





Upper Little Bear Mtn. Club: Location & Size

- In the Lake Arrowhead area
 - Near the town of Blue Jay
- 15 miles from Hume SoCal
- 40 acres of undeveloped forest
- 5,200 feet elevation
- Mixed conifer-oak forest
 - Ponderosa Pine
 - Jeffrey Pine
 - White Fir
 - Incense Cedar
 - Sugar Pine
 - California Black Oak
 - Live oak species

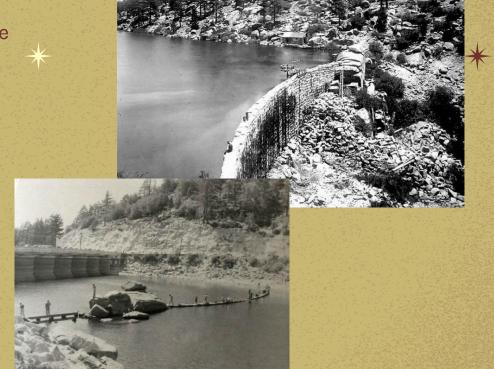


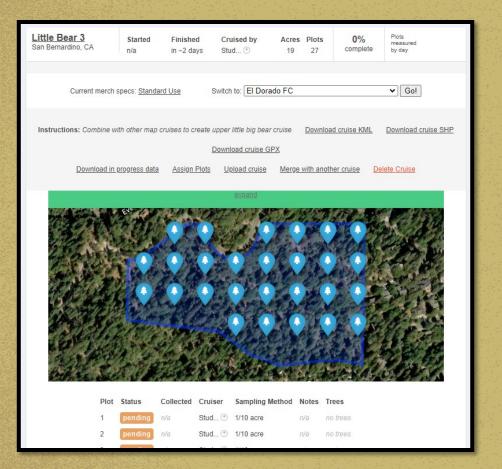




Upper Little Bear Mtn. Club: History

- 1890 Redlands and Rialto propose diverting natural river flow from north to south to expand citrus groves
- 1913 Court decision prevented diverting water
- Purpose was altered to create a recreational community
- Dam was built for then Little Bear
 Lake, now named Lake Arrowhead
 (1922)





The Plot Locations





Reduction Project

Program created by CAL FIRE in reaction to an increase in intense fires to manage projects at no cot to communities and reduce fuel on the 40 acres of developed ULB forest. Previous treatments have occured, three times, so it is considered matinence-rentry. Work began in Oct 2021.



Specifications

- Thin trees under 12" DBH
- Prune branches to 8' or 1/2 of tree height
- Remove vegetation under drip-line of trees
- Remove dead/dying/diseased trees, leaving snags
- Chip or cover bark beetle infested wood
 - Remove 85% of brush
- Space retained brush ~ 2.5x fuel height



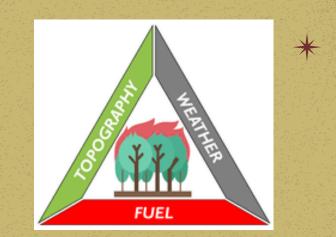




Fire Behavior



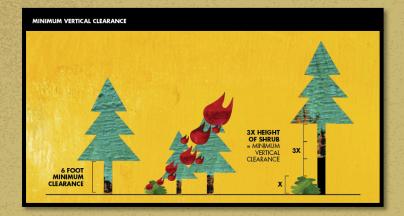




Fire Behavior Triangle

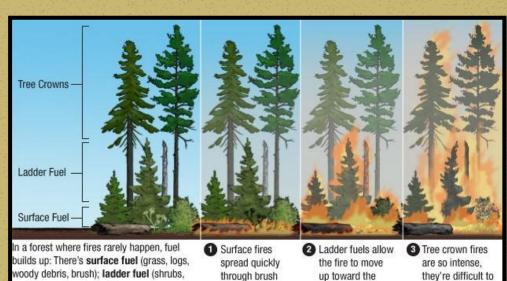








FIRE BEHAVIOR



and woody debris.

forest canopy.

control.

small trees, snags); and tree crowns.

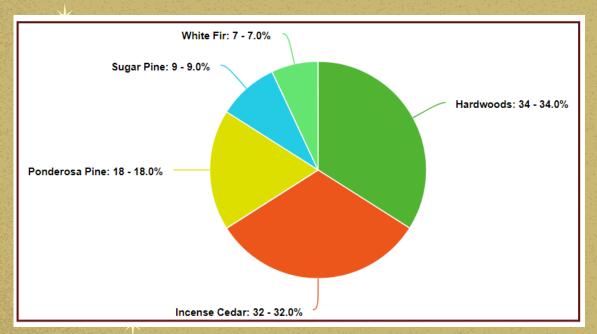


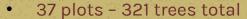
FUEL REDUCTION IS VITAL IN WILDLAND **URBAN INTERFACES**



THE DATA







- 87 Trees per acre
- Basal Area using DBH = 189 sq ft/acre
- Basal Area with angle gauge = 168
 sq ft/acre
- Avg 3.8 dead trees per acre





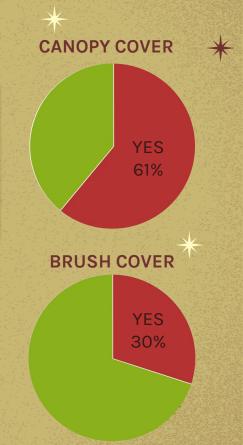


THE DATA

PROJECT ASSESSMENTS	Trees with canopies touching	Trees pruned 8 ft/half of height	Dripline vegetation removed	Small trees with 20 ft spacing
YES	86%	51%	48%	57%
NO	14%	14%	52%	43%



- Growth rings width 0-10 years = 1.71 inches
- Growth rings width 10-20 years = 1.70 inches
- Avg Brush Height = 3 feet
- Percent shrub plants separated by 2.5 times to adjacent shrubs =
 40%
- Beetle Infested plots = 6
- No beetle infested plots were covered in plastic











COMPARISONS: DATA VS OBJECTIVES

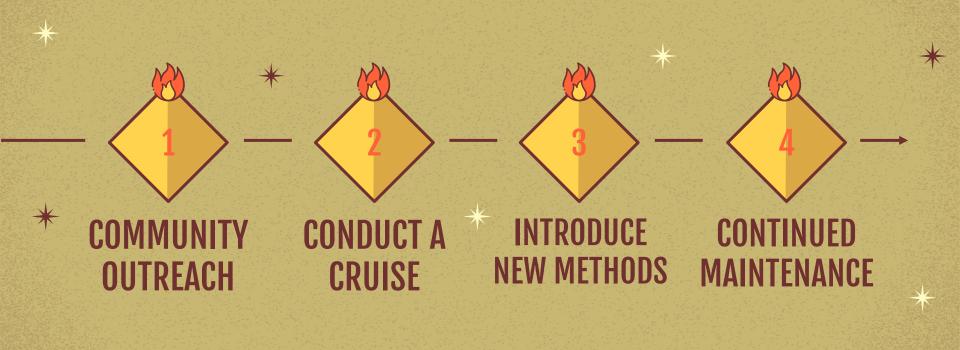


PERCENTAGE OF TREES THAT NEEDED TO REACH **OUR GOALS**



50% PERCENTAGE WE **ACTUALLY MET**

TIMELINE FOR FUTURE TREATMENT: STEPS





Fire Prevention and Future Plans



Here to Inform YOU and Your NEIGHBOR

Herbicides



Can **reduce** disturbance in the forest if used responsibly and cheaper than other methods

Prescribed Fires *



Can help **reduce** the intensity of a wildfire by burning away surface fuels

If you have any more questions, contact us at (xxx) xxx-xxxx or come to the town hall meeting on Monday at 7 pm



Step 3: New Methods



01

Chipping and Burning

* Slash

Reduces risk of a beetle infestation.

02

Herbicides

Efficient way to reduce vegetation and can have limited effect on an ecosystem when used responsibly

Prescribed Fires

03

Burn surface fuels to decrease risk of intense wildfires



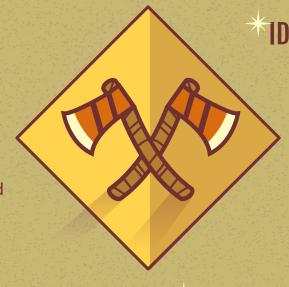


STEP TWO: CONDUCTING A CRUISE

*

IDENTIFY AREAS OF HIGH PRIORITY

Better allocation of time and energy "You're not going to be able to treat 100% of everything." – Jarrod Powden, professional forester (no RPF)



IDENTIFY SPECIES THAT NEED CONSERVATION

White Firs and Sugar
Pines had low
populations
Manzinita Shrubs
should be left for
wildlife







TREATMENTS

Only 3 treatments were done in the past 20 years. - Ian McBride, RPF 3170

Prescribed fire, herbicides, thinning and chipping should be done annually.

Thinned trees and shrubs will eventually grow back.

CRUISES

Should be done before and after treatment. – Samantha Conn, Forester (No RPF.)

Cruises will help determine how effective treatments are.

Eventually, we can reduce the frequency we do treatments and cruises.

