

Leesburg Tree Replacement Formula

A. Application to Replacement Guideline

Trees are replaced at the following rates, based on their overall scores:

Category:	Rating:		# Trees Required:
1*	1-4.9	=	1 tree
2	5 – 9.9	=	2 trees
3	10 – 14.9	=	3 trees
4	15 – 19.9	=	4 trees
5	20 – 24.5	=	5 trees
6	25+	=	6 trees

* - Trees with a 10" DBH and smaller are automatically replaced at a rate of one for one, according to the guideline.

B: Procedure

Scoring is determined by the multiplication of Diameter X Species X Condition. Shown below are three applications of the formula.

1. A 10" American Holly is automatically replaced with one tree, according to Category 1 of the above guideline.
2. A 40" Silver Maple (species rating of 40), rated at 60% condition is scored as $40 \times .4 \times .6$ for a total score of 9.6.
3. A 36" White Oak (species rating of 80), rated at 70% condition is scored as $36 \times .8 \times .7$ for a total score of 20.16.

In the examples above, the American Holly is replaced with one tree, the Silver Maple with two trees, and the White Oak with five trees.

The formula should only be used by qualified individuals, i.e. professional or certified arborists, with the knowledge of tree condition determinations and species factors. Species and Condition rating will follow the most current editions of the *Guide for Plant Appraisal* written by the Council of Tree and Landscape Appraisers, along with the Mid-Atlantic Species Rating Guide.