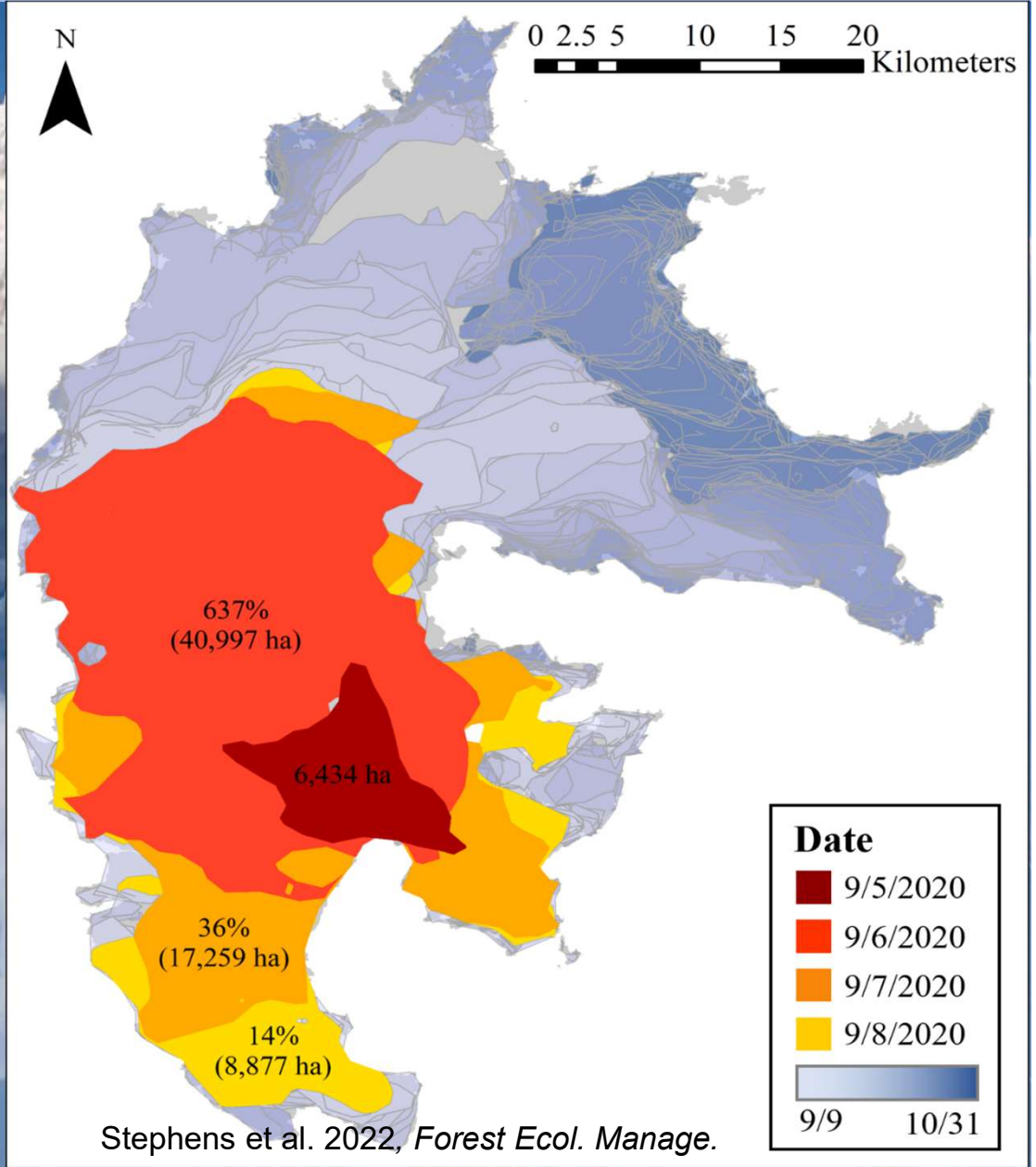


Extreme fire behavior – Creek Fire (2020)



Credit: Thalia Dockery

Heavy downed fuels – Sierra NF



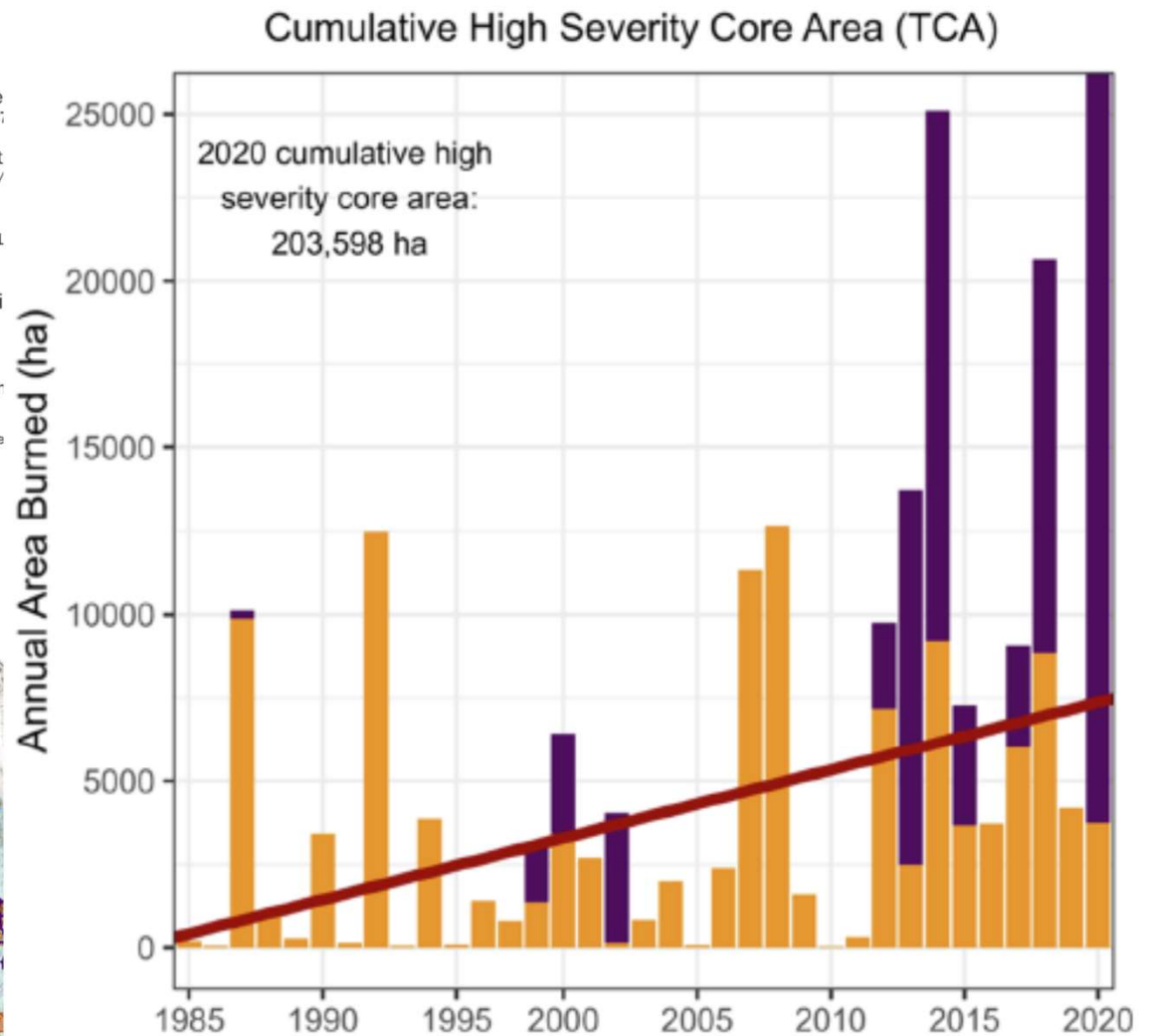
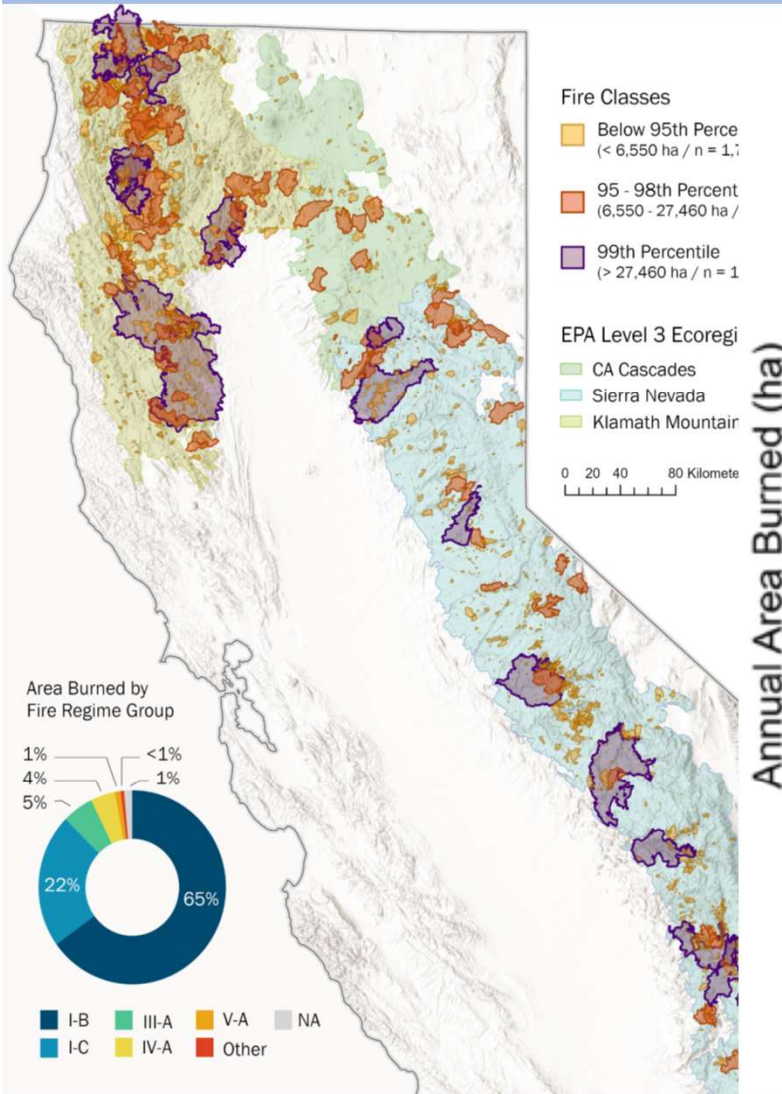
Credit: Carolyn Ballard

Extreme fire behavior – Dixie Fire (2021)



High severity fire in N. CA forests (1985-2020)

Core area: >120 m interior from patch edge



Above 99th Percentile
 Below 99th Percentile

Legacy of past management in California's forests:

- **Eliminating fire from *fire-maintained* forests**
 - Fire suppression
 - Fire exclusion (removing intentional burning)
 - Grazing
- **Timber harvesting**
 - Overstory removal
 - Even-aged harvests



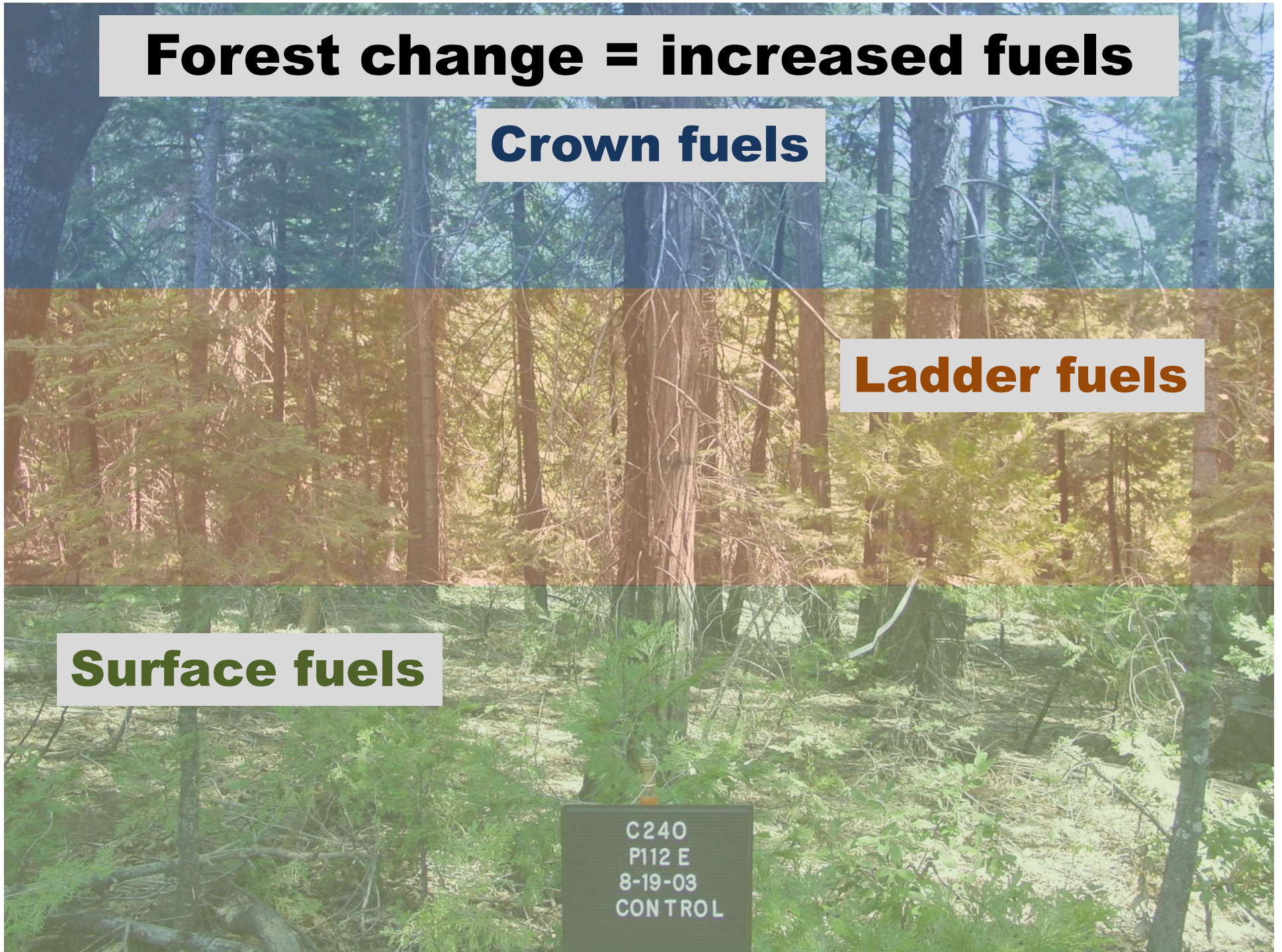
Forest change = increased fuels

Crown fuels

Ladder fuels

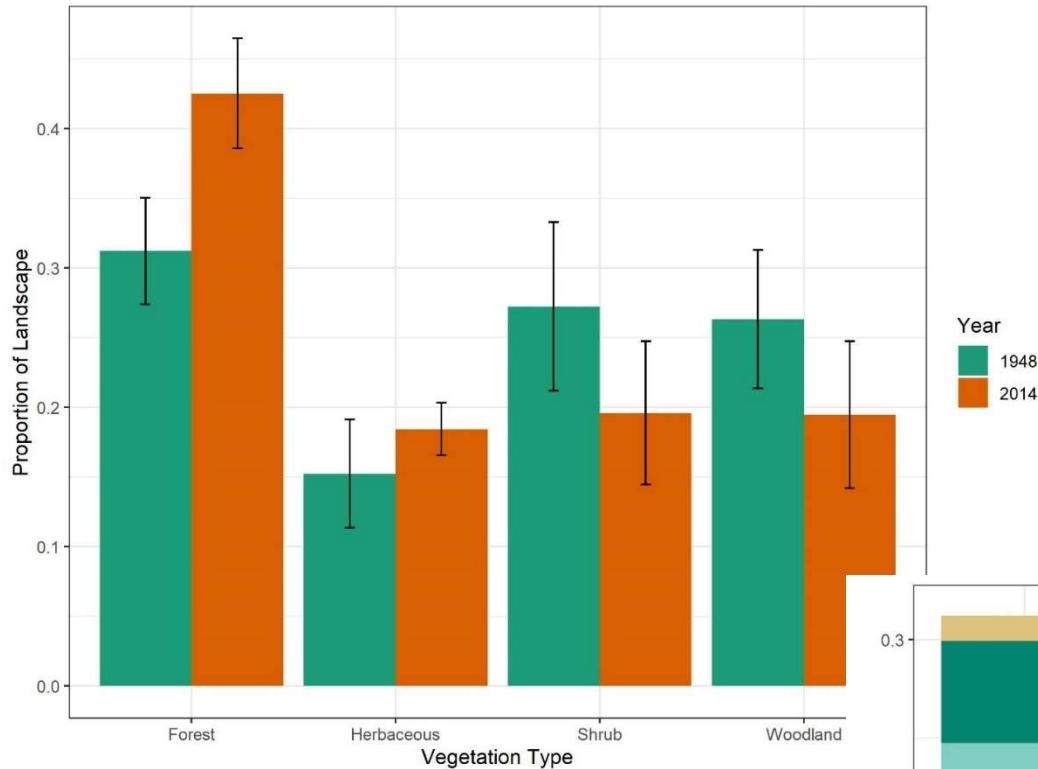
Surface fuels

C240
P112 E
8-19-03
CONTROL

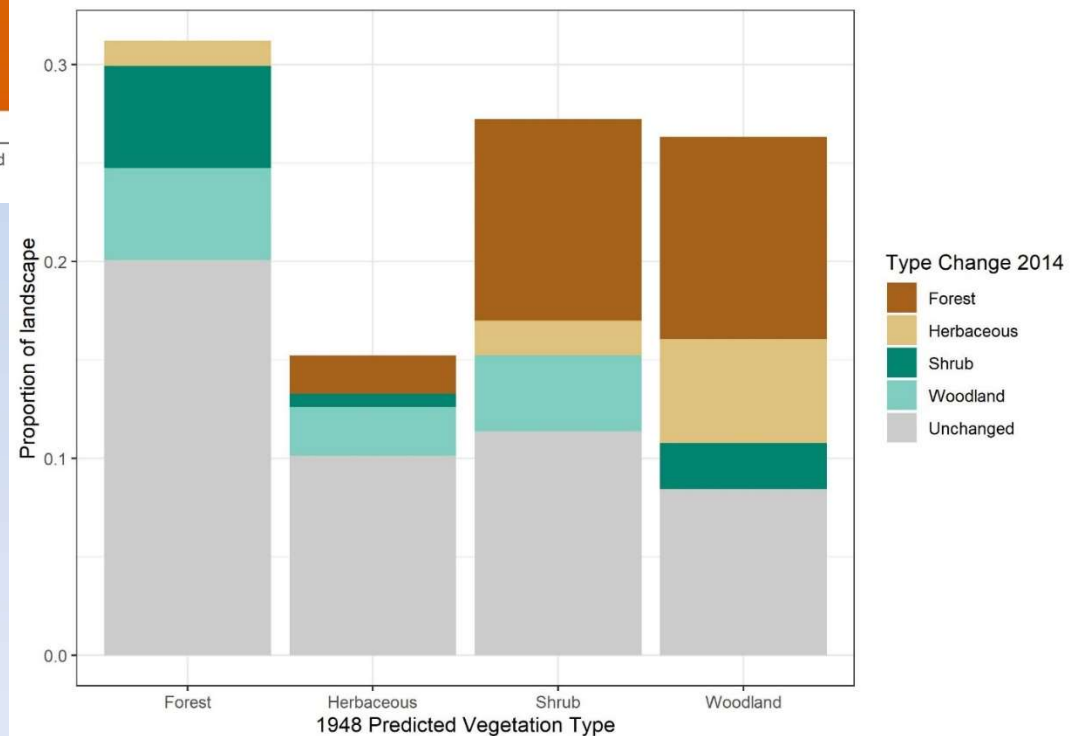


Landscape vegetation change: Northern CA

Including portions of
Napa, Sonoma, and
Solano counties
(~130,000 ac)



Attribution of type change



A Fuel treatment: thinning (mechanical)



Fuel treatment: prescribed fire



Fuel treatments = reduced fuels

Crown fuels

Ladder fuels

Surface fuels

C 570
P113 S
8-19-03
MECH&FIRE
POST TREAT