

Neighborhood Forest Management

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Urban Forest Conservationist



Ecosystem Services

- Cool area through transpiration
- Reduce carbon emissions
- Store carbon
- Manage storm water
- Protect streams and ground water
- Clean the air
- Provide habitat

Some Urban Tree Benefits

- Health
 - Fitness
 - Asthma
 - Psychological
 - Healing
- Stress Reduction
 - Reduced domestic conflict
 - Less school aggression
- Improved attention
 - Direct Attention Fatigue
 - Reduced HDAD
- Aesthetic
- Economic
 - Shopping
 - Energy reduction
 - Property values
 - New business
 - Absenteeism
 - Job satisfaction
- Crime reduction
- Traffic
 - Clear zone
 - Calming
 - Asphalt

Human Dimensions of Urban Forestry and Urban Greening

featuring research on peoples'
perceptions and behaviors
regarding nature in cities

What's New?

Nature and Consumer Environments

Research about how the urban forest
influences business district visitors.

Trees and Transportation

Studies on the value of having quality
landscapes in urban roadsides.

<http://www.naturewithin.info/>

Green Cities: Good Health

human health & well-being research

Policy and Planning

Integrating urban greening science
with community change.

Urban Forestry and Human Benefits

More resources, studies and links . . .

Projects Director

Kathleen L. Wolf, Ph.D.

Sponsors





University of Illinois at Urbana-Champaign

Landscape and Human Health Laboratory

Frances E. Kuo, Director

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<http://lhhl.illinois.edu/>



Recent findings:

[Green activity settings reduce ADHD symptoms](#)

[Views of trees from home can improve girls' self-discipline](#)

[Trees near home boost concentration and the ability to cope](#)

[The right residential landscaping can discourage](#)

The Landscape and Human Health Laboratory (LHHL) is a multidisciplinary research laboratory dedicated to studying the connection between greenery and human health.

The LHHL uses its findings to promote policies to:

- Increase the use of and care for green landscaping to help individuals, families, and communities flourish
- Suggest locations for green landscaping where the environment is most challenging and relief is most needed
- Aid in the design of green landscapes so that they are as effective in promoting human health as possible

We examine the impacts of natural features—trees, grass, flowers, and green spaces—on:

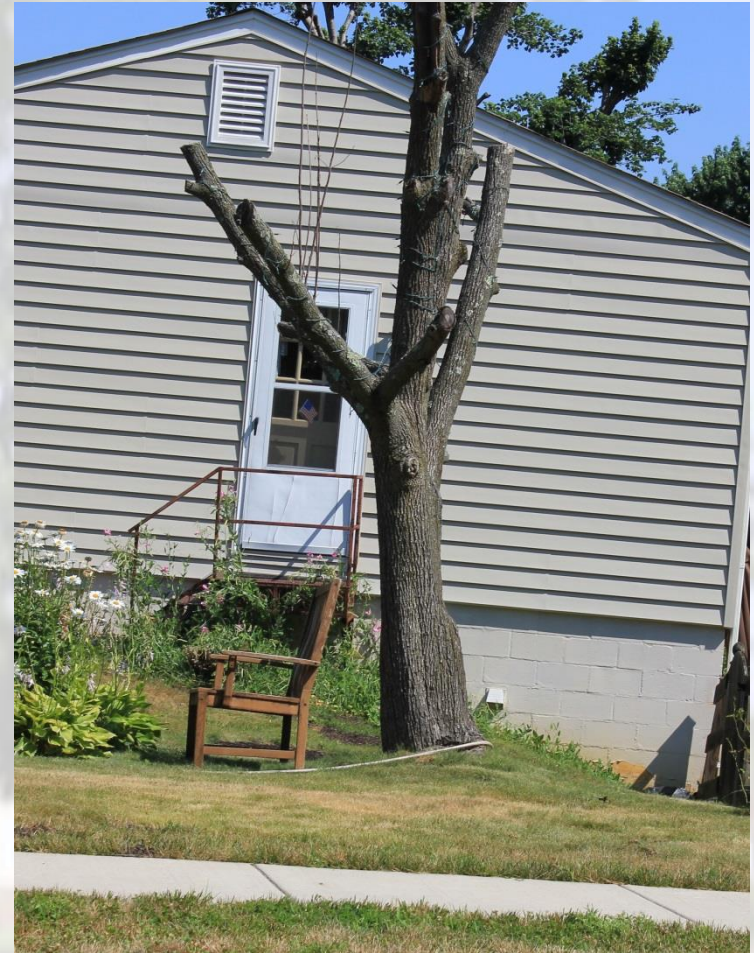
- Safety, crime, violence, and aggression
- Strength of community

As the Twig is Bent...Alexander Pope

- Early action is critical
 - Proper selection
 - Proper planting
 - Proper establishment
 - Proper structural pruning
- Early action is cheaper
- Consult with a certified arborist
 - Ask for credentials

Mature Trees

- Use only a certified arborist to prune mature trees
 - Topping, lion tailing and other bad pruning can turn a safe tree into an unsafe tree
- Arborist can correct old problems with cabling and bolting
- Lightning protection

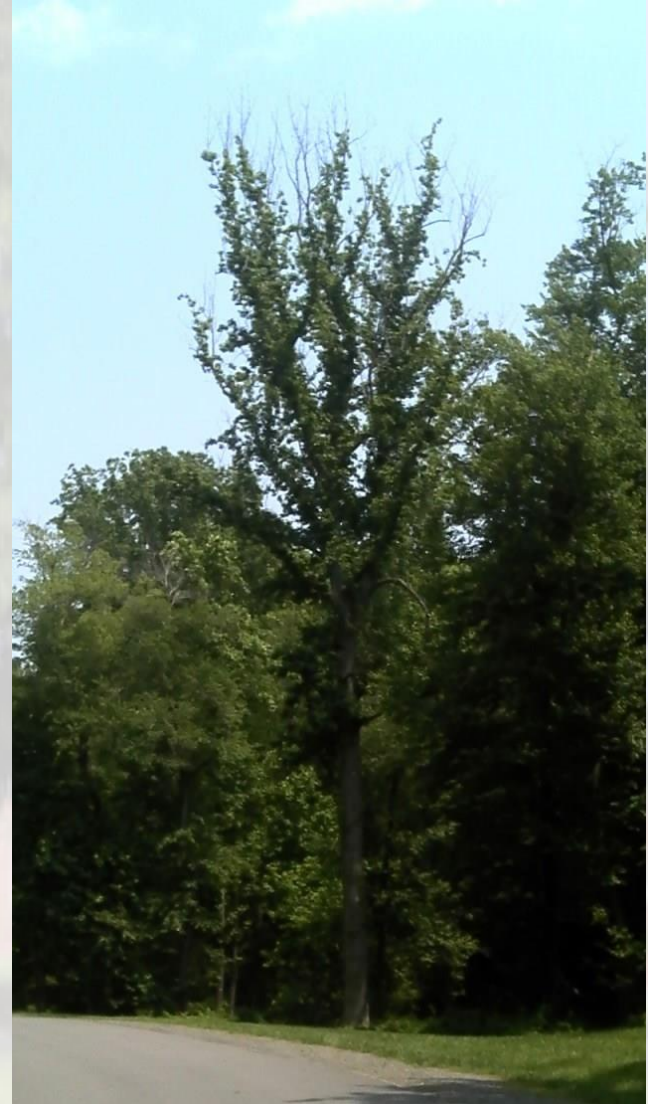




Budget Consideration

- Tree life is related to maximum crown and genetics
- Trees growing to large size with large crowns generally live 100+ years
 - Notable exception – Silver maple (50-75)
- Small trees with small crowns 30 to 50 years
- Large species with restricted rooting space will be small trees
- Budget for replacements

My Tree is in Trouble if:



Or



OR



Or



Wood Lots

- Ideally:
 - Remove invasive plants
 - Reduce deer herd
 - Practice good forest management
- Realistically
 - Keep non-native vines out of trees



Neighborhood Forest Management Plans

- Comprehensive 10 year plan
 - Based on neighborhood objectives
 - Current conditions
 - Management recommendations

