



Trees for Kids and Trees for Teens Grant—Spring & Fall 2013

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. 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 as well. Grants applications are available semiannually, in the fall and Fall. All trees for the Fall grant must be planted by October 31, 2012

TECHNICAL INFORMATION

Applications for the Trees for Kids and Trees for Teens program must be completed and postmarked, e-mailed, or faxed **by March 1, 2013** in order to be eligible for review. This will enable schools to plan for fall plantings prior to letting out for summer break. Grant awards will be **announced by March 15, 2013**. Applicants need to complete the attached application form, provide a map of the planting location(s) that is no larger than 8 ½ x 11 inches in size, and are allowed up to two (2) additional pages of narrative. Clarity of presentation is recommended. Applicants must submit the original application via postal mail, e-mail, or fax to Iowa Department of Natural Resources – Forestry, Laura Wagner -Trees for Kids and Teens Coordinator, 502 E. 9th Street, Des Moines, Iowa 50319. Application questions may be addressed to the Program Coordinator at 515-281-6749 or laura.wagner@dnr.iowa.gov.

Trees Species Selection - The Acceptable Tree List (see back) includes the species and varieties of trees suitable for Iowa planting projects. Any deviation from this list must be confirmed with the Program Coordinator.

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 515-281-6749.

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. 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. Please list the date of the session your educator will attend on question 13 of the grant application.

Working with your nursery:

The attached nursery notification letter 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

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 up to 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.

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.

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	<i>Acer nigrum</i>	
	Red Maple	<i>Acer rubrum</i>	Burgundy Belle, Red Sunset , Scarlet Jewel, Redpoint , Somerset
	Sugar Maple	<i>Acer saccharum</i>	Commemoration, Crescendo , Endowment , Fall Fiesta , Legacy , Green Mountain
	River Birch	<i>Betula nigra</i>	Heritage
	White-barked Birch	<i>Betula populifolia</i>	Whitespire Sr.
	Hackberry	<i>Celtis occidentalis</i>	Chicagoland , Prairie Pride , Windy City
	Yellowwood	<i>Cladrastis kentuckea</i>	
	Turkish Filbert	<i>Corylus Colurna</i>	
	Ginkgo (male only)	<i>Ginkgo biloba</i>	Autumn Gold , Golden Colonnade , Halka , Magyar , Presidential Gold , Princeton Sentry
	Thornless Honeylocust	<i>Gleditsia triacanthos</i>	Northern Acclaim , Skyline , Shademaster
	Kentucky Coffeetree	<i>Gymnocladus dioicus</i>	
	Larch	<i>Larix decidua</i>	
	Sweetgum S	<i>Liquidambar styraciflua</i>	
	Tuliptree	<i>Liriodendron tulipifera</i>	
	Blackgum	<i>Nyssa slyvatica</i>	
	American Hophornbeam	<i>Ostrya virginiana</i>	
	London Planetree	<i>Platanus x acerfolia</i>	Bloodgood , Exclamation
	White Oak	<i>Quercus alba</i>	
	Swamp White Oak	<i>Quercus bicolor</i>	
	Shingle Oak	<i>Quercus imbricaria</i>	
	Bur Oak	<i>Quercus macrocarpa</i>	
	Chinkapin Oak	<i>Quercus muehlenbergii</i>	
	Pin Oak	<i>Quercus Palustris</i>	
	Northern Red Oak	<i>Quercus rubra</i>	
	Bald Cypress	<i>Taxodium distichum</i>	
	Littleleaf Linden	<i>Tilia Cordata</i>	Glenleven This cultivar only
American Linden	<i>Tilia americana</i>	Boulevard , Front Yard, Legend, American Sentry	
Silver Linden	<i>Tilia tomentosa</i>		
American Elm	<i>Ulmas Americana</i>	Jefferson , Princeton , Prairie Expeditions	
LOW-GROWING TREES	Serviceberry	<i>Amelanchier spp.</i>	Autumn Brilliance , Cole's Select , Cumulus, Princess Diana , Strata
	American Hornbeam	<i>Carpinus caroliniana</i>	
	Eastern Redbud	<i>Cercis canadensis</i>	
	Pagoda Dogwood	<i>Cornus alternifolia</i>	
	Witch hazel	<i>Hamamelis virginiana</i>	
	Flowering Crabapple	<i>Malus spp.</i>	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	<i>Prunus americana</i>	
	Japanese Tree Lilac	<i>Syringa reticulata</i>	Ivory Silk , Summer Snow
CONIFERS	Blackhaw Viburnum	<i>Viburnum prunifolium</i>	
	White Fir	<i>Abies concolor</i>	
	Norway Spruce	<i>Picea abies</i>	
	White Spruce	<i>Picea glauca</i>	
	Black Hills Spruce	<i>Picea glauca var. densata</i>	
	Serbian Spruce	<i>Picea omorika</i>	
	White Pine	<i>Pinus strobus</i>	
	Arborvitae	<i>Thuja occidentalis</i>	
Eastern Hemlock	<i>Tsuga canadensis</i>		

Trees for Kids and Trees for Teens Grant Application Form –

Spring 2013 – Application Due no later than March 1, 2013

Fall 2013 Application Due no later than September 1, 2013

Organization or School Name _____

Planting Location _____

Planting Location Natural Gas Provider _____

Planting Location Electric Utility Provider _____

Contact Person _____

Address (street address required) _____

City _____ State _____ Zip Code _____

Phone (day) _____ Phone (alternate) _____

E-mail _____

Other committee members or volunteers who will assist in planning, planting and caring for your trees

Name _____

Address _____

Phone _____ E-mail _____

Name _____

Address _____

Phone _____ E-mail _____

Name _____

Address _____

Phone _____ E-mail _____

Federal Identification Number/EIN# _____

Number of Trees to be planted _____

Grant Amount Requested \$ _____ (between \$1,000 and \$5,000)

Matching Funds \$ _____

*If matching funds please state the possible funding source(s)

Total Cost of Project \$ _____

Anticipated planting date _____

Anticipated Rain Date _____

APPLICATION RANKING CRITERIA

Applications postmarked will be reviewed on a 1,000-point scoring system by a committee approved by the State Forester of the Iowa Department of Natural Resources. Point values have been assigned to the various sections of the application as indicated below. Applicants will receive notification of acceptance or deferral by mail in March 2012 or September of 2011, for Fall and fall plantings

- | | |
|---|---------------|
| 1. Planting project takes place on publicly owned property | REQUIRED |
| 2. Planting Project takes place on K-12 school grounds | Additional \$ |
| 3. Thorough description of the tree planting needs | max. 100 pts. |
| 4. Environmental impact/Energy Efficiency | max. 100 pts |
| 5. Thorough description of the type of trees for the planting project | max. 100 pts. |
| 6. A detailed and specific budget for this tree planting project | max. 100 pts. |
| 7. A site map clearly showing the location of each tree being planted | max. 100 pts. |
| 8. List of names of the professionals who assisted in project design | max. 100 pts. |
| 9. List of Iowa businesses/service groups who will participate | max. 75 pts. |
| 10. Description of the five-year tree maintenance plan | max. 100 pts. |
| 11. List of Environmental education programs | max. 50 pts. |
| 12. Describe the need for outdoor education | max. 75 pts. |
| 13. Describe the educational component of the planting* required | max. 100pts |
| 14. Identify who will administer project funds (both grant and match) | REQUIRED |
| 15. Signature of the grant applicant* required | REQUIRED |
| 16. Thorough and complete application (original plus 2 photocopies) | REQUIRED |

Answer the following questions in the space provided (use additional pages if necessary). Additional sheets must not exceed two (2) pages in length, excluding the required site map (no larger than 8 ½ x 11 inches).

1. Will this tree planting project take place on publicly owned land? Yes No
(all tree planting projects must occur on publicly owned land to be eligible for the Trees for Kids and Trees for Teens funding)
2. Will this tree planting project take place on K - 12 school grounds?* Yes No
3. Describe the tree planting needs of your selected planting area. This can include energy and natural resource conservation, public health, the past impacts of natural disasters, and any other economic, social or environmentally related issues. (100 max. pts.)

4. **Environmental and Human benefits** – Describe the environmental benefits of your project. How many trees and which species will be planted? Will there be energy-efficiency benefits from windbreaks? Will the trees provide shade to a needed area? Will your planting prevent soil erosion? (100 max. pts.) Specifically, please list how many trees will provide the following benefits, as well as a short narrative:

Put the number of trees in the line next to each benefit:

_____Energy Efficiency (15 pts): Shade trees planted within 10 – 30 feet of building on east or west side

_____Energy Efficiency (10 pts): Windbreak – conifer trees on North and West side of building. Planted at 2 – 5 times the mature height of trees (100 – 400 feet) from building

_____Energy Efficiency (10 pts): Reduce heat island effect: Trees planted to shade large areas of concrete (within 10 – 30 feet)

_____Human Benefits (15 pts): View from classroom windows

_____Human Benefits (15 pts): Shade playground or walking/biking path

_____Human Benefits (15 pts): Outdoor Learning Center or Arboretum

_____Water quality, air quality (10 pts)

_____Mitigate soil erosion problems or flash flood events (10 pts)

5. Explain where the trees will be planted, the numbers of each tree species (maximum 3 of the same species) that will be planted, and the size of trees that will be planted. For projects over 30 trees, a maximum of 10% per species and 20% per genus is allowed. You are **required** to use **containerized** trees no larger than 7 gallon pots, that are a minimum 5 – 7 feet tall for deciduous trees (#7 container) and 2 – 4 feet tall for conifers. For qualifying trees, refer to the attached Acceptable Tree List on page (max. 100 pts.). **No ball and burlap trees are allowed. This grant program is designed to give hands on education to students, and B&B stock is too large for children to handle safely.**

6. Provide an itemized project budget detailing the use of Trees for Kids and Trees for Teens funds and the use of any matching funds (encouraged but not required). Matching funds can include, but are not limited to, cash donations, and other grants. Trees for Kids and Trees for Teens funds can only be used to purchase trees. Qualifying matching costs include purchasing additional trees, shrubs, and other vegetation for the project, paid labor and equipment for planting large trees (such as a tree spade and operator), and purchasing supplies such as mulch, stakes, etc. related to this project. Please list the amounts and sources of all matching funds (max. 100 pts.) **Please attach a copy of the nursery quote with species and cultivar names, size, pricing and totals to this application.**

Item	Trees for Kids and Teens funds	Matching funds	Source
Tree purchases	\$	\$	
Mulch purchases	\$		
Other plant purchases		\$	
Planting costs		\$	
Planting supplies		\$	
Other costs (identify)		\$	
Total Cost	\$	\$	

7. Attach a site map clearly showing the proposed tree planting project. Be specific. Show the location of where the trees will be planted so that someone unfamiliar with your community could find the project easily. Attached maps must not exceed 8 ½ x 11 inches in size. Emphasis will be given to projects where consultation has been made with a DNR forester. Contact information is available at <http://www.iowadnr.gov/forestry/district.html> (max. 100 pts.)

8. Provide the name(s) of the professional (i.e., Certified Arborist, Registered Landscape Architect, Iowa Nursery and Landscape Association Certified Professional, or DNR and/or Professional Forester) who assisted in project design. (max. 100 pts.)

9. List all the Iowa businesses you will use to supply trees and planting materials, as well as the service groups that may assist in planting. Please list the nursery name, address, phone, and e-mail. (max. 75 pts.)

10. Describe the commitment and methods of the tree maintenance plan for use after tree planting and over the next five (5) years. Specifically who and how (buckets, hose?) will watering occur at the rate of 10 gallons every 10 days (when rainfall hasn't been received) for each tree. How will you involve youth in the care of the trees? Describe what will be done and who will be responsible for ongoing maintenance. (max.100 pts.)

11. In the past year has your school or organization used environmental education materials (such as Trees for Kids or Trees for Teens, National Arbor Day Foundation Materials, Project Learning Tree, and Project WILD and WILD Aquatic). (max. 50 pts.) Yes No
 If yes please list the name of the program or lesson plans.

12. Describe the need for outdoor education and the future educational use of the planting site. (max. 75 pts.)

13. Describe the educational component to your project such as a planting demonstration or a discussion on the benefits of trees. How will you include youth in the tree planting? (100 pts)(all tree planting projects must include an educational component to be eligible for the Trees for Kids and Trees for Teens funding)

Please list the date that you have, or plan to, sent an educator to a Project Learning Tree Training. For more information on PLT training, please contact laura.wagner@dnr.iowa.gov :

_____ Winter 2012-2013 (date and location to be announced)

_____ Summer 2013 (date and location to be announced)

14. Provide the name of the school or organization that will hold and administer the Trees for Kids and Trees for Teens funds for this project. Service organizations that do not have 501(c)3 status must partner with a local agency that does administer project funds. (**Required** – The name of the organization must match the federal ID)

15. Signature of the main contact person for the grant application and signature of the person responsible for managing the property. **Required**

Main Contact Signature _____ Title _____

Print Name _____ Date _____

Property Manager Signature _____ Title _____

Print Name _____ Date _____

16. Return this application via postal mail, e-,mail, or fax with Nursery Quote, nursery notification letter, and map showing proposed tree locations to:

Iowa Department of Natural Resources - Forestry

Laura Wagner

Trees for Kids and Teens Coordinator

502 E. 9th Street

Des Moines, Iowa 50319

515-281-8895 Fax

Laura.wagner@dnr.iowa.gov

POSTMARK DEADLINE: March 15, 2012 for Fall 2012

Trees For Kids/Trees For Teens Grant

Nursery Notification Letter

The following entity _____ (*Grant Applicant*) is partnering with the Iowa Department of Natural Resources Forestry Bureau to plant containerized landscape trees with grant funding. The grant recipient will purchase the trees directly from a retail nursery, without being required to get competitive bids. Please provide a quote, using #7 container grown species on the acceptable tree list. All of the trees must meet the following specifications:

Tree size must meet the minimum standards of 5 – 7 feet, 3/4" caliper for deciduous trees (shorter if low growing trees) and 2 – 3 feet for conifers. All trees must be container grown stock no larger than 7 gallon pots. Nursery quote with scientific names, along with cultivar names, when applicable, are required. Any species/cultivar delivered which are not on the acceptable tree list, which are not approved by the DNR Trees For Kids coordinator will be considered a donation to the grant recipient by the nursery. Any plantings using Ball and Burlap stock will not receive grant funding.

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 the Grant Coordinator, Laura Wagner at laura.wagner@dnr.iowa.gov or 515-281-6749.

If you are interested in supplying trees to this grant recipient, please sign that you understand the conditions of the grant terms, and will not make size or species substitutions without prior approval by the DNR coordinator. If you have any questions, please contact the Trees For Kids Coordinator, Laura Wagner, at 515-281-6749 or laura.wagner@dnr.iowa.gov

Signature, Title

Date

Nursery Phone _____

Nursery E-mail _____

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
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	River Birch	<i>Betula nigra</i>	Heritage
	White-barked Birch	<i>Betula populifolia</i>	Whitespire Sr.
	Hackberry	<i>Celtis occidentalis</i>	Chicagoland , Prairie Pride , Windy City
	Yellowwood	<i>Cladrastis kentuckea</i>	
	Turkish Filbert	<i>Corylus Colurna</i>	
	Ginkgo (male only)	<i>Ginkgo biloba</i>	Autumn Gold , Golden Colonnade , Halka , Magyar , Presidential Gold , Princeton Sentry
	Thornless Honeylocust	<i>Gleditsia triacanthos</i>	Northern Acclaim , Skyline , Shademaster
	Kentucky Coffeetree	<i>Gymnocladus dioicus</i>	
	Larch	<i>Larix decidua</i>	
	Sweetgum S	<i>Liquidambar styraciflua</i>	
	Tuliptree	<i>Liriodendron tulipifera</i>	
	Blackgum	<i>Nyssa sylvatica</i>	
	American Hophornbeam	<i>Ostrya virginiana</i>	
	London Planetree	<i>Platanus x acerfolia</i>	Bloodgood , Exclamation
	White Oak	<i>Quercus alba</i>	
	Swamp White Oak	<i>Quercus bicolor</i>	
	Shingle Oak	<i>Quercus imbricaria</i>	
	Bur Oak	<i>Quercus macrocarpa</i>	
	Chinkapin Oak	<i>Quercus muehlenbergii</i>	
	Pin Oak	<i>Quercus Palustris</i>	
	Northern Red Oak	<i>Quercus rubra</i>	
	Bald Cypress	<i>Taxodium distichum</i>	
	Littleleaf Linden	<i>Tilia Cordata</i>	Glenleven This cultivar only
American Linden	<i>Tilia americana</i>	Boulevard , Front Yard, Legend, American Sentry	
Silver Linden	<i>Tilia tomentosa</i>		
American Elm	<i>Ulmas Americana</i>	Jefferson , Princeton , Prairie Expeditions	
Zelkova S	<i>Zelkova serrata</i>	Autumn Glow, Green Vase , Halka , Fall Grove, Village Green	
LOW-GROWING TREES	Serviceberry	<i>Amelanchier spp.</i>	Autumn Brilliance , Cole's Select , Cumulus, Princess Diana , Strata
	American Hornbeam	<i>Carpinus caroliniana</i>	
	Eastern Redbud	<i>Cercis canadensis</i>	
	Pagoda Dogwood	<i>Cornus alternifolia</i>	
	Witch hazel	<i>Hamamelis virginiana</i>	
	Flowering Crabapple	<i>Malus spp.</i>	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	<i>Prunus americana</i>	
	Japanese Tree Lilac	<i>Syringa reticulata</i>	Ivory Silk , Summer Snow
Blackhaw Viburnum	<i>Viburnum prunifolium</i>		
CONIFERS	White Fir	<i>Abies concolor</i>	
	Norway Spruce	<i>Picea abies</i>	
	White Spruce	<i>Picea glauca</i>	
	Black Hills Spruce	<i>Picea glauca var. densata</i>	
	Serbian Spruce	<i>Picea omorika</i>	
	White Pine	<i>Pinus strobus</i>	
	Arborvitae	<i>Thuja occidentalis</i>	
Eastern Hemlock	<i>Tsuga canadensis</i>		