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STANISLAUS LANSCAPE PROJECT

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MAINTENANCE FLOW CHART

A flow chart used for finding the right maintenance methods

Applying the ChartOur final thoughts

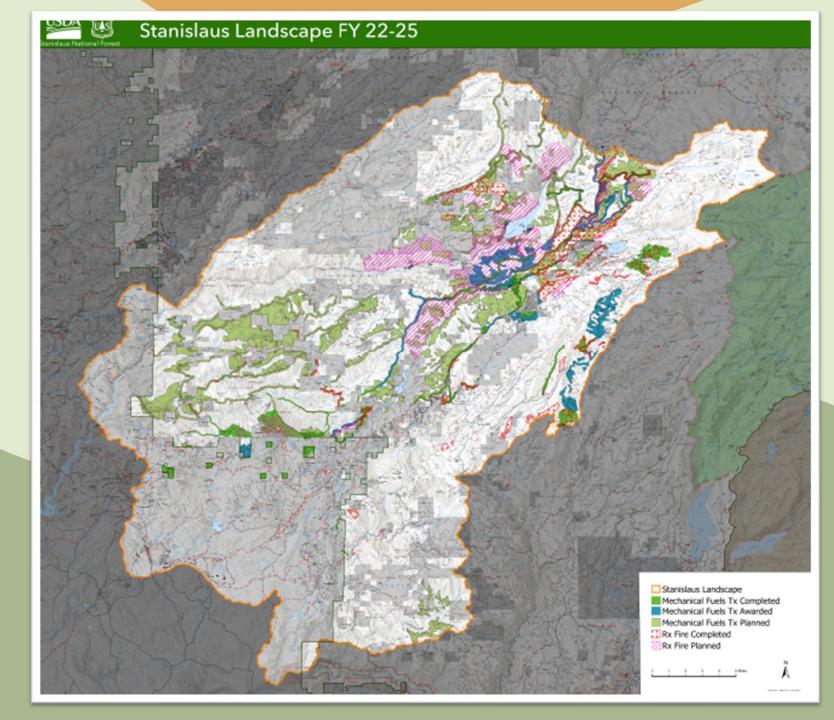


The Stanislaus Landscape Project

2021 Wildfire crisis
1 of 10 Landscaped funded for
fuel reduction
Chosen because of fire-corridor
and potential for catastrophic
fires.

300,000 getting treated with

fuel breaks.



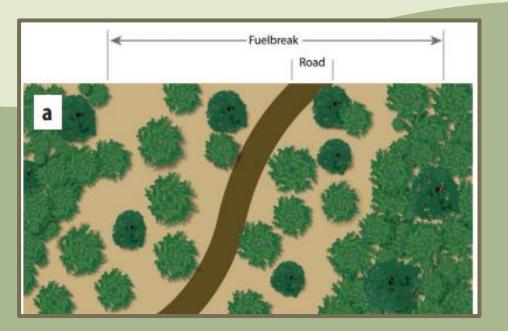
Form and Function of Fuel Breaks in the SLP

- Removal of ground fuel to slow the spread of potential fire
- Thins trees to create space between the crowns
- Fuel breaks require maintenance to control vegetation regrowth in the years following their initial installation





Figure 13a. A perimeter dirt road serves as a firebreak. The area immediately to the left is a fuelbreak where young pine have been thinned and flammable shrubs have been mowed.



Importance of Maintaining Fuel Breaks

- If fuel breaks are unmaintained for multiple years they will regrow
- Continuous maintenance keeps the area resistant to fire
- Fuel breaks must be maintained across different land ownerships to be effective







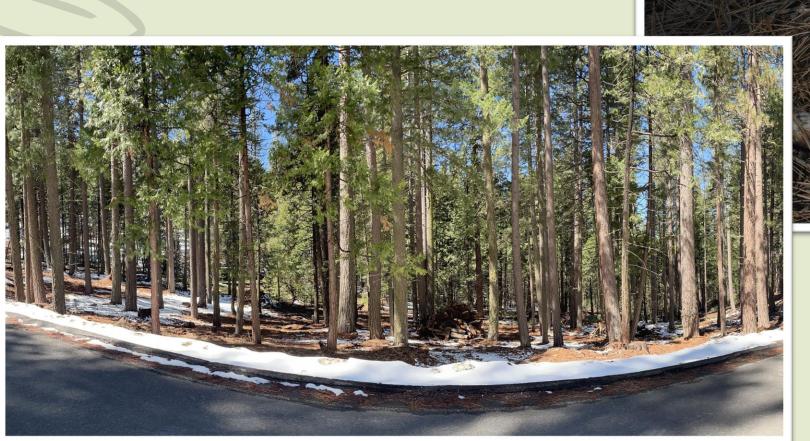
Mastication

Pros:

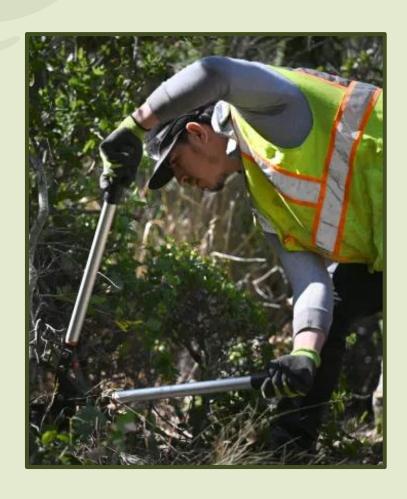
- Soil benefits
- Wildlife use
- Large scale

- Leaves fuel on ground
- Weather conditions
- Can't access steep or rocky areas
- High cost
- o Can damage soil

Mastication Treatment Area







Hand Piling

Pros:

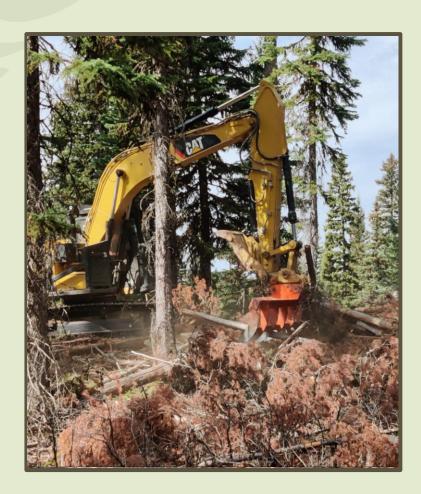
- Precise work
- Fast work
- Can access any terrain

- High cost of labor
- Labor intensive
- Small scale
- o Piles must be burned

Hand Piling Treatment Area







Machine Piling

Pros:

o Large scale

- Equipment cost
- o Can't access steep terrain
- Will hurt sensitive soil
- Piles must be burned

Machine Piling Treatment Area

*After Pile Burning







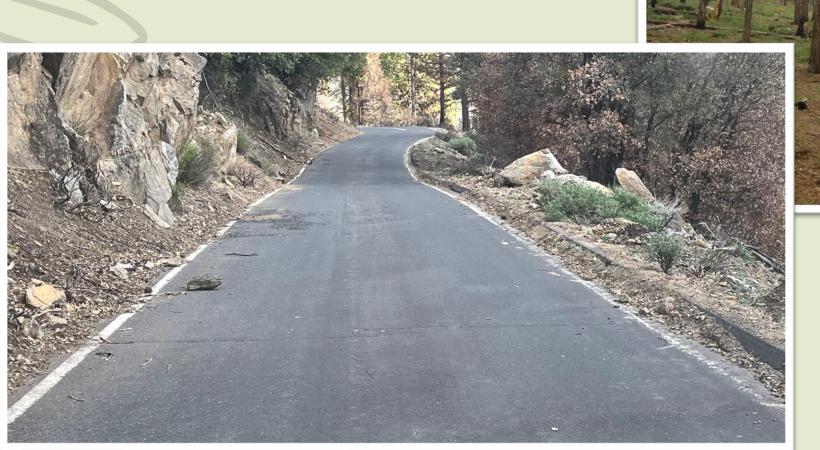
Broadcast Burns

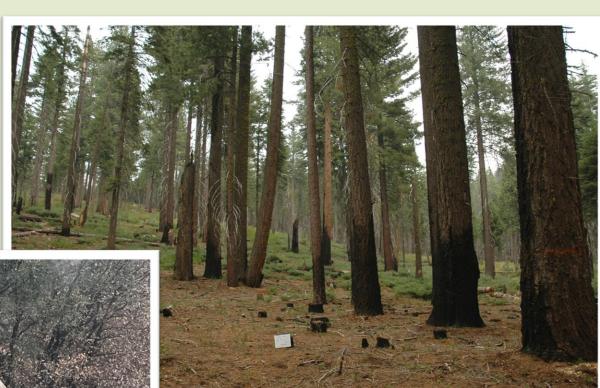
Pros:

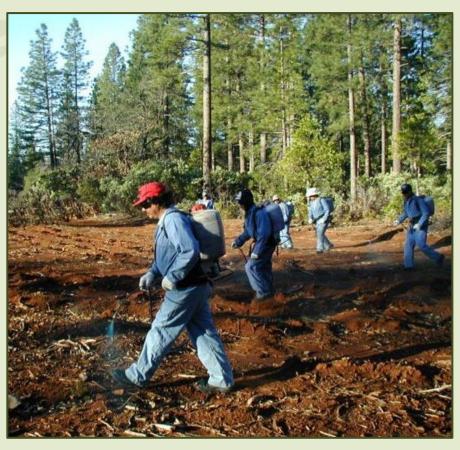
- Very cheap
- o Clears large areas quickly o Can't use around
- Provides nutrients for soil

- Very risky
- Can't use around populated areas
- Needs a prescription
- Can only be done in certain weather conditions

Broadcast Burn Treatment Area







Herbicides

Pros:

- Lasts a very long time o Public perception*
- o Cheap

- Requires little follow up o Needs prior treatment





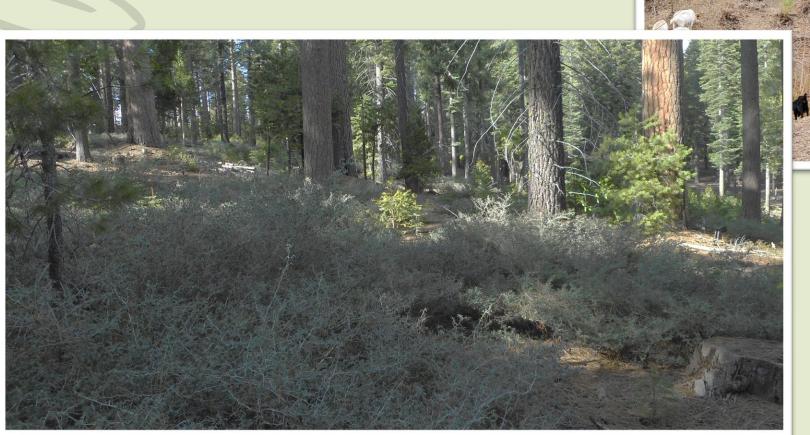
Grazing

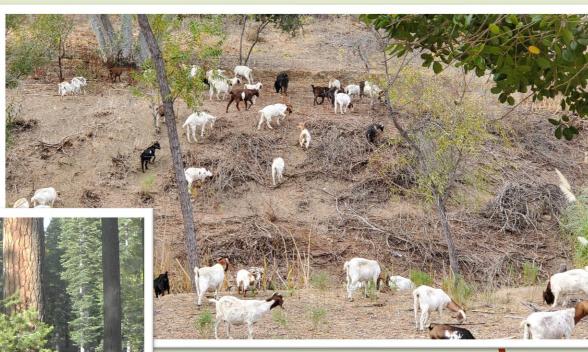
Pros:

- Good for ecosystem
- Feeding livestock

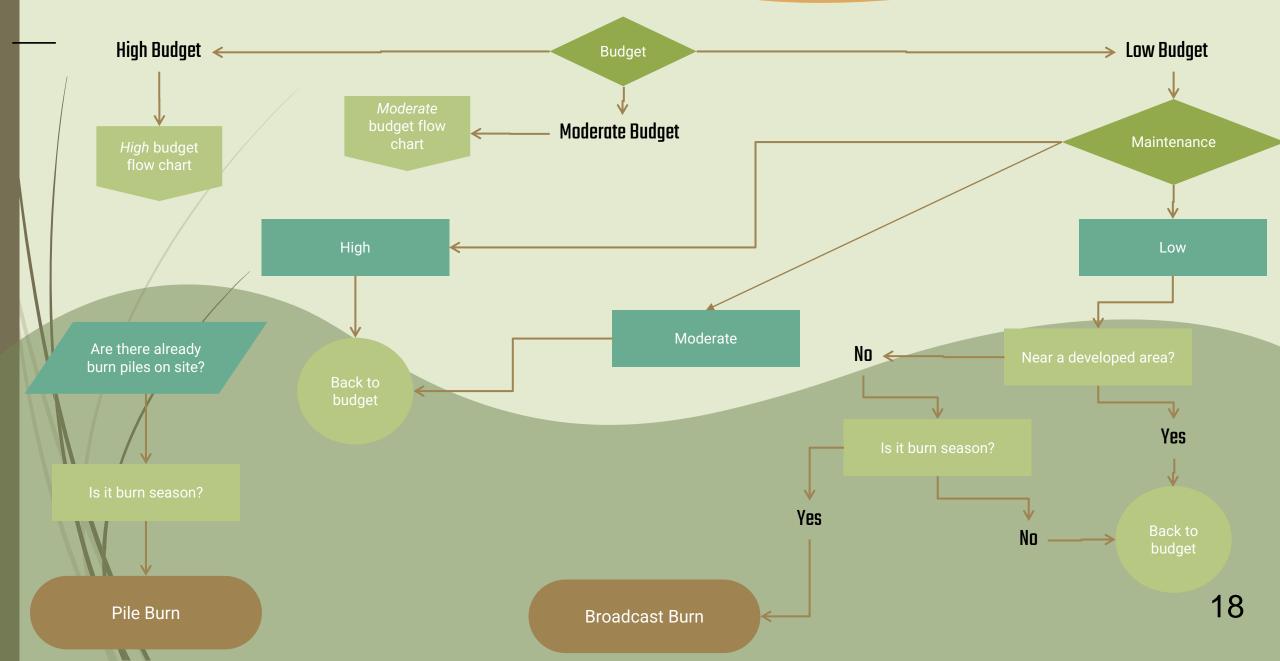
- Conditions can be particular
- Work required to transport and manage
- o Brush needs to be low

Grazing Treatment Area

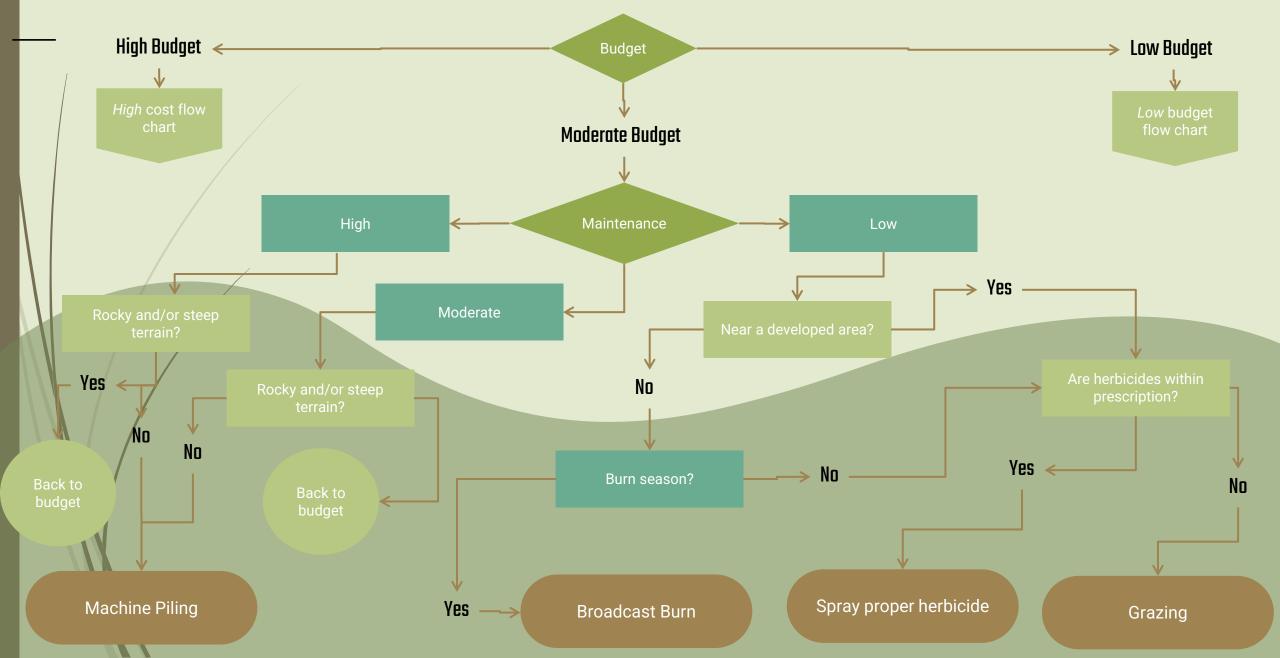




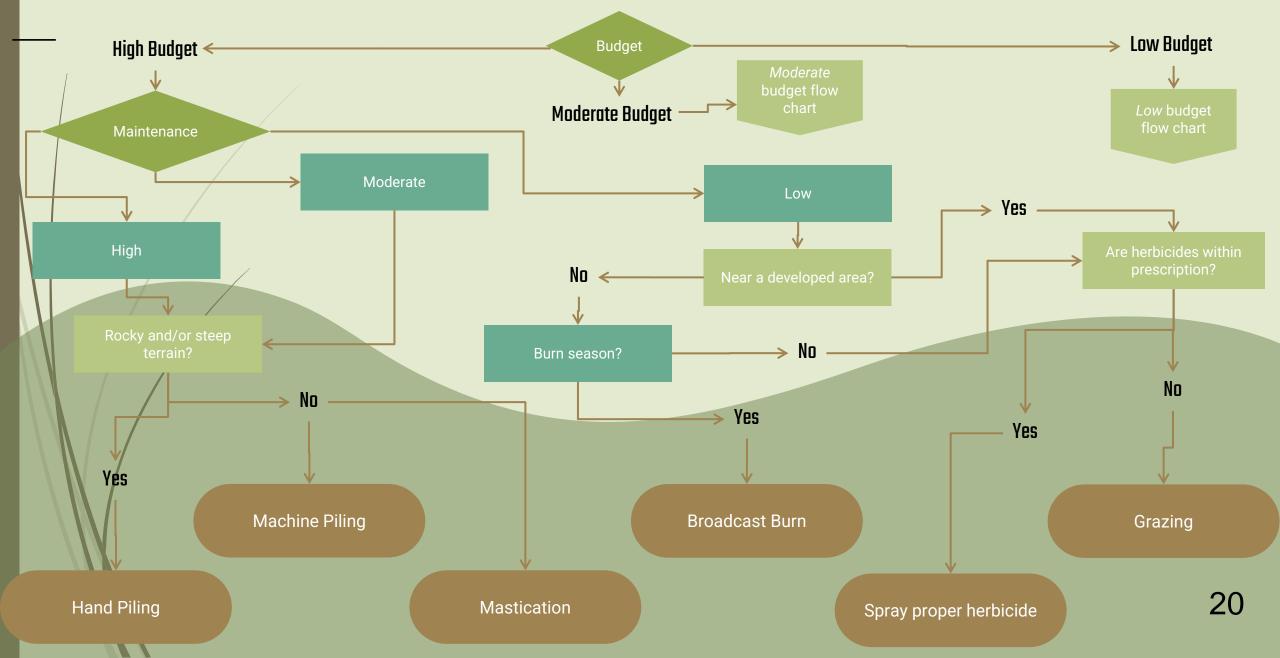
Maintenance Method Flow Chart (Low Budget)



Maintenance Method Flow Chart (Moderate budget)



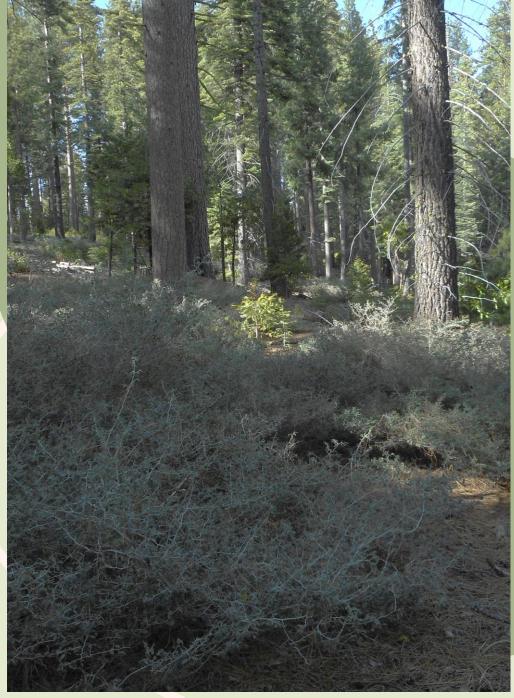
Maintenance Method Flow Chart (High Budget)



Treating the Plot

The plot below is a low-moderate maintenance area





Any Questions?

THANK YOU FOR LISTENING

-TEAM 6