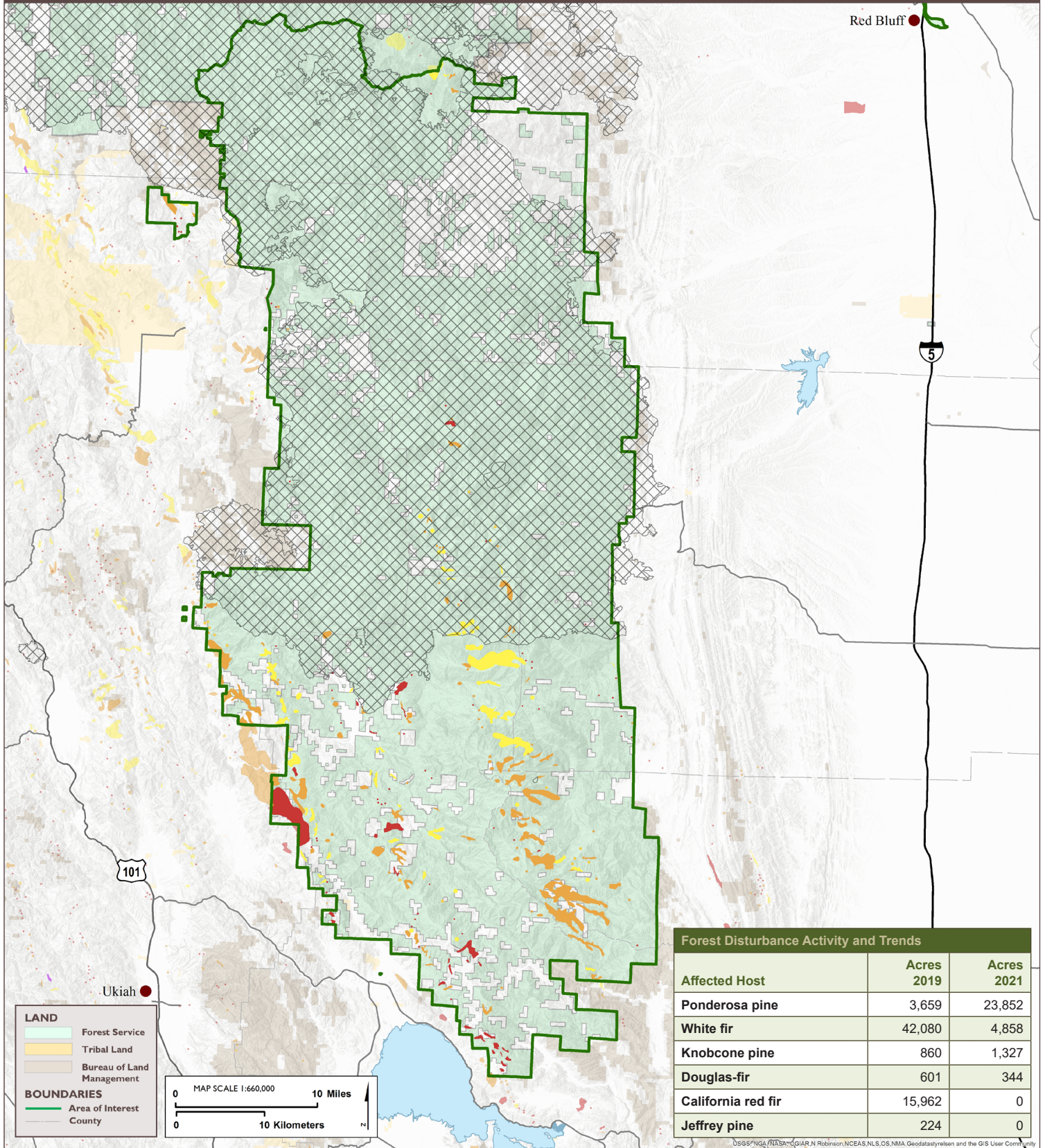




# AERIAL DETECTION SURVEY, 2021 MENDOCINO NATIONAL FOREST



### Forest Disturbance Activity and Trends

Affected Host	Acres 2019	Acres 2021
Ponderosa pine	3,659	23,852
White fir	42,080	4,858
Knobcone pine	860	1,327
Douglas-fir	601	344
California red fir	15,962	0
Jeffrey pine	224	0

**LAND**

- Forest Service
- Tribal Land
- Bureau of Land Management

**BOUNDARIES**

- Area of Interest
- County

MAP SCALE 1:660,000

0 10 Miles

0 10 Kilometers

**TREE MORTALITY**  
(dead trees per acre)

- Less than 5
- 5 - 10
- 10 - 15
- 15 - 20
- 20 - 35
- More than 35

**TREE DAMAGE**  
not mortality

**MAJOR FIRES**  
2019 - 2021

USGS, NGA, NASA, CIA, N. Robinson, NCEAS, NLS, OS, NMA, Geodatasystem and the GIS User Community

## Highlights

Overall mortality in the Mendocino National Forest has decreased, from an estimated 510,000 dead trees over 63,000 acres in 2019 to ~450,000 dead trees over 30,000 acres in 2021.

- Douglas-fir mortality increased from approximately 1,300 dead trees across 600 acres in 2019 to ~2,000 dead trees across 340 acres in 2021.
- Knobcone pine mortality increased from approximately 2,500 dead trees across 860 acres in 2019 to ~14,000 dead trees across 1,300 acres in 2021 and located primarily near Signal Peak.
- Ponderosa pine mortality increased from approximately 16,000 dead trees across 3,700 acres in 2019 to ~410,000 dead trees across 24,000 acres in 2021 and was most active in southern and eastern areas of the Forest.
- White fir mortality decreased from an estimated 270,000 dead trees across 42,000 acres in 2019 to ~24,000 dead trees across 4,900 acres in 2021 and was most active in southeastern portions of the Forest.
- California red fir mortality decreased from an estimated 220,000 dead trees across 16,000 acres in 2019 to zero reported in 2021.
- Jeffrey pine mortality decreased from an estimated 650 dead trees across 220 acres in 2019 to zero reported in 2021.



Severe ponderosa pine mortality attribute to western pine beetle on Pine Mountain, Mendocino National Forest.