

## Trees for Hurricane Country: What Works and What Doesn't Work So Well

From Duryea, Kampf and Littell, *Arboriculture & Urban Forestry* 2007.  
33(2):83-97.

### **Highest Wind Resistance\***

*Cornus florida* flowering dogwood  
*Ilex cassine* dahoon holly  
*Ilex opaca* American holly  
*Lagerstroemia indica* crapemyrtle  
*Magnolia grandiflora* southern magnolia  
*Quercus virginiana* live oak  
*Taxodium distichum* baldcypress  
*Taxodium ascendens* pondcypress  
*Sabal palmetto* cabbage palmetto

\*The present note provides partial listings of tables given in the original article, based on tree species most likely to be found in the Craven County area.

### **Medium-High Wind Resistance**

*Acer palmatum* Japanese maple  
*Betula nigra* river birch  
*Carya glabra* pignut hickory  
*Carya tomentosa* mockernut hickory  
*Chionanthus virginicus* white fringetree  
*Diospyros virginiana* persimmon  
*Liquidambar styraciflua* sweetgum  
*Magnolia virginiana* sweetbay magnolia  
*Magnolia x soulangiana* saucer magnolia  
*Nyssa aquatica* water tupelo  
*Nyssa sylvatica* black tupelo  
*Quercus michauxii* swamp chestnut oak  
*Quercus shumardii* Shumard oak

### **Medium-Low Wind Resistance**

*Acer rubrum* red maple  
*Celtis laevigata* sugarberry  
*Morus rubra* red mulberry  
*Myrica cerifera* waxmyrtle  
*Persea borbonia* redbay  
*Platanus occidentalis* sycamore  
*Quercus phellos* willow oak  
*Ulmus americana* American elm  
*Pinus palustris* longleaf pine  
*Pinus taeda* loblolly pine

## Lowest Wind Resistance

*Carya illinoensis* pecan  
*Liriodendron tulipifera* tulip poplar  
*Pyrus calleryana* 'Bradford' Bradford pear  
*Quercus laurifolia* laurel oak  
*Quercus nigra* water oak  
*Sapium sebiferum* Chinese tallow tree  
*Ulmus parvifolia* Chinese elm  
X *Cupressocyparis leylandii* Leyland cypress

## Supplemental List

From "How to Evaluate and Manage Storm-Damaged Forest Areas", USDA  
Forest Service Southern Region, Management Bulletin R8-MB 63

Resistance of tree species to hurricane-related damage (in descending order of  
resistance)

### Breakage

live oak  
palm  
baldcypress  
pondcypress  
sweetgum  
tupelo-gum  
mimosa  
dogwood  
magnolia  
sweetbay  
southern red oak  
water oak  
sycamore  
longleaf pine  
slash pine  
loblolly pine  
redcedar  
hickory  
red maple  
pecan

### Uprooting

live oak  
palm  
baldcypress  
pondcypress  
tupelo-gum  
redcedar  
sweetgum  
sycamore  
longleaf pine  
mimosa  
southern red oak  
magnolia  
slash pine  
loblolly pine  
sweetbay  
water oak  
red maple  
dogwood  
hickory  
pecan

Note: While the top  
species (live oak etc.) and  
bottom (pecan etc.) tend to  
align between our two references,  
there are points of disagreement  
reflecting differences in data  
collection, experiences of  
surveyed individuals and other  
factors. These lists should be  
used as guides only, with caution.

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