

Replacing Aging Trees

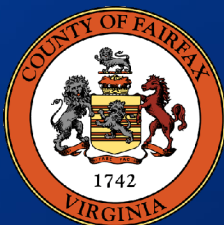
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Department of Public Works and Environmental Services
Working for You!



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Replacing Aging Trees

Overview



- I. Composition of our current urban forest
- II. Retaining large trees
- III. Replacing aging trees

I. Composition of Our Current Urban Forest

Remnant forests primarily even aged stand post farming fields reverted back to forest



Source: <http://web1.cnre.vt.edu/forestcourses/Module5/forestworks/module5sect2.htm>

I. Composition of Our Current Urban Forest

Urbanization of County leaving forest fragments



Source: <http://www.eagleview.com>

I. Composition of Our Current Urban Forest

Landscaping installed with urbanization



Source: <https://www.asla.org/>

I. Composition of Our Current Urban Forest

Many stresses placed upon our urban forest



Source: <http://msue.anr.msu.edu/>, <http://greatlakesecho.org/>, <https://www.nps.gov/>, <https://en.wikipedia.org/>

II. Retaining Large Trees

Benefits



Source: <http://www.resilience.org/>
Photo by Daniel Jeffries

II. Retaining Large Trees

Hire professional in field of arboriculture



III. Replacing Aging Trees

Hire license and bonded professional when removal becomes necessary

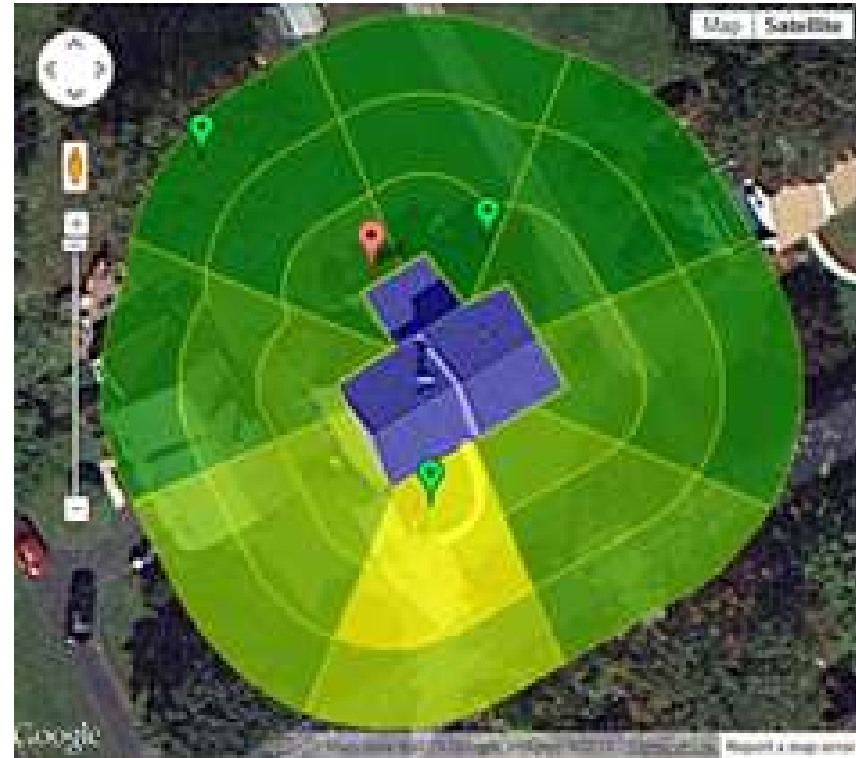


Source: <https://www.nps.gov/>

III. Replacing Aging Trees

i-tree design

- Current dollar values for environmental benefits
- Forecasting dollar values for stormwater runoff
- Air quality improvements
- Carbon dioxide reduction savings
- Summer and winter energy savings



<http://design.itreetools.org/>

Source: <http://design.itreetools.org/>

III. Replacing Aging Trees

Conflicting uses

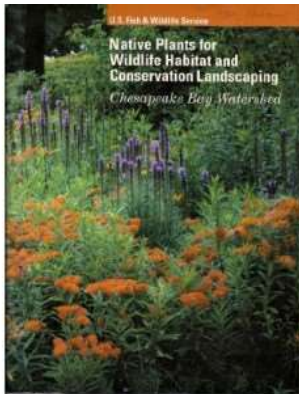


<http://va811.com/>
Dial 811 in Virginia or
1-800-552-7001

Source: Adrian Higgins/THE WASHINGTON POST, <http://va811.com/>

III. Replacing Aging Trees

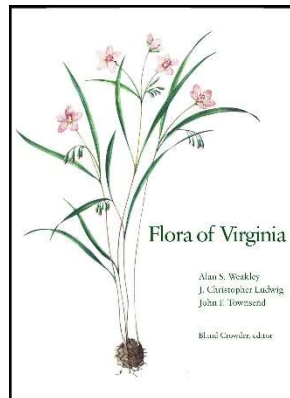
Species selection – emphasis on diversity



Public Facilities Manual



Fairfax County, Virginia
2011



Flora of Virginia

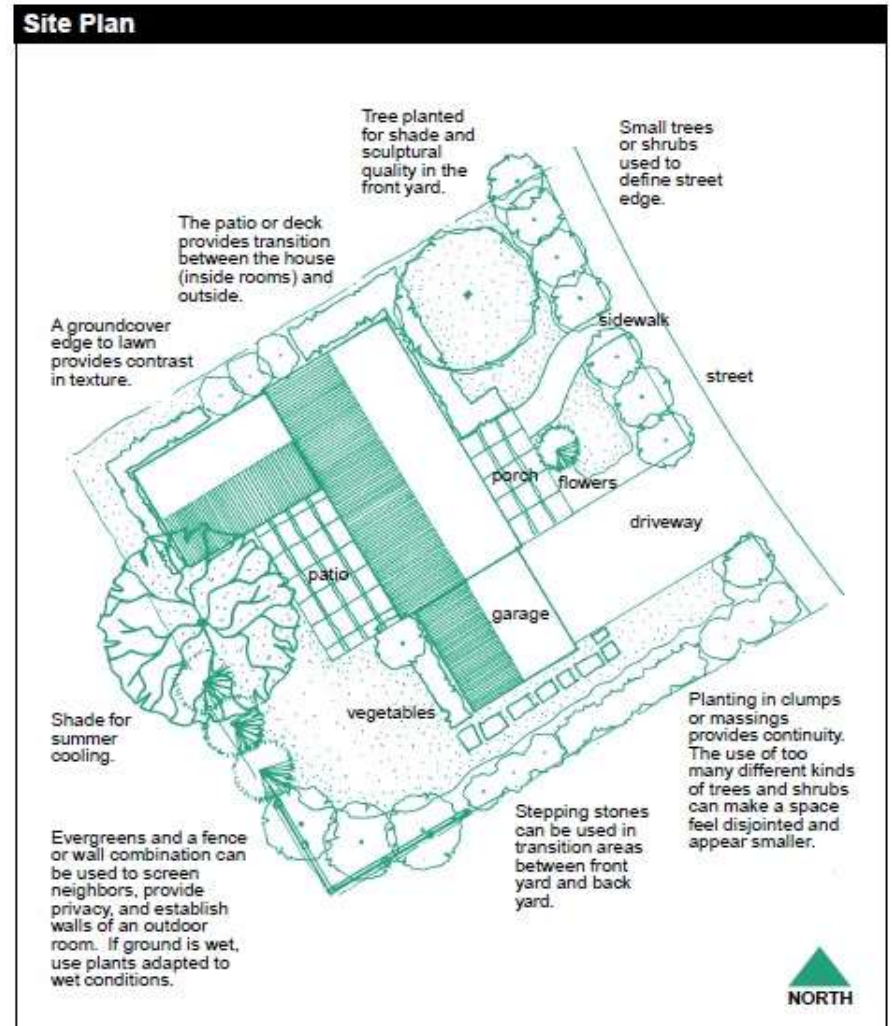
Alan S. Weakley
J. Christopher Lubrig
John E. Townsend

Blair Gooden, ed.

<https://www.nps.gov/plants/pubs/chesapeake/pdf/chesapeake natives.pdf>

<http://www.fairfaxcounty.gov/dpwes/publications/pfm/>

<http://floraofvirginia.org/>



Source: <http://www.fairfaxcounty.gov/nvswcd/youyourland/landscape.htm>

Additional Information

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www.fairfaxcounty.gov/dpwes