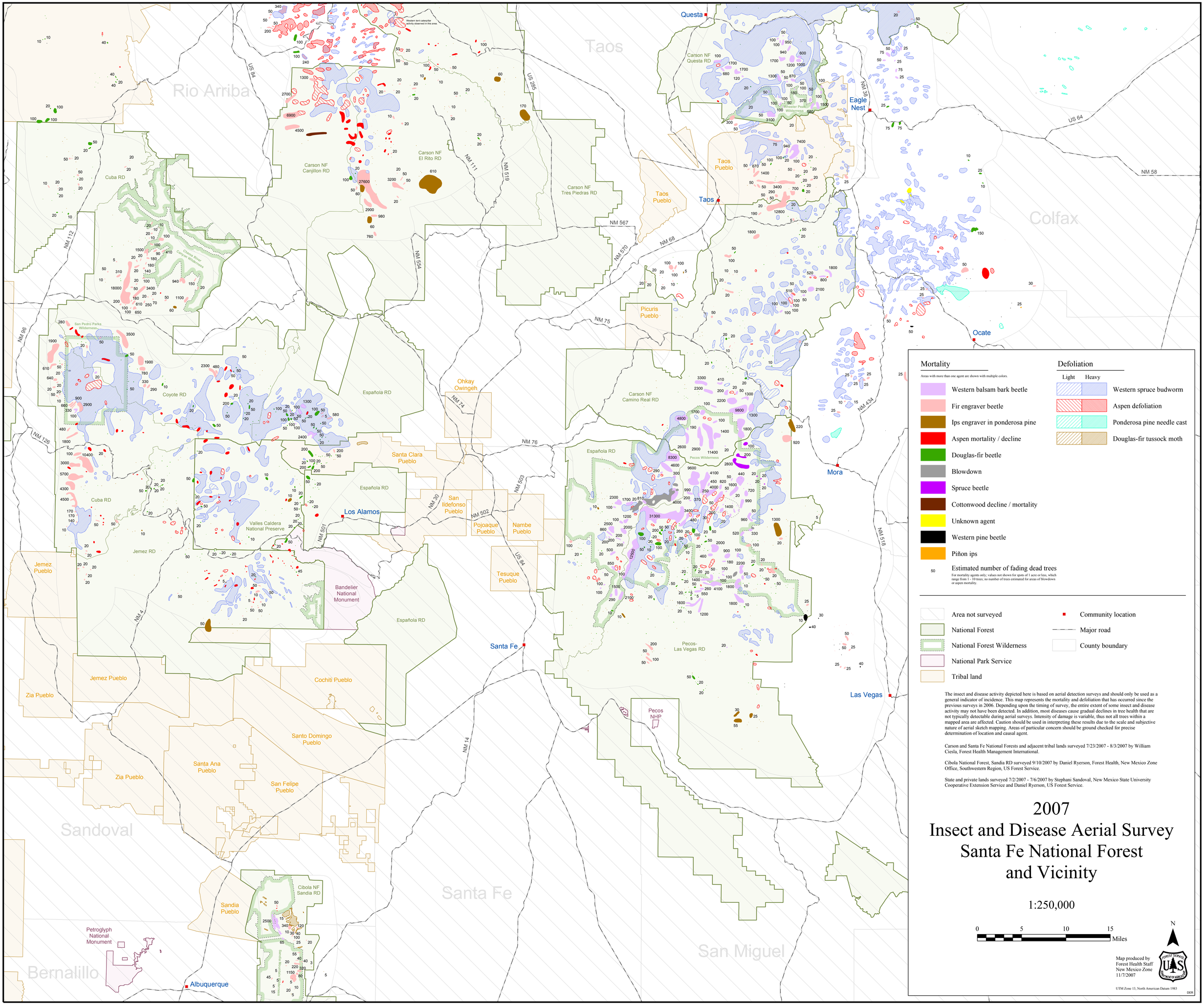


## Mortality

Areas with more than one agent are shown with multiple colors.

- Western balsam bark beetle
- Fir engraver beetle
- Ips engraver in ponderosa pine
- Aspen mortality / decline
- Douglas-fir beetle
- Blowdown
- Spruce beetle
- Cottonwood decline / mortality
- Unknown agent
- Western pine beetle
- Piñon ips
- 50 — Estimated number of fading dead trees

For mortality agents only; values not shown for spots of 1 acre or less, which range from 1 - 10 trees; no number of trees estimated for areas of blowdown or aspen mortality.

## Defoliation

Light / Heavy

- Western spruce budworm
- Aspen defoliation
- Ponderosa pine needle cast
- Douglas-fir tussock moth

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- Area not surveyed
- National Forest
- National Forest Wilderness
- National Park Service
- Tribal land
- Community location
- Major road
- County boundary

The insect and disease activity depicted here is based on aerial detection surveys and should only be used as a general indicator of incidence. This map represents the mortality and defoliation that has occurred since the previous surveys in 2006. Depending upon the timing of survey, the entire extent of some insect and disease activity may not have been detected. In addition, most diseases cause gradual declines in tree health that are not typically detectable during aerial surveys. Intensity of damage is variable, thus not all trees within a mapped area are affected. Caution should be used in interpreting these results due to the scale and subjective nature of aerial sketch mapping. Areas of particular concern should be ground checked for precise determination of location and causal agent.

Carson and Santa Fe National Forests and adjacent tribal lands surveyed 7/23/2007 - 8/3/2007 by William Ciesla, Forest Health Management International.

Cibola National Forest, Sandia RD surveyed 9/10/2007 by Daniel Ryerson, Forest Health, New Mexico Zone Office, Southwestern Region, US Forest Service.

State and private lands surveyed 7/2/2007 - 7/6/2007 by Stephani Sandoval, New Mexico State University Cooperative Extension Service and Daniel Ryerson, US Forest Service.

# 2007
# Insect and Disease Aerial Survey
# Santa Fe National Forest and Vicinity

1:250,000

0 5 10 15 Miles

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Map produced by
Forest Health Staff
New Mexico Zone
11/7/2007

UTM Zone 13, North American Datum 1983

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