

### The Nitty Gritty of Tree Selection & Care







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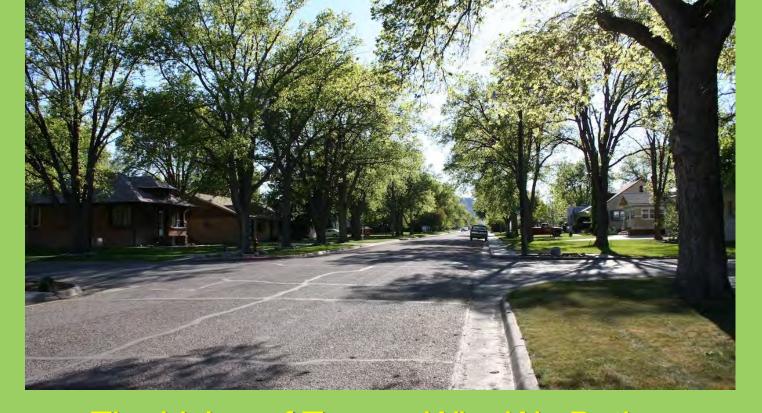
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Lincoln Parks & Recreation Department, Planning + Construction Division

American Society of Landscape Architects



The Value of Trees - Why We Bother Just a few of the benefits...

#### The Benefits of the Community Forest



# How do we address these environmental, economic and social challenges?

- Declining community forests.
- Sterile landscapes and lost wildlife habitat.
- Excessive water consumption.
- Stormwater management issues.
- Pesticide and fertilizer overuse.
- Threats from a changing climate what does the future hold?
- The global challenge for invasive exotic pests.
- Our general disconnect from nature.





### The importance of native trees.

- They are adapted to the native soils and climate.
- They require little if any supplemental irrigation once established.
- They provide critical habitat for important wildlife.







#### What will be the trees of the future?



- The provenance of tree seed describes its geographical origins.
- When planting trees selecting an appropriate provenance is an important decision which can
- influence tree survival, performance and longevity.
- A key aim of provenance selection is to select trees that will be welladapted to the prevailing conditions in which it needs to grow.

#### Species Type & Provenance are Important Factors

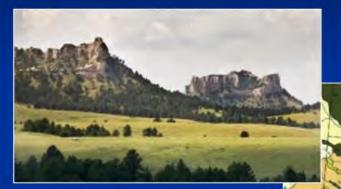




Many native tree species meet the limit of their natural range in Nebraska—Robert Kaul



### Nebraska's forests sit at an ecological crossroads: 35 tree species each their geographic range limit here- more than any other state.



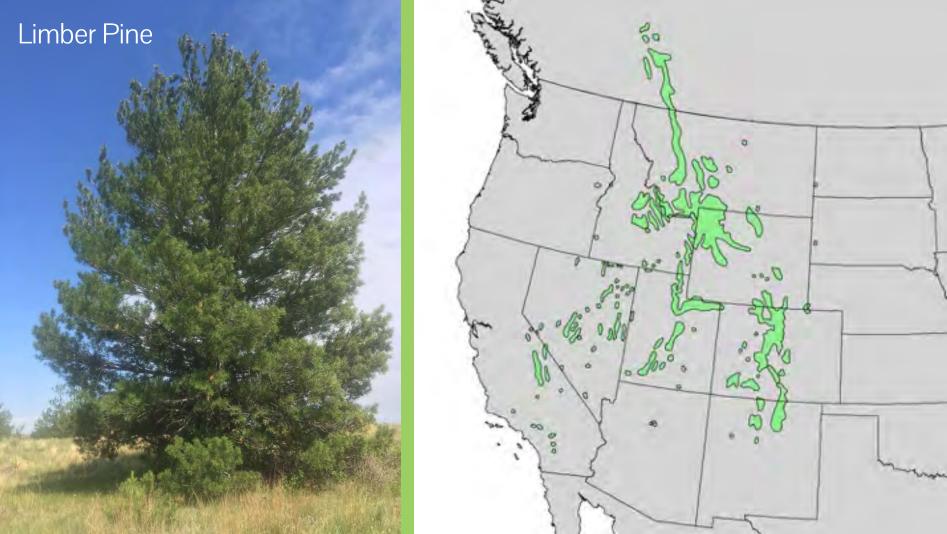
Western Species Reaching Their Limit

Ponderosa pine, limber pine, Rocky Mountain juniper, Rocky Mountain maple water birch, mountain mahogany,

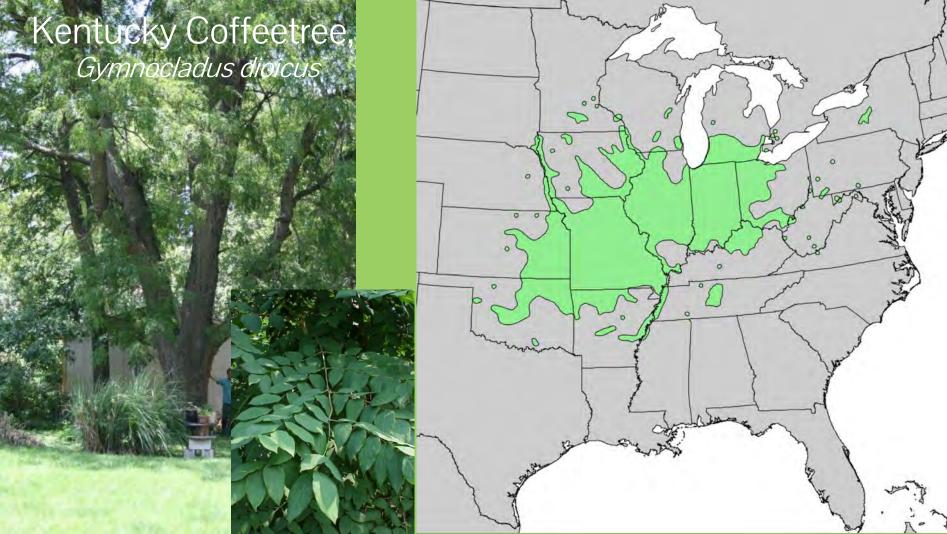
#### Eastern Species Reaching Their Limit:

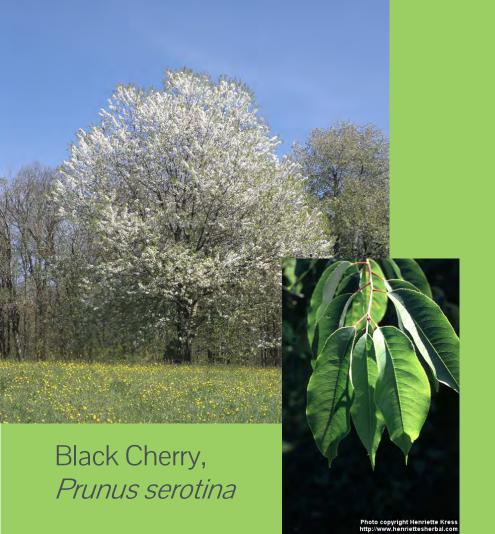
White oak, black oak, red oak, chinkapin oak, blackjack oak, shagbark hickory, bitternut hickory, buckeye, butternut, sycamore, white ash, downy hawthorn, et

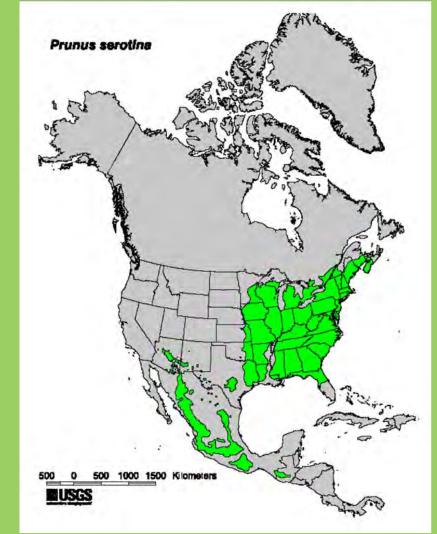




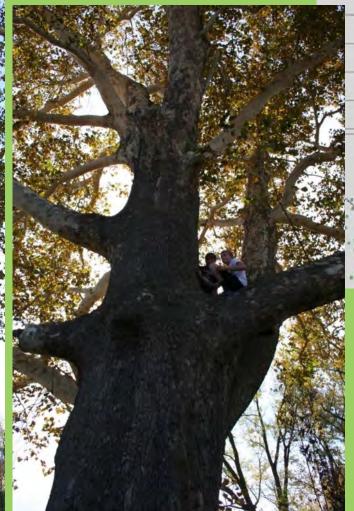




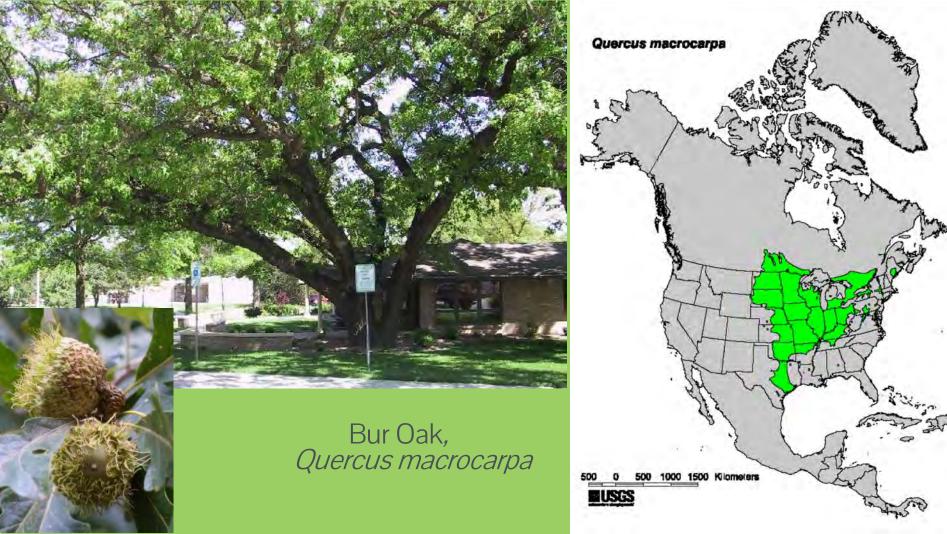














#### Sugar Maple, Acer saccharum



What does a "regionally native" tree mean?



Most urban tree problems are related to poor soils or growing conditions which could be made worse by climate change.

Urban soils are often highly disturbed, lack essential nutrients. Trees are dependent on adequate soil characteristics such as rooting volume, organic matter content, drainage capacity, and nutrient availability to achieve healthy maturity.

#### Do some trees mitigate CO<sup>2</sup> better than others?

#### Increased CO<sup>2</sup> storage

- Long life span
- Larger overall growth
- Medium to slower growth rate
- Tissue density
- High tolerance of urban stresses
- Low maintenance with non-fossil fueled equipment
- Trees over 12" DBH are generally carbon neutral

Effects of Urban Tree
Management and Species
Selection on
Atmospheric Carbon
https://go.unl.edu/
co2mitigate

#### How to choose trees









 ${\sf Joe\ Murray,\ Treebio.com,\ Bugwood.org}$ 

Rebekah D. Wallace, University of Georgia, Bugwood.org

HTGSupply.com

### Select the smallest tree with the largest root ball

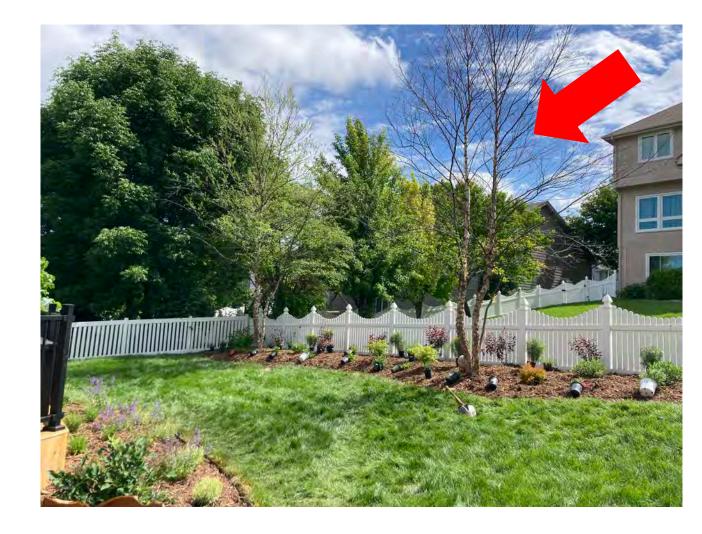


### How to Chose Your Trees – Example too large





How to Chose Your Trees -Example too large



#### Containerized most common





#### Bare root

- **-** Easy install
- → Faster establishment
- **-** Low availability
- → Handling issues





#### B&BGrown

- → B & B dug trees can remove up to 95% of the root system
- Provide at least 12" of root ball for every 1" diameter of tree trunk.
- In general, for every 1" tree diameter, it will take at least 1 year to recover the original root system.

### Grow Bags & Special Containers









Root pruning containers create fibrous root systems using air, constriction or trapping, from propagation to large trees. Rootmaker containers promote root branching and new roots.

This results in a root system that has a greater surface area than conventional production, and therefore achieves greater efficiency in the absorption of water and nutrients.







### RootTrapper® Containers







## The RootTrapper® Soft-sided Containers

This unique container stops circling roots and continues to stimulate root branching by trapping root tips.





### City of Lincoln Approved Street Tree List



Home / City Information / Departments / Parks and Recreation / Community Forestry

#### **Community Forestry**

- Overview
- Fast Forestry Facts
- Emerald Ash Borer
- · Adopt-an-Ash Program

- Developer/Contractor Street Tree Information
- Homeowners/Commercial Arborists
- Street Tree Information
- Community Forestry FAQ's

#### **Street Tree Information**

#### **Street Tree Planting Guidelines**

- . Tree Diversity will be emphasized (i.e. no more than 10 % of same tree type).
- Ash species will not be cost-shared by City for planting as street trees due to potential Emerald Ash Borer infestation and will not be
  allowed to be planted on city right of ways due to existing ash street tree population being greater than 25%.
- Large type trees and small type trees will not be planted on same street because of variance in height, form and growing space
  requirements. Only exception is that small shade tolerant understory type trees (redbud, serviceberry) can be planted beneath large
  overstory shade trees, provided there is adequate room to accommodate the mature growth of understory tree.

#### **Approved Street Tree List**

Download the 🍖 Approved Street Tree List (PDF, MOKE). Updated Jan. 2021

#### Permit to Plant in the City Right of Way

A no-fee permit to plant trees on city property needs to be obtained BEFORE planting is done. Shrubs, perennial and annual flowering plants, ornamental grasses, and ground covers can also be planted within the sidewalk space, or abutting a sidewalk, and do not require a permit. Those plantings shall be maintained so that they do not extend over curbs, sidewalks, driveways, or alleys and have a maximum height of no more than thirty inches above the height of the adjoining curb.

A no-fee permit to plant any of these trees on CITY PROPERTY needs to be obtained BEFORE planting is done.



#### City of Lincoln Approved Street Tree List



Dial, Shingle	50	50	pyramida		157404	
Osk, Shumard	75	60	broad	Red(f)	55 mms	
Qak, Siwamp White:	45	45	round	Bronze-red(f)	NI NAME	
Disk Writer	- 60	60	round	Bronze-red(F)	ST THEFT	
Tuliotory (Yellow Popiar)	80	40	gyramical oval	Yellow Flwrs(S) Yellow(f)	Street	
Turkish Filbert	60	30	pyramidal	Yellow(f)		
Ye'owwood	50	50	round		Oi naive	
Zelkova, Greenvase	70	45	vase	Red/Copper(F)		
Medium Trees (25ft - 40ft)	Heleht	With	Primary Shape	Color		Notes
Rack Cherry	AST.	85		Wister Francis (Invites)	NEWNE	
Choxecherry, Canada Red	30	20	round	200000000000000000000000000000000000000		
Chokecherry, Schubert	90	10	round	White Fines (S) Purse (F)	MI NAME	
Cork Tree, His Malesty	40	35	Year	White Flurs(S) Yellow(F)		
Em. Frontier	35	15	gyramidal	Burguady-Purple	OS name I	
HencylocUS nativet, Imperior	55	35	pyramidal	Ye fow-Gold(f)	NE OATW	
Honwood (Hombeam)	30	30	round.	Mellow(F)		
Maple, Green Column	40	20	columnar	Ye row(E)	DG milder	Terregulately Not Approve
Maoir, Pacific Suster	25	25	OVERTICAL	Red-Dranger(1)	15 care	Erespecialis Not Approve
Maple, Shantung	30	30	round	Red/Orange/Puro e(6)		Temporanily Not Approxi
Maple, Tridest	35	90	10420	Red/Orange/Yellma(f)		Trenterné Militaros
Day, Lyrata	40	40	round	Conperff)	16 nimer	
Day, Sawtooth	- 10	145	07040	Velem(f)		
Onlo Buckeye	40	35	mind	Yellow/Red-Brown(F)	05000m	
Drage Grange, Whiteshield	65	- 32	round	Verland()	M NOW	
Raintree Golden	40	35	round	YellowFlwrs(Summer)		
Small Trees (up to 25tt) Crabicole, Adams	Height 20	Width 20	Primary Shape	Pink Flyr(S)	(home	Motes
Crabadole, Acams Crabadole, Indian Magic	15	15	70,110	Pink Fiwer(S)	15.0em	
Crabappie, Indian Magic Crabappie, Prairiefine	20	20		Pink Flwer(S) Pink/Red Flwer(S) Red (F)	0.0000	
Finwering Crababolic, Adirondack	30	D .	704/16	Wate fines(S) Yeapwiff	A CORNO	_
Flowering Crabapole, Advandace Flowering Crabapole, Camelet	10	8	round .	White/Pink Flym(S)	Amore	
Flowering Crabapole, Carbolist Flowering Crabapole, Centunon	20	15	round	Rose EwalSi Yellowiff	US came !	-
	15					
Flowering Crabapole, David Flowering Crabapole, Donald Wyman	20	20	round	Wate Flyd(S) Yellow(F) Wate Flyd(S) Yellow(F)	35 mov -	
			broad		_	
Flowering Crabapple, Golden Raindrep	18	20	round	Wht/fellow Flwn(5) Orange (F)	(Atomic	
Flowering Crabapple, Indian Summer	20		round	Red Flwrs(S) Grange-Red(F)	Oi neilye i	/
Flowering Crabapple, Professor Springer	20 18	20	round	White Flwrs(S) Yellow(F)	ARTHUR	
Flowering Crabapole, Purple Prince	20	15	round round	Rose Red Flyrs(S) Ye ow(F)	Otherty:	/
Flowering Crabapole, Royal Raindrops		15		Pink Flwrs(S) Red-Yellow(F)	DOWN	
Flowering Crabapole, Sargerit Flowering Crabapole, Sugar Tyme	18	15	bread.	White Fluid(S) Velou(F) White Fluid(S) Ye ou(F)	Uticipe	
	18		round		Utinable	
Flowering Crabapple: Tschonoski		10	columnar	Write Elwis(S) Red(E)		
Maple, Embers Amur (single trunk) Maple, Flame Amur (single trunk)	20	15	round round	Orange-Red(F) Orange-Red(F)		Temporandy Not Approx
						Temporarde Not Approve
Mápie, Paperbark	25	10	round	Red(f)		Temporardy Not Appeni
Mapie, Sun Valley Red			oyramidal	Red(f)		Transcrink Not against
Magie, Tartarian (single trunk)	20.	20	round	Rec-yellow(f)	Total Control of	Temperanty Nat Appears
Redhid, Eastern Redhid, Oklanoma		20	round		THE BARROW!	Orthern Local States
	15.	15	round	Fink Flwr (S)		
Serviceberry, Autumn Brill ance (ST)		18	round	Whit Flwn(S) Red-Grange(F)		
Serviceberry, Cole's Select (ST)	20	15	round	Whit Flwr(S) Red-Orange(F)		_
Tree Libro, Every Silk (single trunk)	20	15	round	White Flwr(S)		
Tree Lilac, Japanese	25	20	round	Write Dwis(S)		
Tree Lilac, Peking Japanese (single trank)	20	13	76/100 broad	White Flee(S) Reo(F)		
Zelkova, Wineless	25	35				

Street Tree List is a live link and can be found at: lincoln.ne.gov keyword: forestry



### Relationship with Insects, Birds and Other Wildlife

Native woody plants supported 14 times as many insect species as introduced ornamental landscape plants!





### IT'S SPRING—I'M HUNGRY

- Bees emerging with the first warm days of spring gather resins from the cottonwoods.
- •• They mix these resins with their own enzymes and then use this highly antimicrobial glue to line their hive.
- •• We call this thick sticky glue propolis.

# Early-blooming trees provide an important pollen and nectar source for bees in early spring.



Silver Maple

Red Maple



- The most valuable for the bees are:
  - → Maple
  - ⊶ Elm
  - → Redbud
  - → Buckeye
  - → Crabapple
  - Serviceberry
  - → Cherries/plum
  - Nannyberry viburnum



Eastern Redbud







Wild Plum



Bees & Butterflies collect pollen and nectar from trees such as honeylocust, coffeetree, oak, birch or alder dangling their catkins in the breeze.



Willows (Salix sp.) provide protein-rich pollen for bees in early spring. This gives the bees a boost of energy after they have depleted their stores of honey over the winter.





Studies have shown that only 14% of the native plants available in that region are making 90% of all the caterpillar species. These are the keystone species to support native insect populations.



alone.



### Insects Don't Like Aliens!

 Leaf eating larval insects encounter leaf chemical defenses.

 Flower shape and amount of nectar are most important native bees evolved to forage on flowers with particular morphologies.



Common Hackberry,

Celtis occidentalis











Birds will feed their young exclusively on caterpillars if they get the chance. Caterpillars are an essential part of songbirds ability to raise their young. They are relatively large prey items, they are high in protein, high in fat and soft—with a low percentage of chitin.







So no insects, no baby birds!







The stats on caterpillar consumption are mind-boggling: a single nesting pair of Chickadees will feed their young ones 6000-9000 caterpillars before fledgling, meaning over sixteen days on average. After fledgling, nobody has counted, but fledged Chickadees get feed for up to three more weeks.



We need a diverse mix of insects for predators too. Spiders eat insects too and they are the second most important component of bird food webs.

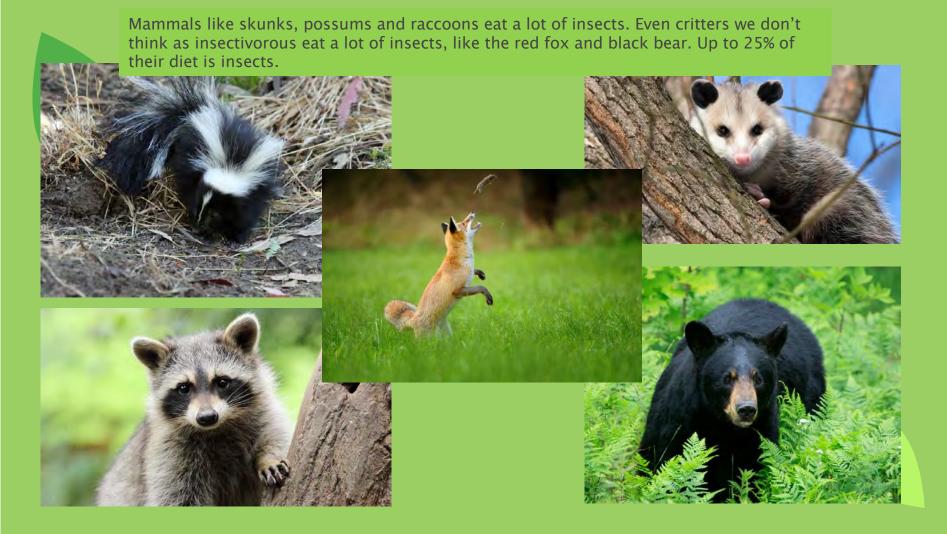




Frog, toads, all amphibians need insects, as do lizards and rodents.

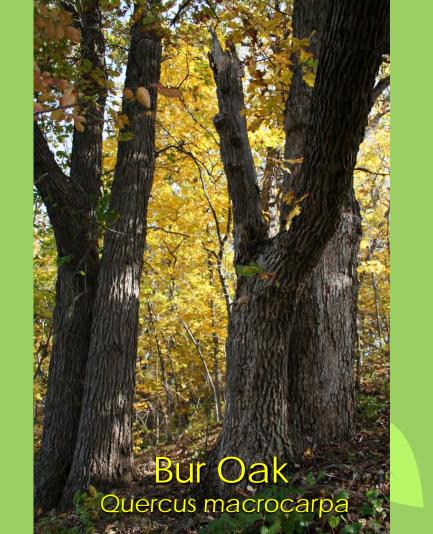


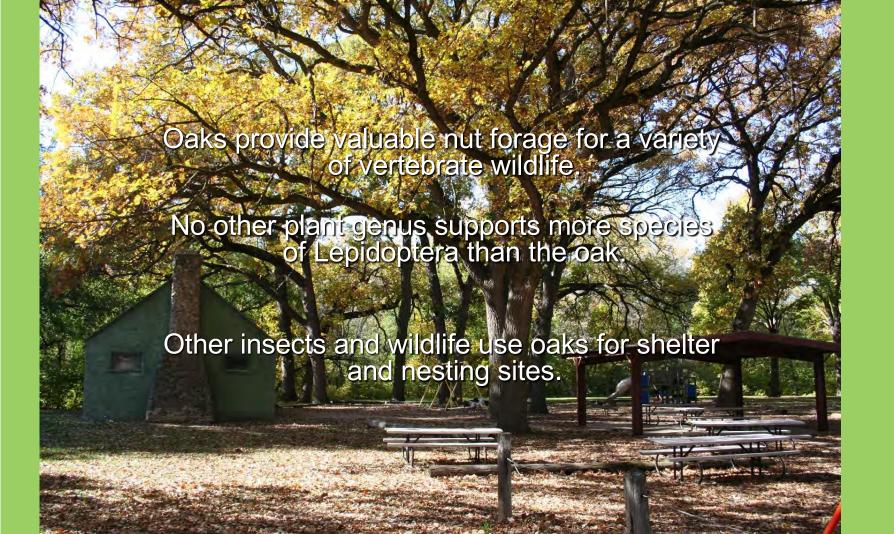


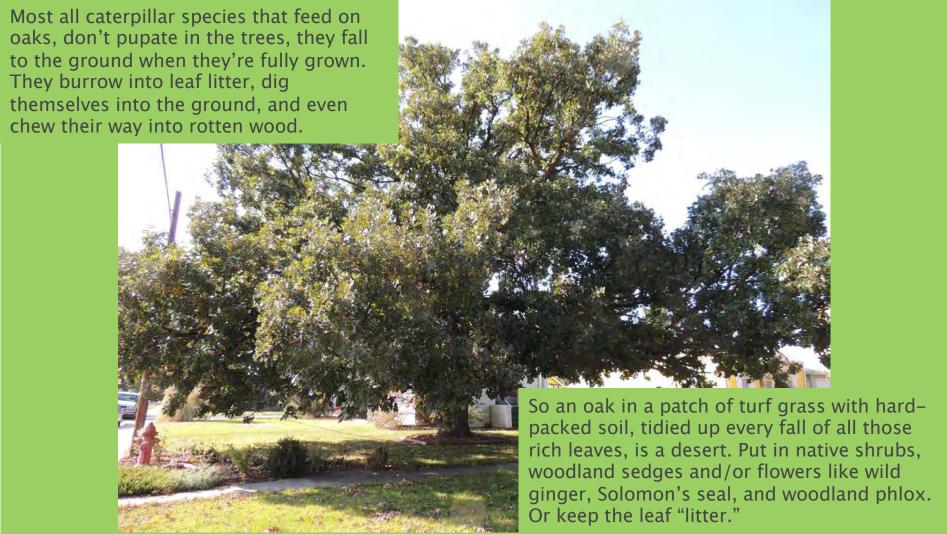


### Top Ten Trees: Larval Food Sources for Butterflies & Moths

- Oak quintessential wildlife plant
- Willow
- Cherry, Plum
- Poplar, Cottonwood
- Crabapple
- Maple, Boxelder
- → Elm
- Hickory
- Linden
- Walnut







Many beneficial insects overwinter under leaf mulch—true bugs, beetles, predatory insects, decomposers. Leaf mulch is a necessary component in raising a diverse mix of insect species.



# Increase Nesting Habitat for Native Bees—70% of native bees nest in the ground



**Mulch different** 

When it comes to ground nesting bees, access to bare ground is essential, and even a 1-inch layer of mulch can be as impenetrable as pavement to these small bees.



Consider using compost or shredded leaves instead of chipped wood products. They will have the same weed suppression, water retention, and other properties – yet be light enough to allow ground nesting bees to pass through

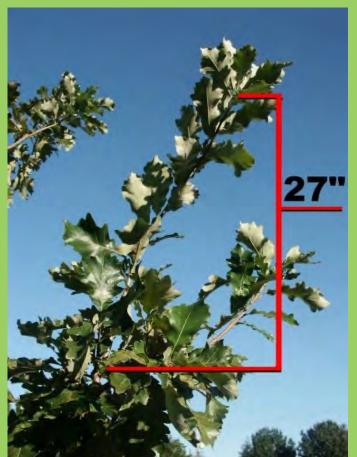
## Expectations for Growth

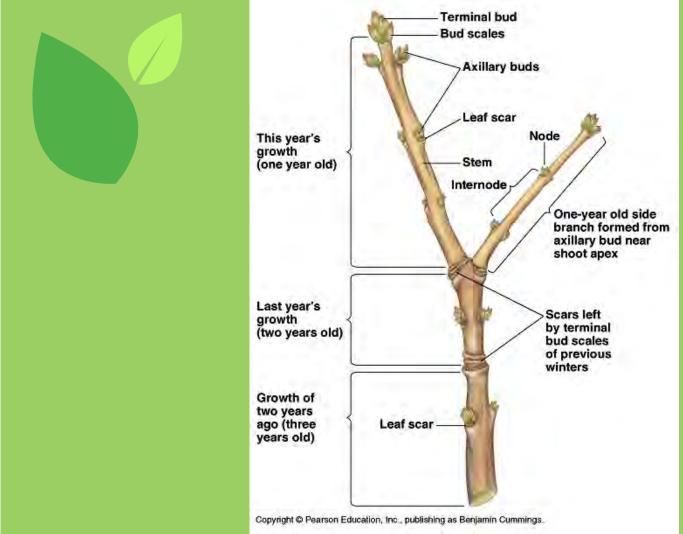




#### Annual Growth Rate for Linden vs. Swamp White Oak @ 5+ years























What About Climate Change?



### Nebraska Effects

- → Temperature extremes
- Prolonged drought
- Exceptional moisture events
- Creates need for increasing tree diversity

### Temperature Swings & Extremes

#### Spring

- → 2/16/21, -31°F (Min temp normal 18.4°F)
- → 3/9/21, 77°F (Max temp normal 53.6°F)
- → 101 degree difference in 4 weeks
- ••• 4/1/21, 17°F (Min temp normal 39.2°F)
- ••• 4/26/21, 92°F (Max temp normal 64.8°F)
- → 75 degree difference

#### Fall

- → 11/17/21 75°F (Max temp normal 51.7°F)
- → 11/25/21 22°F (Min temp normal 28 °F)
- 53 degree difference
- ••• 12/15/21 74°F (Max temp normal 39.4°F)
- ••• 12/19/21 9°F (Min temp normal 18.2 °F)
- ••• 65 degree difference

#### Prolonged or Periodic Drought - Impacts on Trees

- Internal water deficit begins
- → Stomates close
- Reduction in photosynthesis
- Death of mycorrhizae
- Death of root hairs
- → Leaf loss
- Growth slows
- Reduction in plant defensive chemicals
- Death of larger roots

	2021 Actual Rainfall	Normal	Difference	Drought Years	
Jan	1.53"	0.73"	0.8"	1953	17.55
Feb	0.79"	0.89"	-0.10"	1976	17.90
March	5.23"	1.55"	3.68	1988	18.37
April	1.74"	2.69"	-0.95"	2012	19.14
May	2.55"	4.91"	-2.36	1994	22.56
June	4.46"	4.48"	-0.02"	2009	23.08
July	1.73"	3.25"	-1.52"	2000	23.18
Aug	3.41"	3.32"	0.09	2004	23.49
Sept	0.64"	2.90"	-2.26"	2020	23.63
Oct	4.04"	2.14"	1.9"	1995	23.92
Nov	0.49"	1.3"	-0.81"		
Dec	0.25"	1.18"	-0.93"		
Total	26.86	28.16	-1.30"		

Average rainfall in Lincoln approximately 28 to 31 inches

### Exceptional Moisture Events

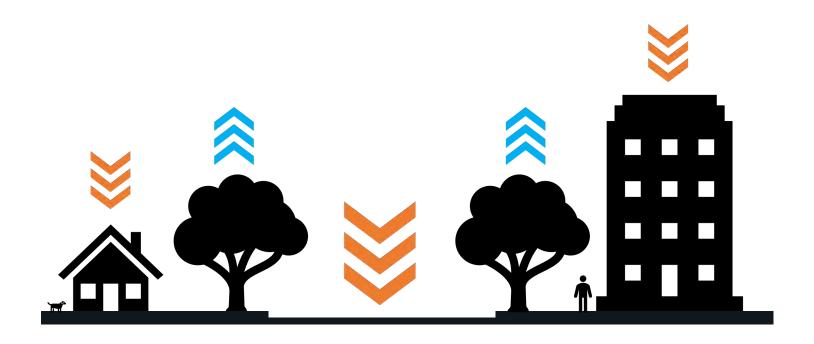
- Nebraska is experiencing a 16% increase in very heavy precipitation events.\*
- Flooding
  - → 2019 \$1.3 billion in flood losses
  - 2011 record snowfall in Montana & Wyoming + near-record spring rainfall in Montana. \$2.47 billion (2020 dollars)
  - •• 1993 \$85 million (2020 dollars)

	2021 Actual Rainfall	Date	Rainfall Amount
March	5.23"	3/14	2.97"
June	4.46"	6/11	1.99"
		6/24	1.30"
		6/25	1.07"
Aug	3.41"	8/29	1.12"
Oct	4.04"	10/27	1.62"

Average rainfall in Lincoln is approximately 28 to 31 inches

<sup>\*</sup> Top 1% of all daily rainfall events, measured from 1958 to 2012. National Climate Assessment, https://nca2014.globalchange.gov/.

#### Needs to be Addressed – High Renter Occupancies + Low and Medium Income Areas





Tree Planting & Care

#### Site Selection







**Oval Shape** 



50' fully grown



Full Sun 8-12 hours



Medium medium moist soil



moderate/fast

#### NORTHERN CATALPA

Catalpa speciosa

#### Facts

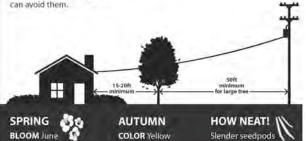
Northern catalpa is a show stopper known for its bell-shaped flowers in the spring and large ovate-oblong leaves. Flowers give way to long slender green seedpods that then mature in the fall to dark brown. Growing into an irregular oval crown makes for a beautiful statement tree. Bark will gradually fissure and giving way to a ridged pale gray-brown texture. Common places to find catalpa are along streams, bluff bases in both low and upland woodlands.

#### Know What's Below

To remain safe while planting trees, shrubs or flowers, call 811 at least two days before digging. Workers will visit your property to mark the location of gas lines or other underground utilities so you can avoid them.

#### Right Tree - Right Place

By calling 811 and planning before digging, this helps to ensure the safety and resiliency of your tree and home. Proper tree selection and placement can enhance property value and prevent potential maintenance damage to your property and surrounding utilities.

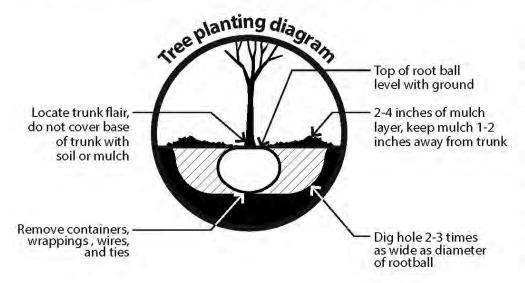


#### Plan before you plant

Large trees (40+ feet or taller) should be planted no closer than 50 feet horizontally to power lines. It is also recommended to plant at least 20 feet away from your home.

#### Call before you dig

Call 811 at least 2 days before planting. Make sure you properly plan for mature growth of your tree by following "The Right Tree in the Right Place" guidelines.



#### Why mulch?

Mulching your tree with wood chips or other organic matter helps the tree hold moisture, moderates soil temperature extremes and reduces grass and weed competition.

#### **FREE mulch locations**

Bowling Lake Park - parking lot Oak Lake Park - parking lot Holmes Lake Park - parking lot Flemming Fields - parking lot

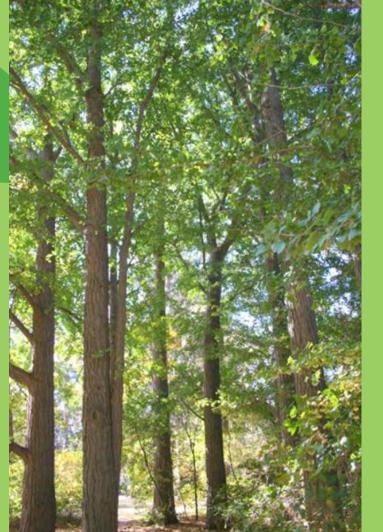
#### Follow-up care

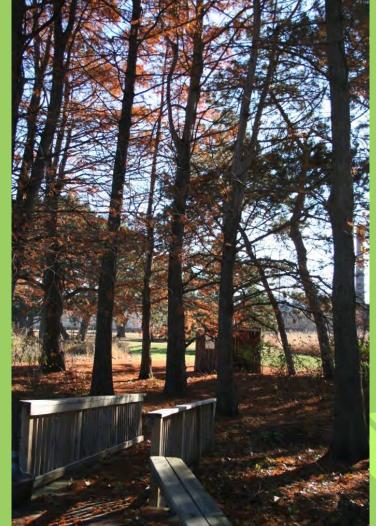
Water trees at least once a week (unless it rains) keeping soil moist, but not water logged. Water more frequently during hot, windy weather.

#### Site Selection

- Trees like growing in groups.
- Consider planting a grove of the same tree versus a single tree in the same area.
- Trees share root space, nutrients, compete for light and better resist wind storms and ice breakage.

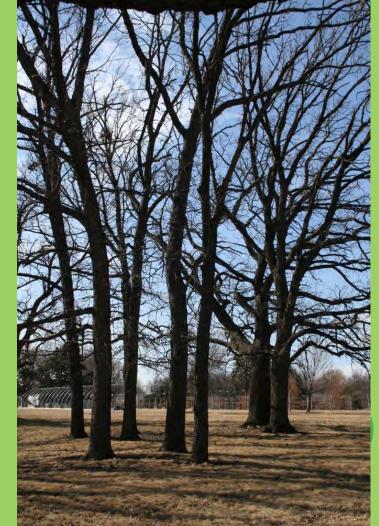












Plants and soil fungi are involved in mutually beneficial relationships

The fungi, called mycorrhiza explore a large volume of soil and extend away from the plant root.

A single fungal individual can connect to many different plants at the same time, creating fungal nutrient highways through the soil profile.

# Site Selection Put trees in a landscape bed



## Site Selection

Let trees and plants work together





## Planting Timing

#### Spring

- Growth new leaves & roots
- Water needed for growth, but limited root system
- Some leaves may drop to conserve water resources

#### Fall

- Growth time for new root growth in fall & spring
- Roots grow best in cool soil
- Lower water demands

Summer planting - is much harder on the tree and is not recommended.

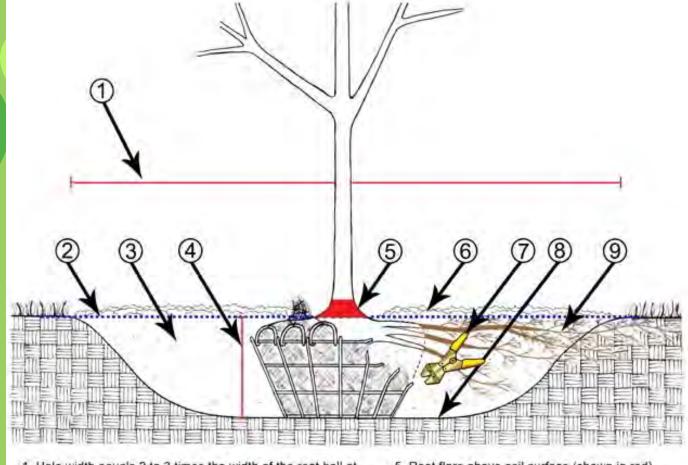
## Planting Time by Tree Type

#### Deciduous

- Lose their leaves in fall, so water needs are vastly reduced
- Growing roots still require water, but that is a small amount compared to leaf water needs.

#### Evergreens

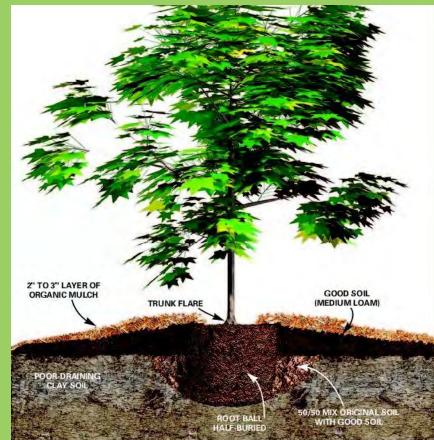
- Hold leaves/needles all winter.
- Metabolism is reduced, but water loss continues.
- Frozen soil roots have trouble getting the water they need
- Brown/dead needles in spring.



- 1. Hole width equals 2 to 3 times the width of the root ball at surface
- 2. Existing soil surface (blue dotted line)
- 3. Amended soil
- 4. Hole depth equals base of root flare to bottom of root ball
- 5. Root flare above soil surface (shown in red)
- 6. 2" 3" layer of mulch; keep away from trunk
- 7. Cut away the upper one half of the wire basket
- 8. Firm ground
- 9. New root growth

Enlarging the top of the hole two to three times that of the root ball diameter increases the amount of loose, backfill soil near the surface where conditions are favorable for root growth. On wet sites, a tree can be planted so that one-third of the root ball is above the original grade. This method will keep most of the root system above the saturated soil even during very wet periods.















- 1. Establish a "Litter Layer"
- 2. Create Conditions for Vigorous Root Growth
- → 3. Avoid Root Damage
- → 4. Plant it Right!
- → 5. Avoid Grass Competition
- ← 6. Manage Nutrients
- → 7. Match the Tree to the Site

## Avoid Grass Competition



Grass Competes With Trees For Nutrients & Water, & Releases Growth Inhibiting Chemicals







## Watering New Trees



Water is the most critical need of newly planted trees.



It's more important how often you water (frequency) versus the duration of the watering (amount of water). More frequency, less duration!



It's more effective to water a tree 2 times a week with a 5 gallon bucket of water versus 1 time a week with 10 gallons of water.



## Watering New Trees



How often newly planted trees are watered depends on the weather conditions at the time.



Water new trees based more on frequency than duration—in other words, water the tree often, with a limited amount of water.



For most large trees 5-10 gallons of water per week is adequate in their establishment.



For smaller trees, 1-2 gallons of water per week is adequate.

## Watering Established Trees

- To water mature trees, avoid a common mistake — watering only near the trunk.
- Trees do not have tap roots, but instead have a root system that extends out from the tree, more or less mirroring and extending just past, the tree's branches above.
- So, when you set out your hose or set up a drip or soaker system, begin near the trunk, and then work your way out to the edges of the tree's canopy.



Soil moisture is especially important during the first three years following transplanting.



One inch of water each week for the first season is a good rule of thumb, monitoring soil moisture and applying water as needed is preferable.

### Ensure Roots Have Oxygen

- Avoid excessive watering
- Remember, overwatering can reduce soil air space, lowering oxygen availability, and that can be just as stressful as drought.

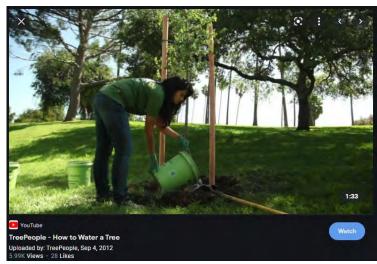


## Watering - Don't! - Washes away the soil

- Too harsh
- Not a deep watering



## Watering - Do!



Lincoln Parks Slow release with a tree bag

https://www.youtube.com/watch?v=J29E82DWM2g

## Keeping Older Trees Healthy

#### **Protect Tree Roots**

- Compacted soil is one of the biggest threats to tree roots because compaction impedes water infiltration and oxygen into the root zone.
- Focus on protecting the roots and soil within the critical drip line—root zone of your tree.

#### Water Effectively

- Mature, well-established trees will likely thrive in existing soil and moisture conditions.
- Maintain your tree's health with healthy soil to give it the best chance of surviving a drought.
- Summer heat & drought is when a tree may need to be irrigated.
- Infrequent, deep watering is the preferred schedule for trees.

#### Maintain Healthy Soil Around Trees

#### In the Forest

- In the forest, trees do just fine on their own without human care.
- Has an intact layer of decaying organic matter.
- Retains soil moisture and creates good soil structure for water infiltration.

#### In Your Landscape

- Mulch with purchased mulch or fallen leaves.
- → 2 to 4-inch layer.
- Keep the mulch away from the trunk and root flare.
- Plant shade-tolerant ground covers and grasses.



# Establish a Litter Layer With Organic Mulches

- Conserves moisture
- Can reduce soil pH
- Fosters microbial growth
- Re-establishes nutrient cycling
- Reduces soil temperature extremes
- Avoids grass competition
- Reduces mower damage

## Mulching do's

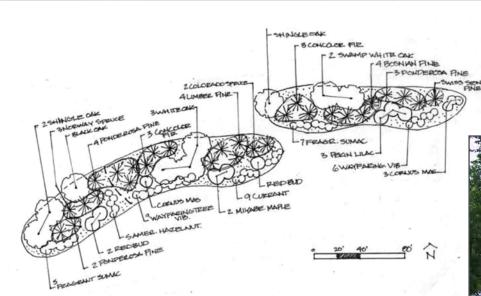








Sample Massing Plan



Create a tree root zone!

The key to amending clay soil over time is to cover a large area with a light layer of compost and organic mulch.









# The Community Tree Canopy with Lincoln Parks & Recreation

How to contribute to the growth of our shared urban and park tree canopy



## Community Tree Donations/Involvement

- Lincoln Parks Foundation
- 2 for Trees
- Adopt an Ash
- Pilot Grant Program for LMI
- Prairie Pruners
- Volunteer Opportunities

## Volunteer Opportunities



Volunteer
Tree Planting
Mahoney Park





## Volunteer Planting at Mahoney Park





## Volunteer Tree Care Opportunities





# Thanks!

ANY QUESTIONS?

You can find us at



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