

# IUPUI (Indiana University - Purdue University, Indianapolis) - 2015

## General Information

### Primary Contact Information

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### Referrer

- **How did you hear about the Tree Campus USA program?:**

### Recognition Event Date

- **Recognition Event:** ▲ Invalid or incomplete answer.
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## Standard 1

### Committee Dates

- **Date Committee Was Established:** Nov 7, 2011
- **Meeting Dates for Application Year:**

- Oct 1, 2015
- Jun 26, 2015

#### Committee Members

- **Student:**
    - Brittany Bayles, Communications Intern [bbayles@iupui.edu](mailto:bbayles@iupui.edu)
    - Paul-Michael Montoya, Student Sustainability Council [pmontoya@iupui.edu](mailto:pmontoya@iupui.edu)
    - Greg Walker, Community Engagement Intern [intern1@kibi.org](mailto:intern1@kibi.org)
  - **Faculty:**
    - John Dichtl, Liberal Arts, History [jdichtl@iupui.edu](mailto:jdichtl@iupui.edu)
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    - C. Thomas Lewis, Informatics & Computing, Media Arts & Science [lewisct@iupui.edu](mailto:lewisct@iupui.edu)
    - Catherine Hudnall, Herron School of Art & Design, Furniture Design [hudnallc@iupui.edu](mailto:hudnallc@iupui.edu)
  - **Facility:**
    - Mark Ramsey, University Landscape Architect [maaramse@indiana.edu](mailto:maaramse@indiana.edu)
    - Steve Stringer (Committee Co-Chair), Campus Grounds Manager [slstring@iupui.edu](mailto:slstring@iupui.edu)
  - **Community:**
    - Joe Jarzen, Keep Indianapolis Beautiful [jjarzen@kibi.org](mailto:jjarzen@kibi.org)
    - Holly Jones, Indiana Urban Forest Council [director@iufc.org](mailto:director@iufc.org)
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## Standard 2

#### Campus Tree Care Plan Establishment

- **Date the Campus Tree Care Plan Was Established:** Dec 14, 2012
  - **Campus Tree Care Plan:**
    - [file Campus Tree Care Plan 3](#)
  - **Status of Plan Goals & Targets** 1) Canopy Coverage - Facilitate achieving a 28% campus tree canopy, as recommended by the 2012 IUPUI Master Plan (<http://www.masterplan.iupui.edu/>) - 2010 tree canopy: 10%; Current tree canopy: 13% 2) Education - Indiana Native Plant and Wildflower Society (INPAWS) hosted annual conference at IUPUI, sponsored by the IUPUI's Center for Earth and Environmental Science (CEES) - Educational news stories have been communicated to the IUPUI community via multiple platforms - Arbor Day plantings include educational resources 3) Connecting Campus to Community - IUPUI is a member of Keep Indianapolis Beautiful's (KIB) Adopt-A-Block program - IUPUI partnered with the NCAA to coordinate tree plantings at multiple Indianapolis university campuses - Office of Sustainability, KIB, and the School of Public and Environmental Affairs (SPEA) partnered to create and fund a Community Engagement internship position that maintains IUPUI's Tree Campus USA designation & creates environmental resources
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## Standard 3

#### Expenditures Calculation

- **Tree Planting and Initial Care Costs:** \$5000

- **Campus Tree Management Costs:** \$97350
- **Volunteer Time from Students and Civic Organizations:** 65
- **Other Costs:** \$0
- **Other Cost Description:** ▲ Invalid or incomplete answer.
- **Total Calculated Costs:** \$103849.55

#### Additional Campus Details

- **Number of Trees Planted:** 35
  - **Number of Trees Removed:** 72
  - **Reason for Tree Removal:** Emerald ash borer (EAB), decline
  - **Number of Trees Pruned:** 90
  - **Tree Canopy Cover Percent:** 13%
  - **Campus Population:** 25,036
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## Standard 4

#### Observance Details

- **Date of the Event:** May 1, 2015
- **Short Summary of the Event:**

The 2015 Arbor Day Tree Planting was one of many Earth Month activities hosted on campus in the spring. Thanks to twenty (20) Honors College students, along with the support of Campus Facility Services and the Office of Sustainability, a total of 16 trees were planted on campus. The Honors College students were provided instruction and guidance on proper planting techniques and learned more about the IUPUI Grounds Department's role in managing and maintaining our Trees and other landscaping practices on campus. The Honors College students earned service credit for their work and support of this event.

- **Documents:**
    - [file Arbor Day Observance 1](#)
    - [file Arbor Day Observance 2](#)
    - [file Arbor Day Observance 3](#)
    - [file Arbor Day Observance 4](#)
    - [file Arbor Day Observance 5](#)
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## Standard 5

#### Service Learning Project Details

- **Date of Service Learning Project:** Sep 1, 2015
- **Short Summary of the Event:**

1) NCAA Tree Planting Sustainability: IUPUI's Office of Sustainability participated on the 2015 NCAA Men's Final Four Championships Sustainability Committee and planted trees in partnership with college/university campuses across the city. 2) The 2015 Arbor Day Tree Planting was one of many Earth Month activities hosted on campus in the spring. Thanks to twenty (20) Honors College students, along with the support of Campus Facility Services and the Office of Sustainability, a total of 16 trees were planted on campus. 3) Community

Engagement Internship: The Office of Sustainability has partnered with Keep Indianapolis Beautiful and the School of Public and Environmental Affairs (SPEA) to create a new internship position that serves both the IUPUI and Indianapolis community. This position will work to increase the community engagement of KIB's efforts while also managing IUPUI's Tree Campus USA program. 4) IUPUI hosted Indiana Native Plant and Wildflower Society conference

- **Number of Students Involved:** 41
  - [file Service Learning Project 1](#)
  - [file Service Learning Project 2](#)
  - [file Service Learning Project 4](#)
  - [file Service Learning Project 4a](#)
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## IUPUI Tree Care Plan - 2015

The IUPUI (Indiana University-Purdue University Indianapolis) Tree Care Plan should serve as a guide to the University in its goal of carrying out the 2012 IUPUI Master Plan's proposal of creating "a green network that includes riparian corridors and tree cover forming a campus urban ecosystem; new memorable spaces; improvements to campus edges and greenways; and enhancements to the pedestrian realm." Specifically, this plan supports the recommendation of The 2012 IUPUI Master Plan to "implement a...Tree Management Plan for the campus." Objectives of the plan are to:

- Facilitate the achievement of at least a 28% tree canopy on campus, as recommended by the 2012 IUPUI Master Plan <http://www.masterplan.iupui.edu/>
- Protect and maintain the campus urban forest by ensuring proper species selection and care, and by managing the impact of development and construction on campus trees.
- Educate campus community members to respect and value trees and their ability to make the campus a more beautiful, healthful and livable urban environment.
- Connect the IUPUI campus to its urban environment and help to establish IUPUI as a leader in urban sustainability initiatives.

### Responsible Department

The responsibility of the IUPUI Tree Care Plan lies with the IUPUI Campus Facility Services – Grounds Operations and in collaboration with the IUPUI Office of Sustainability and the University Architect's Office.

## Campus Tree Advisory Committee

A Campus Tree Advisory Committee was established November 2011. The committee is comprised of faculty, staff and students from across campus, as well as community representatives. The committee meets quarterly and provides important input for the care and improvement of the campus landscape. The work of the committee is organized in an online confluence space (<https://uisapp2.iu.edu/confluence-prd/display/tcusaiupui/Home>).

## Campus Arboriculture Practices

The IUPUI campus follows the [General Site/Landscape Standards](#) established by the Indiana University Office for Capital Planning and Facilities.

Indianapolis has a temperate climate, and with an even distribution of rain throughout the year there are no wet or dry seasons. The summers are very warm, and polar air from the north produces very cold, low humidity winters, although, we continue to experience diverse and unpredictable patterns. These characteristics play a role in the way IUPUI handles selection and planting of new trees, as well as the maintenance of existing trees. During the summer of 2012, Central Indiana experienced a severe drought, leading to water usage restrictions. As a result, it created highly challenging circumstances for campus grounds maintenance to maintain watering trees.

A group of volunteers consisting of IUPUI students, faculty, and staff took it upon themselves to complete a portion of the watering. They focused specifically on younger trees, and by the end of the summer they had contributed a combined total of 108 volunteer hours. We will continue to support these severe weather occurrences with volunteer assistance as needed.

**Tree selection** – When possible, choose a tree variety that fits into the vertical and horizontal space, environmental conditions and exposures. Also, plan for adequate root zone space and conditions for long-term plant growth.

**Planting** – In most urban planting locations, soils are inadequate to provide proper nutrients, moisture, moisture retention, and drainage to promote a healthy tree. Consider the extra soil preparation and planting time, labor, and soil amendments (if applicable) that will contribute to a long life for the tree. The tree structure above ground shall be inspected for damage to the limbs and trunk, the location of the root flare, and the root system if possible for bare root or container grown plants, or the integrity of the soil ball for balled-and-burlapped trees.



If possible, remove the top 1/3-1/2 of the wire basket. The tree should be planted with the root flare at or just above the finished grade.

**Watering** - The soil conditions and weather/time-of-year will determine watering needs in the first two years, and possibly for 3-4 years of the tree's new life. Indiana rainfall cannot be relied on for the tree's water needs in the first few years of life. A scheduled regimen for inspection and watering is labor intensive, but is balanced by the initial cost of the investment and the long-term value of a mature tree. Knowing the soil type, drainage conditions, and moisture retention of the root environment will help in monitoring the water needs of the tree. To help alleviate some of the difficulty of a strict watering regimen, Grounds Operations will use "Gator bags" when possible to water new trees.

There are also continued efforts to incorporate water friendly structures in our campus' new building projects. Indiana University has instituted a policy that all new buildings and major renovations will be required to meet the minimum Leadership in Energy & Environmental Design (LEED) Silver standards. Some examples of these efforts can be found in the cisterns and rain gardens by the Glick Eye Institute (LEED Gold) and the Science and Engineering Lab Building (SELB), dedicated in November, 2013. The SELB site also contributes a number of sustainable design features, including a rain garden for storm water management and the use of native and adaptive plants in the landscaping. A recent addition is the Neuroscience Research facility (LEED Gold) that incorporates water efficient landscaping and the newly renovated Rotary Building certified LEED Silver in October, 2014. Many of these new sites incorporated additional native landscapes and trees.

**Mulch** - 2-3 inches of mulch is adequate to aid as a barrier to protect the roots from extreme high temperatures and to conserve soil moisture. Keep mulch from being in contact with the tree trunk.

**Tree pruning** – After planting, only broken or damaged limbs should be pruned. When necessary due to sidewalk or road conditions, additional pruning may take place. These additional conditions are outlined in Appendix A.

**Pest management program** – IUPUI Grounds Operations follows the guidelines of an [Integrated Pest Management Policy](#), to monitor and react to insect and disease pests that affect the campus landscape. Through years of monitoring and treatment, we have developed a calendar and schedule for monitoring and treatment for the recurring pest cycles that affect the tree populations.

For complete details on the Arboricultural Practices of IUPUI, please see Appendix C.

## **Protection and Preservation Procedures**

On the construction side, all projects must include a tree preservation plan and tree protection specification section. These require the site to be secured and inspected by the representative



for the campus prior to the mobilization of the contractor. They also identify approved locations for staging, laydown, topsoil stockpile, and other associated realities of construction. Inevitably and appropriately in some instances, trees are taken during the construction process. There is a replacement ratio of three trees for every one that is taken and the replacement location does not need to be the same as that where the tree was lost. See Appendix B for a more detailed policy.

## Goals and Targets

This plan aims to help fulfill one of the overarching goals of the [2012 IUPUI Master Plan](#) to “create a vibrant urban campus” by:

- 1) Increasing the tree cover from 10% to at least 28% on campus



In 2012, the IUPUI Department of Geography led a student service-learning project, developing a campus tree inventory analysis, with financial support from the Offices of Sustainability and Student Employment, with matching grant funds provided with Venture Funds through the IUPUI Solution Center. A campus tree inventory was performed, identifying species, health, DBH, and crown coverage. From this data, a GIS map was created to

outline the IUPUI campus. We now have over 3,500 trees on the campus with an estimated canopy coverage of 13.0%; increasing the canopy cover to 28% would come with significant benefits in providing a natural insulator on the edge of downtown Indianapolis to reduce energy consumption, carbon dioxide release, and stormwater runoff. We plan to use and enhance the data and tools of the GIS inventory project in the campus maintenance program, with the intention of developing a dynamic, online campus map or phone app.

There are ongoing efforts to raise money for the renewal of Ball Gardens, a green space on IUPUI's campus that was designed by the creators of Central Park in New York. The new design will add a modern twist to fit with the downtown Indianapolis infrastructure. Phase I has been completed and provides a beautiful greenspace area that connects the IUPUI campus to the new Eskenazi Health Campus. Free Concert Events are hosted at the site throughout the summer months. Information regarding the history and future of Ball Gardens can be found at <http://ballgardens.iupui.edu/history.html>.

- 2) Protecting the current tree canopy by educating campus and community members of the benefits that trees can provide

Continue having annual events that promote sustainability and tree care: specifically, Arbor Day, Earth Month activities, Beautify IUPUI, Campus Sustainability Day, the Green Generation Fair, partner with the IUFC to host a Tree Giveaway workshop.



Establish an “Alumni Grove,” somewhere on campus such as Taylor Courtyard, Ball Gardens, or an area near the NCAA/White River Park area to act as a “Tree Walk” or promenade connector. The grove will have the same proportion of each native species as is found across the state of Indiana. The grove would be an instructional tool, reduce energy costs for surrounding buildings during the summer, and would, as the 2012 IUPUI Master Plan states, “improve the quality of campus life by creating a vibrant outdoor space for formal and informal gatherings which enhance casual interaction and provide opportunities for outdoor events.

Increase awareness and contributions to the IUPUI Campus Beautification Fund for further support and development of tree projects.

In 2013, two of our student organizations developed an Outdoor Learning Space at one of our two Urban Garden Locations. This space incorporates urban gardening, including fruit bushes and trees and can now be utilized for outdoor classes, meetings, and other outdoor educational opportunities.

In 2014, we partnered with the Keep Indianapolis Beautiful [Adopt-A-Block program](#), to display our commitment to environmental and community stewardship. We also partnered with the Indiana Urban Forestry Council (IUFC) to support and host their 2014 Big Tree Giveaway and Workshop that was sponsored by ACTrees and CSX Transportation. The workshop provided education on proper tree planting and maintenance, ecological services, and information on Tree Campus standards. In November, we also hosted a service workday for our student Campus Ambassadors, that included a session on sustainability at IUPUI, a sustainability scavenger hunt, and a workday assisting with mulching one of our urban gardens on campus.

In 2015, we again partnered with the Keep Indianapolis Beautiful Adopt-A-Block program to plant native Chokecherry trees on our campus at Michigan & West streets.

IUPUI and Keep Indianapolis curated a community a collaborative Community Engagement Internship, as year-long opportunity, for the first time in 2015.

Additionally, in 2015, IUPUI, through the Center for Earth and Environmental Science (CEES), was host to the Indiana Plant and Wildflower Society’s annual conference, attended by Community Engagement Intern Greg Walker.

The NCAA tree planting was an opportunity to join students and faculty to participate in a tree planting in early spring of 2015.

IUPUI was involved with Invasive removal, through CEES, at Holiday Park in the fall semester of 2015.

IUPUI's Center for Earth and Environmental Science participated in a Spring 2015 native planting at Marian University's Ecolab.

3) Connecting the campus to its urban environment and local community, in the spirit of the campus' commitment to civic engagement, we will strive to collaborate with other Indianapolis partners such as Keep Indianapolis Beautiful, Reconnecting to Our Waterways, Indiana Urban Forest Council, Indianapolis Downtown, Inc., and our "peninsula neighbors" including IU Health, Eskenazi Health, the Indianapolis VA Medical Center, White River State Park, Indiana State Museum, the Indianapolis Zoo, the NCAA, and the National Institute for Fitness and Support. We also participate in an Indianapolis Higher Education Sustainability Roundtable that includes; IUPUI, Butler University, Marian University, Ivy Tech, Franklin College, UIndy, and Martin University – we are coordinating with the Indiana Sports Corporation, the NCAA and KIB, for each campus to participate in a tree planting opportunity on our respective campuses during the 2015 NCAA Men's Basketball Championships to be held in Indianapolis.

## **Tree Damage Assessment, Enforcement and Penalties**

CFS Grounds Operations will monitor and inspect trees for damage from construction projects. Prior to the start of a construction project, University Architects and Grounds Operations will inspect the site and desirable trees will be noted in construction documents and drawings. The contractor shall follow proper tree protection methods. All damaged trees shall be assessed to determine if corrective measures are possible, including pruning or fertilization to stimulate the growth and vigor of the tree. Severe root or structural damage to a tree may warrant complete tree removal. A report of damages shall be sent to University Architects and the Construction Manager, and University Architects and Grounds Operations will determine compensation requirements.

## **Prohibited Practices**

Prior to tree removal due to construction, detrimental tree health, or tree hazards that affect the tree's impact on a space, prior approval shall be received from the University Architect's Office. Beginning in 2013, we will now incorporate the consideration of harvested trees for potential repurposing and use by our furniture and design department within our IUPUI Herron School of Art & Design.

## **Definitions**

Caliper – *The diameter or thickness of a main stem of a young tree or sapling as measured at six inches (6") above ground level. This measurement is used for nursery-grown trees having a diameter of four inches (4") or less.*

Canopy Tree – *A tree that will grow to a mature height of at least 40 feet with a spread of at least 30 feet*

Critical Root Zone – The minimum area surrounding a tree that is considered essential to support the viability of the tree and is equal to a radius of one foot per inch of trunk diameter (DBH)

Diameter, breast height (DBH) – The diameter width of the main stem of a tree as measured 4.5 feet above the natural grade at its base. Whenever a branch, limb, defect or abnormal swelling of the trunk occurs at this height, the DBH shall be measured at the nearest point above or below 4.5 feet at which a normal diameter occurs.

GIS Base Map – A geographically referenced electronic map of the campus site features and utility infrastructure that includes point data for some of the trees on campus

Green space – Any area retained as permeable, unpaved ground and dedicated on the site plan to supporting vegetation.

Impervious surface – A solid base underlying a container that is non-porous, unable to absorb hazardous material, free of cracks or gaps and is sufficient to contain leaks, spills and accumulated precipitation until collected material is detected and removed.

Landscape plan – A map and supporting documentation which describes for a particular site where vegetation is to be retained or provided in compliance with the requirements of this policy.

Laydown area – A space designated on a protection plan and on a construction site to allow contractor's to offload, store and manipulate products coming to and leaving the site.

Native tree – Any species that occurs naturally and is indigenous within the region

Pre-bid meeting – A mandatory meeting of all prospective bidders for any university construction project during which clarifications are made and addenda, if necessary, are identified

Pre-construction meeting – A mandatory meeting of the successful bidder and Owner representative prior to the start of work on any university construction project

Tree protection plan – A map and supporting documentation that describes for a particular site, where existing trees are to be retained in compliance with the requirements of the regulations, those tree types and their relationship to the overall reforestation plan.

Tree inventory – A service-learning intern's project that included a detailed tree survey of the IUPUI campus with species, DBH, and crown percentage dendrometrics.

Preferred Trees - a list of trees provided to outside design consultants to guide their plant palette so that their design is in keeping with the overall character of the campus canopy. Native trees will be given preference when all other aspects are equal. Other species will be considered but approval must be obtained from the University Architect's Office. The list includes:

American Basswood – *Tilia americana*  
American Beech – *Fagus grandifolia*  
European Beech – *Fagus sylvatica*  
Black Birch – *Betula nigra*  
Cornelian Cherry – *Cornus mas*  
Horse Chestnut - *Aesculus hippocastanum*  
Crabapple – *Malus spp.*  
Bald Cypress – *Taxodium distichum*  
Flowering Dogwood – *Cornus florida*  
Kousa Dogwood – *Cornus kousa*

Elm Tree - *Ulmus (hybrid)*  
Douglas Fir – *Pseudotsuga menziesii*  
White Fir – *Abies concolor*  
Common Hackberry – *Celtis occidentalis*  
Washington Hawthorn - *Crataegus phaeopyrum*  
Eastern Hemlock – *Tsuga Canadensis*  
Paperback Maple – *Acer griseum*  
Red Maple – *Acer rubra*  
Trident Maple – *Acer buergerianum*  
Sugar Maple – *Acer saccharum*

Bur Oak – *Quercus macrocarpa*  
Chinkapin Oak – *Quercus muehlenbergii*  
Northern Red Oak – *Quercus rubra*  
Scarlet Oak – *Quercus coccinea*  
Shumard Oak – *Quercus shumardii*  
White Oak – *Quercus alba*  
London Planetree - *Platanus x acerifolia*  
Eastern Redbud – *Cercis Canadensis*  
Eastern RedCedar - *Juniperus virginiana*  
Canadian Serviceberry – *Amelanchier Canadensis*  
Common Serviceberry – *Amelanchier arborea*  
Black Hills Spruce – *Picea glauca* var. *densata*  
Norway Spruce – *Picea abies*  
Serbian Spruce – *Picea omorika*  
Sweetgum – *Liquidamber styraciflua*  
Maidenhair Tree – *Ginkgo biloba*  
Tulip Tree – *Liriodendron tulipifera*

## Dedicated Annual Expenditures

*For fiscal year 2015*

### Contracted Tree Care

Tree planting & initial care costs	\$ 5,000
Campus Tree Management Costs	\$ 97,350
<b>TOTAL</b>	<b>\$ 102,350</b>

\*There is an IUPUI Campus Beautification Fund where donated funds are used strictly for the purchase of bulbs, plants, trees and shrubs and other products necessary to landscape the IUPUI campus including mulch, various forms of ground cover, flower bedding soil, decorative stone, edging, etc.

## Communication Strategy

The Tree Care Plan, particularly the parts of it dealing with tree selection, care, protection, and replacement, will be distributed to Campus Facilities staff and all contractors whose work may have an effect on the trees on IUPUI's campus. Students, faculty, staff, and alumni will be made aware of the plan upon its adoption by announcements in/on the following:

- JAG News (electronic newsletter for students, emailed to entire campus community)
- Inside IUPUI (electronic newsletter for faculty and staff)
- IUPUI Facebook page <http://www.facebook.com/IUPUI>
- Facebook pages of various IUPUI schools and departments
- Student Sustainability Council's Facebook <http://www.facebook.com/SustainIUPUI>
- Office of Sustainability website, Facebook, Twitter  
<http://sustainability.iupui.edu/>  
<http://www.facebook.com/IUPUISustainability>  
<https://twitter.com/#!/IUPUISustain>
- NUVO, Indy Star, Indiana Living Green, Reconnecting to Our Waterways

The Campus Tree Advisory Committee will also strive to place a series of news stories in campus publications and in various other city publications regarding the adoption of the plan and achievement of Tree Campus USA status, special tree planting and watering initiatives, coordination with Keep Indianapolis Beautiful and other community partners, completion of the IUPUI GIS tree database, and other projects. Each of these instances will be used as an opportunity to refer to the new Campus Tree Care Plan, the work of the committee, and Tree Campus USA certification.



(retrieved from IU architect plan)

<http://www.indiana.edu/~vpcpf/consultant-contractor/standards/site-landscape.shtml>

## **Appendix A**

### **Additional Maintenance Procedures -**

1. Tree limbs shall be removed to a height of 7 ft. over sidewalks and 14 ft. over roads and parking areas. Limbs will be removed from around area lights to prevent diminished light from the fixture. This should be typically done in June after full leaf out.
2. Young trees will receive annual pruning for up to five years after planting. The purpose of the pruning will be to direct the tree into the appropriate form for the species and the site.
3. The "walk around" should help determine what maintenance the tree requires. Trees in close proximity to buildings, roads, parking lots, sidewalks, and high use areas should be evaluated for several conditions. Priority should be made for hazardous limbs or trees. The trees should also be checked for disease, insect infestations, dead branches, and anything that might contribute to the trees declining health. Once an evaluation is done a corrective action (if needed) will be decided and executed.
4. The timing of the pruning should be to avoid bud break and leaf drop on live wood.
5. Corrective pruning will be performed to maintain the natural shape and characteristic of the species. Pruning should be targeted at dead branches, crossing branches, suckers, water sprouts, infested branches, etc. All pruning will be done using accepted arboriculture techniques and methods.
6. Unless approved by the campus manager, tree wrap will not be used.
7. Irrigation of newly planted trees will take place at least twice monthly, unless there is adequate rainfall, during the first three growing seasons.
8. Pest control should be done as needed.
9. Mulch will be maintained at a minimum depth of 1 inch and a maximum depth of 3 inches.
10. Trees will not be removed without prior approval of the campus manager. In some cases approval will be required by the university landscape architect. Removal of dead or badly damaged trees will take place in a manner that observes all standard safety practices.
11. Stumps of removed trees will be reduced to a level beneath the soil grade that allows replanting in that location.
12. Remove stump shavings and back fill hole immediately after stump grinding

# Appendix B

From the Office of Indiana University Architects:

## SECTION 02231

### TREE PROTECTION AND TRIMMING

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes tree protection for existing trees indicated to remain. List below only construction that the reader might expect to find in this Section but is specified elsewhere.
- B. Related Sections include the following:
  - 1. Division 2 Section "Site Clearing" for removal limits of trees, shrubs, and other plantings affected by new construction.
  - 2. Division 2 Section "Earthwork" for building excavation, backfilling, compacting and grading requirements, and soil materials.
  - 3. Division 2 Section "Landscape Material" for tree and shrub planting, tree support systems, and soil materials.

##### 1.2 DEFINITIONS

- A. Tree Protection Zone: Area surrounding individual trees or groups of trees to remain during construction, and defined by the drip line of individual trees or the perimeter drip line of groups of trees, unless otherwise indicated.

##### 1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Qualification Data: For tree service firm and arborist.
- C. Certification: From arborist, certifying that trees indicated to remain have been protected during construction according to recognized standards and that trees were promptly and properly treated and repaired when damaged.
- D. Maintenance Recommendations: From arborist, for care and protection of trees affected by construction during and after completing the Work.

##### 1.4 QUALITY ASSURANCE

- A. Tree Service Firm Qualifications: An experienced tree service firm that has successfully completed tree protection and trimming work similar to that required for this Project and that will assign an experienced, qualified arborist to Project site during execution of tree protection and trimming.
- B. Arborist Qualifications: An arborist certified by ISA or licensed in the jurisdiction where Project is located.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. Drainage Fill: Selected crushed stone, or crushed or uncrushed gravel, washed, ASTM D 448, Size 24, with 90 to 100 percent passing a 2-1/2-inch sieve and not more than 10 percent passing a 3/4-inch sieve.
- B. Topsoil: As specified in Division 2 Sections "Lawns and Grasses" and "Exterior Plants."
- C. Filter Fabric: Manufacturer's standard, nonwoven, pervious, geotextile fabric of polypropylene, nylon, or polyester fibers.
- D. Chain-Link Fence: Metallic-coated steel chain-link fence fabric of 0.120-inch- diameter wire; a minimum of 48 inches high; with 1.9-inch- diameter line posts; 2-3/8-inch- diameter terminal and corner posts; 1-5/8-inch- diameter top rail; and 0.177-inch- diameter bottom tension wire; with tie wires, hog ring ties, and other accessories for a complete fence system.
- E. Organic Mulch: As specified in Division 2 Section "Landscape Material."

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Temporary Fencing: Install temporary fencing around tree protection zones to protect remaining trees and vegetation from construction damage. Maintain temporary fence and remove when construction is complete.
  - 1. Install chain-link fence according to ASTM F 567 and manufacturer's written instructions.
- B. Protect tree root systems from damage caused by runoff or spillage of noxious materials while mixing, placing, or storing construction materials. Protect root systems from ponding, eroding, or excessive wetting caused by dewatering operations.
- C. Mulch areas inside tree protection zones and within drip line of trees to remain and other areas indicated.
  - 1. Apply 2-inch average thickness of organic mulch. Do not place mulch within 4 inches of tree trunks.
- D. Do not store construction materials, debris, or excavated material inside tree protection zones. Do not permit vehicles or foot traffic within tree protection zones; prevent soil compaction over root systems.
- E. Maintain tree protection zones free of weeds and trash.
- F. Do not allow fires within tree protection zones.

### **3.2 EXCAVATION**

- A. Install shoring or other protective support systems to minimize sloping or benching of excavations.
- B. Do not excavate within tree protection zones, unless otherwise indicated.
- C. Where excavation for new construction is required within tree protection zones, hand clear and excavate to minimize damage to root systems. Use narrow-tine spading forks and comb soil to expose roots.
  - 1. Redirect roots in backfill areas where possible. If encountering large, main lateral roots, expose roots beyond excavation limits as required to bend and redirect them without breaking. If encountered immediately adjacent to location of new construction and redirection is not practical, cut roots approximately 3 inches back from new construction.
  - 2. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition. Temporarily support and protect roots from damage until they are permanently relocated and covered with soil.

### 3.3 REGRADING

- A. Grade Lowering: Where new finish grade is indicated below existing grade around trees, slope grade away from trees as recommended by arborist, unless otherwise indicated.
  - 1. Root Pruning: Prune tree roots exposed during grade lowering. Do not cut main lateral roots or taproots; cut only smaller roots. Cut roots with sharp pruning instruments; do not break or chop.
- B. Minor Fill: Where existing grade is 6 inches or less below elevation of finish grade, fill with topsoil. Place topsoil in a single uncompacted layer and hand grade to required finish elevations.

### 3.4 TREE PRUNING

- A. Prune trees to remain that are affected by temporary and permanent construction.
- B. Cut branches with sharp pruning instruments; do not break or chop.

### 3.5 TREE REPAIR AND REPLACEMENT

- A. Promptly repair trees damaged by construction operations within 24 hours. Treat damaged trunks, limbs, and roots according to arborist's written instructions.
- B. Remove and replace trees indicated to remain that die or are damaged during construction operations that arborist determines are incapable of restoring to normal growth pattern.
  - 1. Provide new trees of same size and species as those being replaced; plant and maintain as specified in Division 2 Section "Exterior Plants."

### 3.6 DISPOSAL OF WASTE MATERIALS

- A. Burning is not permitted.
- B. Disposal: Remove excess excavated material and displaced trees from Owner's property.

# Appendix C

[Indiana University Landscape Standards10/2006](#)

## SECTION 02110 SITE CLEARING

### PART 1- GENERAL

#### 1.01 RELATED WORK

- A. Drawings and general provisions of contract, including General and Supplementary Conditions and Division - 1 Specifications Sections, apply to work of this Section.
- B. Section 02200 - Earthwork

#### 1.02 DESCRIPTION OF WORK

- A. Provide site clearing work as shown and indicated.
- B. Site clearing work includes, but is not limited to:
  - P* 1. Protect existing or newly planted trees and plants as shown on drawings or as directed by Architect/Engineer.
  - 2. Removal of trees and other vegetation.
  - 3. Topsoil stripping.
  - 4. Clearing and grubbing.
  - 5. Removing above-grade improvements.
  - 6. Removing below-grade improvements.
  - 7. Installation of erosion control fabric.

#### 1.03 JOB CONDITIONS

- C. Erect protection prior to any disturbance associated with new construction on site.

### PART 2 - PRODUCTS

#### 2.01 MATERIALS

- A. Fence: Plastic mesh safety fence no less than 4' in height.
- B. Stakes: Steel Channel Posts
- C. Wire: Galvanized iron wire, 12 gauge.

## PART 3 - EXECUTION

### 3.01 SITE CLEARING:

- A. General: Remove trees, shrubs, grass and other vegetation, improvements, or obstructions interfering with installation of new construction. Remove such items elsewhere on the site or premises as specifically indicated. Removal includes digging out stumps and roots.
  - 1. Carefully and cleanly cut roots and branches of trees indicated to be left standing, where such roots and branches obstruct new construction.
  - 2. Clear all material collected at base of tree to original grade. Remove collected material and clear area from trunk to dripline.

Where trees are indicated to be left standing, stop topsoil stripping a sufficient distance to prevent damage to main root system.

- D. Installation of Protection Fence: Drive stakes 6' o.c. along the line designated by the greatest reach of a branch from the trunk. Drive stakes 18" deep. Place fence outside the stakes and secure with wire. Overlap fence by 4' on the ends and secure with wire. Allow no gate for access into dripline area through snow fence.
- E. Use only hand methods for grubbing inside drip line of trees indicated to be left standing.

END OF  
SECTION

### Earthwork Section 0220

- B. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights.
  - 2. Protect structures, utilities, sidewalks pavements, and other facilities from damages caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
    - a. Perform excavation within drip line of large trees to remain by hand, and protect the root system from damage or dry out to the greatest extent possible. Maintain moist condition for root system and cover exposed roots with burlap. Paint root cuts of 1" diameter and larger with emulsified asphalt tree paint.



PART 3 - EXECUTION

3.02 PLACING TOPSOIL

- A. Use topsoil in relatively dry state. weather. place during dry
- B. Fine grade topsoil eliminating rough or low areas to ensure positive drainage. Maintain levels, profiles and contours of sub-grades.
- C. Remove stone, roots, grass, weeds, debris and other foreign material while spreading.
- D. Manually spread topsoil around trees to prevent damage which may be caused by grading equipment.

PLANT MATERIALS AND INSTALLATION

Landscape contractor will be pre-qualified with five years minimum experience in landscape installation of similar size projects.

- All plant material will conform to the current issue of the American Standard for Nursery stock published by the American Association of Nurserymen.
- Plant material must be selected from nurseries which are located in hardiness zones similar to the project's location. Nurseries must also be inspected and approved by state and federal agencies.
- Plant materials must be approved by the landscape architect prior to digging and delivery. Plant material inspections and approvals can be done at the nursery or by photographs. A minimum of two photographs per plant type with a front and side view is required. Photographs must indicate size, shape, color, and nursery growing conditions.
- Plant materials will have the following minimum sizes:

- Deciduous shade type trees
- Deciduous ornamental trees
- Deciduous shrubs, dwarf & semi-dwarf
- Deciduous shrubs, medium Deciduous shrubs, large Evergreen Trees
- Evergreen shrubs, dwarf & semi-dwarf
- Evergreen shrubs, medium Evergreen shrubs, large Perennials, 2 year plants
- Roses, No. 1 grade
- Ground Covers, 2 year plants
- Bulb
- Annual flowers

- 2.5" caliper
- 1.5 "caliper
- 15"-18"
- 18"- 24"
- 24"- 30"
- 7'-8' ht.
- 15" -18"
- 18"-24"
- 24"-30"
- 2 gal.
- 2 gal. No.1
- Top size
- 18 pack flats

## **SECTION 02490 PLANT MATERIALS**

### **PART 1-GENERAL**

#### **1.01 WORK INCLUDED**

- A. Trees, shrubs, perennials, bulbs and flowers.
- B. Topsoil bedding and mulching.
- C. Maintenance

#### **1.03 QUALITY ASSURANCE**

- A. Perform work with personnel experienced in the technical and construction tasks required of this section under the direction of a skilled foreman.
- B. Plant materials will be approved by Landscape Architect prior to digging and shipping. Contractor will submit photos from at least two sides of material indicating size, shape and condition to the Landscape Architect for approval if material is located more than 50 miles from project site.
- C. Ship landscape materials with certificates of inspection required by governing authorities. Comply with regulations applicable to landscape materials. Indiana Nurserymen's Association, American Association of Nurserymen's American Standard for nursery stock and Federal Specifications Q-F-241D and A-P-166E.
- D. Do not make substitutions. If specified landscape material is unavailable, submit proof of non-availability and proposal for use of equivalent material to Landscape Architect.
- E. Analysis and Standards: Packaged standard products with manufacturer's certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agriculture Chemists, wherever applicable.

#### 1.04 DELIVERY, STORAGE AND HANDLING

A. Immediately before digging, all plant material shall be marked to indicate north side at time of digging. Provide freshly dug trees and shrubs. Do not prune prior to delivery. Do not bend or bind-tie trees or shrubs in such a manner as to damage bark, break branches, or destroy natural shape. Provide protective covering during delivery.

B. Root ball size: The minimum root ball diameter for trees and shrubs shall be as follows:

1. Trees

Caliper inches

Minimum Root Ball Diameter

1"-1-1/4"

1-1/2"- 2-1/4"

2-1/2"- up

18 times larger than caliper

15 times larger than caliper

13.5 times larger than caliper

2. The minimum root ball diameter for trees shall be 1/3 the tree height when tree size is specified by height, i.e.; 8ft. high tree will have a minimum root ball diameter of 32".

3. The minimum root ball diameter for shrubs (36" high and larger) shall be 1/3 their height. Shrubs less than 36" high shall have a minimum root ball size equal to their spread.

4. Root ball depths:

a. Root balls with diameters less than 48" shall have a depth of not less than 75% of their diameter.

b. Root balls with diameters 48" to 60" shall have a depth of not less than 66-2/3% of their diameter.

c. Root balls with diameters over 60" will have the depth scaled down proportionately

C. Deliver trees and shrubs after preparations for planting have been completed and plant immediately. If planting is delayed more than 6 hours after delivery, then store plant material in shade. Protect from weather and mechanical damage and keep roots moist. Provide cover if necessary.

D. Reject plants when ball of earth surrounding roots has been cracked or broken during delivery or planting process.

E. Reject plants when burlap, staves, and ropes required in connection with transporting have been displaced prior to acceptance.

## 1.05 WARRANTY

- A. Provide one-year warranty from plant material acceptance.
- B. Replace dead, unhealthy, and misshapen plant materials.
- C. Replacements: Plant materials of same size and species, with a new warranty commencing on date of replacement.

## PART 2-PRODUCTS

### 2.01 MATERIALS

- A. Trees and shrubs: Species and size as identified on landscape plan, grown in climatic conditions similar to those in locality of the project site.
- H. Fertilizer: For trees and shrubs, provide slow release granular fertilizer with not less than 10% available phosphoric acid and 3-5% total nitrogen and from 3-5% soluble potash.
- I. Mulch: Shredded native hardwood bark. 3" minimum layer, pieces shall not exceed 12" x 1" x 4" and contain a minimum of 25% organic material.

## PART 3-EXECUTION

### 3.01 PREPARATION

- A. Verify topsoil and plant bed soil is ready for planting operations. Prepare planting areas and beds for plant installation.

### 3.02 INSTALLATION

- A. Place plant materials or location stake for review and final orientation by Landscape Architect prior to installation.
- B. Excavate for plant materials.
  - 1. Plant pits shall be circular in outline and shall have vertical sides and flat bottoms. They must be excavated at least 6" deeper than the root balls. Their diameter shall be:
    - a. At least 3' larger than plant root balls 5 feet larger in diameter.
    - b. At least 2' larger than tree plant root balls 2 to 5 feet in diameter.
    - c. A minimum of 18" larger than plant root balls less than 2 feet in diameter.
- C. Set plant materials relative to grade as originally grown, after settlement, and orient north side of plant.
- D. Set plants in pits partly filled with prepared topsoil mixture, at a minimum depth of at least 6" as indicated under each plant. Pull away burlap, ropes wires, etc. from top of root ball. All covering and ropes other than burlap and hemp shall be completely removed.
- E. Backfill soil mixture in 6" layers. Maintain plant materials in vertical/plumb position. Dish top of backfill to allow for mulching.

- F. Thoroughly water soil when the hole is half full, even if it is raining, and again when full. Water plant materials as indicated.
- G. Mulch pits and plant beds. Provide 3" thickness of mulch and work into top of backfill and finish level with adjacent grades. Mulched tree pits shall be a diameter of 6 feet. Unless pit area is restricted by site elements.
- H. If deciduous trees or shrubs are moved in full leaf, water root zone thoroughly and spray with anti-desiccant at nursery before moving and again two weeks after planting.
- I. Pruning: Thin out and shape trees and shrubs in accordance with standard horticultural practice. Prune trees to required height and spread. Do not cut tree leaders, and remove only injured or dead branches. Prune shrubs to retain natural character. Do not shear.

#### 3.04 TRANSPLANTING EXISTING PLANTS

- A. Indicate north side of plants before digging. Before digging deciduous plants which are in full leaf, water root zone thoroughly and spray with anti-desiccant as per manufacturer's instruction and again two weeks after transplanting.
- B. All transplanted plants shall be balled and burlapped. Minimum size and depth of root ball shall be as specified in paragraph 1.04B.
- C. Temporary storage: Existing plants which have been removed and cannot be replanted immediately shall be "healed-in" with topsoil, mulch, or sawdust. "healed-in" plants shall be kept shaded and their root balls kept moist until they can be replanted. Replant according to specifications outlined in Part 3- Execution.
- D. Warranty: Transplanted material in full leaf shall not be warranted. All other warranties apply.

#### 3.05 INSPECTION OR INITIAL ACCEPTANCE

- A. Maintenance and warranty shall begin after landscape inspection and acceptance. This inspection can be on all or partially completed work under this contract.
- B. At the time of final inspection, the Landscape Architect and owner reserve the right to postpone final acceptance until that time in the future when positive acceptance or rejection can be determined.

#### 3.06 MAINTENANCE AFTER INITIAL ACCEPTANCE OR INSPECTION

- A. Begin maintenance of plant materials immediately after planting and continue until 30 days after initial acceptance.
- B. Maintenance shall include measures necessary to establish and maintain plants in a vigorous and healthy growing condition. Include the following:
  - 1. Cultivation and weeding tree pits. When herbicides are used for weed control, apply in accordance with manufacturer's instructions. Remedy damage resulting from use of herbicides.
  - 2. Water sufficient to saturate root system.
  - 3. Pruning, including removal of dead and broken branches, and treatment of prune wounds.
  - 4. Disease and insect control.
  - 5. Replumb trees and stake if required. Repair or replace accessories when required.
- C. Job site will be kept neat and attractive during 30 day maintenance period.

END OF SECTION



Indiana University–Purdue University Indianapolis Indiana University–Purdue University Indianapolis IUPUI

## IUPUI Newsroom

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# Arbor Day Foundation honors IUPUI as a Tree Campus USA

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• **May 7, 2015**

### **FOR IMMEDIATE RELEASE**

INDIANAPOLIS -- Indiana University-Purdue University Indianapolis was honored with a 2014 Tree Campus USA recognition by the Arbor Day Foundation for its commitment to effective urban forest management.

The award marks the third time IUPUI has received the Tree Campus USA recognition.

Leading up to the award May 5, the campus participated in the 2015 Arbor Day tree planting program. Twenty Honors College students, with the support of Campus Facility Services, planted 16 trees May 1.

IUPUI also participated in an NCAA tree-planting event during the Final Four in Indianapolis last month. Four trees were planted in an area designated Celebration Plaza, between one of the NCAA's buildings and the Herron School of Art and Design.

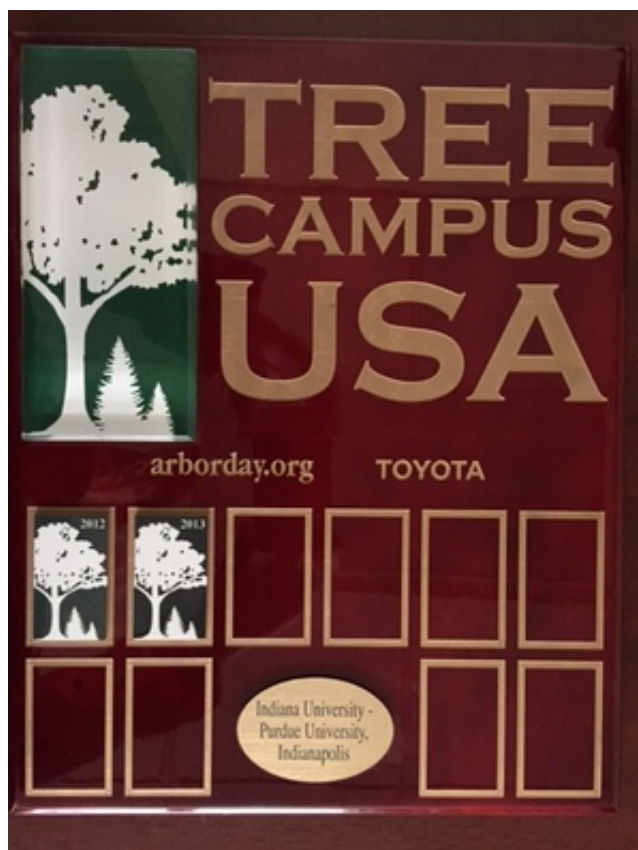
Tree Campus USA is a national program created in 2008 by the Arbor Day Foundation and sponsored by Toyota to honor colleges and universities for effective campus forest management and for engaging staff and students in conservation goals.

According to the foundation, IUPUI achieved the title of Tree Campus USA by meeting five standards, which include maintaining a tree advisory committee, a campus tree-care plan, dedicated annual expenditures for its campus tree program, an Arbor Day observance and student service-learning project.

### **About the Arbor Day Foundation:**

The Arbor Day Foundation is a million-member nonprofit conservation and education organization with the mission to inspire people to plant, nurture and celebrate trees.





Tree Campus USA



Arbor Day tree planing

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Web version: <http://news.medicine.iu.edu/releases/2015/05/tree-campus-usa.shtml>

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I am currently a sophomore at IUPUI majoring in Sustainable Management and Policy at the School of Public and Environmental Affairs (SPEA). For the past 5 years, I have been working with Keep Indianapolis Beautiful (KIB), an affiliate of Keep America Beautiful, through their Youth Tree Team program. As of this fall, I have decided to advance in my capacity with not only KIB but also IUPUI in the form of the Community Engagement Internship. The internship is a year-long endeavor spanning two semesters that serves as a bridge between Keep Indianapolis Beautiful and IUPUI, more specifically the IUPUI Office of Sustainability and SPEA. One of the major projects I will be focusing on as an intern for the IUPUI Office of Sustainability is maintaining IUPUI's accreditation as a [Tree Campus USA](#) university by leading tree plantings, assisting in updating the IUPUI's tree care program, and coordinating the Tree Campus USA committee.

Within the month of October, KIB's planting season will resume into autumn. The largest endeavor for October is our annual partnership with Eli Lilly entitled Lilly Global Day of Service. Roughly 4,000 Lilly employees will spend the day around Indianapolis furthering neighborhood projects and enhancing existing efforts to engage diverse communities to create vibrant public places, helping people and nature thrive. This year part of LDOS will focus on [Great Places 2020](#), a collective initiative focused upon urban revitalization. Six implementation partners are involved with great places: City of Indianapolis, Indianapolis Neighborhood Housing Partnership (INHP), Indy Chamber, Keep Indianapolis Beautiful, Local Initiatives Support Corporation (LISC) Indianapolis, and United Way of Central Indiana. In short, looking toward Indianapolis' bicentennial, the project aims at paving the way for large-scale economic and social investments. Work this autumn will also continue with the implementation and completion of three more IPL Project GreenSpaces as part of KIB's placemaking efforts. Lastly, the final Great Indy Cleanup with Mayor Greg Ballard will happen on October 24 in Martindale-Brightwood.

In relation to my IUPUI career, KIB has, and continues to be, immensely helpful in terms of mentoring and career guidance. Being involved with such a wide array of projects and programs provides the unique opportunity to evaluate both KIB and IUPUI in new aspects. Entering into the professional world, having the chance to become acquainted with working on multiple projects simultaneously will prove to be highly valuable. This internship will provide the chance to become more directly attached to IUPUI through the immediate, visible results as well as the invaluable long-term results post-graduation and beyond. I look forward to the journey ahead!



IUPUI

## OFFICE OF SUSTAINABILITY

INDIANA UNIVERSITY–PURDUE UNIVERSITY  
Indianapolis

### Tree Campus USA Application 2015 Standard 5 - Service Learning Projects

#### **1) NCAA Tree Planting Sustainability initiative:**

IUPUI's Office of Sustainability participated on the 2015 NCAA Men's Final Four Championships Sustainability Committee. The office coordinated an Indianapolis Higher Education NCAA Tree Planting event at the following six campuses: IUPUI, Butler University, Franklin College, the University of Indianapolis, Marian University and Ivy Tech State College. The trees were provided by the NCAA in honor of this year's Men's Final Four Championship being hosted in Indianapolis. Keep Indianapolis Beautiful (KIB) provided the selection and delivery of the trees to each respective campus. IUPUI planted four swamp white oaks between one of the NCAA's buildings and Eskenazi Hall (the Herron School of Art and Design), in an area designated Celebration Plaza. Each campus hosted their own planting celebration that involved Faculty, Staff, Students, and Administrators.

[\*Campus at heart of NCAA finals, March 31, 2015\*](#)





## **2) 2015 Arbor Day Tree Planting:**

The 2015 Arbor Day Tree Planting was one of many Earth Month activities hosted on campus in the spring. Thanks to twenty (20) Honors College students, along with the support of Campus Facility Services and the Office of Sustainability, a total of 16 trees were planted on campus. The Honors College students were provided instruction and guidance on proper planting techniques and learned more about the IUPUI Grounds Department's role in managing and maintaining our Trees and other landscaping practices on campus. The Honors College students earned service credit for their work and support of this event.

[\*Arbor Day Foundation honors IUPUI as a Tree Campus USA, May 7, 2015\*](#)



### 3) Community Engagement Internship

#### **Sustainability & Keep Indianapolis Beautiful Partner To Create New Internship Position**



The Office of Sustainability has partnered with [Keep Indianapolis Beautiful](#) and [SPEA](#) to create a new internship position that serves both the IUPUI and Indianapolis community. This position will work to increase the community engagement of KIB's efforts while also managing IUPUI's [Tree Campus USA](#) program.

The first intern in this position is Greg Walker (pictured left), a sophomore in SPEA's Sustainable Management & Policy program. Greg has volunteered with KIB for the past 5 years through their [Youth Tree Team](#) program. His commitment to environmental issues in Indianapolis make him a great candidate for the job! [Get to know Greg.](#)

The 2015 Indiana Native Plant and Wildflower Society (INPAWS) conference provided in-depth perspective into sustainable landscaping practices. The overarching theme was to incorporate native plant species into the current environment, especially in suburban areas, to enhance the reality of an interconnected ecosystem in urban and suburban areas.

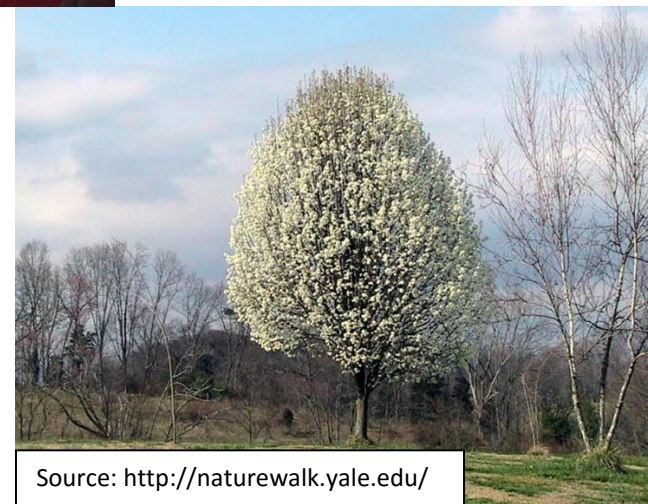
I was able to attend INPAWS 2015 through the Center for Earth and Environmental Science (CEES) at IUPUI, and also due in part to the ongoing internship partnership with IUPUI's School of Public and Environmental Affairs, IUPUI's Office of Sustainability, and Keep Indianapolis Beautiful.



In Doug Tallamy's speech, he spoke of the importance of creating proper habitat for native caterpillars, and ultimately birds, to provide the necessary stem-off effects from those animals. The major stopping block for many of the caterpillars, is the lack of proper tree species for the insects to feed from. It was noted that many residential areas are using ornamental trees, such as the Callery pear (below), also known as the Bradford pear. Caterpillars are unable to feed from Callery pears, a popular ornamental tree, are not native to North

America and thus are unable to thrive. Native birds rely on caterpillars to sustain themselves, Lepidoptera which causes a decrease in native birds.

Recently, on IUPUI's campus (West & Michigan), staff from IUPUI's Office of Sustainability, IUPUI's School of Public and Environmental Affairs, and Keep Indianapolis Beautiful were present at a planting of two *Prunus virginiana*, (Chokecherry) trees. The Chokecherry is of the *Prunus* variety discussed in \*NAME\* speech. Beyond providing habitat for lepidopteron through their leaves, the berries of the chokecherry trees are also directly edible by birds. While IUPUI does currently have a small



Source: <http://naturewalk.yale.edu/>



number of pre-existing Bradford Pear trees, moving forward, we intend to continue planting native, sustainable tree species as new information becomes available.



I found it compelling to see that the work currently being carried out through IUPUI and Keep Indianapolis Beautiful focused on the same concepts of interconnectedness in the environment as Tallamy's speech detailed above. These practices will, in the future, provide an exciting and diverse ecosystem on IUPUI's campus, and Indianapolis as a whole for students and faculty in the years to come.



# Indiana University–Purdue University Indianapolis

## Indiana University–Purdue University Indianapolis IUPUI

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## Spotlights & Profiles

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## [Student Spotlights](#)

### Sustainability intern ready for challenges

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December 15, 2015

by Ric Burrous





Sophomore Greg Walker, an intern in the Office of Sustainability, also works with Keep Indianapolis Beautiful and helps provide connections between the two. One of his primary responsibilities is to help IUPUI maintain its Tree Campus USA status. | PHOTO COURTESY OF THE OFFICE OF SUSTAINABILITY

Poets and writers have used trees as a symbol of many things, including love, nature and the cycle of life.

IUPUI student Greg Walker knows what those feelings are like.

Walker is a sophomore majoring in sustainable management and policy in the School of Public and Environmental Affairs. But his involvement extends beyond the classroom. For years, he has been an intern with Keep Indianapolis

Beautiful, and this year he added responsibilities in IUPUI's Office of Sustainability through a community engagement scholarship.

"The internship is a yearlong endeavor that serves as a bridge between Keep Indianapolis Beautiful and IUPUI," Walker said. He believes that link, as well as one connecting the Office of Sustainability and SPEA, will serve the campus well.

"One of the major projects I'll focus on is maintaining IUPUI's accreditation as a Tree Campus USA member by leading tree plantings, helping update IUPUI's tree-care program and coordinating the Tree Campus USA committee," he explained.

Last May, IUPUI earned a 2014 Tree Campus USA designation for its work in effective urban forest management. In honor of that recognition, Honors College students and Campus Facility Services employees planted 16 trees in a May project.

The campus continued to improve IUPUI's tree cover again this November, when Walker was part of an IUPUI team that planted new trees near Michigan and West streets as part of Keep Indianapolis Beautiful's Adopt-a-Block program.

Tree Campus USA is a national program created in 2008 by the Arbor Day Foundation to honor colleges and universities for effective campus forest management and for engaging staff and students in conservation goals. IUPUI achieved the title of Tree Campus USA by meeting five standards:

- Maintaining a tree advisory committee
- Having a campus tree-care plan
- Dedicating annual expenditures for its campus tree programs
- Holding an Arbor Day observance
- Having a student service-learning project

IUPUI also earned Tree Campus USA recognition in 2012 and 2013.

Steve Stringer, Campus Facility Services manager for grounds services, said Tree Campus recognition was an IUPUI goal established several years ago, and he called the work a group effort involving the Office of Sustainability, the IU Office of University Landscape Architects, Campus Facility Services, Grounds Services, Honors College and students.

Walker is excited to be part of the IUPUI effort, noting that the campus's focus on sustainability and tree-care programs fits well within IUPUI's Strategic Plan goal to contribute to the well-being of the citizens of Indianapolis.

"My internships are immensely helpful in terms of mentoring and career guidance," Walker said. "Being involved with such a wide array of projects and programs helps prepare me for my future. I become more directly involved with IUPUI through immediate, visible results and also gain long-term results for post-graduation."





This team helped plant a new group of trees on campus near West and Michigan streets as part of Keep Indianapolis Beautiful's Adopt-a-Block program. From left: Kathy Hursh of the School of Public and Environmental Affairs; Joe Jarzen of KIB; Sustainability intern Greg Walker; Steve Stringer of Campus Facility Services; Deb Ferguson, associate director of the Office of Sustainability; and Jessica Davis, director of the Office of Sustainability. | PHOTO COURTESY OF THE OFFICE OF SUSTAINABILITY

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