

UFMP Workshop

UT Knoxville April 19, 2023, 3-5 p.m.

AGENDA

- Welcome
- Presentation
 - The Why
 - The How
 - What We've Learned To-Date
- Group Discussions

KnoxvilleTreePlan.org



COMMUNITY EVENTS

May 4: Virtual UFMP Open House (Zoom)

May 11: UFMP Open House at Cansler YMCA

Details can be found at KnoxvilleTreePlan.org

How We Got Here

Efforts leading up to UFMP

2011: City tree inventory and management Plan

• 100,000+ trees across 1,000 miles of streets, parks

2012: Improvements to city urban forest program

• Overhauled our planting contract, education, developed a pruning cycle, volcano mulching, updated tree protection ordinance, outreach, etc.

2015: Creation of Trees Knoxville

• Creating tree canopy partner, helping to bridge between public and private stakeholders

2020: Urban Tree Canopy Study - 38%

- Measured amount and change of tree canopy in 2008 and 2018 (GIS analysis)
- Partnerships: Trees Knoxville, City of Knoxville, TN Dept. of Ag/Forestry, Knoxville Utilities Board (KUB), Knox County, TVA, Knoxville Garden Club

2023: Urban Forest Master Plan

- City and Mayor budgeted for 2022-2023 Fiscal Year 50% of project to be run through TK
- Trees Knoxville raises funds, puts out RFP In July 2022, acquires funding from City, State, KUB, Keep Knoxville Beautiful and TN Dept. of Ag/Forestry
- Consultant Urban Canopy Works selected October, project kick-off December 2022.





Urban Canopy Works



Urban Forest Planning

Strategic planning (UF Master Plans)

Tree canopy assessments

Existing conditions analysis

Public engagement

URBAN FOREST MASTER PLAN

Existing policy/plan/code reviews



Municipal Services

City arborist services

Code/regulation reviews

Operations analysis

Urban Tree Canopy (UTC) assessments

Special Projects (tree planting contract management, planting plan design, inventories, more)



Arboricultural Consulting

Risk assessment (realtors, campuses, other grounds)

Development/Construction Services

Appraisal / Assessment Services

Appraisals for insurance losses (post hurricanes and other storms)

Urban Forest Master Plan

What exactly is it?

UF Management Plan

- 3-5 year plan for operations (City, campus, large properties)
- Dictates annual budget and resources needed to care for those trees only
- Directs daily and seasonal work
- Based on data and arboricultural best practices

UF Master Plan

- 10-20 year <u>strategic plan</u> for <u>entire community</u> and <u>entire urban forest.</u>
- Sets goals for urban forest overall
- Dictates initiatives that will be needed over coming decades
- Based on existing conditions data, <u>priorities</u> <u>and goals of community</u>, together with urban forestry best practices



Knoxville Plan

Community Focused

Over 22,000 acres of tree canopy in City of Knoxville (38%)

Approximately 75% on privately owned land.



The Why

Knoxville Trees SOLUTIONS to Urban Challenges

- 01 | Public Health
- 02 | Heat Stress in Communities
- **03** | Improving Quality of Life & Neighborhood Revitalization
- 04 | Improving Walkability
- 05 | Aging in Place

URBAN FOREST MASTER PLAN

- 06 | Successful Business Districts
- 07 | Flooding Reduction with Green Infrastructure
- 08 | Carbon Sequestration / GHG Reduction

Key Piece of Improving Human Health

Existing trees in Knoxville removes about **1.4 million pounds of pollutants** each year, **valued at \$4,800,000** of annual benefits.

(County - 9.2 million pounds / \$18 million)

- 01 | POLLUTION REDUCTION
 - Air quality improvements: Tree canopy filters the air and removes up to 60% of street-level air pollution including carbon dioxide, ozone, nitrogen dioxide, sulphur dioxide (a component of smog), and small particulate matter (PM, i.e., dust, ash, dirt, pollen, and smoke).
 - Ozone and particulates can especially aggravate existing respiratory conditions (like asthma) and create long-term chronic health problems according to the American Lung Association.
 - New York City saw a decrease of almost 30% of asthma in young children after increasing its tree canopy through installation of over 300 trees per square kilometer.
 - A 2020 Harvard University study showed that long-term exposure to air pollution (PM2.5 specifically) **increases the risk of** death in those with COVID-19.
 - The American Lung Association has found "growing evidence that vehicle emissions coming directly from those highways may be higher than in the community as a whole, **increasing the risk of harm to people who live or work near busy roads.**
 - Water quality improvements: Polluted water is a major cause of human health issues and degrades the local ecology.
- 02 | HEAT/TEMPERATURE MANAGEMENT. Urban areas with trees are 15-25°F cooler
- 03 | DIRECT MENTAL / PHYSICAL HEALTH IMPACTS
 - Urban trees create feelings of relaxation and well-being, and provide environments that encourage outdoor activities.
 - Studies have shown that individuals with views or access to greenspace tend to be healthier;
 - employees experience 23% less sick time and greater job satisfaction, and
 - hospital patients recover faster with fewer drugs.
 - Trees have also been shown to have a **calming and healing effect**

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on ADHD adults and teens.

Knoxville Trees Key Piece of Heat Reduction

Urban areas without trees are 15-25°F hotter than nearby, less developed areas. Heat stress has been proven to cause significant public health problems and even mortality.

- Each year, **more Americans die from extreme heat** than all other natural disasters combined (i.e., hurricanes, floods, tornadoes, lightning).
- The cooling effect of one healthy tree is equivalent to **10 room-sized air** conditioners operating **20 hours a day.**
- The shade of properly-placed trees can **save residents up to 58% on daytime air conditioning costs**, while mobile homeowners can save up to 65%.

CRITICAL to Vulnerable Groups - Trees are part of EQUITY Conversation!

• All Knoxville must have access.

URBAN FOREST MASTER PLAN

- AGE. Those over 65 or under age 5 are especially vulnerable to heat-related health problems.
- INCOME. Low income households have high "energy burden." One recent study found that low-income households face an energy burden three times
 higher than other households.

Improving Quality of Life & Neighborhood Revitalization

01 | ...via ambient temperatures (15-25 degree reduction)

02 | ...via less noise and pollution from nearby highways

A 100-foot-wide, 45-foot high densely-planted tree buffer can reduce highway noise by 50%. Up to 60% reduction in air pollution.

03 | ...via stronger sense of community

Residents of apartment buildings surrounded by trees reported knowing their neighbors better, socializing with them more often, having stronger community, and feeling safer and better adjusted than did residents of more barren, but otherwise identical areas.

04 | ...via less crime

A Baltimore study found that a 10% increase in tree canopy was associated with a roughly 12% decrease in crime.

Another study showed outdoor areas populated with trees tend to suffer less from graffiti, vandalism, and littering than their treeless neighbors.

05 | ...via real estate values

Trees increase residential property and commercial rental values by an average of 7%.

01 | COMFORT (pleasant experience)

...via shade: temperature reductions 15-25 degrees **...via ambience:** pleasant surroundings matter in vibrant communities

...via noise reduction: A 100-foot-wide, 45-foot high densely-planted tree buffer can reduce highway noise by 50%.

02 | SAFETY

...via slower traffic: According to the Federal Highway Administration, tree canopy along a street provides a narrowing speed control measure by creating a "psycho-perceptive sense of enclosure" that discourages speeding.

...via less aggressive driving: Traffic speeds and driver stress levels have been reported to be lower on tree-lined streets, contributing to a reduction in road rage and aggressive driving.

What does walkability mean to Charlotteans?

Over 500 people participated in a visual preference survey to help determine the specific characteristics of a Safe, Useful and Inviting walk. Participants were asked to choose from among 11 different options in each category, or write in their own. The percentages listed below indicate the percent of participants who voted for that option as their top choice in each category. In each case, the top three images in each category - Safe, Useful, and Invitng - account for over half of the total vote.

SAFE - What types of treatments make you feel safest when you walk?

#1 Sidewalks: (36%)

#2 Planting Strip (buffer from cars): (13%)

#3 Streetlights: (13%)

USEFUL - If you could, what places and activities would you walk to?

#1 Grocery Store/Market: (20%)

#2 Restaurant/Bar: (19%)

#3 Park/Greenway: (15%)

WITING - What types of features make a walk comfortable and attractive?

#3 Buildings and Activities near the Sidewalk: (14%)

Charlotte WALKS | City of Charlotte, NC

DRAFT

Important to Aging Populations

02 | ...via moderated temperatures 15-25 degrees less

02 | ...shaded rest areas i.e. benches under trees

02 | ...via slower traffic

AARP Livability Fact Sheet Street Trees

To quote a Chinese proverb, "The best time to plant a tree was 20 years ago. The second best time is now." Here's why tree-lined streets matter

AARP Livable Communities

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₽,

Is there a tree on the street where you live? Hopefully there's a least one tree, ideally there are many!

In a neighborhood setting, street trees provide shade, safety, greenery, storm mitigation, energy savings and fresh air. Trees also buffer street noise, enhance privacy and help hide unattractive views. (What would you rather look at? A tree or a brick wall!?)

The U.S. Forest Service estimates that the presence of street trees increases adjacent home values by an average of \$13,000. The National Main Street Center reports that a good tree canopy can increase retail sales by 12 cents on the dollar in large cities and 9 cents on the dollar in small ones

Street Trees

Knoxville Trees More Successful Business Districts

Consumers showed a **willingness to pay 11% more** for goods and **shopped for a longer period of time** in shaded and landscaped business districts.

Consumers also **felt that the quality of products was better** in business districts surrounded by trees.

Where would YOU rather shop?

Reductions in Flooding

...intercept rain a number of ways

- Holding water (on leaves, trunk) to delay water reaching ground
- Better ground infiltration thanks to roots and leaf litter
- Using water rain is absorbed into tree itself
- **Reduces erosion** from runoff
- **Cleans runoff** especially important around streams, etc.

Especially important with our cities growing and climate warming resulting in more storm events.

- Reductions in **stormwater management costs accounted for over 60% of the environmental services** provided by street trees.
- A single **oak tree can absorb over 40,000 gallons** of stormwater each year.

NOTE: Put them where they can do the most!

Existing trees in Knoxville intercept / avoid 2.2 billion gallons of runoff each year, valued at \$3,100,000 annually.

(County - 14.6 billion gallons / \$12 million)

Carbon Sequestration / GHG Reduction

Reducing/Slowing Climate Change by intercepting CO₂ in a number of ways (<u>mitigation</u>)

- One large tree can **absorb** 48 lbs of CO₂ every year to make sugars for food. AND release O₂ in the process.
 One acre of trees **stores** the same
- One acre of trees **stores** the same amount of carbon dioxide released by driving 26,000 miles.

Planting new trees is one of many avenues to reduce atmospheric carbon dioxide (CO₂).

Adapting to climate change (KEY)

• Temperature reductions & air and water quality improvements

Trees are a part of climate change goals.

Existing trees in Knoxville:

STORES:

767,000 tons of carbon, valued at \$130 million.

ABSORBS ("sequesters") ANNUALLY: 4,000 tons of CO₂, valued at \$3.6 million annually.

County: Stores 5.5 million tons / \$946 million Sequesters 100,000 tons annually / \$17 million annually

Two Important Points to Note

1. Mature trees do more.

Larger, mature trees provide exponentially more services. **Preservation of existing trees is extremely important!**

A 30" diameter oak removes 70 times more pollutants from the air than a 8" diameter oak.

2. Trees pay off.

Positive ROI: A five-city study found that cities accrued benefits ranging from \$1.50–\$3.00 for every one dollar invested in trees (EPA 2015).

Project Process

Discovery: Self Assessment Approach

Kenney, W. A., et al. 2011. "Criteria and Indicators for Sustainable Urban Forest Planning and Management." Arboriculture & Urban Forestry 37(3): 108 – 117. Clark, J. R., et al. 1997. "A Model of Urban Forest Sustainability." Journal of Arboriculture 23(1): 17 – 30.

Structure for Self Assessment

	KNOXVILLE (TN) licators of a Sustainable Urban Forest		Assessed Score		
Indica			Low	Mod.	Good
	Urban Tree Cano	Urban Tree Canopy Cover			
	Equitable Distribution				
	Streets & Parks (public, landscape)	Age/Size Distribution			
		Condition		1	
		Diversity / Pest Vulnerability			
		Suitability - Overhead			
		Suitability - Ground Level			
		Suitability - Soil Conditions			
		Suitability - Invasives			
		Suitability - Cllimate Adaptability			
	Natural Areas / Woodlands (public or private)	Age/Size Distribution			
		Condition			
The		Diversity / Pest Vulnerability		Ĵ.	
Trees		Suitability - Overhead			
		Suitability - Ground Level			
		Suitability - Soil Conditions			
		Suitability - Invasives			
		Suitability - Cllimate Adaptability			
	All Other Lands (primarily private)	Age/Size Distribution			
		Condition		5 · · · · ·	
		Diversity / Pest Vulnerability			
		Suitability - Overhead			
		Suitability - Ground Level			
		Suitability - Soil Conditions		Ĵ.	
		Suitability - Invasives			
		Suitability - Cllimate Adaptability			

KNOXVILLE (TN) Indicators of a Sustainable Urban Forest		Assessed Score		
		Low	Mod.	Good
	Neighborhood Action			
	Large Landholder Involvement			ĺ.
	Green Industry Involvement			
The Players	City Department/Agency Cooperation			
(with AG Voting	Funder Engagement			
Results)	Utility Engagement			
	Developer Engagement			
	Public Awareness			
	Regional Collaboration			
	Tree Inventory			
	Canopy Assessment			
	Management Plan			
	Risk Management Program			ĺ.
_	Maintenance of Publicly-Owned Trees (ROWs)			
The Mgmt	Planting Program			
Approach	Tree Protection Policy			
	City Staffing and Equipment			
	Funding			
	Disaster Preparedness & Response			
	Communications			

UFMP Process

Three Phases

Phase I: Project Launch (Nov/Dec '22)

Phase II: Discovery (Jan-Jun '23)

Phase III: Plan Development (Jul-Oct '23) Timeline: January - June 2022

Focus:

- 1. What exists or is in place currently?
- 2. Where do we want to go?

Research/Analysis

Phase II: Discovery

- Tree canopy trends
- City public tree Inventory
- Impact of climate
- Invasives and natives
- Planting strategies
- Prior urban forest efforts
- Broader city plans
- Review of City operations
- Review of City policies/code
- Intersections of Trees
 Knoxville, City and County

Engagement

- Advisory Group (80-100 ppl)
 - 3 Workshops
- Interviews (15+)
- Community input form online
 - <u>www.knoxvilletreeplan.org/you-tell-us.html</u>
 - Open through May
- Community Events
 - April 19 UFMP Workshop at UT
 - May 4 Virtual Open House (Zoom)
 - May 11 In-Person Open House -Cansler YMCA
- Speaking Circuit

UFMP Process

Three Phases

Phase I: Project Launch (Nov/Dec '22)

Phase II: Discovery (Jan-Jun '23)

Phase III: Plan Development (Jul-Oct '23)

Phase II: Discovery

Engagement

- Advisory Group (80-100 ppl)
 - 3 Workshops

Citywide Community Events

- April 19 UFMP Workshop at UT 0
- May 4 Virtual Open House (Zoom) 0
- May 11 In-Person Open House at 0 Cansler YMCA

** Please help us promote these events!

Group Meetings (outreach presentations)

- Knoxville Neighborhood Advisory Board 1/11/2023
- Water Quality Forum 1/12/2023 0
- UT Grounds Management Short Course 1/19/2023 0
- Dogwood Arts Home and Garden Show 2/10/2023 0
- 4th and Gill Neighborhood (Woolly Bears 2/13/2023 0
- South Knoxville Open House 2/13/2023 0
- CoK Greenways Commission 2/14/2023 0
- Knoxville- Knox County Food Policy Council 2/15/2023 0
- 0 North Hills Garden Club 2/16/23
- East TN ASLA 2/21/2023 0
- Green Drinks February Meeting 2/21/2023 0
- UT Urban Forestry Class 2/22/2023 0
- Knoxville Area Association of Realtors (KAAR) 3/3/2023 0
- Forest Hts. Neighborhood Association 3/6/2023 0
- Colonial Village Neighborhood Association 3/9/2023 0
- 0 Three River Market CO-OP 3/21/2023
- Kiwanis Club of Knoxville 3/23/2023 0
- Smoky Mtn Wild Ones Chapter 3/29/2023 0
- Parkridge Neighborhood Meeting 4/3/2023
- Knox County Master Gardeners 4/3/2023 0
- East TN Ornithological Society 4/5/2023 0
 - WJBE Radio 4/9/2023

0

0

0

0

- South Knoxville Neighborhoods Meeting 4/10/2023 0
 - Sierra Club Harvey Broom Group 4/11/2023
- East Knoxville Community Open House 4/11/2023 0
 - Sequoyah Hills Neighborhood Meeting 4/25/2023
 - Town Hall East's May Meeting 5/8/2023
- ...more coming through May.

What's Next?

Complete Engagement

Discovery complete by end of May.

Please help promote events, survey, presentation opportunities.

KnoxvilleTreePlan.org

Final Phase

June to October (EOY)

Goal setting Plan structure Plan development / editing

KNOXVILLE TREES COMMUNITY EVENTS

www.KnoxvilleTreePlan.org

PRIL 10	South Knoxville Conversation (SKNBC) 6 p.m. at Ijams Nature Center Registration not required - just show up!
PRIL 11	East Knoxville Community Open House 5-7 p.m. at The Jacob Building Registration not required - just show up!
PRIL 19	Urban Trees Workshop at UT 3-5 p.m. at the Student Union - Ballroom / Registration not required - just show up!
IAY 4	Virtual UFMP Open House 6-7:30 p.m. via Zoom Registration required, available on website.
IAY 11	In-Person UFMP Open House

4-7 p.m. at Cansler YMCA Registration not required - just show up!

Can't make any of these? Invite us to come to your pext meeting or fill out the online survey at KnoxvilleTreePlan.org.

Learnings To-Date

Tree Canopy Cover What is it?

What is tree canopy cover? amount of land covered by trees (during summer when leaves are out) as seen from above.

How is it measured? Five land classes:

- Tree Canopy
- Low Vegetation (lawns, shrubs)
- Hard Surfaces (concrete, buildings, roads, anything that is Impervious to water)
- Water

FUREST MASTER PLAN

• Bare Soil (ag. fields, ball fields, construction, desert)

This map was produced for the Knox County Urban Tree Canopy Assessment project. Data were collected from Planit Geo.

Tree Canopy Cover

What do we have?

- **38% Tree Canopy Cover** in Knoxville (as of 2018)
- Down from 40% in 2008.
- No canopy goal in place currently.
- ³⁄₄ on private lands.

60%

Tree Canopy Cover

Where is it? Is it equitable?

Percent of tree canopy cover in Knoxville neighborhoods ranges from 5% to 63%.

25 of the 60 neighborhoods fall below the citywide average.

Tree Canopy Cover Where is it? Is it equitable?

Heat is higher overall and longer lasting in low canopied neighborhoods.

Higher income, higher canopy.

Areas redlined in 1930s based on race and poverty have lower canopy.

Areas of lower canopy also often have higher concrete (impervious surfaces)

High canopy is not high quality.

Heat Index & Tree Canopy by Neighborhood

Tree Canopy Cover Where is it? Is it equitable?

Areas redlined in 1930s-1960s based on race and poverty have lower canopy. A - green, B - blue, C - yellow, D red.

Percent Tree Canopy in Redlining Districts, Knoxville, TN

Gains occurred in 19 neighborhoods

Losses occurred in 41 neighborhoods

More Detailed Data on Trees

Lacking knowledge.

- Tree Age (size)
- Condition
- **Diversity** (vulnerability)
- Suitability

Data Sources:

1. <u>Streets/Parks:</u> 25,000+ public trees inventoried, 5 mgmt zones (City

2. <u>Natural Areas /</u>

<u>Woodlands:</u> Lacking data on woodlands and trees on private property.

3. <u>All Other Lands:</u> Mostly privately owned. Lacking data.

	KNOXVILLE (TN) Indicators of a Sustainable Urban Forest		Assessed Score		
Indica			Low	Mod.	Good
	Urban Tree Canopy Cover				<u>.</u>
	Equitable Distrib	Equitable Distribution			
	Streets & Parks (public, landscope)	Age/Size Distribution			
		Condition	1		·
		Diversity / Pest Vulnerability	8		
		Suitability - Overhead	No data.		
		Suitability - Ground Level	No data		
		Suitability - Soil Conditions	No data		
		Suitability - Invasives	14 C		1
		Suitability - Cllimate Adaptability			
		Age/Size Distribution	No data		
		Condition	Na data		
The		Diversity / Pest Vulnerability	Na data.	-	2 2
Trees	Natural Areas /	Suitability - Overhead	No data.		
	Woodlands (public or privoto)	Suitability - Ground Level	No data		
		Suitability - Soil Conditions	Na data		
		Suitability - Invasives	TBD		
		Suitability - Cllimate Adaptability	No data.		<i>.</i>
		Age/Size Distribution	Na data		
		Condition	Na data		
	All Other Lands (primorily privato)	Diversity / Pest Vulnerability	Na data.	-	
		Suitability - Overhead	No data.		
		Suitability - Ground Level	Na data		
		Suitability - Soil Conditions	Na data		
		Suitability - Invasives	Na data.		
		Suitability - Cllimate Adaptability	No data.		

Lacking data on trees.

Why is it important?

Why?

- 1. Diversity / Resilience to disease
- 2. Invasives
- **3. Future canopy** (sustainability & resilience)

Data not available.

Syracuse

1.5 million trees (99 trees per acre) according to sampling study. Most common species: European buckthorn, sugar maple, tree-of-heaven. 36% invasives

Age Class & Condition

Data on Public Trees (streets, parks)

FOREST MASTER PLAN

WHY? Important to long term sustainability to maintain flow of urban forest benefits over time.

Species Diversity

Data on Public Trees (streets, parks)

Why? Maintaining a sustainable tree population that is resilient to pests & diseases and climate changes.

Ex.	
FAMILY:	Sapindaceae / Aceraceae
GENUS:	Maples
SPECIES:	Red maple

Ideal standard: No more than 10% of any one species (e.g. red maple), 20% of any one genus (e.g. Acer / maple), 30% of any one family (e.g. Sapindaceae)

No threshold is exceed - both citywide and by management zone.

Suitability Limited Data Available

How suitable are tree sites to support its long-term survival? An indicator of resilience and sustainability.

- Space Above -Overhead Utilities
- Space Below -Hardscape & Utility Conflicts
- Soil Conditions
- Invasive Species
- Climate Change Adaptation

URBAN FOREST MASTER PLAN

Impact of Climate Change on Trees

Public Trees (streets, park)

24% of <u>public inventoried</u> trees expected **to fare better over the next 100** years due to climate change.

- willow oak (5% of public trees today)
- common hackberry (4%)
- Southern magnolia (2%)
- American elm (2%)
- Eastern redcedar (1.3%)
- boxelder maple (1.2%)
- American sweetgum(1.0%)
- black cherry(1.0%)
- river birch (0.9%)
- black gum (0.7%)
- ...remaining list on handout.

23% of <u>public inventoried</u> trees expected to **decline over the next 100** years due to climate change.

- red maple (7% of public trees today)
- sugar maple (7%)
- Eastern redbud (4%)
- silver maple(2%)
- tulip poplar (1.4%)
- serviceberry (0.5%)
- Eastern hemlock (0.5%)
- black locust (0.4%)
- Virginia pine (0.4%)
- scarlet oak (0.3%)
- ...remaining list on handout.

Tree Species that may find new habitat within the Region: florida maple, black hickory, black ash, swamp tupelo, ashe juniper, slash pine, bluejack oak, laurel oak, live oak, gum bumelia, & cedar elm

Your turn.

Three Group Discussions

Discussion 1: Priorities & Goals (30 mins)

Discussion 2: Challenges (30 mins)

Discussion 3: Solutions / Ideas (30 mins)

1. Priorities & Goals

Where do we want to be? What does success look like? What are our future goals and priorities? What does Knoxville look like on that day you can say "We did it."

Plan to have at least 3 goals or priorities to report back!

2. Challenges

(15 minute group discussion, 10 minute report back)

We've just heard some top goals/priorities from the group. How do we get there? What other challenges are we likely to face in reaching these goals?

DO NOT PROBLEM SOLVE YET!

Plan to have at least 3 challenges to report back!

3. Getting There

(15 minute group discussion, 10 minute report back)

Start to brainstorm on solutions to some of the challenges you've heard. Resources we could be utilizing better. Start thinking about options.

Plan to have at least 3 ideas or concepts to report back!

What's Next?

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Discovery complete by end of May.

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