

by Dave Root, Assistant Forester Colorado State Forest Service, Woodland Park, Colorado Presentation to Black Forest Community on August 21, 2013

# Where to Start?

- Hazard Trees
- Consumed Foliage
- Scorched Foliage



# **Hazard Trees**

- Hazard trees
   have structural
   damage to the
   wood, branches,
   or roots.
- Remove Hazard Trees Now!



### Rules of Thumb for Hazard Trees:

- If it could it fall on anybody or anything, it is a hazard.
- Check for broken limbs (widow makers) as well as damaged trunks.
- If there is any doubt, take it out!



### **Safety Warning**

 Because the amount and strength of holding wood is uncertain, hazard trees are best removed by professional sawyers or arborists.

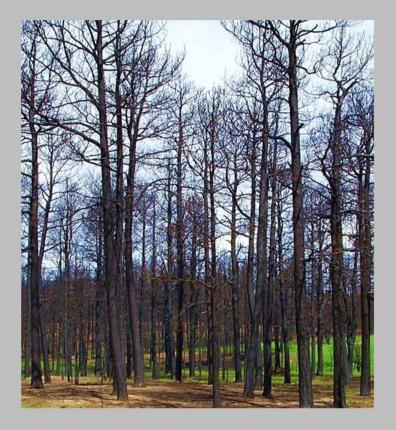


## **Consumed Needles**

All the needles were burned in the fire.

Survival is highly unlikely.

Except for hazard trees, removal should not take precedence over soil stabilization!



#### **Scorched Trees**

#### Wait and see

- Trees can recover from severe scorching
  - New growth should be apparent by June.
- Trees with more than 50% green needles greater than 9 inches in diameter have the best chance to survive.
- Mulch lightly from the stem to 1.5 times the distance of the longest branches to help damaged trees survive.
  - Mulch retains soil moisture and reduces soil temperatures to help roots recover.
- Monitor trees closely for signs of bark beetle attack for the next several years.



#### The Cambium, Underneath the Bark

- The Cambium is a single layer of living cells between the bark and the wood.
  - Thick bark on ponderosa protects the cambium from heat.
  - Peel off a small section of bark on opposite sides of the tree. If the tissue underneath is milky white it is living.
  - Dead cambium has dry, brown or gray color, or a fermented smell.
  - Be cautious about wounding already stressed trees.
- Notice in the photo how the blackened bark is only on the surface.



### Closing Words About the New Forest

- Don't "restore" Black Forest to the way it was. That's how we got into this mess in the first place.
- Where there are live survivor trees, new trees will seed in naturally.
- Replant with ponderosa pine.
- The two thirds of Black Forest that didn't burn still need hazard reduction and forest health thinning.

# The Last Word ... Be Safe





Dave Root, Assistant District Forester (719) 687-2921 daveroot@lamar.colostate.edu