



Ponderosa pine failure, Dimond O Campground, Stanislaus NF, Tuolumne Co.



Opposite side of failure





**Diameter at Breast Height (DBH) Outside Bark = 36 inches**

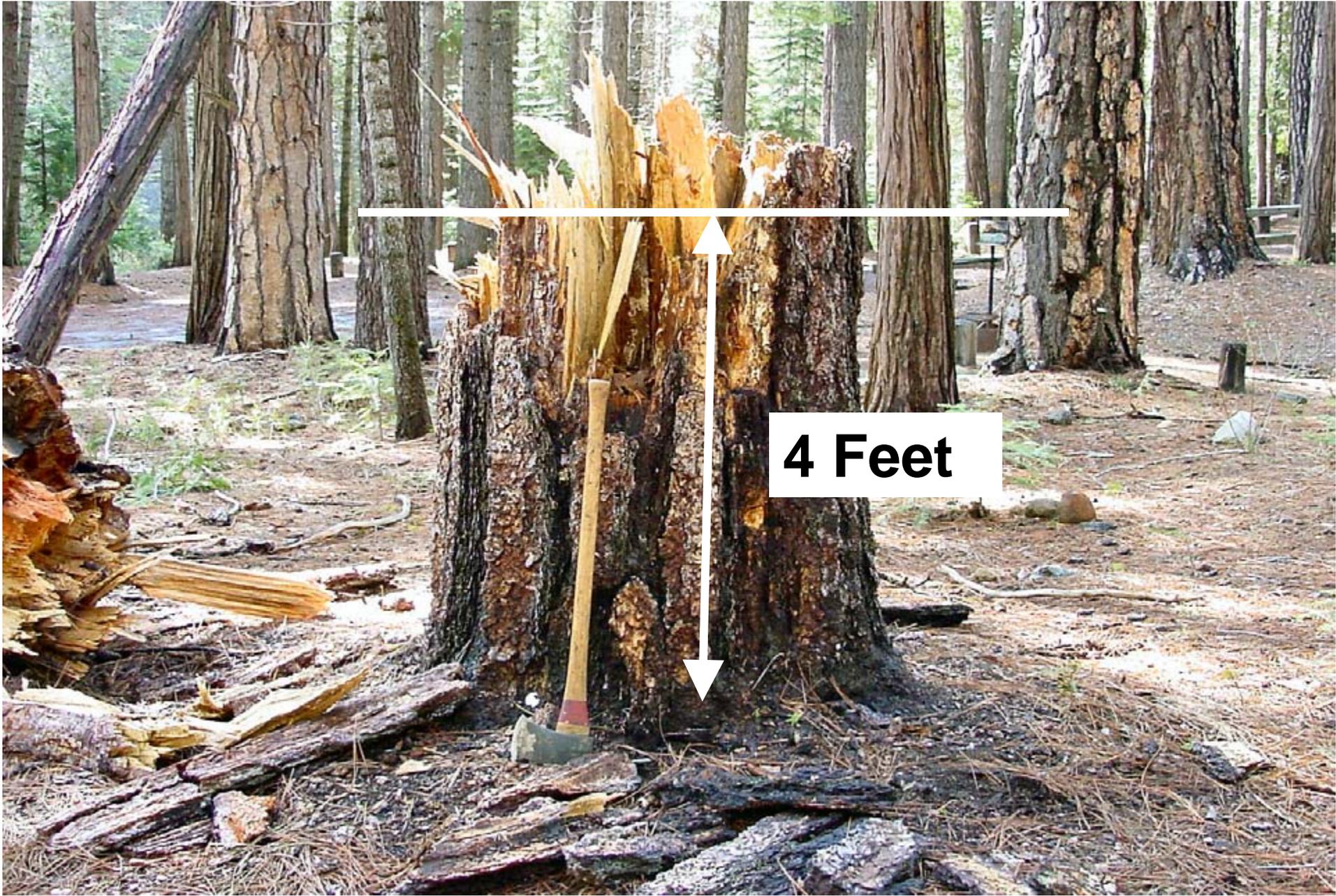


178 feet tall





**Tree age = 115 years from ring count**

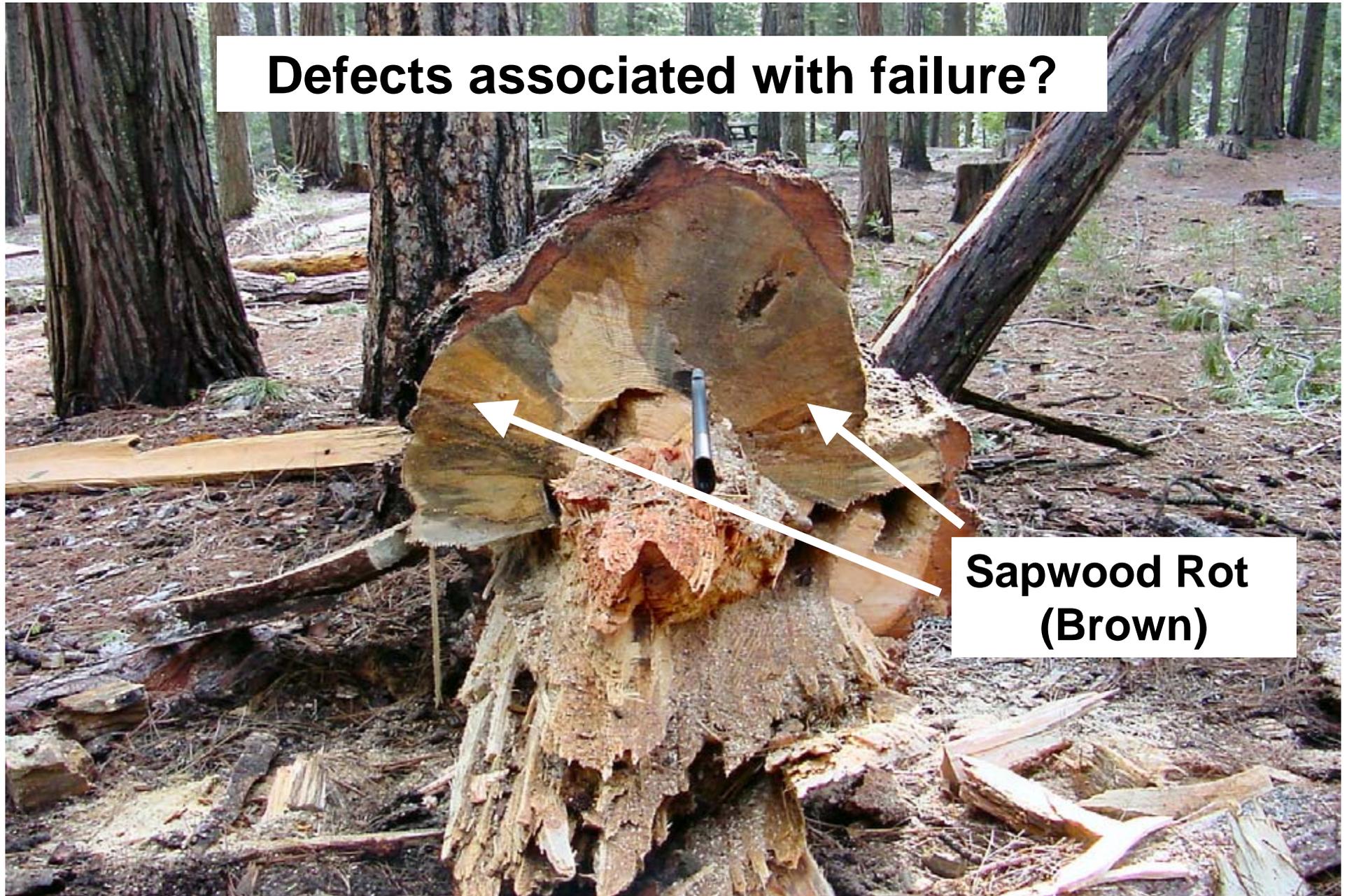


**4 Feet**



**Diameter at break (inside bark) = 32 inches**

## Defects associated with failure?



**Sapwood Rot  
(Brown)**

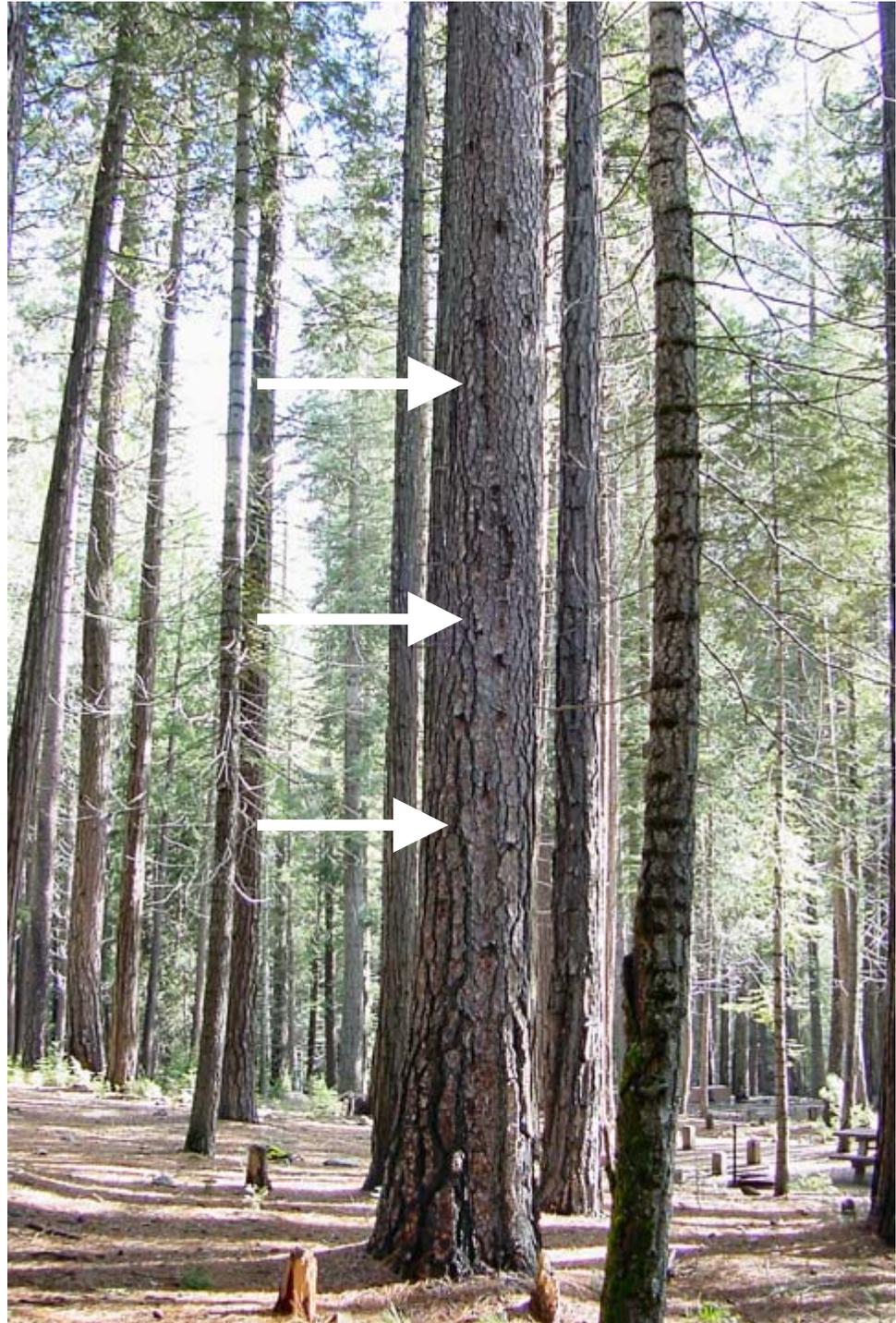
**Estimated 45% of bole circumference was occupied by sapwood decay  
Average depth of decay = 6 inches**

# Defects associated with failure

What caused the decay?



Nearby tree  
with healed  
lightning scar



## 7 ADDITIONAL INFORMATION

### Tree Condition and Pruning History

- Were the defects associated with failure visible before the tree failed?
  - **Yes**
- At the time of failure the tree was:
  - **Alive**
- Was there construction around this tree?
  - **Yes, 5 years ago when campground was built**
- PRUNING HISTORY: **No pruning**

# Habitat Information

## Tree Condition and Pruning History

- Trees recently removed in the vicinity of the failed tree?
  - **Yes (bark beetle activity)**
- History of prior failures at site:
  - **No**
- Setting:
  - **Campground**
- Aspect: **SW**                      Slope: **<5**

# Date / Time of Failure

**Season of failure:**

**Winter, 2005**

**8 WEATHER AND OTHER FORCES AT  
TIME OF FAILURE**

**Unknown**

## 9 CAUSE / RESULT OF TREE FAILURE

- Why did this failure occur?
  - **Dead cambium and sapwood decay associated with old lightning strike. Some insect boring present at failure point.**
- Result of tree failure:



Was anything damaged?





Potentially dangerous if failure occurred during open season



Any other damage to record?

## 9 CAUSE / RESULT OF TREE FAILURE

- Why did this failure occur?
  - Dead cambium and sapwood decay associated with old lightning strike. Some insect boring present at failure point.
- Result of tree failure:
  - **Loss of other trees**

## 9 CAUSE / RESULT OF TREE FAILURE

- Result of tree failure:
  - Loss of other trees
- **Property damage estimates**
  - **Unknown**
- **Additional Comments (injury, target....)**
  - **Failed tree crushed 2 other smaller trees that are either dead or will die.**