

Ice Storm Recovery



Forest Recovery Bulletin #2

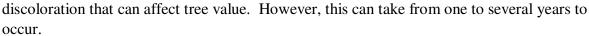
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Will My Trees Survive?

The severe ice storms heavily damaged forests and community trees across parts of Oklahoma. Tree owners face the dilemma of deciding whether a tree can be saved or whether it is damaged beyond repair. The information in this bulletin will help guide homeowners, landowners and tree consultants in assessing the impact of ice damage to hardwood trees so they can better determine their treatment options.

Some damage will not become evident until after the leaves emerge in the spring. Determining the full consequences of the ice storm will require periodic monitoring of tree health and external indicators of stress, such as the appearance of decay fungi and insect pests, over the next several years.

Safety considerations require prompt removal of hazardous trees and branches. Once those are removed, harvesting other damaged trees may actually cause more damage to the remaining trees and lead to decreased timber values in the long run. Damaged trees may eventually develop symptoms of decay and wood



Don't be rushed into making rash decisions about trees that are not presently posing any hazard. First eliminate the safety concerns, then carefully and thoughtfully assess the remaining trees before taking any further action.

The likelihood that a damaged tree will survive the ice storm is closely related to the extent of loss of the live crown (the branches that make up the top of the tree). In general, the greater the crown loss, the less likely the tree will survive. However, other factors also influence survival, such as tree age (young trees may recover and old trees may not), species (weakwooded species such as elm, maple and Bradford pear suffered the most damage) and its condition before the storm (healthy trees handle stress better than unhealthy ones).

The rules of thumb that follow will help you recognize which trees have the best chance of surviving the ice storm and the tree stresses that are likely to follow.

Ice Damage Categories and Percent of Crown Loss



Light Damage: Less than 50% of the live crown is damaged

Trees have a high chance of survival. Growth in some trees will slow due to loss of crown. Growth in lightly damaged or undamaged trees on the edges of disturbed areas may actually increase due to the reduced competition.





Moderate Damage: From 50 to 75% of the live crown is damaged

Many trees will survive with varying degrees of internal infections and growth reduction, depending on where in the crown breaks occur. Outer branch breakage will result in limited infection. Breakage of large tops and/or lower branches will result in more extensive infection. Shattered branch bases and torn bark increase the chances of infection. These trees will need periodic monitoring.





80% Damage

Heavy Damage: More than 75% of the live crown is damaged.

Trees have a low chance of survival. Surviving trees will probably become infected. Weigh wildlife habitat potential against hazardous conditions before removal. If trees are removed, replace them with species that can handle the ice.



75% Damage

Acknowledgments: Dr. Walter Shortle and Dr. Kevin Smith, USDA Forest Service, Durham, NH

Don't panic! Stop, think and be patient!

Practice safety first and foremost.

Get professional advice.



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