

# A New Hue Hume

Group  
Eight

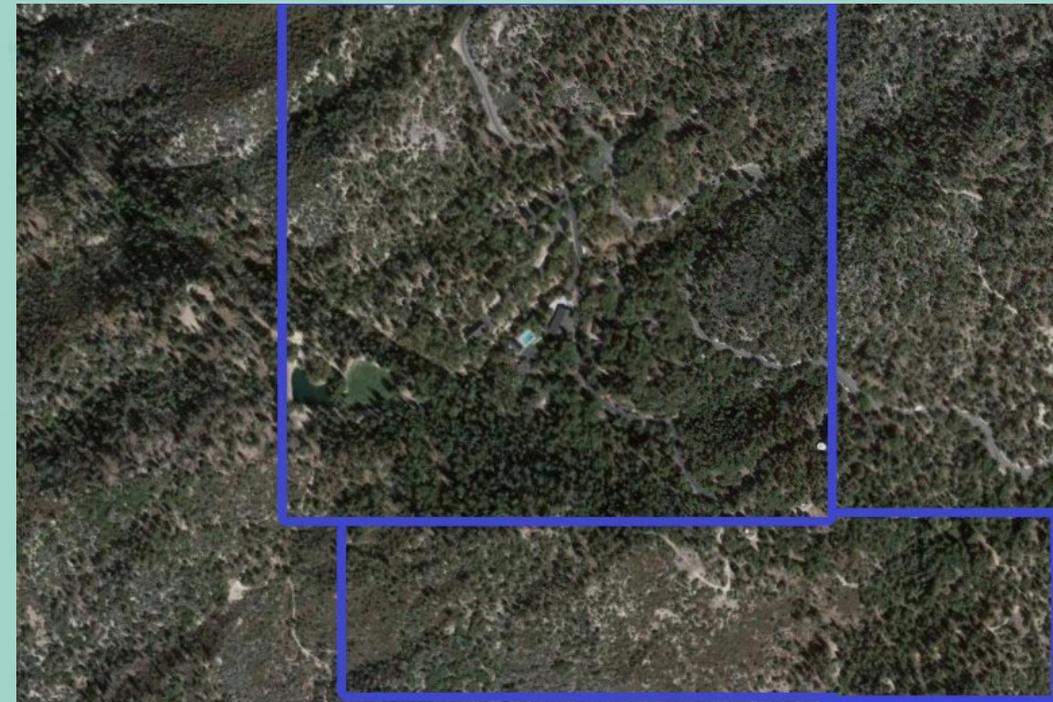
Let's learn about

HUME SOCIAL



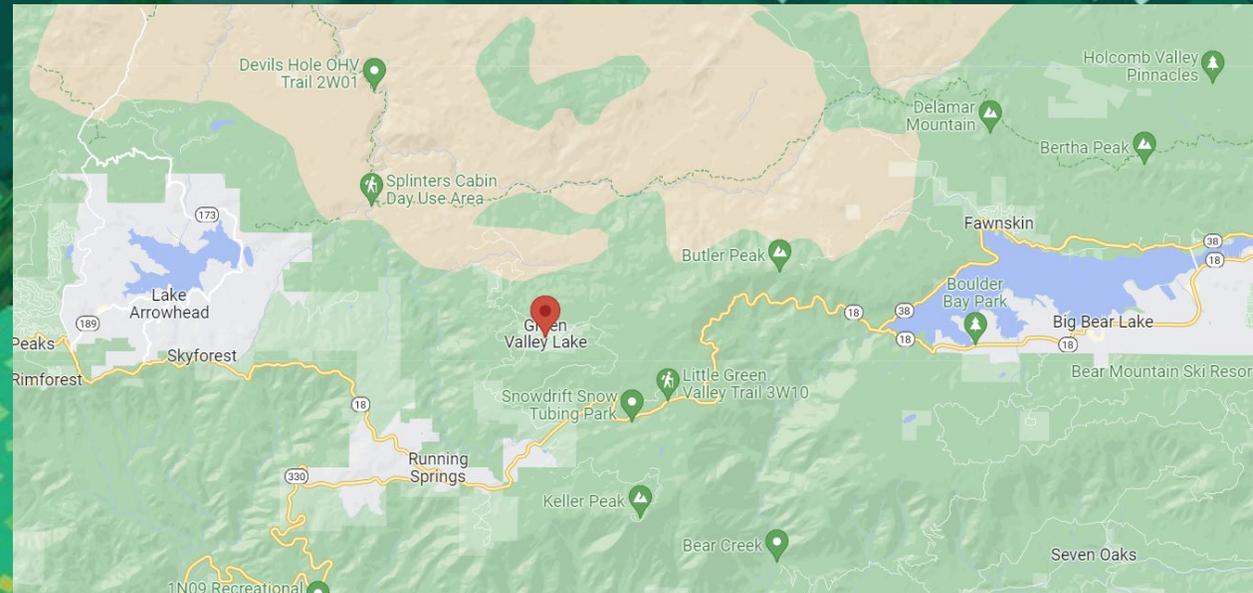
## About the Plot:

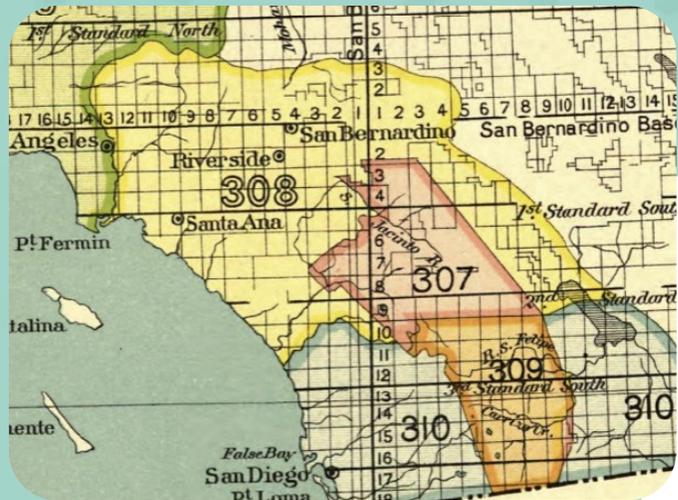
- 6,500 ft. in elevation
- 250 acres of mixed conifer forest



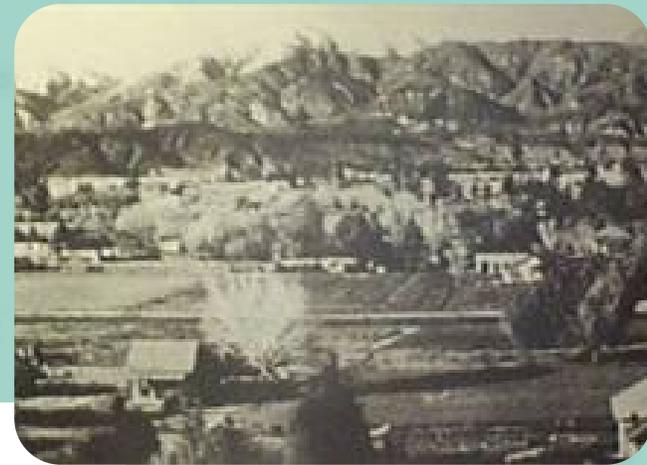
## About the Location:

- Between Lake Arrowhead and Big Bear
- San Bernadino Mountains



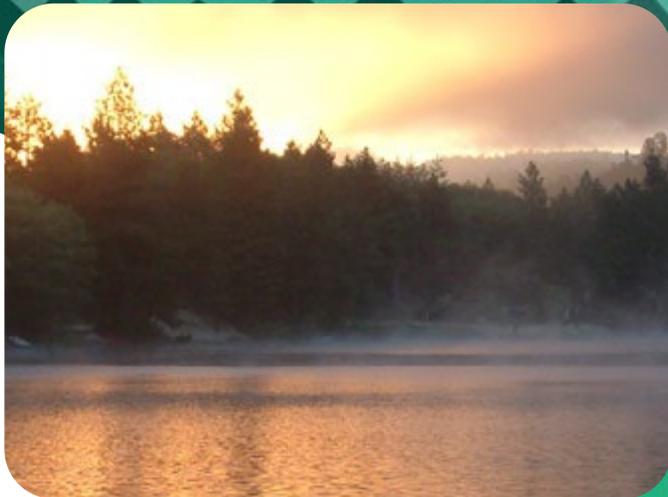


For hundreds of years, the Gabrielino-Tongva tribe served as caretakers to the San Bernadino Mountains until it became available for new settlers under Cession 308.



The late 1800s saw population boom with the ranching, logging and mining industries growing in the area.

By the 1920s, the area shifted from industrial to recreational use as more public roads and facilities improved access.



Library of Congress  
City of San Bernadino  
Green Valley Lake





forest management  
plan

# Define Objectives

Hume SoCal should look to invest resources for the purposes of recreation.

Pre-liminary observations of the property demonstrated the following:

- A. Increasement of accessibility via trails and improved road networks
- B. Fire breaks that dually serve as hiking trails and fire prevention measures

Maintenance of a safe and welcoming environment drives the vision for Hume going forward from 2022.

Taken from Stock Photos





Kaile uses an angle gauge to determine which trees fall within plot.

Andrew uses a logger's tape to determine tree diameter; alongside a clinometer, logger's tape can determine tree height.



Alexsandra uses a densitometer to check for canopy cover, calling out positive or negative for Kayla to record.



# Assessing Conditions

- Data Points of Focus
- General Climate
  - Forest Mapping
  - Physical Features of the Forest
  - **Tree Conditions**

To measure tree conditions, our team used a wide variety of tools and collaborated with other teams to survey an individual plot.

The data was collated with the other groups to create an estimation of Hume SoCal's conditions for 2022.

Photos taken by Kayla

# Seven Years Later

Following the given plot map, 2022 Forestry Challenge used plots A-E to estimate forest conditions

## 2015

Basal Area per acre **105**

Trees per acre **63**

Canopy Cover **53%**

Most Common Tree Species  
**Jeffrey/Ponderosa Pine and California Black Oak**

## 2022

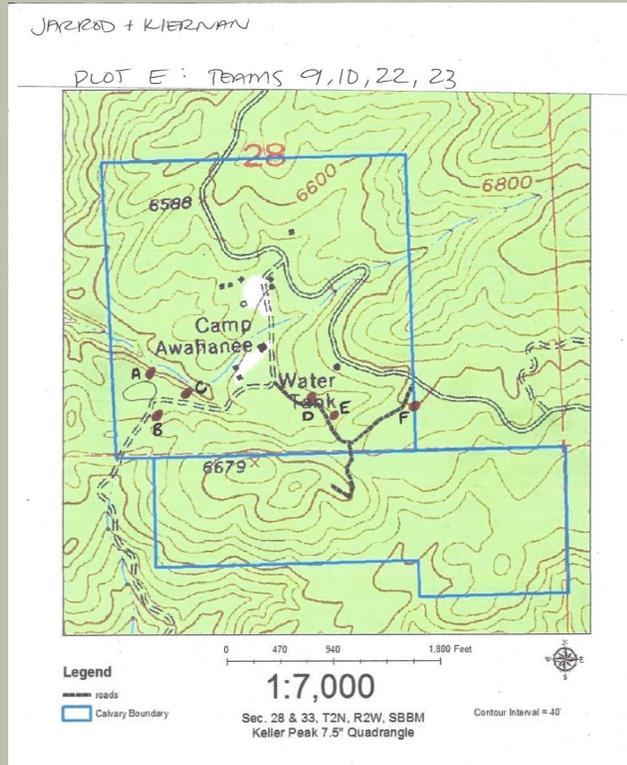
Basal Area per acre **162**

Trees per acre **105**

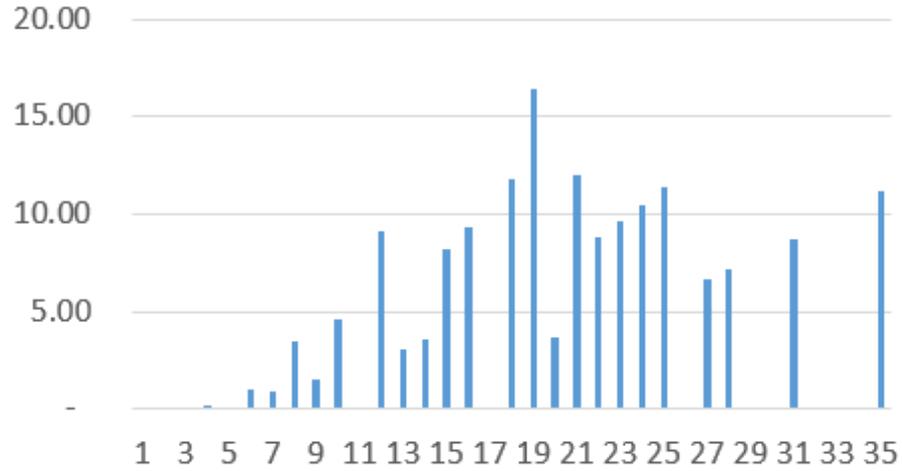
Canopy Cover **65%**

Most Common Tree Species  
**Jeffrey/Ponderosa Pine and California Black Oak**

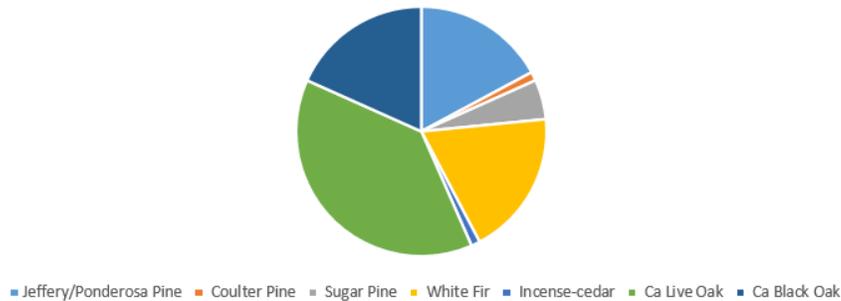
Data provided by Forestry Challenge



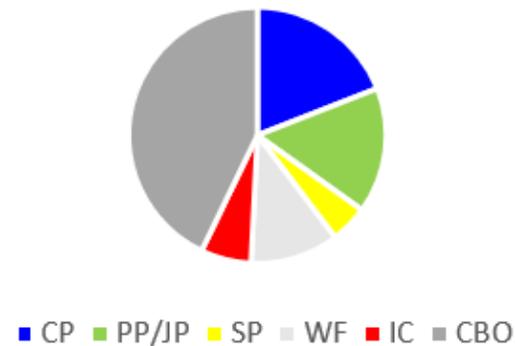
Basal Area/Acre



Species Composition



Species Comp



# T H R E A T S

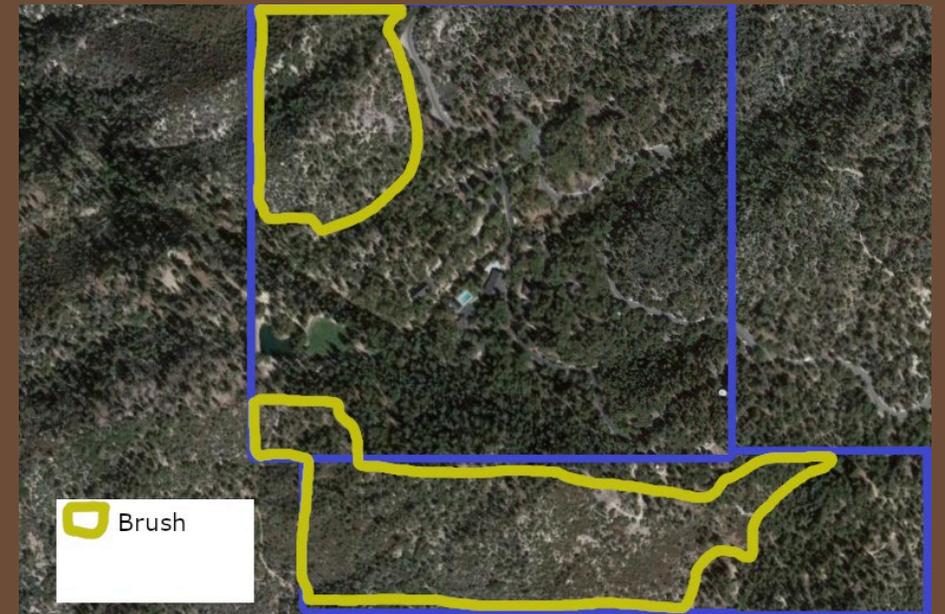
Southern California is prone to forest fires which can become a hazard to environmental and human development depending on how we approach it.

Basal area data indicates high density which increases risks for fires.

Small- and medium-sized trees serve as ladders for fires to climb to taller trees.

Data from tree core samples demonstrates competition between the various flora for resources such as water and sunlight.

Photos from Diane  
Thank You to CalFire Fire Protection Chief Glenn Barley  
and USDA Forester Kelly Sybolt



# treatment

## TREATMENT

1. Thinning - \$100 to \$800 per acre\*
2. Pruning - \$50 to \$250 per acre\*
3. Hand Cut and Chip - \$1000 per acre
4. Herbicides - \$200 per acre

Consider roadside safety: less coulter pines by roads

Create fire breaks: this issue will be resolved through the addition of hiking trails throughout the camp

\*Information courtesy of "Reducing Fire Risks on Your Forest Property"

Photos from Forestry Challenge



**\$1,000 per acre**

# Forest Management Plan

Through the Completion of a California Cooperative Forest Management Plan, landowners gain access to a variety of resources:

- ATFS (American Tree Farm System) Program
- NRCS (Natural Resources Conservation Service) Cost Share Program
- USFS Forest Stewardship Program

All background photos from Pinterest

- Future Steps to Complete Plan:

- A further survey of the property is needed to wholly assess the conditions present

Info Needed:

- Slope
- Road Accessibility
- Bird and Animal Species
- Permits Require
- Soil Health

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