

## FIRST THINGS FIRST

Homeowners across the country could protect their homes – and make their property safer – by doing a good job of landscaping.

Falling trees and limbs cause hundreds of millions of dollars of damage each year, as well as personal injuries and deaths. Windstorms and ice storms are leading causes of such damage and injuries. In wildfire areas – and wildfire risks exist in nearly every state – buildings have also been destroyed by fire leaping from nearby trees and shrubs.

Tree-related damage is usually apparent. Limbs crashing through a roof or onto automobiles or power lines are hard to miss. Sometimes the damage is so severe that entire homes are destroyed. This is especially likely to happen when large trees are torn out of the ground and topple onto a house, crashing through the structure or knocking it off its foundation.

Remarkably, extensive tree damage can also occur underground, out of sight. This happened in 1992 in the Miami-Dade County area of Florida, where trees uprooted by Hurricane Andrew caused hundreds of millions of dollars of damage to underground utilities such as sewer and water lines, buried communications cables and sidewalks.

Some trees are also notorious for aggressively sending out roots that can damage the foundation of a house, buckle sidewalks or plug up septic systems, forcing homeowners to spend thousands of dollars for repairs.

The kinds of trees in a yard, their proximity to a house and the care they receive all affect safety and the potential for damage or personal injury.

Report any property damage to your insurance agent or company representative immediately and make temporary repairs to prevent further damage. For information about filing an insurance claim after a natural disaster, contact:

**YOUR INSURANCE AGENT OR  
INSURANCE COMPANY**

## Still Standing

Trim Your Risk of Tree Damage



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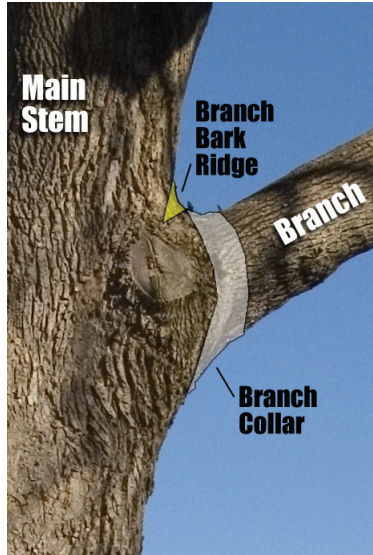
The Institute for Business & Home Safety's mission is to reduce the social and economic effects of natural disasters and other property losses by conducting research and advocating improved construction, maintenance and preparation practices.

**DisasterSafety.org**

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## POTENTIAL PROBLEMS

- Cracks in the trunk or major limbs.
- Hollow and decayed trees.
- Trees that look one-sided or lean significantly.
- Branches hanging over the house near the roof.
- Limbs in contact with power lines.
- Mushrooms growing from the bark, indicating a decayed or weakened stem.
- V-shaped forks rather than U-shaped ones.  
V-shaped are more likely to split.
- Crossing branches that rub or interfere with one other.



also helps provide proper shape and improves the health and vigor of the plant. Do not over prune, a practice called “hat racking,” as this will significantly weaken a tree.

Experts offer these pruning tips:

- Check local tree regulations prior to pruning or tree removal.
- Avoid pruning branches flush to the trunk. Doing so removes not only the limb but some of the trunk wood, opening the plant to possible decay or insect damage.
- Begin by making a cut part-way through the bottom of any limb to be trimmed, a few inches from the trunk. Then cut through the limb just above the first cut. This ensures that when the limb falls, it will not tear off a long strip of bark on the way down.
- Finish by cutting off the few inches sticking out from the trunk. Be sure to leave the “branch collar,” the swollen area of trunk tissue that forms around the base of a branch. Leaving the branch collar protects the main trunk from damage.

## WILDFIRE-AREA PLANTINGS

Thousands of homes have been burned and dozens of lives lost because of wildfires in recent years. In many instances landscape plantings contributed to the damage.

In areas of high wildfire risk, landscaping should be considered an essential part of fire prevention. Creating a “defensible space” around the house is a vital step to take. As a rule, the following steps should be taken within 30 feet of a house; 50 feet if the house is in a heavily wooded area; or 100 feet if it is on a hillside (because wildfires rapidly burn uphill) If you live in California, 100 feet is required.:

- Plant vegetation that is native to the region. (Native plants typically hold water better and stand up to fire better than non-native species.)
- Space trees at least 10 feet apart. Trees with larger canopies will require more spacing, possibly up to 20 or 30 feet. If homes in your neighborhood are close together, choose small trees
- Remove dead or dying trees and shrubs.
- Keep trees and shrubs pruned. Branches of mature trees should be at least 6 feet from the ground and shrubs under trees should be no more than 18 inches high.
- Trim branches so they do not extend over the roof or near the chimney.
- Promptly dispose of cuttings and debris.

## APPROPRIATE SPECIES

Even the best care cannot overcome poor tree selection. Some trees are more prone to storm damage than others. Also, trees that grow strong in one area might grow poorly in another. Thousands of homes have been damaged because nearby trees were wrong for the soil or region where they were planted. A shallow-rooted tree growing in soft soil, for instance, can easily topple onto a house in a strong wind. The roots will pull right out of the ground.

City foresters, county extension offices, local nurseries and landscape firms can provide advice on tree selection for your area and soil conditions.

By selecting appropriate trees, planting them in the proper location and giving them the care they need, homeowners can go a long way toward not only beautifying but also protecting their property.



EDENTON, NC, SEPTEMBER 21, 2003 -- WORKERS SAW A TREE FALLEN BY HURRICANE ISABEL IN THE HISTORIC DISTRICT.. PHOTO BY MARK WOLFE/FEMA NEWS PHOTO

## AFTER A STORM

The type of care you give after a storm should depend on a tree’s age, the extent and type of damage. To care for storm damaged trees:

- Plan ahead before deciding what to do with fallen trees. In general, it is best to reset only smaller trees, since large trees will be weakened and may fall again.
- Decide what to do with tree stumps. If you are going to leave them, cut them off flush with the ground. If you plan to remove them, leave four feet of stump standing. Removal will be cheaper and easier if stumps can be pulled out instead of dug out.
- Cut off broken or torn limbs to avoid unnecessary bark stripping.
- When straightened, uprooted trees will require bracing for a long time. Before you reset a tree, cut, smooth and paint all jagged and irregular root breaks. Water the tree well and fertilize. Do not remove guy wires or braces for two years.
- After repairing trees, continue to care for them. Check soil moisture regularly.
- Prune a damaged tree just enough to balance the loss of roots. Cut out broken, diseased and malformed branches to give the tree a desirable shape.

## PROPER PRUNING

Good pruning can prevent many problems. Prompt removal of diseased, damaged or dead plant parts helps limit the spread of harmful insects and disease, as well as reduce the possibility of future storm damage. Pruning can also have other benefits. For instance, pruning a dense canopy reduces its mass while permitting better air circulation and sunlight penetration. Pruning