

# University of Nebraska Medical Center Tree Campus USA 2014 Application



 Arbor Day Foundation™

 **TREE**  
**CAMPUS**  
**USA®**



**UNMC<sup>SM</sup>**  
**BREAKTHROUGHS FOR LIFE.®**

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## Standard 1 – Campus Tree Advisory Committee

A Campus Tree Advisory Committee is established and meets regularly. The committee is comprised of members representing the diverse audience with a stake in campus trees. UNMC committee members are responsible for maintaining Tree Campus Certification for the campus.

The Tree Advisory Committee is comprised of the following persons with roles as noted.

Member type	Name	College Position	Committee Role	Email and Phone
Facilities	Tom Payne	UNMC Grounds Supervisor	Tree care plan implementation, Expert advice	<a href="mailto:tpayne@unmc.edu">tpayne@unmc.edu</a> 402-559-4050
Faculty	Shannon Boerner	Physician, Assistant Professor	Advice, Service Learning Project	<a href="mailto:sboerner@unmc.edu">sboerner@unmc.edu</a> 402-559-7502
Student	Jannah Obaid	Graduate Student	Service Learning project	<a href="mailto:jannah.obaid@unmc.edu">jannah.obaid@unmc.edu</a>
Student	Li Westman	Graduate Student	Service Learning project	<a href="mailto:li.westman@unmc.edu">li.westman@unmc.edu</a>
Community	Graham Herbst	Community Forestry Specialist – Eastern Nebraska	Tree care plan implementation, Expert advice	<a href="mailto:g Herbst2@unl.edu">g Herbst2@unl.edu</a> 402-444-7875
LiveGreen	Julie Sommer	Research Resources Manager, Live Green volunteer	Documentation, Coordination, Service Learning Project, Arbor Day Observance	<a href="mailto:julie.sommer@unmc.edu">julie.sommer@unmc.edu</a> 402-559-7977
LiveGreen	Melanie Stewart	Live Green Chair, Manager of Sustainability	Service Learning Project, Arbor Day Observance	<a href="mailto:mlstewart@unmc.edu">mlstewart@unmc.edu</a> 402-559-3231

## Meeting Minutes

### **UNMC Tree Campus USA Committee Meeting Minutes**

#### **First Meeting**

**DRC atrium 12:00-1:00**

**9Sept2014**

**Present at the meeting: Tom Payne, Li Westman, Jannah Obaid, Graham Herbst, Julie Sommer, and Melanie Stewart**

1. Introductions and establishment of committee members and roles
2. Description of the tree campus USA standards for certification
  - a. Standard 1 – Form a committee...complete.
  - b. Standard 2 – Campus Tree care plan
  - c. Standard 3 – Dedicated annual expenditures for Campus Tree Care program
  - d. Standard 4 – Arbor Day observance (Earth day/Arbor Day celebration documented)
  - e. Standard 5 – Service Learning project (transplantation of 8 trees across campus)
3. Standard 2 – Campus Tree care plan
  - a. Unchanged, we will read over as a group and make edits as necessary
4. Standard 3 – Dedicated annual expenditures for Campus Tree Care program
  - a. Tom will work with Facilities accountants to provide this info
5. Standard 4 – Arbor Day observance
  - a. Gather the photos and media coverage of the UNMC Earth day activities and Arbor day celebration
6. Standard 5 – Service Learning project
  - a. Several Ideas discussed

### **Action Items**

<b>Action</b>	<b>Committee member</b>	<b>Due date</b>
Get the 2013 Tree Care Plan to the committee to read through	Julie	As soon as possible
Evaluate the Campus Tree Care Program Expenditure Worksheet regarding the feasibility of utilizing Tom's information for our application	Tom and anyone he would like to help him with that task.	Next meeting
Find volunteers to do Service Learning Project	Li and Jannah will reach out to all students	Next meeting
Get a tree spade in place soon....Winter is coming!	Tom	Next meeting

## UNMC Tree Campus USA Committee Meeting Minutes

DRC atrium and tour around campus for Tree relocation areas 12:00-1:00

19Sept2014

Committee members present: Tom Payne, Julie Sommer, and Melanie Stewart

1. Service Learning Project Update
  - a. Tom has the tree spade available
2. Go over blank application to see if all information is ready
  - a. Examining the application we still need the following information
  - b. Number of trees planted for 2014
  - c. Number of trees pruned for 2014
  - d. Number of trees removed for 2014 (incl. reason i.e. storm)
  - e. Full time student population
  - f. Goal and Targets-the application suggest we develop at least one goal and one target. Include how goal will be measured.

### Action Items

Action	Committee member	Due date
Get Tree Care Expenditures	Tom	By December
Break down the Tree Care expenditures on the Worksheet	Tom	Next meeting
Tell Julie ANY opportunity to take pictures of tree moving, planting, etc	Tom/Melanie	Ongoing
Find the following data for 2013; 1) # trees planted, 2) # trees pruned, 3) # trees removed (including reason)	Tom	By December
Think about the specific "Goals and Targets" for our application. The requirement is one of each.	All	Julie will compile the ideas for us to pick at next meeting
Identify when the tree spade will be available for the SLP	Tom	ASAP
Contact LiveGreen committee to ask for volunteers for the Service Learning Project on October 28 <sup>th</sup> at beginning at 9am	Melanie	ASAP

## UNMC Tree Campus USA Committee Meeting

DRC atrium 12:00-1:00

14Nov2014

Committee members present; Julie Sommer, Melanie Stewart, Li Westman

1. Go over blank application to see if all information is ready
  - a. Examine the application and determine what is needed.
  - b. Goal and Targets-the application suggest we develop at least one goal and one target. Include how goal will be measured.

### Action Items

Action	Committee member	Due date
Think about 1 goal and target for the recertification application.	ALL	Before next meeting
Start gathering all	Julie	As soon as possible

### UNMC Tree Campus USA Committee Meeting

**DRC atrium 12:00-1:00**

**2Dec2014**

**Committee members present; Julie and Melanie**

1. Goals and Targets

### Action Items

Action	Committee member	Due date
Collect all media and pictures from Arbor Day observances and Service Learning Project to add to the application.	Julie	As soon as possible
Contact LiveGreen committee to ask for volunteers for the Service Learning Project on Friday October 4 <sup>th</sup> at 9:15am	Melanie	As soon as possible
Updates on last year's Goals and Targets for next meeting	Tom	12/12/2014

### UNMC Tree Campus USA Committee Meeting

**DRC atrium 12:00-1:00**

**12Dec2014**

**Committee members present; Julie, Tom and Melanie**

1. Collect all expenditures and tree data for 2014 from Tom
2. Finalize Goals and Targets
3. Report on the Progress of last year's goals

### Action Items

Action	Committee member	Due date
Finalize the application and standards	Julie	12/19/2014
Get the Chancellor's signature on application	Julie	12/19/2014



## Standard 2 – Campus Tree Care Plan

This Campus Tree Care Plan is a flexible plan which strives to fit the needs and circumstances of the University of Nebraska Medical Center Campus. The Tree Care Plan is goal oriented and provides policies and guidance for planting, maintaining, and removing trees. It also provides education to the campus community, citizens, contractors, and consultants about the importance of the campus forest and the protection and maintenance of trees as part of the growth and land development process.

1. **PURPOSE:** To facilitate tree care on the University of Nebraska Medical Center Campus.
2. **RESPONSIBLE AUTHORITY OR DEPARTMENT:** Facilities, Management & Planning, Unit of Business & Finance
3. **ADVISORY COMMITTEE:**  
Julie Sommer, MS, UNMC Research Resources Manager and LiveGreen volunteer  
Melanie Stewart, MPA, UNMC LiveGreen Chair and Manager of Sustainability  
Shannon Boerner, MD, UNMC Faculty  
Li Westman, UNMC student  
Jannah Obaid, UNMC student  
Tom Payne, UNMC Grounds Supervisor and certified arborist  
Graham Herbst, Nebraska Forest Service, Community Forestry Specialist and certified arborist
4. **CAMPUS TREE CARE POLICIES:**  
Campus tree care policies include planting, landscaping, maintenance and removal including a list of recommended and prohibited species, and managing catastrophic events.

### Planting

UNMC follows American National Standards Institute ANSI A300.

A300 covers the following topics:

- Part 1 – Pruning
- Part 2 – Soil Management
- Part 3 – Supplemental Support Systems
- Part 4 – Lightning Protection Systems
- Part 5 – Management
- Part 6 – Transplanting
- Part 7 – Integrated Vegetation Management
- Part 8 – N/A
- Part 9 – Tree Risk Management
- Part 10 – Integrated Pest Management

## Tree Planting Guidelines:

### **Part 1 – General**

#### *1.1 Description*

- A. In event of conflict between quantities of plants indicated on drawings and in plant list, plant list will govern.

#### *1.2 Quality Assurance*

- A. Nursery stock standard: “American Standard for Nursery Stock,” ANSI-Z60.1.
- B. Work performed by qualified nurseryman or landscape contractor.
- C. Qualifications of pruners: Experienced plantsmen.

#### *1.3 Submittals*

- A. Product Data:
  - 1. Manufacturer’s specifications
- B. Samples:
  - 1. Organic Mulch: 1/2 lb of each type.
- C. Project Information:
  - 1. Notify Architect of plant material delivery schedule in advance so that it may be inspected on-site prior to installation.
- D. Contract Closeout Information:
  - 1. Warranty
  - 2. Maintenance data.

#### *1.4 Product delivery, Storage, and Handling*

- A. Handle plants at all times so that roots or balls are adequately protected from breakage of balls and drying winds.
- B. Plants with dried out tops or roots will be rejected.

#### *1.5 Job Conditions*

- A. Protect existing improvements and trees.
  - 1. Repair or replace damaged items.
- B. Protect completed work.
- C. Verify location and existence of underground utilities.
  - 1. Protect existing utilities from damage due to construction activity.
  - 2. Repair damage to utility items.
  - 3. Coordinate work with installation of irrigation system.
- D. If plant locations conflict with existing improvements, Landscape Architect will select other locations.
  - 1. Make changes at no extra cost.
  - 2. Do not change location of plants without permission of Architect.



3. Where tree locations fall under existing overhead wires, or crowd existing trees, adjust locations as directed by Landscape Architect.
- E. Planting times.
  1. Do not plant when ground is frozen or temperature is below 32° F

#### *1.6 Warranty*

- A. Remove and replace new plants supplied, which are impaired, dead or dying during 1 year from initial acceptance.
- B. Replacement materials and methods identical to original.
- C. Plants replaced under warranty will not have a second warranty, except as stated in paragraph D below.
- D. If fall-planted material is dead or dying in the spring, replace material during that spring season. If said plants fail again during growing season, replace again in the fall. Every plant must leaf out and be in a healthy condition at beginning of growing season.

### **Part 2 – Products**

#### *2.1 Materials*

- A. Plant materials:
  1. Species and size indicated.
    - a. No substitutions without written approval of Architect
  2. Sound, healthy, vigorous, with normal top and root systems.
  3. Free from diseases, insect pests or their eggs.
  4. Nursery grown stock, freshly dug.
  5. No heeled-in, cold storage or collected stock.
  6. Grown in same or colder climatic zone as project
    - b. Trees:
      1. Single leader, straight trunk (unless otherwise indicated in plant list).
      2. Well branched, free of branches up to 5 ft. high (unless otherwise indicated in plant list).
      3. Symmetrical growth.
- C. Balled and burlapped plants (B & B): Firm, natural balls of soil wrapped with burlap or strong cloth and tied.
- D. Container grown plants (CG):
  1. Roots well established in soil, but not root bound.
  2. Grown in container for at least one growing season.
- E. Planting soil:
  1. Use soil excavated from planting pit.
  2. Modify soil, if needed, with sand and/or peat moss.
- F. Organic Mulch: Double shredded hardwood of approved commercial grade.
- G. Inert Mulch:
  1. Rock: Round, washed river rock; 1-1/2 to 2 inches in size.

- H. Peat moss: Finely shredded sphagnum or fibrous peat moss of an approved commercial grade; free from woody substances.
- I. Sand: Clean and free of toxic materials, ASTM-C33.
- J. Compost: humus rich type derived from the decomposition of leaves and yard wastes. Animal or poultry manure, at any stage of decomposition is not acceptable. Texture should be similar to shredded peat.
- K. Need barrier: Non-woven, geotextile fabric.
- L. Metal edging: Steel edging: 1/8 x 4 in., 16 in tapered steel stakes, painted black.
- M. Tree stakes: 2 x 4 x 30 in. wood stakes;
- N. Tree staking straps.
- O. Water for planting purposes:
  - 1. Supplied by Owner.
  - 2. Provide equipment necessary to transport water from source to required locations.
  - 3. Do not waste water.
- P. Anti-desiccant: emulsion that will provide a film over plant surfaces permeable enough to permit transpiration.
- Q. Flagging: White surveyor's tape.

## *2.2 Plant List*

See list of Non-Recommended Species on page 15.



## Part 3 – Execution

### 3.1 Preparation

- A. Immediately heel-in or plant bare root material.

### 3.2 Planting Procedure

- A. Layout: Stake all plant material locations and layout bed lines prior to beginning installation. Landscape Architect may approve layout or make adjustments to plant material locations to meet field conditions.
- B. Excavate materials without additional cost.
- C. Loosen bottom of pits prior to planting.
- D. Tree and shrub pits:
  - 1. Circular, with vertical sides.
  - 2. At least 12 in. greater in diameter than ball diameter.
  - 3. Sufficient depth to provide 6 inches of planting soil under ball when set to natural grade.
- E. Set plants straight or plumb, at such level that after settlement they bear same relationship to finished grade as they did in their former setting.
  - 1. Remove burlap, rope, wires, etc., from entire ball.
- F. Backfill plants with planting soil.
  - 1. Tamp under and around balls to eliminate voids.
  - 2. Tamp to one-half depth of pit and thoroughly water and puddle before backfilling to proper grade.
  - 3. After planting has been completed, flood pit again so that backfill is thoroughly saturated and settled.
- G. After planting is complete, form saucer 3 inches high around each plant extending to limit of plant pit using existing soil.
- H. Mulching:
  - 1. Mulch tree planting pit after saucer has been shaped to depth of 3 in. with organic mulch.
  - 2. In massed plantings, mulch entire area uniformly to depth of 2 in. with organic mulch.
  - 3. Mulch uniformly over groundcover beds to depth of 2 in. with organic mulch.
  - 4. If mulching is delayed and soil has dried out, water plants thoroughly before spreading mulch.
- I. Staking:
  - 1. Stake trees immediately after planting.
  - 2. Set stakes securely at an angle.
  - 3. Install flagging on each wire.
  - 4. For deciduous trees 3 inches and larger: Three stakes spaced equilaterally around tree.
  - 5. For deciduous trees 3 inches and smaller and evergreen trees: Two stakes spaced opposite sides of tree.
  - 6. Provide rubber hose around trunk; one for each wire.

7. Attach wire from stake to hose and secure.
- J. Pruning:
  1. Remove only dead or damaged branches.
- K. Metal edging: Install edging in accordance with manufacturer's recommendations and as indicated on drawings. Keep top of edging flush with grass, walks, or curbs.

### *3.3 Inert Mulch Areas*

- A. In areas to receive inert mulch, apply herbicide in accord with manufacturer's recommendations.
- B. Cover areas with weed barrier.
- C. Overlap edges minimum 6 inches.
- D. Install 2-1/2 inch uniform layer of inert mulch. Recess area so that top of rock is flush with grass, walks or curbs.

### *3.4 Clean Up*

- A. Remove debris and waste materials, and excess earth materials.
- B. Re-sod any damaged turf areas.

### *3.5 Review for Initial Acceptance*

- A. At end of each planting season, Landscape Architect will review and record acceptability of plant material.
- B. Payment for completed work will be based only on acceptable plant materials and workmanship.

### *3.6 Maintenance*

- A. Maintain new and transplanted materials for one year from initial acceptance.
  1. Water when necessary.
  2. Remove dead or dying branches, and sprouts.
  3. Tighten, repair or replace tree stakes and wrapping.
  4. Maintain mulch depth.
  5. Weed plant beds and pits.

### **List of Recommended Tree Species:**

We accept all species of trees, except those noted on the non-recommended species list below.

### **List of Non-Recommended Species:**

The following list of prohibited species includes trees with: thorns, fruit and seeds, weak-wood, profuse suckering, and trees with a high amount of diseases and pests. This list is written with the acknowledgement that the designer will consider site-specific conditions.

*Acer negundo* Box-Elder  
*Acer saccharinum* Silver Maple  
*Ailanthus altissima* Tree-of-Heaven  
*Carya L.* Hickory  
*Eleagnus Angustifolia* Russian olive  
*Fraxinus, ssp* Ash species  
*Ginkgo biloba* Female Ginkgo  
*Maclura pomifera* Osage-Orange  
*Morus L.* Mulberry  
*Pinus L.* Pine  
*x. Pinus sylvestris* Scotch Pine  
*x. Pinus nigra* Austrian Pine  
*Populus L.* Poplar  
*Prunus L.* Cherry  
*Rhamnus cathartica* Buckthorn  
*Salix L.* Willow

### **Management for Catastrophic Events**

In the event of severe weather conditions such as tornadoes, thunderstorms, or ice, falling trees will be removed by UNMC Facilities grounds crew or an outside tree removal company. Roads and streets shall be cleared first, then access to patient areas, research and education areas. In the advance of severe weather conditions, all necessary equipment shall be checked for readiness and safety by staff.



## 5. PROTECTION

### Preservation Policies and Procedures

The following Protection and Preservation policies and procedures shall apply to all UNMC projects.

#### Soil Management

##### SITE EXCAVATION AND ROUGH GRADING

- A. Furnish all labor, materials, tools, equipment, and services for Site Excavation and Rough Grading, as indicated, in accordance with provisions of contract documents
- B. Definitions
  - 1. Unsuitable material: Debris and/or soil material judged unsuitable by Engineer for support of slabs or other site improvements.
  - 2. Engineer: Soils Engineer employed by owner, empowered to conduct inspections and make approvals.
- C. Completely coordinate with work of other trades.

##### EXTRA WORK

- A. Removal and replacement of unsuitable material below existing foundations will be paid for as extra work.
  - 1. Notify owner's agent in time to have Engineer measure and record quantity removed.
  - 2. Recorded quantity will be basis for payment.
  - 3. Include unit price per cubic yard on Bid Form.

##### QUALITY ASSURANCE

- A. Compaction density test:
  - 1. Standard Proctor, ATSM-D698.
- B. Layout work by Surveyor or Civil Engineer registered in the State of Nebraska.
- C. Owner will hire an independent soils laboratory to conduct in place moisture and density tests. Contractor to pay for retests of material not passing initial tests.
- D. Tolerances of sub-grade:
  - 1. Unsurfaced areas: Plus/minus 0.10 ft. from required elevations.
  - 2. Paved areas: Plus/minus 0.08 ft. from required elevations.

##### JOB CONDITIONS

- A. Protect existing facilities, utilities (overhead and underground), sidewalks, and pavement.
  - 1. Repair damaged items.
  - 2. Cost of repair to items not indicated paid by owner.
  - 3. Notify owner and make emergency repair as directed.
- B. Protect graded areas against erosion.
  - 1. Re-establish grade where settlement or washing occurs at no extra cost.



## MATERIALS

### A. Fill materials:

1. Reasonably free of roots, organic material, trash, frozen matter, and stones larger than 4 in.
2. Add water to dry material, as required.
3. Allow wet material to dry, as required.

## **Construction and Trenching Process**

Temporary construction fencing: used for all trees to be preserved in a construction site out to drip line of tree. This will help to protect the trunk and root systems and reduce the potential for damage from heavy equipment and trucks. Wood or chain link 4' fencing is suitable.

Root raking: shall not be used within the drip line of trees that are to be saved.

Parked vehicles, equipment, and materials: No equipment or vehicle shall be parked or construction material stored, or substances poured or disposed of or placed within any tree drip line.

Site work: shall be planned and conducted in a manner that will minimize damage to protected trees from environmental changes such as altered site drainage or any other land disturbance within or immediately adjacent to the critical root zone of the tree.

Trenching/tunneling: when digging a trench near a tree, tunnel whenever possible. Drilling single holes as opposed to cutting deep trenches saves many critical roots. For all digging operations, exposed roots will be cut cleanly to promote quick wound closure. Vibratory plows, chain trenchers, and hand tools do a better job at this than bulldozers and backhoes. Minimize damage by avoiding excavation during hot, dry weather. Cover exposed roots with soil, mulch, or damp burlap as soon as possible. Consolidate utilities into a common trench where possible. Often it is possible to run several utilities in a common trench, minimizing the number of trenches and root cuts.

Tree staking: should only be performed when necessary and never done in a way that rigidly limits tree's ability to sway in the wind and develop taper or with materials that could girdle the tree if left unaddressed. Staking of trees is meant to prevent rotation of root ball in ground, not to prevent canopy from moving.

Fertilization and Pest Management: Trees are treated for pest problems as needed. There is no regular tree fertilization beyond treatment received as a result of fall lawn fertilization. Specimen or high-value trees may receive prescription fertilization when severe nutrient deficiencies are diagnosed.

## 6. GOALS AND TARGETS

The primary goal for the Campus Tree Plan for the 2013 application was to ensure adequate maintenance of the campus-wide tree inventory. This included updating all new plantings, moves, and any removal, as well as allowing for notes to be made about tree health and history. At this time the campus tree inventory is 75% complete. Each tree has been designated as a number on an excel spreadsheet. The number has also been added to an interactive campus map. This year we hope to complete the database and map so that it can be shared with the Grounds department, landscape architects, new construction managers, LiveGreen (the campus sustainability initiative), and the general public on the UNMC website. Maintaining this list will enable UNMC to better assess the trees on campus, which will lead to the accomplishment of other goals, the most paramount of which is to maintain an appropriate amount of green space on campus. In 2014, we strive to make the campus and surrounding businesses and communities aware of our commitment to being a Tree Campus USA and UNMC's mission is to improve the health of Nebraska, and having adequate green space with healthy trees is part of that mission. Not only do trees help to purify the air, they help to create spaces that are beautiful, relaxing, restorative, and ultimately healing for employees, students, visitors, and patients.

The campus tree plan and inventory will also allow UNMC to maintain and enhance the campus image, keep sufficient records of tree history for maintenance and planning purposes, maintain and improve visibility under and around trees to reduce risk to pedestrians, vehicles and the trees themselves, and preservation of mature, healthy trees.

Goals will be measured by:

- Completion of the campus tree inventory
- Increasing the amount of information available on campus trees to employees, students, and visitors through LiveGreen
- Maintaining or increasing the amount of tree canopy on campus
- Maintaining or increasing access to green space with trees

## 7. TREE DAMAGE ASSESSMENT

### Enforcement, penalties, and appeals

Damaged trees on UNMC campus shall be assessed by a certified arborist. Results from the evaluation will determine whether the tree should be removed, pruned or receive treatment such as fertilization, and insect/disease control. Removed trees will be updated on the proposed tree inventory list.

If it is determined that violation of this procedure has occurred, the Facilities representative or designee will issue notice to the person, company, or department in violation, identifying the nature and location of the violation and specifying that remedial action is necessary to bring the violation into compliance.

The person, company, or department in violation will, conditions permitting, begin remedial action and shall have seven (7) working days after the receipt of the notice or such longer times as may be specified in the notice, to complete the remedial actions required to bring the activity into compliance with this policy.

## 8. PROHIBITED PRACTICES

Tree Planting: Trees will not be planted on UNMC campus for dedication without pre-approval from Facilities Management & Planning.

Tree Destruction: It is not allowed for any person to destroy a tree on campus without permission.

Tree Topping: Topping, heading, hat-racking, or any other form of inappropriate crown/branch reduction pruning shall not be permitted except in emergency situations or in executing a crown restoration procedure.

## 9. DEFINITIONS

Terminology related to campus trees:

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)

Crown – the branches, leaves, and reproductive structures extending from the trunk or the main stems of a tree

Development – the act, process or state of erecting buildings or structures, or making improvements to a parcel or tract of land

Diameter, breast height (DBH) – the diameter or 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.

Dichotomous key – a key for the identification of organisms based on a series of choices between alternative characters

Drip line – the area defined by the outermost circumference of a tree canopy where water drips from and onto the ground

Girdle – a ring made by removing bark around the trunk of a tree, in order to kill it

Hat-racking – a process where the tree pruner draws an arbitrary line at some point in the canopy and removes everything above that line

Rootball – a spherical aggregate of roots and soil that is transplanted with a tree or shrub

Tree Canopy – the highest level of branches and foliage in a forest, formed by the crowns of the trees

## 10. COMMUNICATION STRATEGY

LiveGreen manages most of the communication to the students, staff, and general public. LiveGreen uses targeted and mass emails and posts information on their website regarding lawn and tree care, Arbor Day, Tree Campus USA as well as other sustainability issues and resources.

Tree Campus USA policies and procedures will be communicated to UNMC faculty and staff via a company-wide email from the LiveGreen campus sustainability initiative. LiveGreen will continue to update the campus community on items of importance related to trees throughout the year via emails and articles in the “UNMC Today,” the electronic campus newspaper that is published Monday – Friday and sent to the entire campus community. This will also be the mechanism for communicating information about our past and future Arbor Day observances and earth day celebrations. The Campus Tree Care Plan is located on the UNMC website under the LiveGreen page [here](#).



## Standard 3 – Campus Tree Program with Dedicated Annual Expenditures

### Annual Work Plan

UNMC has a full time staff of Grounds Technicians whose job is to manage and care for all of the green spaces on the campus. Tom Payne, tree campus committee member and certified arborist is the Supervisor for that department and manager in charge of the work plan for green spaces.

The following are expected expenditures for the next year:

Cost of trees planted:	\$7,250
Labor & Tree Management	\$13,087
Equipment used for trees	<u>\$32,500</u>
Total:	\$52,837

**There are 3,171 full time students at UNMC, making tree maintenance cost per student: \$16.52**



*UNMC College of Pharmacy Graduation*





*Dr. Bill Lydiatt with UNMC High School Alliance students 2014*





## Standard 4 – Arbor Day Observance

To recognize the importance of trees and celebrate the tradition of Arbor Day, a National Holiday started in Nebraska, UNMC traditionally holds a tree planting ceremony. The entire campus is invited to the event, a proclamation is traditionally read, information about the tree being planted is available to attendees, and the event is covered by campus and local media. This year was no exception, but additional activities were planned in order to celebrate the campus's inaugural year as a Tree Campus USA. In addition to planting Autumn Brilliance Serviceberry in a water retention garden, the campus threw a party. Lunch and free ice cream cones were served, a local band played classic rock 'n roll, while a local arborist gave advice and answered questions about tree planting and care, 150 trees were given away free for people to plant, as well as 200 packets of indigenous wildflowers by the local Natural Resource District. More than 400 people attended and LiveGreen received tons of positive feedback on the event.





## Arbor Day Tree Planting Ceremony and Tree Campus USA Celebration

**Friday, April 25**  
**Noon to 1:30 p.m.**

**Michael Sorrell Center, Student Plaza (green space to the north), 42nd & Emile St.**


All campus faculty, staff and students are invited to attend the celebration of Arbor Day and the designation of a Tree Campus USA. The event will kick off with the planting of a Serviceberry bush. This bush will be planted in a retention pond - a planted area designed to use rain water and prevent runoff.

Immediately following the bush planting, Hartland BBQ will serve lunch for \$5. LiveGreen will also serve free ice cream cones while local band BluesAgent will play 50's-style rock-and-roll music until 1:30 p.m. Graham Herbst, a local arborist, will also be on hand to answer any tree or shrub questions. Need a tree to plant? We are giving 150 away! Don't have a place to plant one? We'll have free wildflower seeds!

Everybody is invited to come enjoy the trees, food and festivities! This is an outdoor event, please dress appropriately and bring sun protection.

**Eye Glass Collection**

Drop off gently used eye glasses at this Earth Week event. We will donate them to UNMC Ophthalmology where they will be given to patients at a monthly free community clinics.

Employees of Sunco Ground Management planted a maple tree near the intersection of 41st and Harney Streets to celebrate Earth Week last year.





Arbor Day tree planting April 25<sup>th</sup>, 2014



*Nebraska Medicine Media relations coordinator, Taylor Wilson, arrives before the crowd for the tree planting.*



*UNMC LiveGreen volunteer, Maedi Bell, and TCUSA committee member Graham Herbst work the crowd at the Arbor Day Celebration.*





*Free Ice cream for the TCUSA, Earth week, and Arbor Day Celebration*







*The crowd watches "Blues Agent" perform at the celebration*



## Standard 5 – Service Learning Project

UNMC is an urban campus located along the main thoroughfare to downtown Omaha, and surrounded by neighborhoods. As UNMC works to improve the health of all Nebraskans and what we do here directly impacts the residents of those neighborhoods, we chose to make this years' Service Learning Project community-based.

October 28<sup>th</sup>, 2014

Future construction was threatening a green space on the east end of campus. Even if some space within that will remain green, trees and roots are often damaged during the construction process. For this years' service Learning Project, the Tree Campus USA committee set out to transplant trees that would be affected by future construction.

Tom Payne TCUSA committee member, grounds supervisor and certified arborist, organized the tree spade and identified areas of the campus to transplant several trees. With the help of his crew, UNMC volunteers and a tree spade, eight trees were re-located on campus.

- One maple replaced a fallen tree in front of the administration building.
- One maple was planted to prepare for the future loss of a tree at the alumni house.
- Two crabapples were added to the green space behind the alumni House.
- Four crabapples were planted in a lot on Leavenworth Street that previously didn't have any trees.

While the tree spade did all the heavy lifting (literally), volunteers helped to pre-water holes, move supplies, fill in dirt and water the transplanted trees. It was a great fall day and a good time of year to move the trees.



















