



Trees for Kids and Trees for Teens Grant 2017

INTRODUCTION

Trees for Kids and Trees for Teens are tree education and planting programs targeted to Iowa's elementary and secondary school students. The goal of these programs is to educate students about the value of trees and to encourage tree planting projects at schools and other public areas around the state.

The Trees for Kids and Trees for Teens grant program is sponsored by the Iowa Department of Natural Resources Forestry Bureau, MidAmerican Energy, Black Hills Energy, Alliant Energy, Iowa Bankers Association, Trees Forever, Iowa Tree Farm Committee, and the Iowa Woodland Owners Association.

Trees for Kids and trees for Teens is a competitive grant that awards between \$1,000.00 and \$5,000.00 to qualified tree planting projects on publicly owned property. Grants applications are available semiannually, in the spring and fall. All trees for the Spring grant must be planted by May 31st in the grant year; Fall grant trees must be planted by October 31st in the grant year.

These application instructions are for the Trees for Kids landscape tree grant application. Trees For Kids also provides **no-cost seedling create-a-packets** (200 seedlings) to schools and municipalities at no cost to celebrate Earth Month each year. To receive an Earth Month Seedling Celebration Request Form, email or call the Trees For Kids coordinator at 515-725-8456 or laura.wagner@dnr.iowa.gov

Eligibility Local and State governments (school districts, cities, counties,) and service organizations with 501(c)3 status are eligible. Service organizations lacking 501(c)3 status can attain eligibility by involving local governments in the holding of funds. This program does not require, but encourages matching funds.

- Qualifying public planting areas include, but may not be limited to: street right-of-ways, parks, school grounds, courthouse lawns, public buildings, fairgrounds, cemeteries, libraries, and trails.
- Applicants must show an educational component of the planting
- Youth must be involved in planting
- Tree selection must follow the diversity requirement, and be selected from the Acceptable tree list
- Applications for the Trees for Kids and Trees for Teens program must be completed and e-mailed **by March 1**, in order to be eligible for review for spring planting projects, and **September 1** or fall planting projects. Entities wishing to submit fall planting applications for early acceptance may submit fall planting by March 1st, 2017 and will be notified by March 15, 2017 of award status. Applications received by September 1, 2017, will be notified of award status by September 15th, 2017
- Sections III and IV will be ranked, using the points listed on the application. The grants will be awarded based on receiving highest ranking, and complete applications, until the funds for the season are exhausted.

Trees Species Selection - The Acceptable Tree List (included in this packet) includes the species and varieties of trees suitable for Iowa planting projects. Any deviation from this list must be confirmed with the Program Coordinator. If you are interested in planting edible fruit trees, please contact the Program Coordinator for an approved list. **If using edible landscape trees, please include a description of what use the fruit will be to your organization, and how you will address fallen fruit and maintenance.**

In order to insure future health of our urban forest, diversity of species is required. For any project less than 30 trees, a **maximum of 3 trees of each species is allowed**. For projects over 30 trees, a maximum of 10% per species and 20% per genus is allowed. For example, for 50 total trees, you may have up to 5 Red Maple (*Acer Rubrum*) and up to a total of 10 Maples including Red (*Acer Rubrum*), Sugar Maple (*Acer saccharum*), and Black Maple (*Acer nigrum*). Please insure that the cultivar you select (example: Burgundy Belle is a cultivar of the Red Maple Species) is on the approved list. If you

have questions about species selection, please contact your district forester, or the Grant Coordinator, Laura Wagner at laura.wagner@dnr.iowa.gov or 515-725-8456

Award recipients must purchase all planting stock from an Iowa nursery licensed by the Iowa Department of Agriculture and Land Stewardship. Trees must meet American Nursery Stock Standards. Tree size must meet the minimum standards of 5 – 7 feet, ¾” caliper for deciduous trees for 7 gallon containers (shorter if low growing trees) and 2 – 3 feet for conifers. All trees must be **container grown** stock no larger than 7 gallon pots. Applicants will receive an **additional 15 points if root-pruning container stock** is utilized. Any plantings using **Ball and Burlap stock will not receive grant funding.**

Education Component

Trees for Kids/Trees for Teens has historically created environmental education curriculum for all Iowa teachers to utilize. Beginning in 2012 Trees For Kids/Trees For Teens will be utilizing the nationally recognized Project Learning Tree curriculum. As part of the educational component of the grant, we are requiring that each grant applicant organization **send one educator or curriculum director to a Project Learning Tree training** (at no cost to you) provided by Project Learning Tree and Iowa Department of Natural Resources. Attendees will receive a one or two day training, as well as the national Project Learning Tree Curriculum materials.

Working with your nursery:

The attached nursery notification letter and corresponding acceptable tree list must be given to the participating nursery, signed by the nursery, and submitted with the application. Any species changes made by the nursery without approval by the DNR program coordinator will not be paid for, and will be considered a donation by the nursery to the grant recipient. **Nursery quote with scientific names, along with cultivar names, when applicable, shall be supplied with the grant application. If applicant wishes to receive additional 15 points for utilizing root-pruning stock, then that designation must be indicated on the quote.**

Mulching - All trees must be planted and mulched according to the guidelines set forth for container grown trees in the ISU Extension Community Tree Planting and Care Guide. Mulch shall be applied 2 – 4 inches thick to the drip-line of the tree in a donut shape so that the mulch is not against the trunk of the tree. Grant funding may be utilized to purchase **2 bags of mulch per tree**. Most 7 gallon containerized trees do not benefit from staking, so staking is not required. Cypress mulch and Weed Control mulch will not be allowed. Weed control mulch has pesticides incorporated in the mulch, and is not safe for children to handle. Cypress mulch is made by cutting down cypress swamps, which we do not support. The best mulch for your trees is organic wood “utility” mulch. This can often be obtained for free from utility companies, city forestry departments, or local tree trimming companies.

TECHNICAL INFORMATION

Grant awards for the March 1st submission will be **announced by March 15, 2017**. Grand awards for the September 1 submission will be notified by September 15, 2017 Applicants must submit the original application via e-mail, to Iowa Department of Natural Resources – Forestry, Laura Wagner -Trees for Kids and Teens Coordinator, laura.wagner@dnr.iowa.gov

Application questions may be addressed to the Program Coordinator at 515-725-8456 or laura.wagner@dnr.iowa.gov.

APPLICATION INSTRUCTIONS

Section I: Applicant Information – This section pertains to the organization who will be receiving the funding and purchasing the trees, which may be different than the planting location. Applicants participating in one of the Federal Grants listed in this section will be ranked and awarded separately from all other applicants.

Section II: Project Information – Please list information about the planting location

Descriptive Title of project – Name you are giving the project such as “City Earth Day planting”

State Funding Requested – The amount needs to match the nursery bill plus mulch costs, if separate. This grant only reimburses for trees and mulch.

If building is present at site, year built – If the trees will be planted near a building, please list the year the building was built.

Is building air conditioned – check yes if building is air conditioned, no if not

Is building heated – check yes if building is heated, no if not

Location Name where planting will occur – list name of park, school, or other identifying name for planting location. If multiple locations, list all locations.

Will this tree planting take place on publicly owned land? *Check yes if the land is public, no if not*

Will project take place on K-12 school grounds? Check yes if any portion of the planting will be on school grounds, no if not

Planting site street address, city, state, and zip code: Please list the planting location street address. If multiple locations, list all addresses

Planting contact name: List the name of the individual who will be in charge on the planting day

Planting contact phone: List the phone number for the individual who will be in charge on planting day

Planting Day E-mail: List the e-mail address for the planting day contact

Anticipated planting date and time: Indicate the date and time that students will be planting trees

Rain Date: Indicate the date and time that students will be planting trees should the 1st choice be rained out

Estimated number of youth involved (we recommend 3 – 7 students per tree) Please list the total number of students who will be involved in the tree planting day

Age Range of Youth -Please indicate the grade levels or ages of the youth involved in planting

Estimated number of adults involved in planting (a successful planting day has 1 adult for every 1 – 3 trees being planted, depending upon the age of the youth) – *please indicate the total number of adults who will assist during the planting event*

Section III: Program Elements – This section of the application will receive points for ranking grants for competitive funding.

Tree Planting Elements (30 -45 points) - Complete each question fully. Questions left blank may result in zero points for the Tree Planting Elements

In order to determine if the species diversity is being met, first complete Section V(Tree Species Selection). If you are unsure what a the species or genera of a tree is, feel free to call or e-mail the grant coordinator at 515-725-8456 or laura.wagner@dnr.iowa.gov

In order to determine if all species and cultivars included in your project are on the approved list, please refer the Acceptable tree list. You must receive approval from the grant coordinator to vary from the Acceptable Tree List.

Additional 15 points are available if the nursery is providing stock **grown in root-pruning** containers. Root pruning containers are highly effective in eliminating encircling roots. If applicant is claiming additional 15 point, the nursery invoice must indicate which trees are in root pruning containers. It is not required that 100% of stock be root-pruned in order to receive the additional points.

Please attach a map that clearly shows where each tree is to be planted in relation to the building. You may use your i-tree design map as the map to satisfy this requirement.

Tree Maintenance and educational use (30 points) - Complete each question fully. Questions left blank may result in zero points for this section.

Environmental and Human Benefits (70 Points) In order to complete this section, you must first use the Forest Service Web-based program called [i-tree design](#). Click on the hyperlink or google itree design and follow the instructions on the screen.

- Enter your address and click “go”
- “Check “yes” to calculate the impact of trees on cooling and heating
- Outline your building using the tool as directed – double click when your building is complete
- Answer the questions about your building age and heating and cooling, click ok
- Click on 2. “Place Trees”
- Choose your species, put “1” for tree diameter, and leave tree condition as excellent
- Drag the tree icon to where you want to place that tree
- Repeat for each tree
- When all trees are added, click on 3. “estimate benefits”

- Enter “60” in the “Years:” box and click “Calculate”
- Click on “Save Result” in the upper right-hand corner. . Save this with a file name and in a location your can find. You will attach this file to the e-mail you send with your application
- Next, click on the tab on the left side that says “Total (2015-2074), and the Energy Tab at the top. The information at the top of this page is what you enter into the Kilowatt Hours Conserved and the Heating fuel reduction in Therms.
 - Click on “Print” in the upper right corner, then click save. Save this with a file name and in a location you can find. Attach this file to the e-mail with the application.
- Now, click on “View Report” This is where you locate the Stormwater Runoff Reduction in gallons, and the Atmospheric CO2 reduction in lbs. Hover over the bottom of this page until you see the save icon. . Save this with a file name and in a location your can find. You will attach this file to the e-mail you send with your application
- You are done with I-tree. If you have any problems with this, feel free to call the grant coordinator for assistance. I-tree assistance can also be provided in person at the site visit.

Enter the number of trees this will satisfy each category of human benefits.

Section IV: Narrative – This section of the application will receive points for ranking grants for competitive funding. Write 1 – 3 paragraphs for each question. No more than 3 pages total for this section.

1. Project Description (40 points)
2. Addresses Community Needs (30 points)
3. Measurable Outcomes (40 points)
4. Collaboration (30 points)
5. Professional Assistance (30 points)

Section IV: Tree Species Selection – Use this table to list the quantities of each type of tree. You will list common name, genera, species, cultivar (when applicable), total quantity, and percentage of total. This must match the nursery invoice. The percentage of any one species should never exceed 10%. The percentage of any genera may never exceed 20%. Use the information from the completed table to answer the species diversity requirement question in Section III, Tree Planting elements. Example below:

Common Name	Genera	Species	Cultivar (this will be provided by the nursery, when applicable)	Total quantity	Percentage of total
White Oak	Quercus	alba		5	10%
Red Oak	Quercus	rubra		5	10%
Tuliptree	Liriodendron	tulipifera		5	10%
American Linden	Tilia	Americana	American Sentry	5	10%
Red Maple	Acer	rubrum	Burgundy Belle	5	10%
Hackberry	Celtis	occidentalis		5	10%
White Pine	Pinus	Strobus		5	10%
Edible apple	Malus		Freedom	5	10%
Flowering crabapple	Malus		Royal Raindrops	5	10%
Star Magnolia	Magnolia	Stellate	Royal star	5	10
			Total	50	100

Section VI: Estimated Project costs – Please complete fully. You may only list tree cost and mulch cost in the grant request column. The total for column D should match Section II, State Funding Requested.

Section VII – Required Attachments – Please use this to verify that you are attaching all the required documents. Any application which is submitted without the required attachments will be returned with a request for attachments.

Nursery notification letter, along with other grant documents may be found at:

<http://www.iowadnr.gov/Environment/Forestry/UrbanForestry.aspx>

Section VIII – Certification

Section VII – Iowa Forestry Today. Sign up any maintenance personnel, grant writers, and other staff who will receive Iowa Forestry Today, which is an electronic newsletter which will announce grant and tree workshop opportunities

Section VII – Additional information – We are NOT accepting grant applications in any form other than electronic. Please e-mail your completed application and attachments to laura.wagner@dnr.iowa.gov no later than **by March 1, 2017** in order to be eligible for review for spring planting projects, and **September 1, 2017** for fall planting projects. Entities wishing to submit fall planting applications for early acceptance may submit fall planting by March 1, 2017. For questions, call 515-725-8456

TREES FOR KIDS & TEENS GRANT - ACCEPTABLE TREE LIST			
*This is a statewide list; Species survivability may vary by location.			
	Common Name	Scientific Name	Cultivars/ Selections
SHADE TREES	Black Maple	Acer nigrum	
	Sugar Maple	Acer saccharum	Commemoration , Crescendo , Endowment , Fall Fiesta , Legacy , Green Mountain
	Ohio Buckeye	Aesculus glabra	
	River Birch	Betula nigra	Heritage
	White-barked Birch	Betula populifolia	Whitespire
	Pecan	Carya illinoensis	
	Shellbark Hickory	Carya laciniata	
	Shagbark Hickory	Carya ovata	
	Hackberry	Celtis occidentalis	Chicagoland , Prairie Pride , Windy City
	Katsuratree	Cercidiphyllum japonicum	
	Yellowwood	Cladrastis kentuckea	
	Persimmon	Diosyros virginiana	
	Turkish Filbert	Corylus Colurna	
	Ginkgo (male only)	Ginkgo biloba	Autumn Gold , Golden Colonnade , Halka , Magyar , Presidential Gold , Princeton Sentry
	Thornless Honeylocust	Gleditsia triacanthos	Northern Acclaim , Skyline , Shademaster
	Kentucky Coffeetree	Gymnocladus dioicus	
	Larch	Larix decidua	
	Sweetgum Southern Iowa only	Liquidambar styraciflua	
	Tuliptree	Liriodendron tulipifera	
	Cucumbertree Magnolia	Magnolia acuminata	
	Blackgum Southern Iowa only	Nyssa sylvatica	
	American Hophornbeam	Ostrya virginiana	
	London Planetree	Platanus x acerfolia	Bloodgood , Exclamation
	White Oak	Quercus alba	
	Swamp White Oak	Quercus bicolor	
	Scarlet Oak	quercus coccinea	
	Shingle Oak	Quercus imbricaria	
	Bur Oak	Quercus macrocarpa	
Chinkapin Oak	Quercus muehlenbergii		
Pin Oak	Quercus Palustris		
Northern Red Oak	Quercus rubra		

	Shumard Oak	Quercus Shumardii	
	Sassafras	Sassafras albidum	
	Bald Cypress Southern Iowa only	Taxodium distichum	
	Littleleaf Linden	Tilia Cordata	Glenleven This cultivar only
	American Linden	Tilia americana	Boulevard , Front Yard , Legend , American Sentry
	Silver Linden	Tilia tomentosa	
	American Elm	Ulmas Americana	Jefferson , Princeton , Prairie Expeditions
LOW-GROWING TREES	Serviceberry	Amelanchier spp.	Autumn Brilliance , Cole's Select , Cumulus , Princess Diana , Strata
	American Hornbeam	Carpinus caroliniana	
	Eastern Redbud	Cercis canadensis	
	Pagoda Dogwood	Cornus alternifolia	
	Witch hazel	Hamamelis virginiana	
	Smoketree	Cotinus coggyria	
	Eastern Wahoo	Euonymus atropurpureus	
	Loebner Magnolia	Magnolia x loebneri	Ballerina , Leonard Messell , Merrill , Spring Snow
	Saucer Magnolia	Magnolia x soulangeana	
	Star Magnolia	Magnolia stellata	Centennial , Royal Star
	Flowering Crabapple	Malus spp.	Adirondack , Cardinal , David , Donald Wyman , Doublooms , Floribunda , Golden Raindrops , Harvest Gold , Indian Magic , Louisa , Mary Potter , Purple Prince , Red Jewel , Royal Fountain , Royal Raindrops , Sugar Tyme
	American Plum	Prunus americana	
	Bladdernut	Staphylea trifolia	
Blackhaw Viburnum	Viburnum prunifolium		
Edible	Paw Paw	Asimina triloba	
	Edible Apple	Malus spp	Enterprise , Freedom , Liberty , Macfree , Redfree , Sundance
	Edible Apricot	Prunus armeniaca mandshurica	Moongold , Sungold
	Edible Cherry	Prunus spp	Mesabi , Meteor , Montmorency , Northstar
	Edible Pear	Pyrus spp	Luscious , Patten , Parker , Summercrisp
	Edible Plum	Prunus spp	Toka , Superior , Mount Royal , Stanley , Green Gage , Damson
CONIFERS	White Fir	Abies concolor	
	Dawn Redwood	Metasequoia glyptostroboides	
	Norway Spruce	Picea abies	
	White Spruce	Picea glauca	May not use in windbreak settings due to rhizosphaera needle cast
	Black Hills Spruce	Picea glauca var. densata	May not use in windbreak settings due to rhizosphaera needle cast
	Serbian Spruce	Picea omorika	
	White Pine	Pinus strobus	
	Arborvitae	Thuja occidentalis	
	Eastern Hemlock	Tsuga canadensis	