



North Central Texas
Council of Governments

Urban Forestry Stakeholder Meeting: Forestry Opportunities Within Your Community

June 5, 2024

*This project was funded by the U.S.
Environmental Protection Agency
through the Texas Commission on
Environmental Quality.*

Alyssa Knox, NCTCOG
aknox@nctcog.org



North Central Texas Council of Governments
Environment
& Development

www.nctcog.org/WaterResources

Procedures for Workshop

- The workshop is being recorded and will be posted to NCTCOG's Environment and Development YouTube channel: <https://www.youtube.com/@NCTCOGED>
- If you submitted an RSVP for this, you will receive an email with the presentation slides and the recording when it is available. If you did not RSVP and would like these materials, please email aknox@nctcog.org.
- Please keep your microphone on mute until the Question-and-Answer period at the end of the presentation.
- Thank you!

A photograph on the left side of the slide shows a person's hands wearing yellow work gloves, carefully planting a small evergreen sapling into the soil. The person is wearing a light-colored, short-sleeved button-down shirt. The background of the photo is a blurred forest floor with fallen leaves.

Agenda

- Welcome and Introduction
 - Courtney Blevins, Regional Forester, Texas A&M Forest Service
- Time for Q & A after presentation

Speaker Introduction

Courtney Blevins

- Regional Forester,
Texas A&M Forest Service



Tree City USA®

Purpose through Process



Michael Merritt
Bayou Region Urban Forestry Coordinator
713-688-8931, mmerritt@tfs.tamu.edu

Purpose



Trees...

- Part of community infrastructure
- Vital to community health
- Create a community legacy
- Positive impact on business and tax base
- Wise investment of community dollars

Worth Our Time.

Worth Our Resources.

Purpose



Biophilia

*an innate affiliation
to natural settings*

- increases employee productivity
- Reduces symptoms of ADHD in kids
- faster hospital recoveries
- less crime
- overall reduction in stress and anxiety

Purpose



- Large trees can add 10% to property values
- Treed streets = more frequent and longer shopping
- Shoppers spend 12% more for goods and parking

Purpose



- 100 mature trees catch 200,000 gal of rainwater/year...
Cleaner water and less \$ for stormwater control
- 100 trees remove 26 tons of CO₂ and 300 lbs of pollutants/year...
including 66 lbs. of ozone and 91 lbs. of particulates
- 100 trees provide the net cooling effect as 1,000 air conditioners

(McPerson et. Al., 2004)

Purpose

100 Trees Over 40 Years...

Benefits = \$161,000

Energy

Air Quality

Runoff

Real Estate

Costs = \$89,000

Planting/Pruning

Removal/Disposal

Irrigation

Sidewalk Repair

Litter

Legal/Admin

Pay Off: \$72,000

Program



Provides direction, technical assistance, public attention, and national recognition for urban and community forestry programs

Sponsored by the Arbor Day Foundation in cooperation with the USDA Forest Service and the National Association of State Foresters



Program

Began in NE in 1972, went
national in 1976

Over 3500 Tree City USA
communities across the
United States

Over 135 million people live
in or near a Tree City USA
community



Program

About 100 Tree City
USA communities
in Texas



Great diversity within those
communities



Program



Longest running community in Texas

- Ft Worth, pop. 903,073 (Almost 50 years)

Some New Texas communities (1 year)

- Mount Vernon, pop. 2,781
- Childress, pop. 6,513
- Bastrop, pop. 8,378
- Boerne, pop. 10,283
- Sugar Land, pop. 84,511 (2012)
- Katy, pop. 14,102 (2012)



Program



Smallest: *Buffalo Gap pop. 436*



Program

Largest: *Houston pop. 2,140,000*



Program



Different: *Randolph AFB pop. 1436*



Program

From the east...



Program

...to the west



Potential



- **Framework for Action**
- **Education**
- **Public Image**
- **Citizen Pride**
- **Financial Assistance**
- **Publicity**



Potential



➤ Framework for Action

- Provides initial direction for an urban or community forestry program
- Meeting the Four Standards helps to get started toward systematic management of tree resources

Potential

➤ Education



Potential

➤ Public Image



Potential



➤ Citizen Pride



Potential

➤ Financial Assistance

Grants for trees and forestry programs.

TCUSA may be preferenced



Potential

➤ **Publicity**



Presentation of the
Tree City USA
award

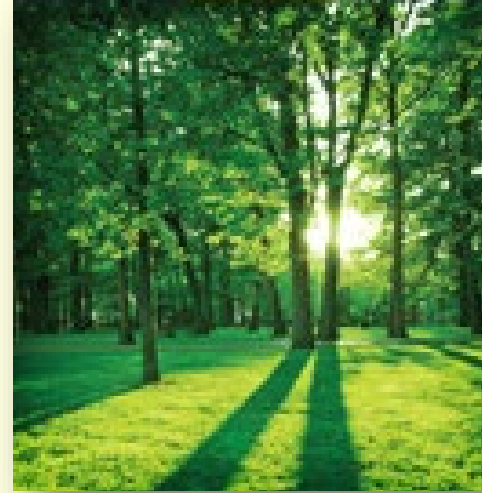
Arbor Day
celebration

Public education

Prerequisites

➤ Four Standards

1. Tree Board or Department
2. Tree Care Ordinance
3. Community Forestry Program with per capita budget of at least \$2
4. Arbor Day Observance and Proclamation



Prerequisites

1. Tree Board or Department



- May be a professional forester/arborist, an entire forestry or parks department, or a tree board
- Charged by ordinance with developing and administering a tree management program
- Delegates responsibility for the management of the community's public trees

Prerequisites



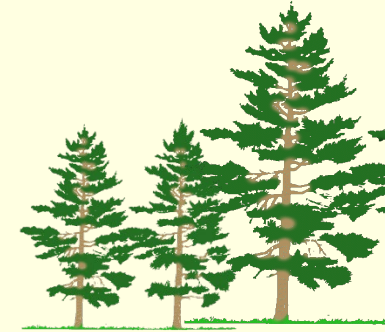
2. Tree Care Ordinance

- Establishes a tree board and gives it responsibilities
- Guidance for planting, maintaining and removing trees on public property
- Provides an opportunity to set good policy that is legally enforceable

Prerequisites

3. Community Forestry Program

Minimum budget of \$2/capita



- Percentage of city workers salaries spent on tree care
- Tree planting/watering/fertilizing
- Equipment rental/purchase/maintenance
- Arbor Day expenses
- Tree care conferences, workshops, memberships
- Value of volunteer labor

Prerequisites

4. Arbor Day Observance and Proclamation

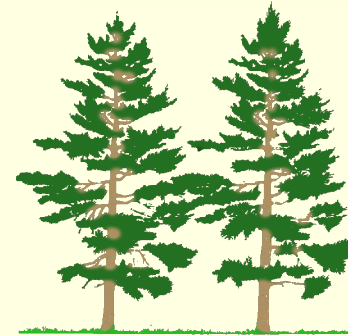
- Tree Planting
- Awards Ceremony
- Conservation Education
- Festival



Process

➤ Steps to become a Tree City USA

- Obtain application info online
- Meet the Four Standards
 1. Tree board or department
 2. Tree ordinance
 3. Community forestry program
 4. Arbor Day celebration
- Upload application documents by December 31 *No Fee!*



www.arborday.org
<http://txforestservation.tamu.edu>

Purpose through Process



Trees...

**Worth Our Time.
Worth Our Resources.**



*"To exist as a nation, to prosper as a state,
and to live as a people, we must have trees"*

-- Theodore Roosevelt

*"Every oak tree started out as a couple of nuts
who decided to stand their ground"*

-- Unknown



T E X A S
FOREST SERVICE
The Texas A&M University System

Trees Count

App and Inventory Starter Kit for Anyone

Gretchen Riley

Staff Forester

@LaArborista • griley@tfs.tamu.edu



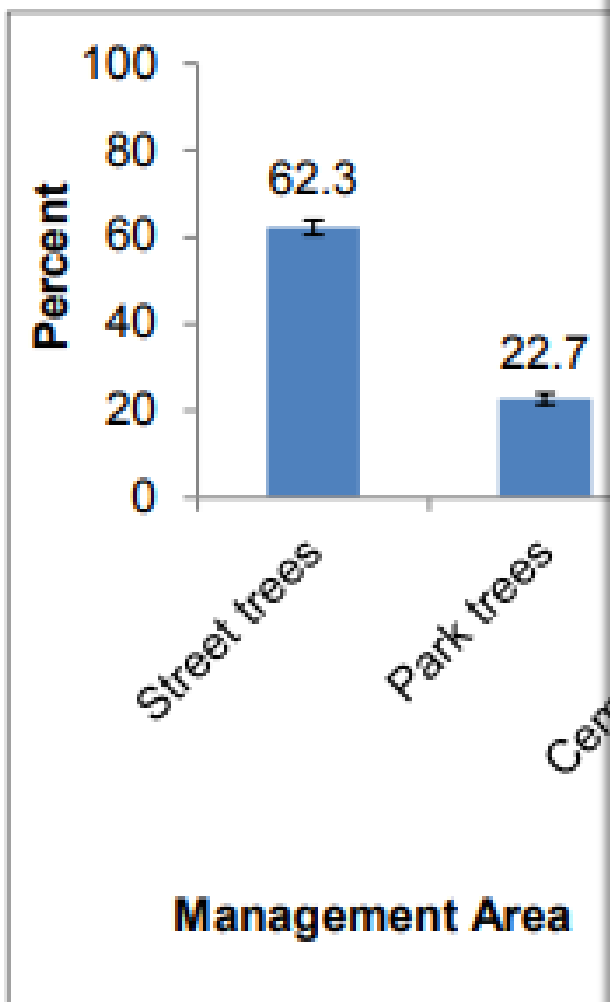
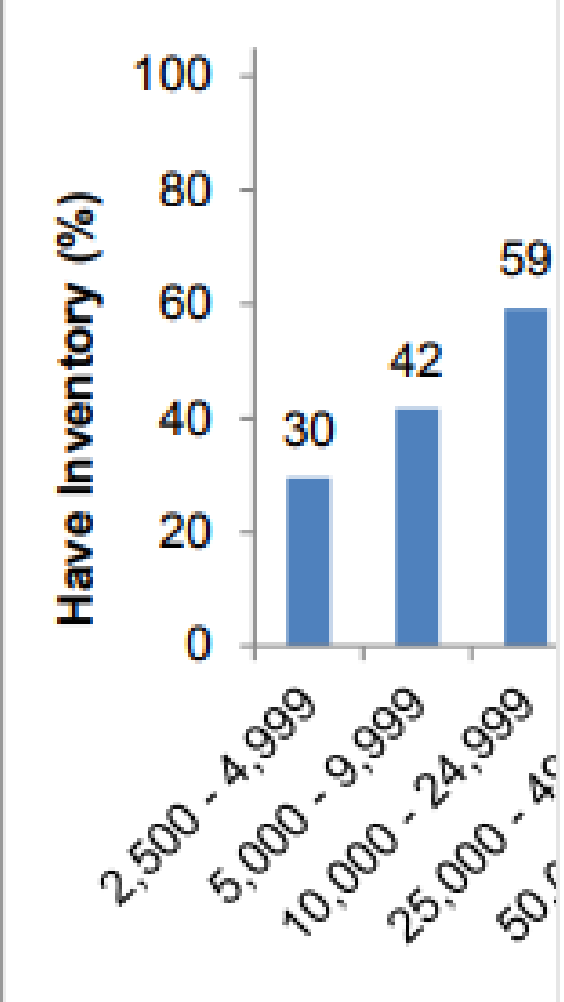
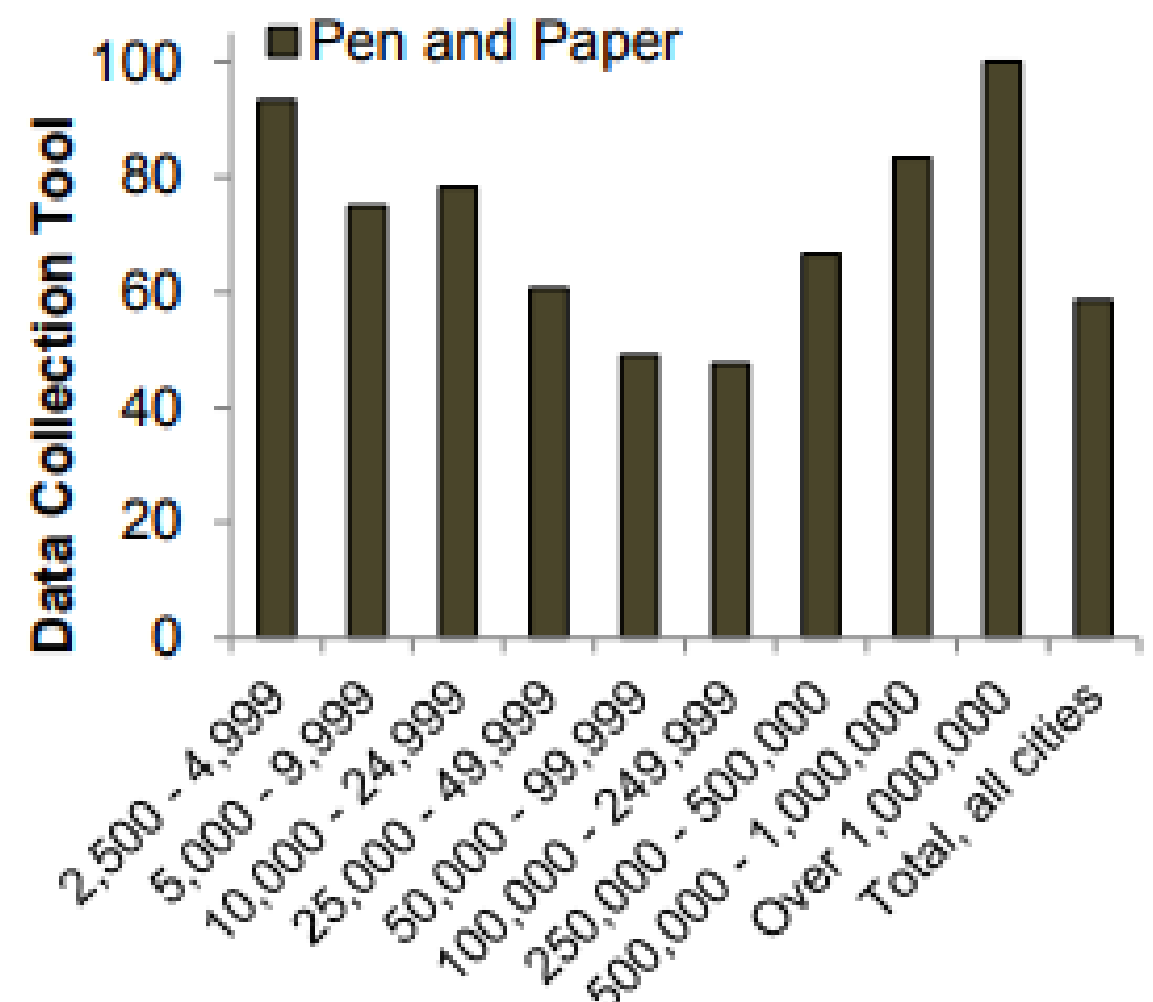


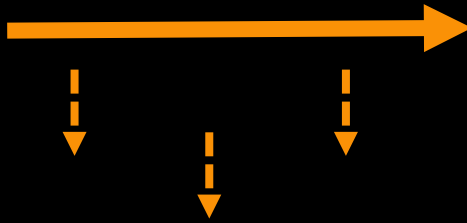
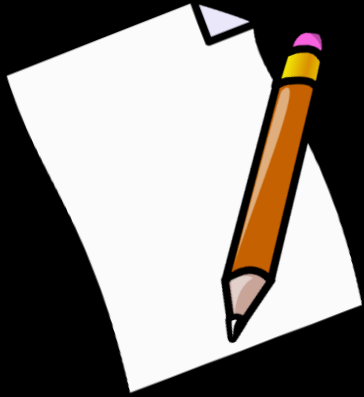
Figure 2-9. What percent of the following general areas?

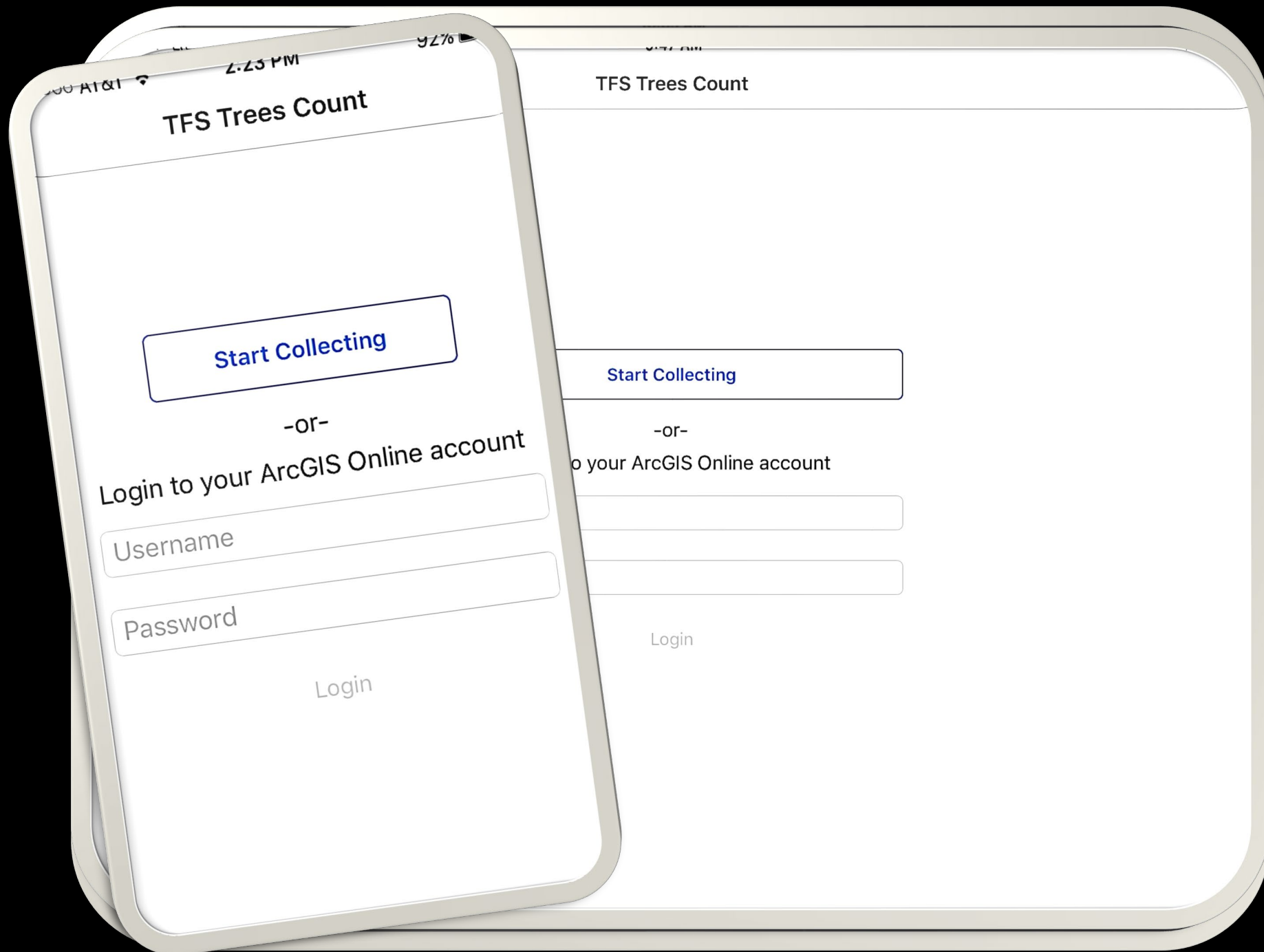


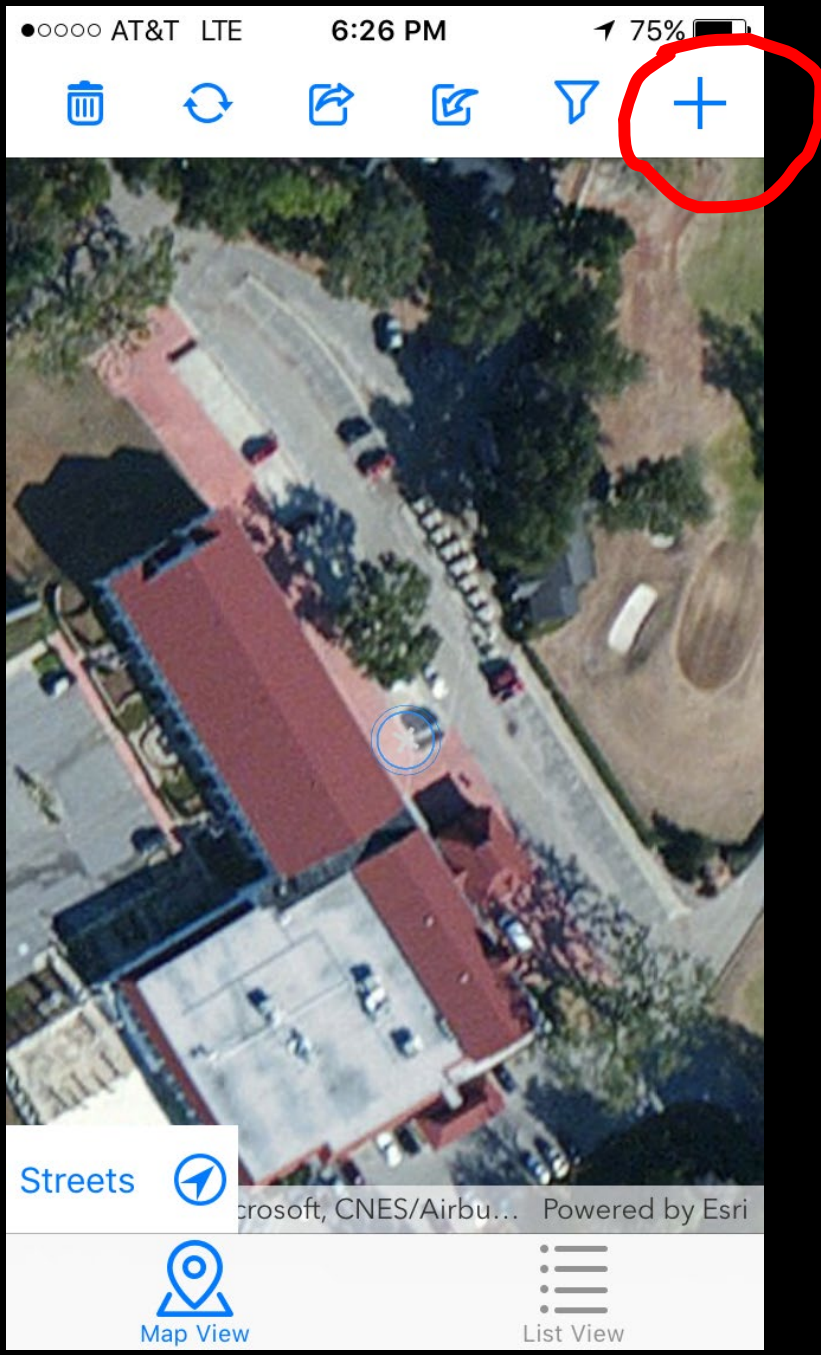
Population Group



Population Group







Updated
version has a
different
appearance

●●○○ AT&T 2:50 PM 90%

Tree **Save** Cancel

Crown Cleaning

Sidewalk

No Conflict

Overhead wire

Present & No Potential Conflict

Other Conflicts

On Public Land? ☒

Notes

Zoom

Delete



Land Use

- Parks
- Residential
- Commercial

Site

- Median
- Front yard
- Planting strip

Condition (based on % live crown)

- Dead/Dying
- Poor
- Fair
- Good

Maintenance

- none
- Routine
- Priority
- Critical

●○○○○ AT&T LTE6:57 PM71%

Filter TreesCancel

Landuse

Species

Species

Maintenance

Tasks

Conflicts

Apply Filter

Clear Filter

●○○○○ AT&T LTE6:57 PM71%

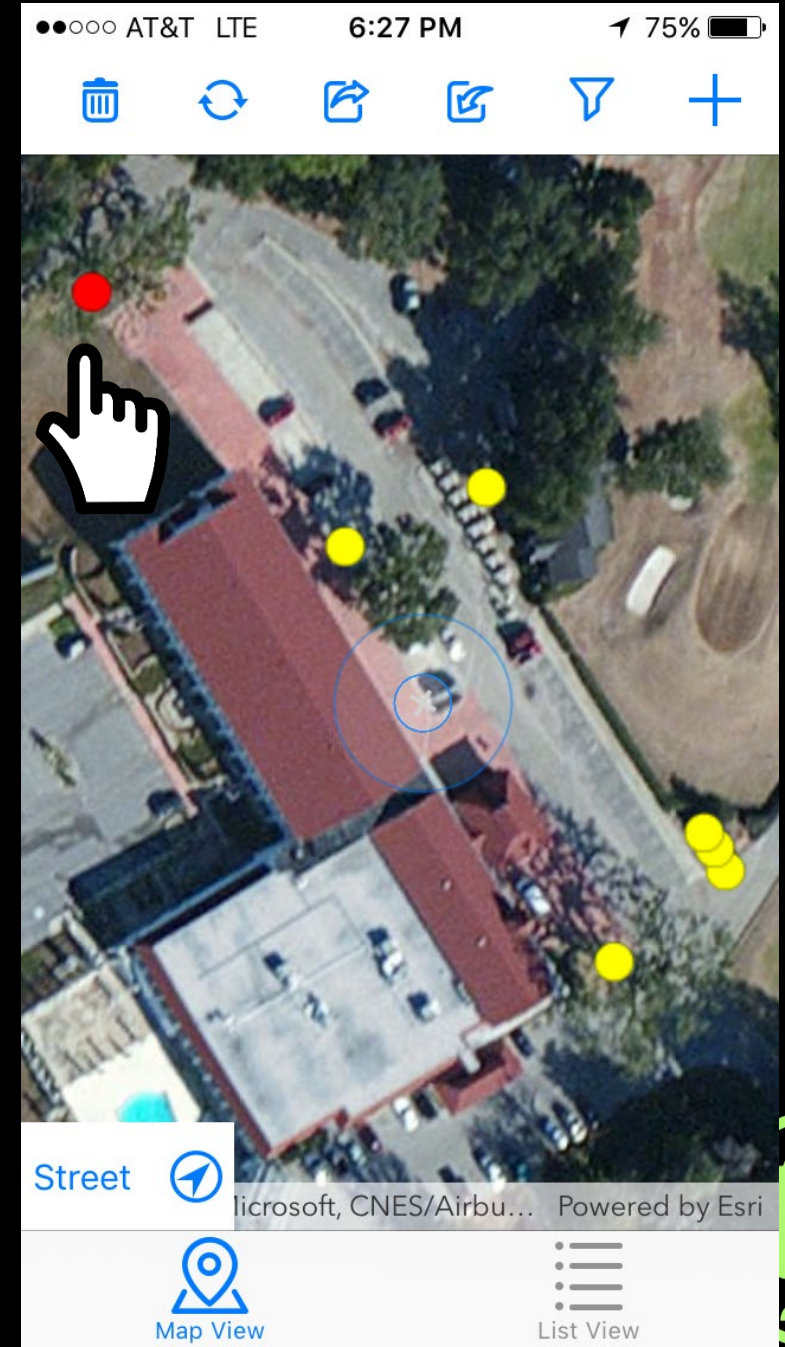
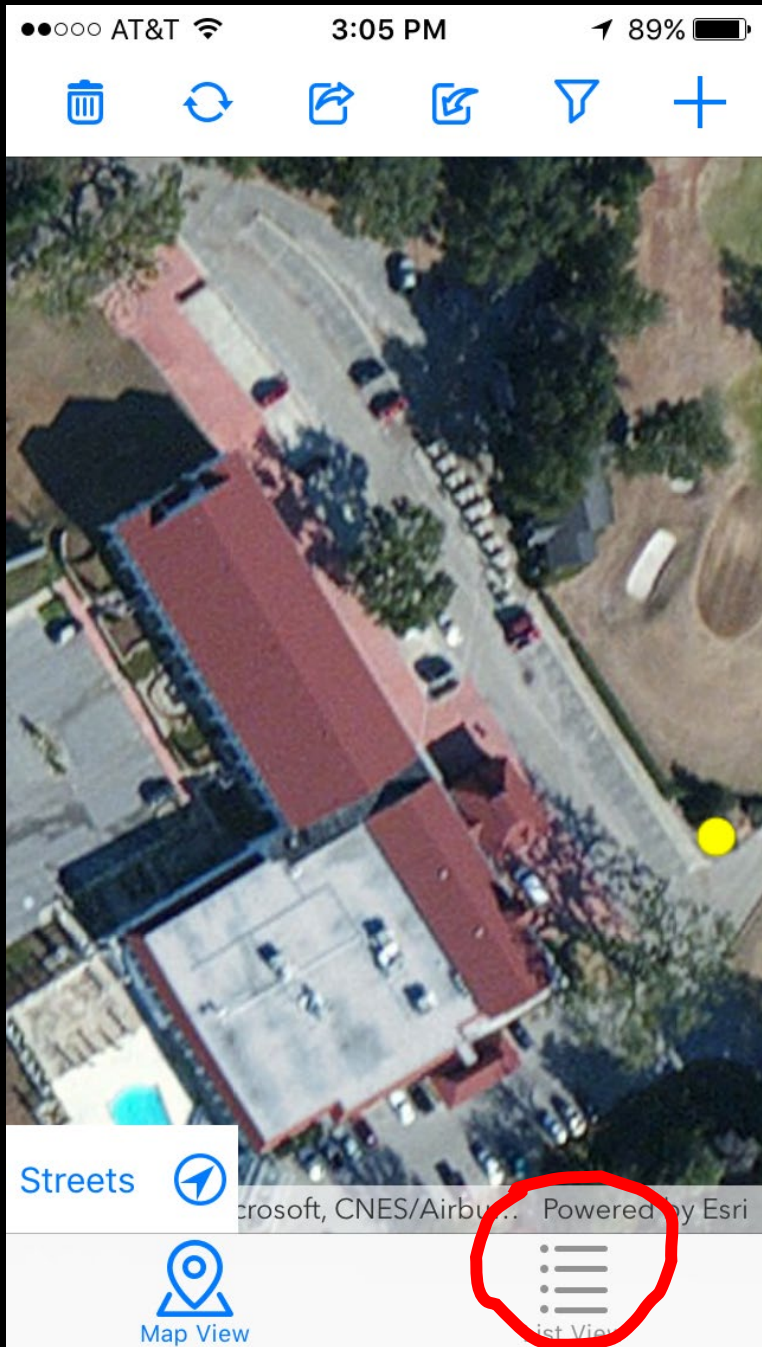
8 Trees

Live oak (Quercus virginiana)
52 inches
Southern magnolia (Magnoli...
6 inches
Eastern redbud (Cercis cana...
12 inches
Southern magnolia (Magnoli...
8 inches
Live oak (Quercus virginiana)
49 inches
Live oak (Quercus virginiana)
36 inches
Live oak (Quercus virginiana)
56 inches
Trident maple (Acer buergeri...
9 inches

Map View

List View





●○○○○ AT&T LTE 6:56 PM 72%

Filter Trees Cancel

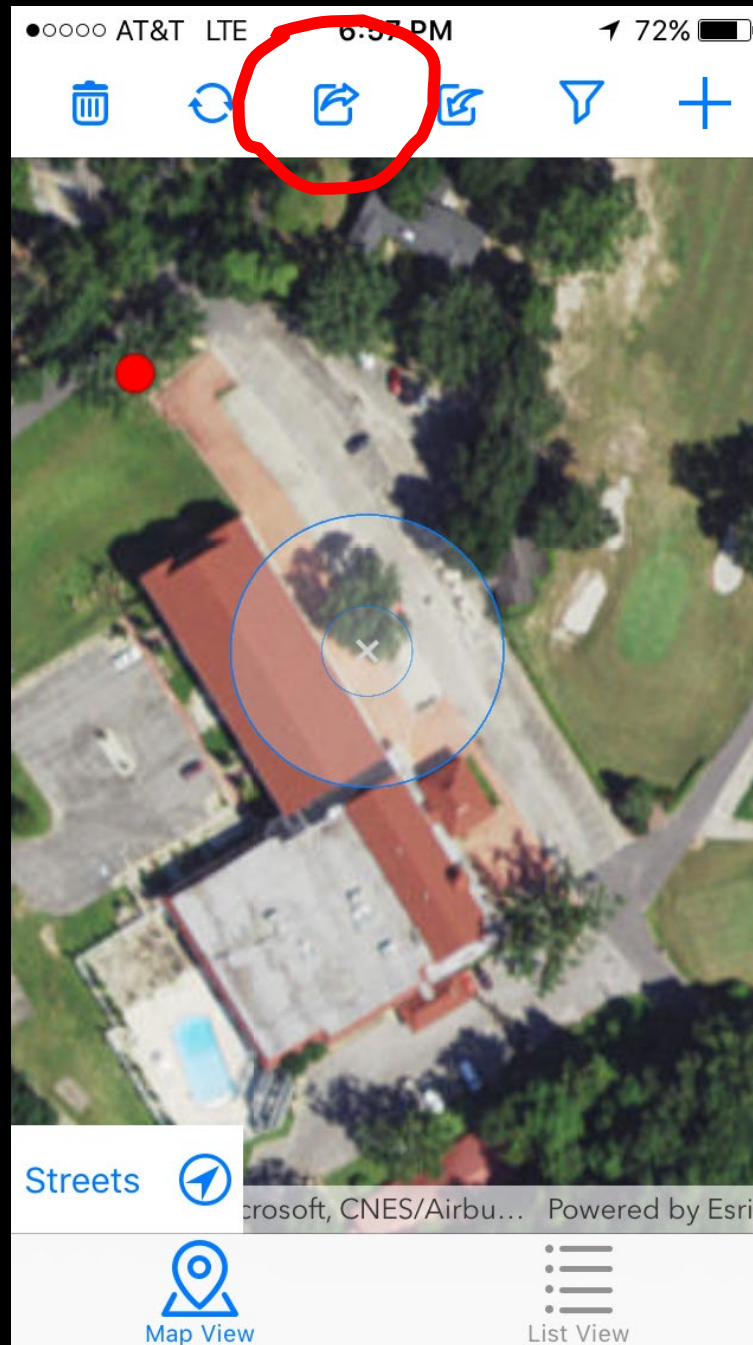
Landuse

Species

Maintenance

Done

None
Routine
Immediate
Critical



●●○○○ AT&T LTE 6:58 PM 71%

Cancel Gulf Hills CC Inventory Send

To: [Gretchen Riley](#)

Cc/Bcc:

Subject: Gulf Hills CC Inventory

TreesCount.csv

Gretchen Riley
Staff Forester
Texas A&M Forest Service
979.587.8135

Done TreesCount.csv

OBJECTID	Crew	CollectionDate	Latitude	Longitude
0	G	10/25/2017 12:26:57 PM	40.6635745335749	-111.497301
0	G	11/1/2017 6:15:38 PM	30.4273117846161	-88.8380326
0	G	11/1/2017 6:17:04 PM	30.4273925023437	-88.8378102
0	G	11/1/2017 6:19:13 PM	30.4276577476695	-88.8384325
0	G	11/1/2017 6:21:38 PM	30.4268699325904	-88.8374317
0	G	11/1/2017 6:22:36 PM	30.4269007360846	-88.8374493
0	G	11/1/2017 6:23:59 PM	30.4269215232045	-88.8374654
0	G	11/1/2017 6:25:19 PM	30.426745922333	-88.8376069



Done TreesCount.csv

 **AirDrop.** Tap to turn on Wi-Fi and Bluetooth to share with AirDrop.

facebook Save PDF to iBooks Copy to Tree Risk Import with Trees Count Import Sync

Print Add To iCloud Drive More

Cancel



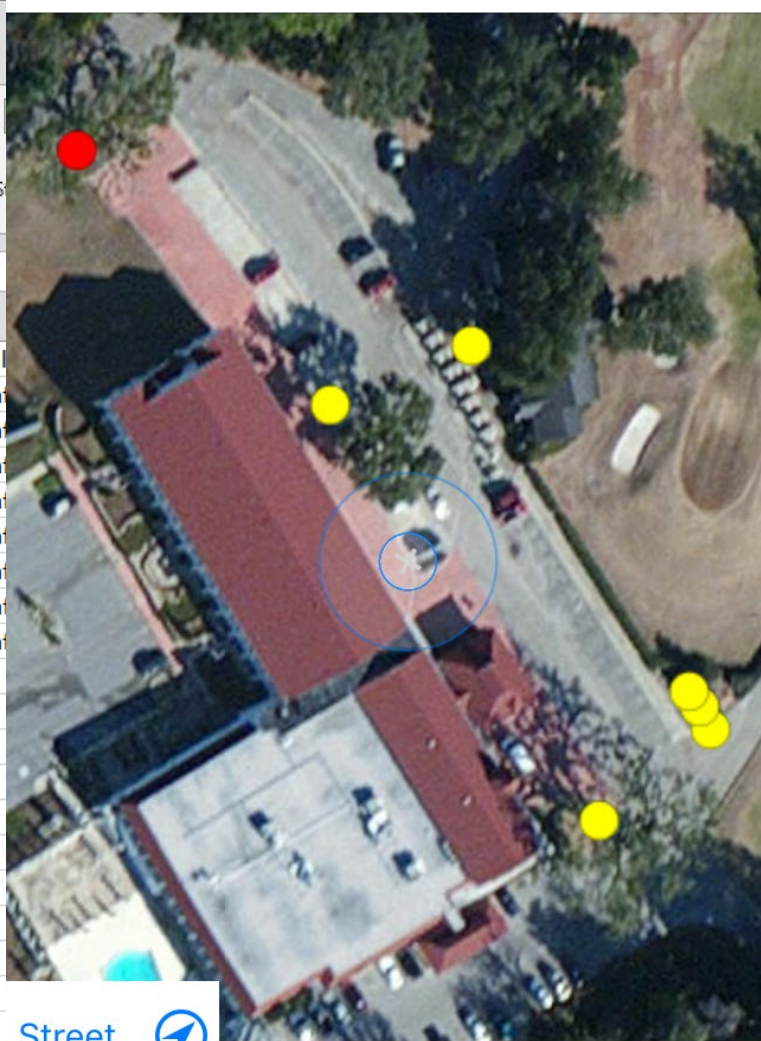


TreesCount.csv - Excel

DATA REVIEW VIEW ACROBAT

Wrap Text Merge & Center General Alignment Number Styles

F	G	H	I	J	K	L	M
Type	LandUse	Site	TreeDBH	Condition	Maintenar	Task	Sidewal
ic	Commerci	Cutout	9	Good (85%	Routine	Crown Rai	No Con
ic	Commerci	Cutout	56	Good (85%	None	None	No Con
ate	Commerci	Other Mai	36	Good (85%	Routine	Crown Cle	No Con
ic	Commerci	Planting St	49	Fair (60%	Critical	Crown Cle	No Con
ate	Commerci	Planting St	8	Good (85%	None	None	No Con
ate	Commerci	Planting St	12	Fair (60%	Routine	Structural	No Con
ic	Commerci	Planting St	6	Good (85%	None	None	No Con
ic	Commerci	Cutout	52	Poor (35%	Routine	Crown Cle	No Con



By Task

Page 1 of 2

Reports > Formatted Reports > Benefits and Costs > Pollution Removal by Trees and Shrubs > Monthly Removal

78% Page 2 of 4

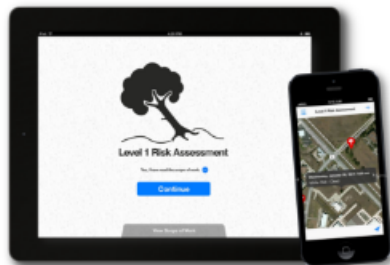
Pollution Removal by Trees and Shrubs- Monthly Removal

Location: Adrian, Lenawee, Michigan, United States of America
Project: Adrian, Series: Adrian_2012, Year: 2012
Generated: 11/12/2015



Pollutant	Month	Removal (t)			Value (\$) ¹		
		Mean	Max	Min	Mean	Max	Min
O3	Annual	7.616	9.291	4.608	3,471.93	4,235.92	4.61
	1	0.791	0.791	0.791	2,693.06	2,693.06	2,693.06
	2	0.753	0.753	0.753	2,566.79	2,566.79	2,566.79
	3	1.787	1.787	1.787	6,086.87	6,086.87	6,086.87
	4	1.342	1.342	1.342	4,572.88	4,572.88	4,572.88
	5	4.090	5.381	1.260	13,932.82	18,332.14	4,291.14
	6	5.627	7.330	1.122	19,167.88	24,971.46	3,823.34
	7	5.091	6.601	0.990	17,342.61	22,487.00	3,373.13

Mobile Apps



Tree Risk

The Level 1 Tree Risk Assessment app helps perform a limited visual tree assessment. It maps those trees with obvious defects that have a Probable or Imminent likelihood of failure and identifies treatment.

Designed for pre-and post-storm use this app can store tree assessments locally, export them via email or can be connected to ArcGIS Online.

[Download the Microsoft Access database application to explore the data.](#)

Download at:



[iTunes](#)



[Google Play](#)



Trees Count

Trees Count is a mobile app for iOS and Android devices that allows users to inventory trees in communities. Trees are mapped and characterized with informative attributes. Inventories can be transferred across devices. The data is iTree compatible and can be exported to CSV files that can be opened in Excel or imported into the companion Access database application for printing reports.

[Download the Microsoft Access database application to explore the data.](#)

Download at:



[iTunes](#)

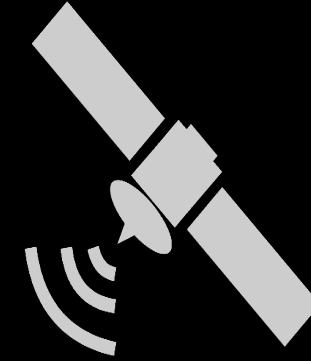


[Google Play](#)

TexasForestInfo.com



Applied Forestry



Using the Level I Tree Risk Assessment Mobile App



Gretchen Riley, MS, CF, CA #FL-0895AM TRAQ
Staff Forester & Partnership Coordinator





Tree Risk Management

Promotes the safety of people and property by providing a standardized and systematic process for assessing tree risk.

Level 1 Tree Risk Assessment Mobile App

Apple Store & Google Play

Level 1 – limited visual assessment to identify trees with an imminent or probable likelihood of failure [*and there is a target*]

ANSI A300 – Part 9 Tree Risk Assessment
an ISA Best Management Practices for Tree Risk Assessment



Likelihood of Failure

Imminent:

Failure has started or is likely to in the near future

Requires immediate attention to reduce harm to people

Probable:

Failure can be expected under normal conditions within the specified time frame

Target

People, property, or activity that could be injured, damaged or disrupted within striking distance of the tree part affected









Level 1 Risk Assessment



TEXAS A&M
FOREST SERVICE



Tool Limitations

This application is a tool for conducting a Level 1 Tree Risk Assessment (see ANSI Standard A300 – Part 9 Tree Risk Assessment and ISA Best Management Practices for Tree Risk Assessment). Level 1 is a limited visual assessment typically used for identifying trees with imminent or probable likelihood of failure. Obvious defects in trees are identified from one perspective. Additional assessment may be necessary to fully evaluate risk and make appropriate mitigation recommendations. The scope of work should note specifics beyond the limitations of this tool.

Whole trees must be greater than 6" DBH and Branches greater than 2" in diameter at break. Trees must be on or over public property and there must be an immediate threat to lives, public safety or improved property. Eligibility for FEMA



Procedures

- 1 - Select data transfer method
 - a - Use Local Data - to save on device and email as a CSV file, or
 - b - Login to your ArcGIS Online account
- 2 - Specify crew ID and assessment perspective (foot, vehicle or aerial) in the Crew text box
- 3 - Observe location icon on map and select Add Tree or "+" to place risk tree location
- 4 - On New Tree pop-up menu, select risk tree species, condition of concern, and recommended treatment
- 5 - Add desired comments in Notes field, including "Non-FEMA" during a post-disaster assessment if tree does not qualify for reimbursement under FEMA 325



Descriptions

Imminent

Failure has started or is most likely to occur in the near future, even with no significant wind or additional load

Probable

Failure may be expected under normal weather conditions within the specified time period

Condition of concern:

Identifiable tree part that has failed or is likely to fail

Crown (>50% loss)

Tree recommended for removal because it has lost greater than 50% of its crown volume

Lean/Uprooted (>30° lean or uprooted)

Tree recommended for removal because lean is greater than 30° or tree is



Back

Scope Of Work

Level 1 Tree Risk Assessment Scope of Work

Specifications: Level 1 limited visual assessment will be performed using the International Society of Arboriculture's Best Management Practices Tree Risk Assessment methods and in accordance with ANSI A300 standard practices for tree risk assessment.

Extent: All trees on all public lands accessible by selected mode, within the municipality of _____ or limited to the following specific areas as identified by the client/manager/owner:

Scope: The Level 1 assessment will be limited to one perspective of the tree and conducted as a (select one) ☐ walk-by ☐ drive-by ☐ fly-over of the public areas within the municipality or defined area. The assessment will:

- Identify trees larger than 6" DBH with obvious conditions of concerns that have an *imminent* or *probable* likelihood of failure
- Record tree location, species, and condition of concern
- Recommend mitigation
- Identify trees that need a higher level of assessment
- Report: ☐ Written ☐ Oral

Time Frame: The timeframe for likelihood of failure of the trees or tree parts in this assessment is 6 months

Assessment to be conducted for: _____ Title: _____

Assessment to be conducted by: _____ CA#: _____

Scope of Work Date: _____ Timeline to Assess: 1 week To Report: 48 Hrs

For FEMA eligible assessments this Scope of Work must be adjusted to reflect FEMA 325 Debris Guidelines

Level 1 Risk Assessment

Yes, I have read the scope of work



Continue

[View Tool Limitations](#) [View Descriptions](#)

[View Procedures](#) [View Scope Of Work](#)

[Cancel](#)

Log in to your ArcGIS Online account

Don't have an account? Change
your settings or continue by
selecting "Use Local Data"

[Use Local Data](#)[Sign In](#)

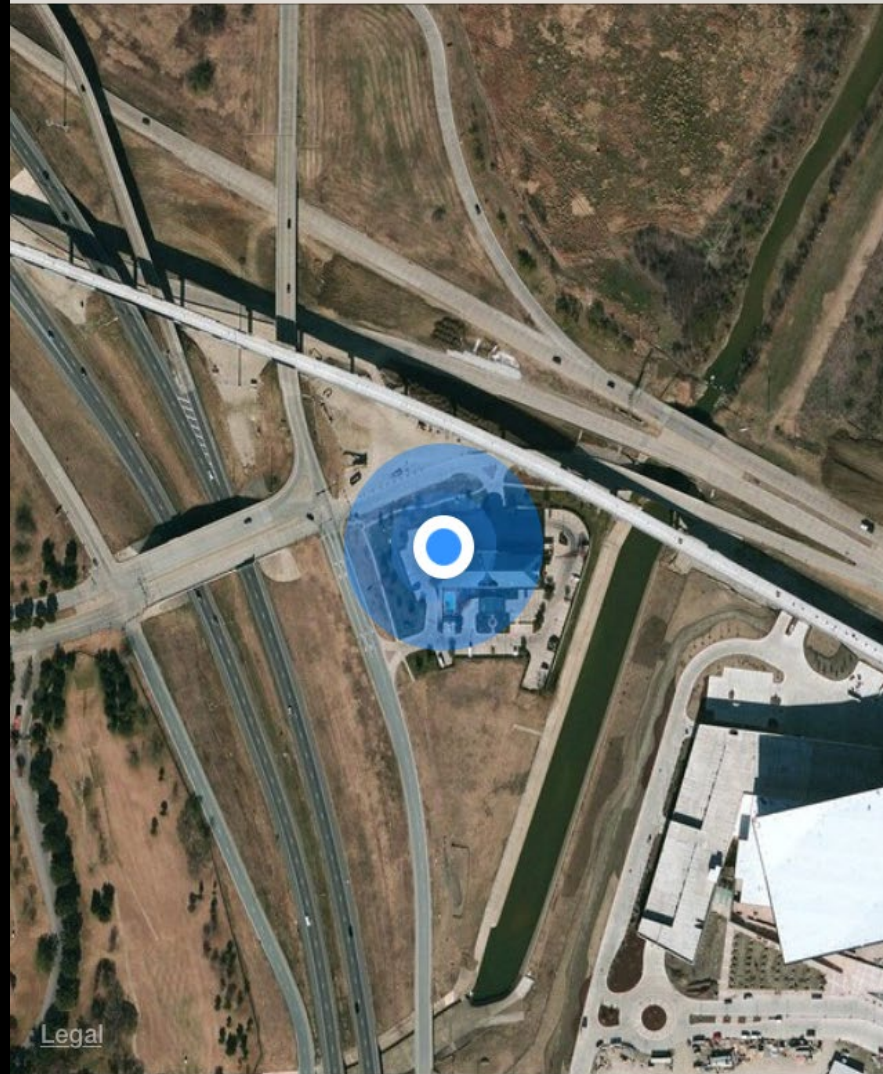
●●●● AT&T 4G

8:36 PM



List

Level 1 Risk Assessment



Street Map



Cancel

New Tree

Save

2/19/2015 8:36 PM

32.879723° N, 96.945770° W

Crew

Genus

Tree DBH

Concern

Condition of Concern

Treatment

Notes

Help



Select Genus

, /

Hornbeam (Carpinus)

Hickory (Carya)

Pecan (Carya)

Chestnut (Castanea)

Sheoak (Casuarina)

Catalpa (Catalpa)

Cedar - True (Cedrus)

... ~ ...

Cancel

●●●● AT&T 4G

8:36 PM



Cancel

New Tree

Save

2/19/2015 8:36 PM

32.879723° N, 96.945770° W

Select Tree DBH

6" - 12"

13" - 24"

25" - 36"

37" - 48"

> 48"

Cancel

●●●● AT&T 4G

8:37 PM



Cancel

New Tree

Save

2/19/2015 8:36 PM

32.879723° N, 96.945770° W

PJohnson

Hackberry (Celtis)

13" - 24"

Select Treatment

Removal - Immediate

Removal - Priority

Level 2 Assessment

Cancel

●●●●● AT&T 4G

8:42 PM



Cancel

New Tree

Save

On Private Land?

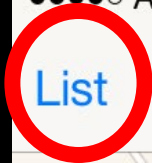
Yes

No



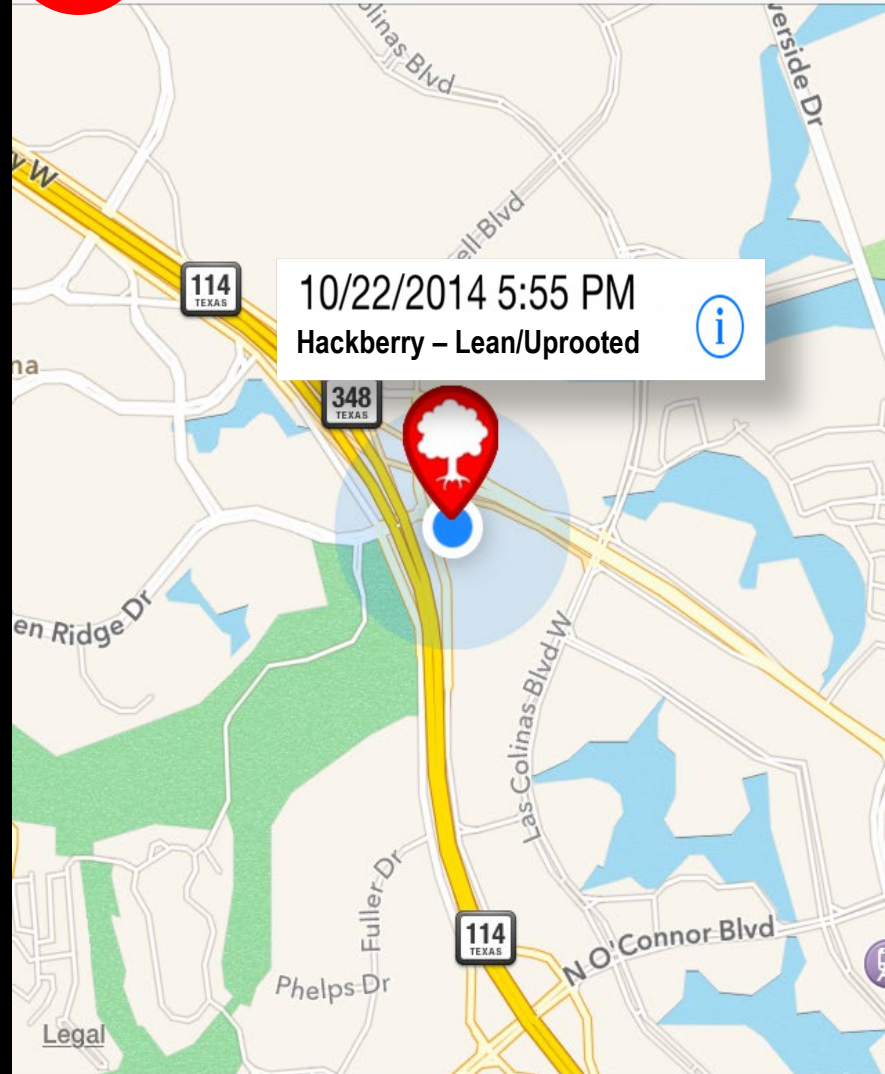
Help





List

Level 1 Risk Assessment



Satellite Map



Filters - Removal

Immediate



Priority



Level 2 Assessment



Filters - Pruning

Immediate



Priority



Level 2 Assessment



Swipe Down To Dismiss

[Cancel](#)**Trees List**[Send](#)

To:

Cc/Bcc:

Subject: Trees List

Find attached a CSV export from TFS
Level 1.



Level1-CSVExport.csv

Gretchen Riley
Texas A&M Forest Service



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iTunes



Google
Play

TexasForestInfo.com

**TEXAS A&M**
FOREST SERVICE

Texas Forest Information Portal

[Home](#) [Support](#) [Contact](#) [Sign Up](#)



QUALITY OF LIFE

Trees where we live, work, and play – that's the urban forest. Sustainable urban and community forestry programs enhance the social, economic, and environmental benefits that healthy trees and forests provide to Texans.

[Learn More](#)

Discover & Explore an array of maps depicting forest conditions

Query & Download data and reports on a variety of forest interests

Applications

Timber Supply Analysis 

Forest Distribution 

Forest Ecosystem Values 

Economic Impact 

Map My Property 

Urban Tree Canopy 

Forest Products Directory 

Timber Decision Simulator 

Tree Trails 

Forest Drought 

Plan My Land Operation 

My City's Trees 

Forest Action Plan 

Mobile Apps 

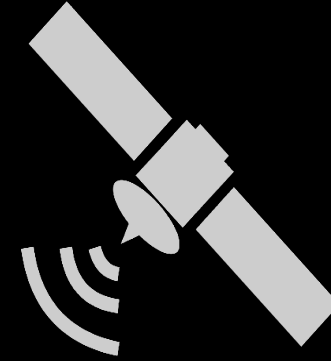
Story Maps Gallery 

About this Portal

Through Texas Forest Info, Texas A&M Forest Service provides landowners, managers, government officials, local community groups, and the public state-of-the-art access to information about trees and forest lands across the state. Click [here](#) to subscribe to notifications of updates.

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Thank You



Gretchen Riley, MS, CF, CA FL-0895AM TRAQ
Staff Forester / Partnership Coordinator

griley@tfs.tamu.edu

TexasForestInfo.com



COMMUNITY FORESTRY PROGRAM

"Helping communities develop sustainable programs that provide Texans with healthy trees and forests."

College Station



Mac Martin
Program Leader
mac.martin@tfs.tamu.edu
979-458-6600 (O)
979-402-1339 (C)

College Station



Partnership Coordinator

Fort Worth



Courtney Blevins
Regional Urban Forester
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Dallas



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254-451-8225 (C)

Longview



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dduncum@tfs.tamu.edu
903-297-4968 (O)
936-546-3143 (C)

Amarillo



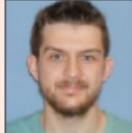
Ethan Law
Woodland Ecologist
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806-477-1771 (O)
806-316-6560 (C)

Lubbock



Meghan Mahurin
Woodland Ecologist
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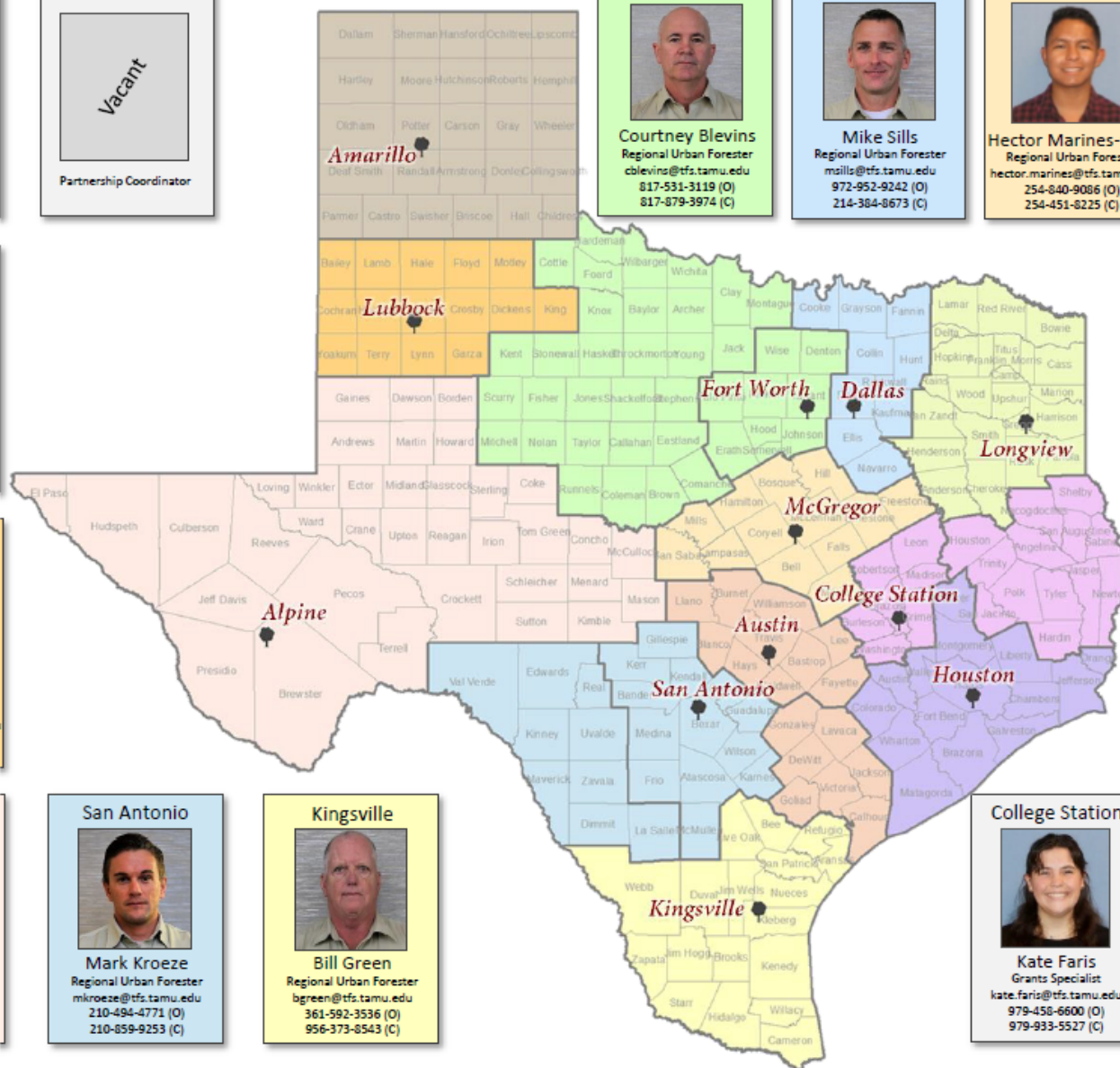


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Houston



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COMMUNITY FORESTRY GRANTS

TEXAS A&M FOREST SERVICE

- Request for Proposal will be released **Fall 2024**
- Projects including tree plantings, Tree City USA, hiring a Municipal Forester, and more have been seen in previous years.



WEBPAGE

ELIGIBLE ENTITIES

- Non-Profits
- Municipalities School
- Districts Tribal Entities
- State Agencies



JOIN OUR NEWSLETTER!



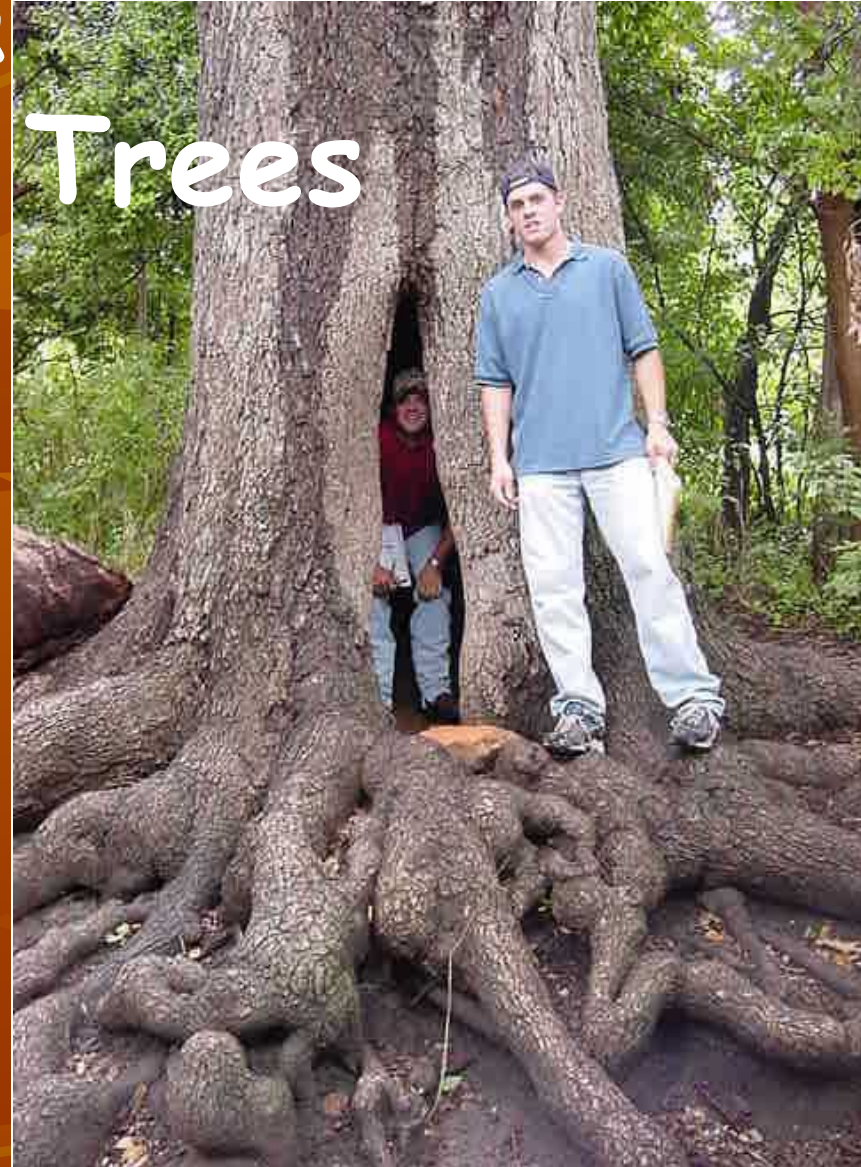
Tree Basics (Biology)



Courtney Blevins, CF, BCMA
Cross Timbers Regional Forester
Ft. Worth, Texas
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Common Insect & Disease Pests of Trees

Courtney Blevins, CF
Regional Urban Forester





Oak Wilt in Texas

and the

Texas Oak Wilt Suppression Project

Tree Identification

ISA Certified Arborist

Study guide for the Arborist Certification
exam of the International Society of
Arboriculture.



Courtney Blevins
Texas A&M Forest Service, Ft. Worth
cblevins@tfs.tamu.edu

Installation & Establishment

Courtney Blevins
Regional Urban Forester



Construction Damage & Prevention

Presented by: Courtney Blevins, Ft. Worth Region



Construction damage, mostly soil compaction, is one of the greatest causes of tree death & decline in urban areas.

Trees – What, Where & Why

Courtney Blevins, CF
Regional Urban Forester



TEXAS A&M
FOREST SERVICE

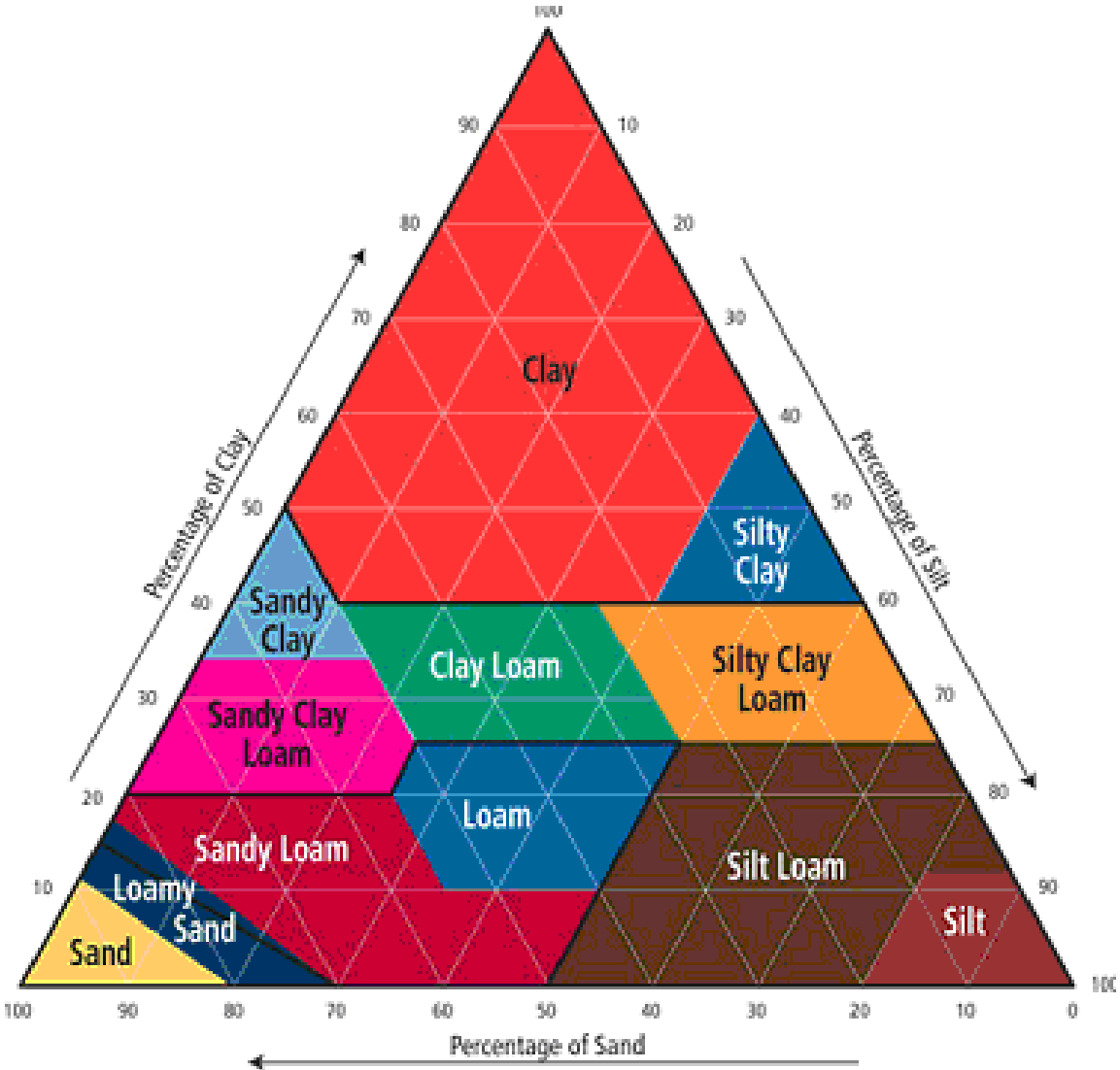


Pruning Basics



Courtney Blevins, CF, BCMA
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Soils, Water, Fertilization, & Construction



Current Trends, Standards, and BMP's for Tree Risk Assessment

33rd Annual Texas Tree Conference – Waco, TX – September 27, 2012



Skip Kincaid

Senior Consulting Urban Forester

Davey Resource Group

ISA Board Certified Master Arborist MW-0155BM

SAF Certified Forester #1516



Wrap-Up

- If you submitted a RSVP for this meeting, you will receive an email with the presentation slides.
- If you did not RSVP and would like these meeting materials, please email aknox@nctcog.org.

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North Central Texas
Council of Governments

Thank you for attending!

June 5, 2024

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www.nctcog.org/WaterResources