

Specimen Tree Mitigation Requirements for Carolina Communities

Town or City	Specimen Tree Mitigation	Specific Requirements
Belmont	Caliper for Caliper	Heritage trees removed shall be replaced with tree(s) to equal the DBH of tree removed.
Cary	Caliper for Caliper	An equal amount of new vegetation ("inch for inch") shall be used to quantify the replacement of trees.
Chapel Hill	Preservation	No rare tree shall be removed. Financial penalty=1.5 times the monetary value of the tree removed (tree value = current formula of the council of tree and landscape appraisers).
Charlotte	Based on Caliper (DBH)	Replacement for trees removed in violation: DBH Removed: 8-14" = 1 Tree Reforested DBH Removed: 15-24" = 2 Trees Reforested DBH Removed: 25-34" = 3 Trees Reforested DBH Removed: 35+" = Case by Case
Cornelius	Caliper for Caliper	Replacement trees shall have a cumulative caliper equal to or greater than the original tree removed.
Davidson	Caliper for Caliper	Replacement trees shall have a cumulative caliper equal to or greater than the original tree removed.
Durham	No Specimen Tree Save	Preserved specimen trees earn more tree canopy credit.
Greensboro	Based on Caliper (DBH)	Replacement for trees removed in violation : DBH Removed: 4-11.9" = 4 caliper inches Reforested DBH Removed: 12-20.9" = 8 caliper inches Reforested DBH Removed: 21-28.9" = 12 caliper inches Reforested DBH Removed: 29-35.9" = 16 caliper inches Reforested DBH Removed: 36+ inches = 20 caliper inches Reforested (Replacements trees to be min. 2" caliper)
Jamestown	Based on Caliper (DBH)	Replacement for trees removed in violation : DBH Removed: 4-11.9" = 1 Tree Reforested DBH Removed: 12-20.9" = 2 Trees Reforested DBH Removed: 21-28.9" = 3 Trees Reforested DBH Removed: 29-35.9" = 4 Trees Reforested DBH Removed: 36+ inches = 5 Trees Reforested
Matthews	Caliper for Caliper	Replacement trees shall be either a single tree of equal caliper to the lost tree or multiple new trees each with a minimum of two inch caliper.
Mooresville	Mitigation	Healthy specimen trees removed shall be replaced with three replacement trees, measuring at least 2.5 inches in diameter.
Myrtle Beach	Cross Sectional Area (Basal Area)	Replacement trees will be at least 4" caliper trees whose total basal area equals the basal area of the tree removed.
Oak Ridge	Caliper for Caliper	Replacement trees shall be of a similar species with at least a 2.5 caliper and cumulative total caliper at least greater than the original tree.
Raleigh	Caliper for Caliper	Unlawfully disturbed trees shall be replaced with trees of equal caliper as measured 4.5 feet above ground.
Wake Forest	Based on Caliper (DBH)	Requirement for replacement of specimen tree: one 3" caliper tree per 8" of DBH, or any remainder thereof.
Wilmington	Mitigation Calculation, Includes Caliper	Number of replacement trees shall be determined by multiplying the total DBH of the removed significant trees by two (2) times the percentage for the type of tree in Table IV and dividing by three (3).

Specimen Tree Mitigation Requirements for Outside Carolinas

Town or City	Specimen Tree Mitigation	Specific Requirements
Acworth, GA	Based on Caliper (DBH)	Must be replaced by species with comparable size and quality based on the unit value of the tree.
Bloomfield, MN	Caliper for Caliper	Replacements must equal 100% of the total DBH removed.
DeKalb County, GA	Based on Caliper (DBH)	Shall be replaced by one and five-tenths (1.5) times the required density of replacement trees (replacement density based on calipers removed).
Grapevine, TX	Caliper for Caliper	A sufficient number of trees shall be planted to equal, in caliper, the diameter of the tree removed.
Lake Forest, IL	Caliper for Caliper	Replacements shall in no case be less than an inch for inch replacement of tree removed.
Los Angeles, CA	Caliper for Caliper	The size and number of replacement trees shall approximate the value of the tree to be replaced.
Minnetonka, MN	Caliper for Caliper	Tree must be replaced at a rate of one inch for each inch in diameter removed.
Orinda, CA	Based on Caliper (DBH)	Replace with 2 15-gallon trees of same genus and species for each 6" of diameter removed.
San Marcos, TX	Caliper for Caliper	A tree that is removed shall be replaced caliper-for-caliper (a ratio of one-to-one).
Southlake, TX	Caliper for Caliper	Sufficient no. of trees to be planted to equal or exceed, measured in DBH, the diameter removed tree.
Veneta, OR	Based on Caliper (DBH)	Replacement trees = 1 + (A - Q) Where: A = Actual dbh of the tree in question. Q = Minimum dbh for this species to qualify as a heritage tree.
Waukegan, IL	Caliper for Caliper	Tree(s) shall equal, in total DBH inches, the DBH of the tree(s) removed.
Winterpark, FL	Based on Caliper (DBH)	Replacement of trees shall be based on a two-to-one (2:1) ratio of the cumulative DBH of the protected tree(s) removed.

Tree Agencies Contacted

- **International Society of Arborists** – Recommends appraisal of trees based on Cross Sectional Area
 - Not familiar with any towns or governments that have used it in land development requirements.
- **NC Urban Forestry Council** – No standard appraisal method – Familiar with the cross sectional area calculation provided by the Council of Tree and Landscape Appraisers (CTLA).
- **NC Forest Service** – No standard appraisal method – Familiar with the CTLA calculation but cautions use thereof.
 - Used in Green Bay, WI for street tree mitigation however not for land development mitigation.
 - Not familiar with any towns or governments that use the CTLA method in their ordinances.
- **NC Cooperative Extension Service** – No standard appraisal method – Familiar with the CTLA method.
 - Forwarded information from the Purdue University Cooperative Extension Service published by the CTLA.

