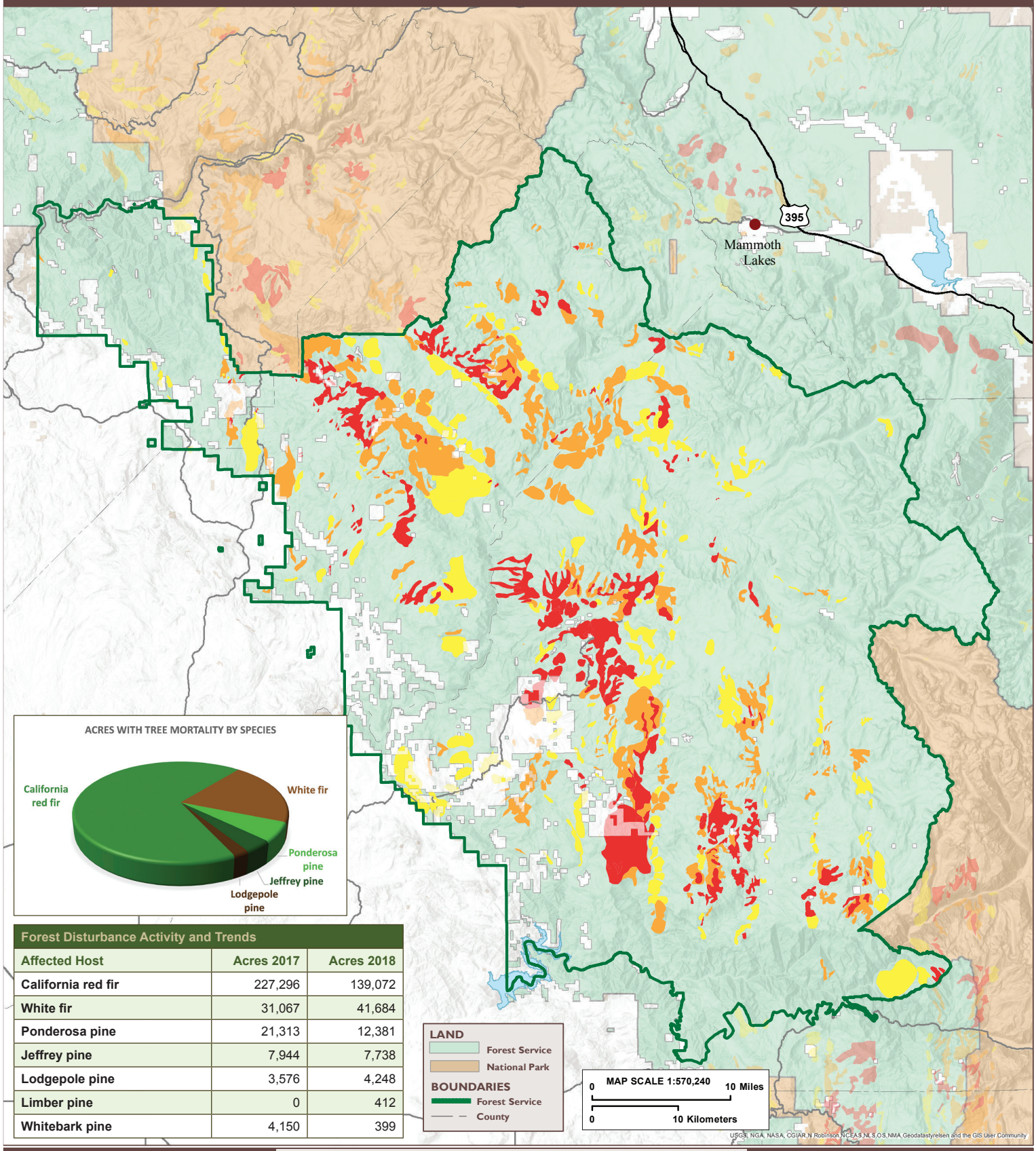
AERIAL DETECTION SURVEY, 2018
SIERRA NATIONAL FOREST

USDA
UNITED STATES DEPARTMENT OF AGRICULTURE



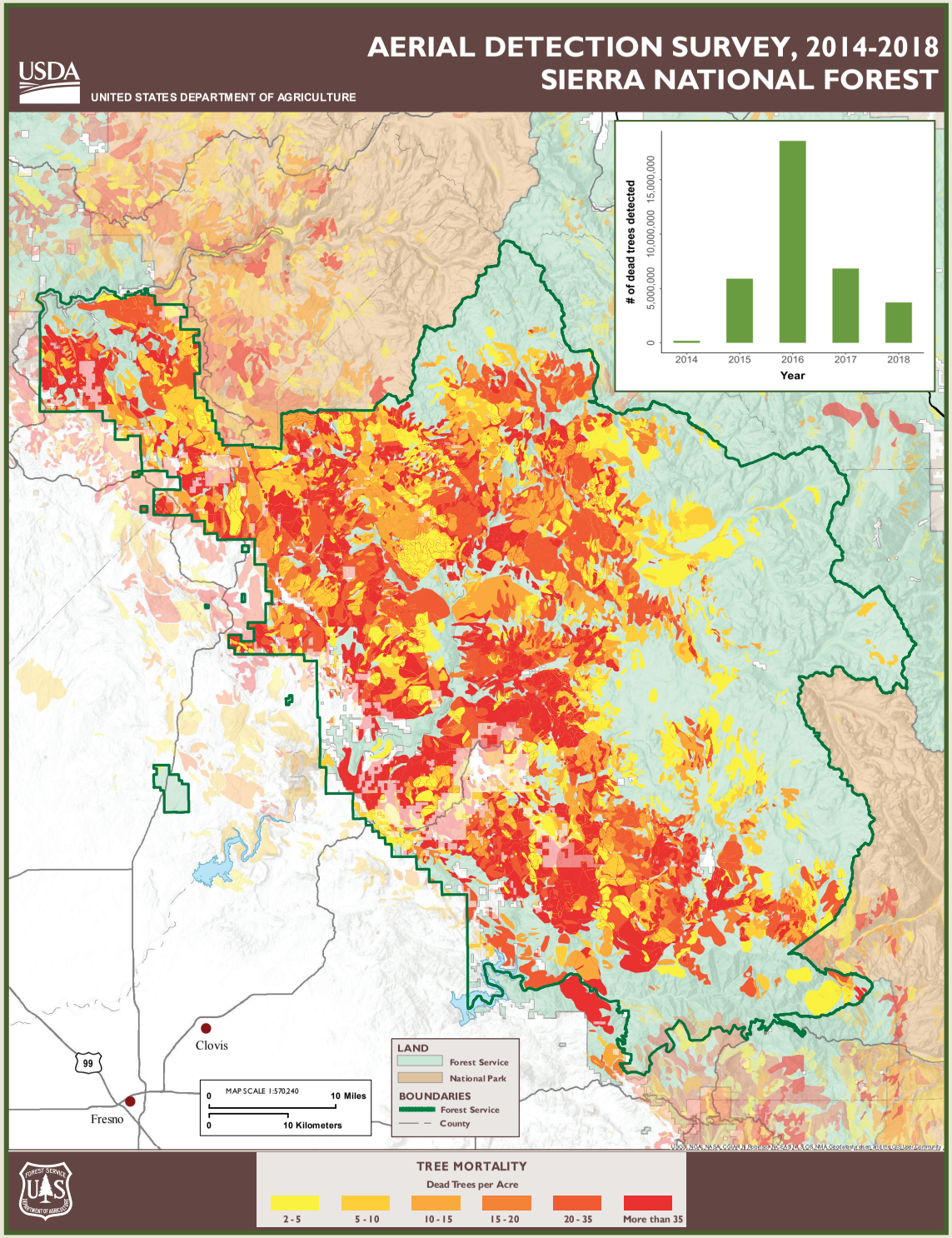
Forest Disturbance Activity and Trends

Affected Host	Acres 2017	Acres 2018
California red fir	227,296	139,072
White fir	31,067	41,684
Ponderosa pine	21,313	12,381
Jeffrey pine	7,944	7,738
Lodgepole pine	3,576	4,248
Limber pine	0	412
Whitebark pine	4,150	399

TREE MORTALITY

Dead Trees per Acre

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



Ongoing California red fir mortality west of Madera Peak, Bass Lake Ranger District.

Highlights

- Overall mortality decreased from approximately 7 million dead trees across 297,000 acres in 2017 to 3.7 million dead trees across 206,000 acres in 2018.
- California red fir mortality decreased from an estimated 6.1 million dead trees across 227,000 acres in 2017 to 3 million dead trees across 139,000 acres in 2018.
- White fir mortality increased from an estimated 406,000 dead trees across 31,000 acres in 2017 to 518,000 dead trees across 42,000 acres in 2018.
- Ponderosa pine mortality decreased from 230,000 dead trees across 21,000 acres in 2017 to 98,000 dead trees across 12,000 acres in 2018.
- Jeffrey pine mortality remained at similar levels from 55,000 dead trees across 7,900 acres 2017 to 49,000 dead trees across 7,700 acres in 2018.
- Lodegepole pine mortality increased from approximately 17,000 dead trees across 3,600 acres in 2017 to 39,000 dead trees across 4,200 acres in 2018.
- Whitebark pine mortality decreased from 21,000 dead trees across 4,100 acres in 2017 to an estimated 1,200 dead trees across 400 acres in 2018.