



# Community Canopy

Michigan's Urban and Community Forestry Newsletter

Spring/Summer 2014

*The Michigan Urban and Community Forestry Council (MUCFC) promotes, recognizes, and supports effective and sustainable urban and community forestry throughout the state.*

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## EDUCATOR SPOTLIGHT



### **Kathy Yeloushan - Renaissance High School – Oakland County**



Congrats to Kathleen Yeloushan, Michigan's Project Learning Tree Educator of the Year. Kathleen is a retired principal from Ohio who currently works as an education consultant with Renaissance High School in Clarkston, Michigan. Renaissance is an alternative high school with students from all over Oakland County as well as a Post High, serving students with severe disabilities who are also housed there.

Kathleen has worked in conjunction with a local garden club to fund multiple educator workshops in her area covering all grade levels. She also took a lead role in GreenSchools! programming at her school by working with students to institute recycling and composting programs, replace plastic trays with compostable trays, install a school garden, and collect rain water to use in their hydroponics garden where vegetables grown are used in school lunches. She is currently working with students to install solar panels and an electronic charging station as well as a bio-swale to reduce storm runoff on school grounds. The Michigan DNR will honor Ms. Yeloushan at an International Project Learning Tree Coordinators' Conference in Traverse City, MI in May 2014.

# TREE HEALTH

## **Recovering landscapes from Old Man Winter:** *The crushing weight of snow and ice on landscape trees and shrubs leaves lasting damage.*



As snow piles recede, they reveal the impacts the harsh winter has had on home landscapes. Extreme cold coupled with dry, sunny conditions can leave buds and leaves desiccated and brown, but what about plants that are now bowing over, stems sometimes split and broken? Will they recover?

Read more at:

[http://msue.anr.msu.edu/news/shrubs\\_breaking\\_down\\_recovering\\_the\\_landscape\\_from\\_old\\_man\\_winter](http://msue.anr.msu.edu/news/shrubs_breaking_down_recovering_the_landscape_from_old_man_winter)

## **Forest Health Monitoring Program & Forest Health Protection**

The U.S. Forest Service announced the release of the 2012 National Insect and Disease Risk Map (NIDRM). The NIDRM is a nationwide strategic assessment and database of the potential hazard for tree mortality due to major forest insects and diseases. The goal of the NIDRM is to summarize landscape-level patterns of potential insect and disease activity.

Complete information about the NIDRM is available at the [National Insect & Disease Risk Maps homepage](#). The online mapping tool is available at the [2012 National Insect and Disease Risk Map Viewer](#).

## **INVASIVES – Japanese Honeysuckle**



**Habit:** Perennial, semi-evergreen to evergreen vine that trails or climbs. Zones 4-9.

**Reproduction:** Vegetatively; stem cuttings; by seed; may be pollinator limited;

**Leaves:** Opposite, entire, oblong, 4-8 cm (1.-3 $\frac{1}{8}$  in); base round/triangular; may have lobes or teeth; lower surface often lighter green than upper; surfaces may have a few hairs.

**Stems:** Young stems pubescent, reddish/light-brown;

**Flowers:** May-June; white-cream-pink, yellows with age;

**Fruits/Seeds:** September-October; black, glossy fruit 0.6 cm with 4-10 brown-black seeds; dispersed by deer, rabbits, bobwhites, turkeys, and other birds.

**Habitat:** Woods, fields, disturbed areas, roadsides, bottomlands, and fence rows; tolerates shade but most growth in full sun; rarely flowers in low light; not as shade tolerant as some native vines; sensitive to dry conditions;

**Comments:** Native to E. Asia; introduced into the U.S. in mid 1800s

**Problem:** Outcompetes native plants.



## DATES TO REMEMBER

### April

**April 16, 2014: Boyne City** - Electrical Hazards Awareness Program (EHAP) Training offered by Arboriculture Society of Michigan (ASM)

Find out more: <http://www.asm-isa.org/ehap.html>

**April 18, 2014 Deadline** - EPA Announces FY14 Brownfields Training, Research, and Technical Assistance Grant Application

Find out more: <http://www.epa.gov/brownfields/applicat.htm>

**April 21, 2014 Deadline: 2015 Transportation Alternatives Program (TAP) for Southeastern Michigan**

Find out more: <http://www.semco.org/TAPCall.aspx>

**April 26, 2014: Hickory Corners, MI** - 2014 Michigan Tree Climbing Championship (MTCC)

Find out more: <http://www.asm-isa.org/MTCC.html>

**April 28, 2014 Deadline: 2014 USDOT TIGER Grants** *\*Significant opportunity for green infrastructure*

Find out more: <http://www.dot.gov/tiger>

### May

**May 6, 2014: US EPA 2014 Green Infrastructure Webinar Series**

Find out more: [http://water.epa.gov/infrastructure/greeninfrastructure/gi\\_training.cfm](http://water.epa.gov/infrastructure/greeninfrastructure/gi_training.cfm)

**May 8-9, 2014: Lansing MI** – Michigan Green Infrastructure Conference

Find out more: [http://www.michigan.gov/deq/0,4561,7-135-3308\\_3333-312197--,00.html](http://www.michigan.gov/deq/0,4561,7-135-3308_3333-312197--,00.html)

**May 15, 2014 Deadline:** 2015 National Urban and Community Forestry Advisory Council (NUCFAC) Challenge Cost Share grant program

Find out more: <http://www.fs.fed.us/ucf/nucfac.shtml>

### When you have free time:

**ARCHIVED: Wood Recycling - How Far We've Come and What's Happening Next**

Find out more: <http://sfec.cfans.umn.edu/> \*View past SFEC webinars on left side of page and then select Oct. 15<sup>th</sup> "Wood Recycling..." webinar

**ARCHIVED: Tree Plotter© web-based tree inventory & management app**

Find out more: <http://www.anymeeting.com/planitgeopro/EF51D680884A>

\*\*Local Note and Reference: The City of Adrian, MI recently purchased the Tree Plotter software and custom-built Service Request/Work Order module. Contact: [Jcombs@ci.adrian.mi.us](mailto:Jcombs@ci.adrian.mi.us)

## MAGAZINES

**The Michigan Landscape (Michigan Nursery and Landscape Assoc):**  
<http://digital.turn-page.com/i/206412>

**Arbor Age:**

<http://read.dmtmag.com/i/186279>

**Tree Services Magazine:**

<http://www.treeservices-digital.com/#&pageSet=0>

**Tree Care Industry Association (TCIA) Magazine:**

[http://tcia.org/digital\\_magazine/tci-magazine/2013/11/index.htm](http://tcia.org/digital_magazine/tci-magazine/2013/11/index.htm)

**City Trees Magazine (Society of Municipal Arborists):**

<http://read.dmtmag.com/i/171276> (see archive folder tab for previous issues)



## MICHIGAN COMMUNITY NEWS

**Two Michigan nonprofit organizations were among the top awards in the ACT Trees National Neighborwoods Month Photo Contest**

Check out the winning photos at: <http://actrees.org/news/media-center/actrees-news/2013-national-neighborwoods-month-photo-contest-winners-announced/>

**MSU Extension offers tips on selecting smart trees and shrubs for natural shoreline plantings**

If you have property on a waterfront, native trees and shrubs help protect shorelines and provide beauty. MSU Extension has some advice on selection and placement of the right plants. Find out more at:

[http://msue.anr.msu.edu/news/smart\\_trees\\_and\\_shrubs\\_for\\_natural\\_shoreline\\_plantings](http://msue.anr.msu.edu/news/smart_trees_and_shrubs_for_natural_shoreline_plantings)



### EMPLOYMENT OPPORTUNITIES:

**General Urban Forestry Job Search Results for MI:**

Query for jobs based on your area of interest and location

[www.simplyhired.com](http://www.simplyhired.com) and [www.indeed.com](http://www.indeed.com)

## GRANTS, SCHOLARSHIPS & FUNDING

**Healing Our Waters Grants Available**

Details: <http://www.freshwaterfuture.org/grant-programs/healing-our-waters-grant-program.html>

Deadline: **None (First come, first served)**

**Misc. Other Grants**

<http://reconnectingamerica.org/resource-center/federal-grant-opportunities>

[http://www.fs.usda.gov/detailfull/mbs/workingtogether/?cid=fsbdev7\\_001659&width=full](http://www.fs.usda.gov/detailfull/mbs/workingtogether/?cid=fsbdev7_001659&width=full)

# TREE SPOTLIGHT

## Hackberry – *Celtis occidentalis L.*



**Common Name:** Common Hackberry

**Scientific Name:** *Celtis occidentalis L.*

**Hardiness Zones:**

**Origin:** Native to North America

**Height:** 45 to 80 feet

**Spread:** 40 to 50 feet

**Crown shape:** Irregular

**Growth rate:** Fast

**Soil Requirements:** Adapted to fine, medium and coarse textured soils.

**Uses:** Bonsai; wide tree lawns (>6 feet wide); recommended for buffer strips around parking lots or for median strip plantings in the highway; reclamation plant; shade tree; residential street tree; tree has been successfully grown in urban areas where air pollution, poor drainage, compacted soil, and/or drought are common.

## Tree City USA



Each year the Arbor Day Foundation's Tree City USA program recognizes communities that are committed to managing and caring for public trees in their urban and community forest. These communities have demonstrated their commitment by meeting the following four Tree City USA criteria:

- (1) **Maintain a Tree Board or Department.** The community has someone within the organization that is responsible for the care and management of public trees. This can be a professional forester, arborist, forestry department and/or a volunteer tree board.
- (2) **A Tree Care Ordinance is part of the Community's Codes.** A tree ordinance is in place that includes who is responsible for the management of the community's urban and community forest.
- (3) **Community Forest Program with an annual budget of at least \$2 per capita.** The community has provided details about their urban forest management program including documentation that they spent at least \$2 per capita during the year for its program. Activities that can be used towards meeting the per capita requirements include: tree planting and care; volunteer time; public education; professional training; memberships; tree inventory; pest management; fertilization; tree pruning; tree removal; leaf pick up; contract work; and administrative expenses and salaries.
- (4) **Annual Arbor Day Observance and Proclamation.** The community celebrated Arbor Day and a proclamation was issued naming a day as "Arbor Day. Observing Arbor Day can be as simple as a tree planting or as elaborate as a community-wide celebration.

For more information on the Tree City USA program visit [www.arborday.org/programs/treeCityUSA](http://www.arborday.org/programs/treeCityUSA) or contact Kevin Sayers at 517.284.5898.

## TOOLS YOU CAN USE



### i-Tree Canopy v6.0

Estimate tree cover and tree benefits for a given area with a random sampling process that lets you easily classify ground cover types. For more information, visit [www.itreetools.org/canopy/](http://www.itreetools.org/canopy/)

Department of Environmental Quality student interns have been working with the DNR's Urban and Community Forestry program staff to complete i-Tree Canopy data. So far, 77 communities have been completed. If you are interested in getting an estimate of your community's tree cover and tree benefits, contact Kevin Sayers [sayersk@mi.gov](mailto:sayersk@mi.gov) or 517.284.5898. Here's what the Village of Caledonia, MI found out:

Here's what the Village of Caledonia, Michigan found out:

| Cover Class     | Description                        | Abbr. | Points | % Cover    |
|-----------------|------------------------------------|-------|--------|------------|
| Tree            | Tree, non-shrub                    | T     | 114    | 29.6 ±2.33 |
| Impervious      | Roads, Driveways, parking lot etc. | IMP   | 89     | 23.1 ±2.15 |
| Water           | Water                              | W     | 19     | 4.94 ±1.10 |
| Bare Ground     | Dirt                               | BG    | 12     | 3.12 ±0.89 |
| Grass and Shrub | Grass, shrub other veg.            | GS    | 151    | 39.2 ±2.49 |

### Tree Benefit Estimates

| Abbr.   | Benefit Description   | Value        | ±SE        | Amount      | ±SE       |
|---------|---|--------------|------------|-------------|-----------|
| CO      | Carbon Monoxide removed annually  | \$38.78      | ±3.05      | 222.07 lb   | ±17.45    |
| NO2     | Nitrogen Dioxide removed annually   | \$55.47      | ±4.36      | 1,394.41 lb | ±109.57   |
| O3      | Ozone removed annually  | \$2,295.31   | ±180.36    | 5.66 T      | ±0.44     |
| PM2.5   | Particulate Matter less than 2.5 microns removed annually                             | \$5,933.11   | ±466.21    | 607.01 lb   | ±47.70    |
| SO2     | Sulfur Dioxide removed annually   | \$5.19       | ±0.41      | 414.70 lb   | ±32.59    |
| PM10*   | Particulate Matter greater than 2.5 microns and less than 10 microns removed annually | \$1,181.05   | ±92.80     | 1,381.62 lb | ±108.57   |
| CO2seq  | Carbon Dioxide sequestered annually in trees  | \$25,694.75  | ±2,019.05  | 1,326.98 T  | ±104.27   |
| CO2stor | Carbon Dioxide stored in trees (Note: this benefit is not an annual rate)             | \$779,405.64 | ±61,244.26 | 40,251.62 T | ±3,162.90 |

### MI Dept. of Agriculture & Rural Dev. (MDARD) pesticide applicator recertification credits now available online

Pesticide applicators in Michigan can now keep their certifications current with minimal investment in time and travel:

[http://msue.anr.msu.edu/news/mdard\\_pesticide\\_applicator\\_recertification\\_credits\\_now\\_available\\_online](http://msue.anr.msu.edu/news/mdard_pesticide_applicator_recertification_credits_now_available_online)

### EPA Releases Planning Resource to Help Communities Manage Stormwater and Wastewater with Green Infrastructure

This new resource provides municipalities and sewer authorities with tools to help quantify green infrastructure contributions to CSO control plans.

[http://water.epa.gov/infrastructure/greeninfrastructure/upload/Greening\\_CSOP\\_lans.PDF](http://water.epa.gov/infrastructure/greeninfrastructure/upload/Greening_CSOP_lans.PDF)

## Try out the Arbor Day Foundation's Online Tree Wizard selection tool

Not sure which trees to plant? By simply answering a few questions, the ADF's Tree Wizard will recommend the best tree for you. <http://www.arborday.org/shopping/trees/treewizard/Intro.cfm>

# NOTEWORTHY NEWS



## Valuing Green Infrastructure in Portland (OR) - Portland, OR (February 2014) —

This study uses the hedonic price method to examine if proximity, abundance, and characteristics of green street facilities affect the sale price of single-family residential properties in Portland, Oregon. Read more...

<http://actrees.org/news/trees-in-the-news/research/valuing-green-infrastructure-in-portland-oregon/>

## Follow local research on factors that affect the establishment of container-grown trees

What's the most important factor in establishing a container-grown tree? Fertilizer? Shaving the rootball? Mulch? Check out the latest on the study from the Garden Professors Extension blog which readers helped design. Read more... <http://blogs.extension.org/gardenprofessors/2014/02/25/it-came-from-the-blog-the-return-of-some-ded-trees/>

## Alliance for Community Trees Welcomes New Directors to Its Board

"Alliance for Community Trees just celebrated its 20<sup>th</sup> Anniversary and will enter its 21<sup>st</sup> year with an expanded, diverse Board of Directors," says Executive Director Carrie Gallagher.

The 2014 Board is a mix of business and member leadership with great passion for our organization's mission to plant and care for urban trees. Read more...

<http://actrees.org/news/media-center/actrees-news/alliance-for-community-trees-welcomes-new-directors-to-its-board>

## 20 Years Later: Does Reduced Soil Area Change Overall Tree Growth?

This research looked at a variety of tree species grown in parking lots and found that reductions in tree size were consistently associated with reduced apparent soil access. Read more...

<http://actrees.org/news/trees-in-the-news/research/20-years-later-does-reduced-soil-area-change-overall-tree-growth>

## Social Life Under Cover: Tree Canopy and Social Capital in Baltimore, Maryland



Baltimore, MD (January 27, 2014) — To what extent does the density of the tree cover in a city relate to the amount of social capital among neighbors? A lot, it turns out.

The relationships between several variables investigated suggest a complex interaction between social capital and the environment. In spite of this complexity, findings suggest that more street trees should be planted in neighborhood public spaces.

Read more: <http://actrees.org/news/trees-in-the-news/research/social-life-under-cover-tree-canopy-and-social-capital-in-baltimore-maryland>

## Chicago Study Finds Suitable Trees for a Warming Midwestern Climate

A recent study, led by Dr. Andrew Bell, curator of woody plants at the Chicago Botanic Garden, analyzed 50 trees common to Chicago's urban forest for their ability to adapt to a steadily warming climate through 2050. Bell recently blogged about the results of the study and posted a video to guide homeowners and urban foresters to plant diverse and hearty urban trees into the future.

Read more: <http://actrees.org/uncategorized/chicago-study-finds-suitable-trees-for-a-warming-midwestern-climate/>

## Michigan Urban and Community Forestry Council Members:

**Angela Ayers** – SE MI Council of Govt. (SEMCOG)

**Joan Chadde** – Michigan Tech. University

**Pam Blough** - P.M. Blough, Inc.

**Bill Drews** - Woodland Tree Services, Inc.

**Ryan Edwards** – City of Lapeer

**Kerry Gray (Chair)** – City of Ann Arbor

**Dean Hay** – Greening of Detroit

**Geoff Kempter** – Asplundh

**Rich Kobe** – Michigan State Univ. Forestry

**Lee Mueller** – Friends of Grand Rapids Parks

**Mary Wilson** – MSU Extension

**Ada Takacs** – DNR

**Kevin Sayers** – DNR

**Interested in being on the council? Please consider nominating yourself or someone you know to fill the currently vacant At-Large position on the board.**

**For more information please contact or visit:**

[www.michigan.gov/ucf](http://www.michigan.gov/ucf) Kevin Sayers, Urban Forester / [sayersk@mi.gov](mailto:sayersk@mi.gov) / 517.284.5898

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