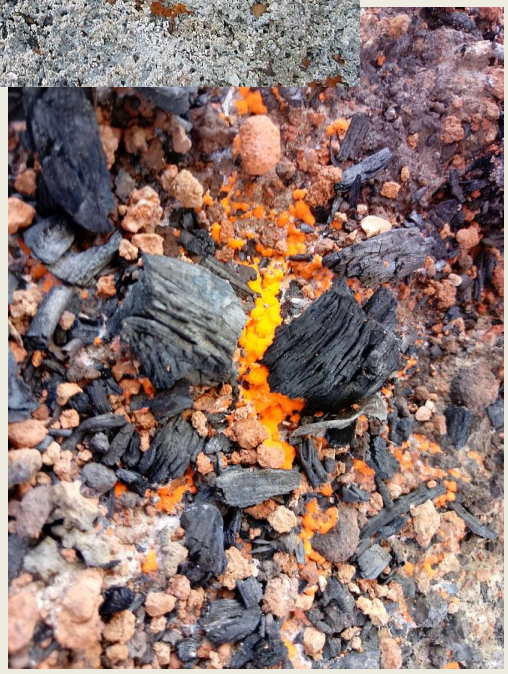
Layne's butterweed

Fire-following moss, fungi, and plants

***Funaria hygrometrica* Cord Moss**

***Anthrocobia sp* Cup Fungus**
Tremella sp Witch's butter

Calandrinia breweri
Brewer's Redmaids



Phase II plot Experiments