Continuing Education Units | CEU's

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Tree Stewardship
Improves Community
Resilience and Equity

November 16, 2023

New Jersey League of Municipalities Conference



Other questions, please consult the *League* Staff at the Information Booth on Level 2

IG: Sustainable_Jersey | Twitter: @SJ_Program and @SJ_Schools | FB: @SustainableJersey | LinkedIn: sustainable-jersey



Tree Stewardship Improves Community Resilience and Equity

November 16, 2023

New Jersey League of Municipalities Conference



CFMP Guidelines Update



Levon Bigelow November 16, 2023



Agenda

Background

NJUCF Overview

New Guidelines

Data & Community

What is Urban Forestry?

The art, science, and technology of managing trees and forest resources in and around urban community ecosystems for the physiological, sociological, economic, and aesthetic benefits trees provide society.

~ Helms, The Dictionary of Forestry



NJ Shade Tree & Community Forestry Assistance Act (N.J.A.C. 13:1L-17.1 et. seq.)



- December 5, 1996
- Establishes the expanded role of the State's Urban & Community Forestry program
- Provides the basis for local governments to reduce or eliminate liability associated with local tree care programs and shade tree commissions
- Establishes the NJ Community Forestry Council
- Created the Treasure Our Trees license plate



NJ URBAN & COMMUNITY FORESTRY

To encourage and support the stewardship and effective management of trees and forest ecosystems in New Jersey communities through technical and financial assistance.



Planning



Training and Education

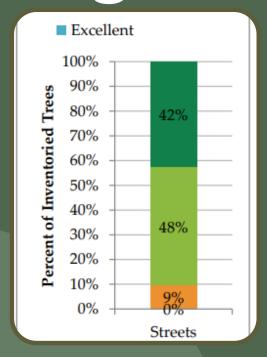


Management

CFMP Guidelines Sections

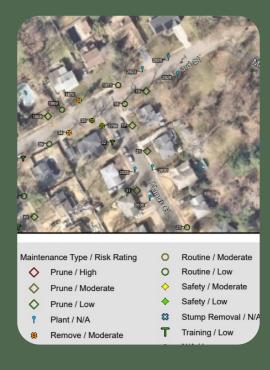
Intro & Background
Program Capacity
*Community Engagement and Well-being
Plan Implementation

Major Changes



Inventory

Now required for CFMP



Mapping

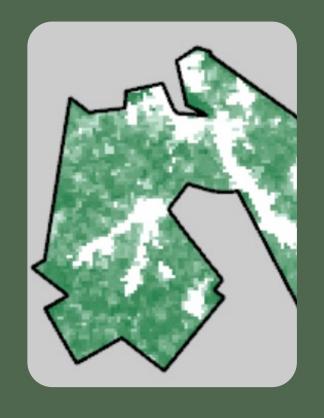
New Requirements



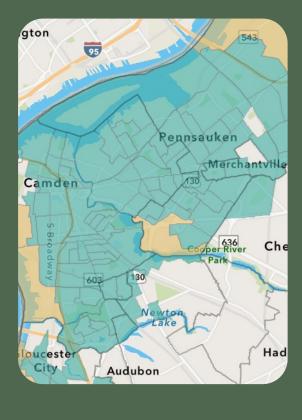
Goals/Objectivies

New way of thinking around goals/elements/objectives/ action items

Mapping Examples







Overburdened/EJ

Canopy Cover

NJ Forest Adapt

iTree Canopy

American Forests Tree Equity

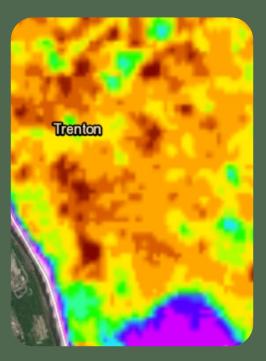
Land Use/Land
Cover

NJDEP EJ Office

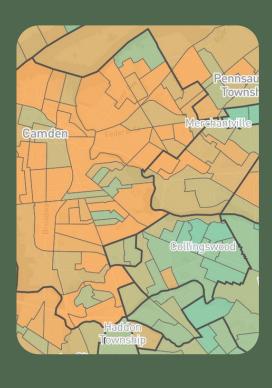
NJ GeoWeb
NJ Forest Adapt

Other Maps









Inventory

Heat Map
Sustainable Jersey

Impervious Surface

Tree Equity

American Forests

NJ GeoWeb

CFMP Section:

Community Engagement and Well-being

How do you engage with the Community?

How was CFMP Developed?

Input from Consultant Forester, Shade
 Tree Commission, etc?

How will CFMP be disseminated?

Expand on Benefits of Trees and how Decisions are made around Equitable Distribution of trees

What Challenges or Barriers have there been?



Thank you!

Levon.Bigelow@dep.nj.gov 609-292-8191

communityforestry@dep.nj.gov





The Value of a Shade Tree Commission

Kristin Ace Chairperson, Morristown Shade Tree Commission kakat3@verizon.net



Tree Stewardship Improves Community

Resilience and Equity



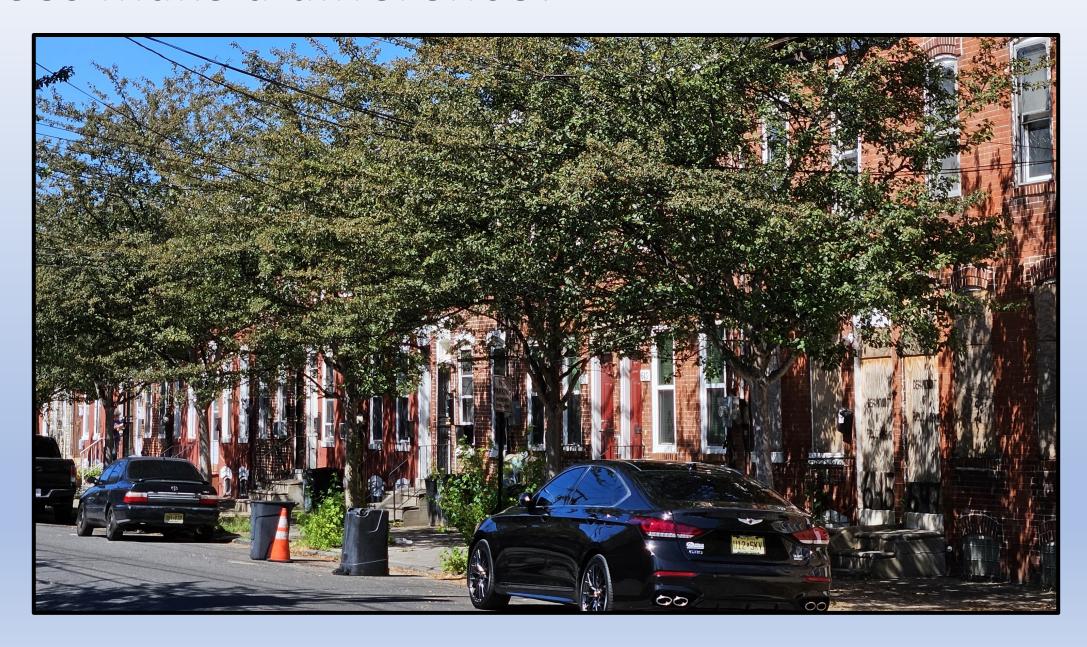
Pam Zipse, Executive Director pzipse@njtreefoundation.org
@njtrees

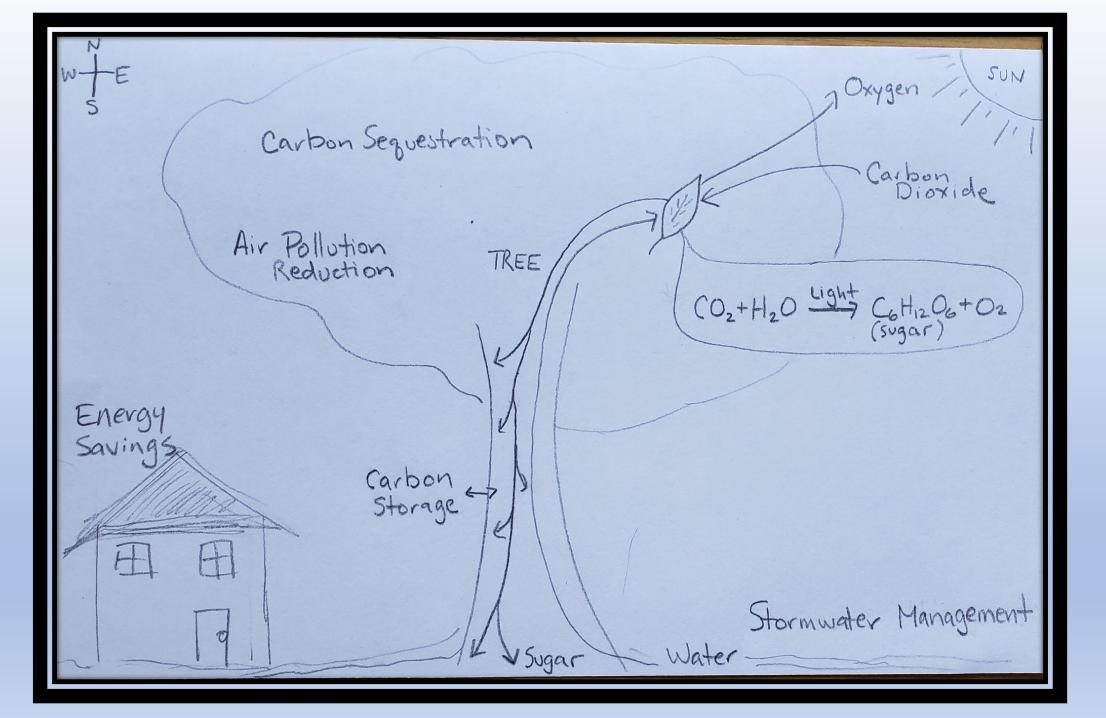


Tree Stewardship Improves Community Resilience and Equity



Trees make a difference!

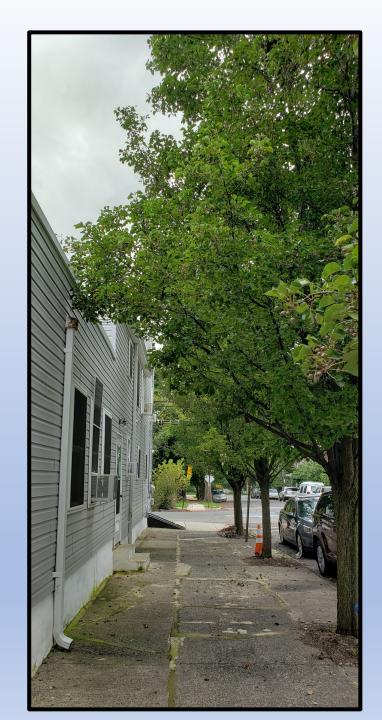




To derive the benefits...

The trees must live and grow!





Plant at the speed of trust





Think about (and talk with) the people who live

where you want to plant trees...

• Listen

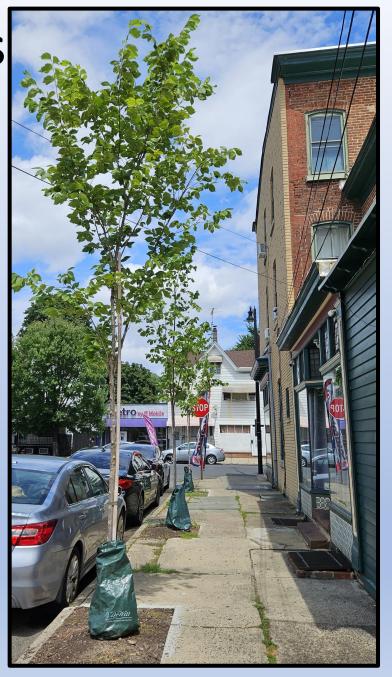




What are the Community Priorities









It is a great time to be in Urban **Forestry**

(There is so much money for



Find other meaningful metrics for success

Not just counting trees...

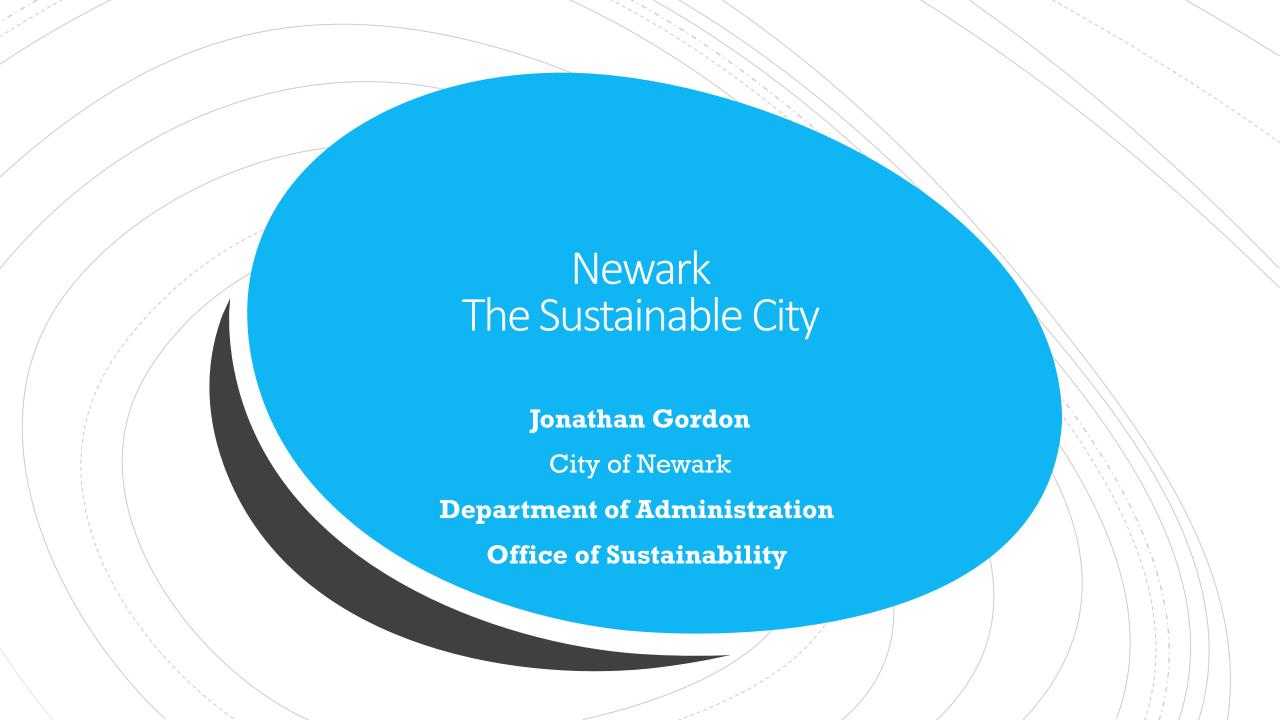


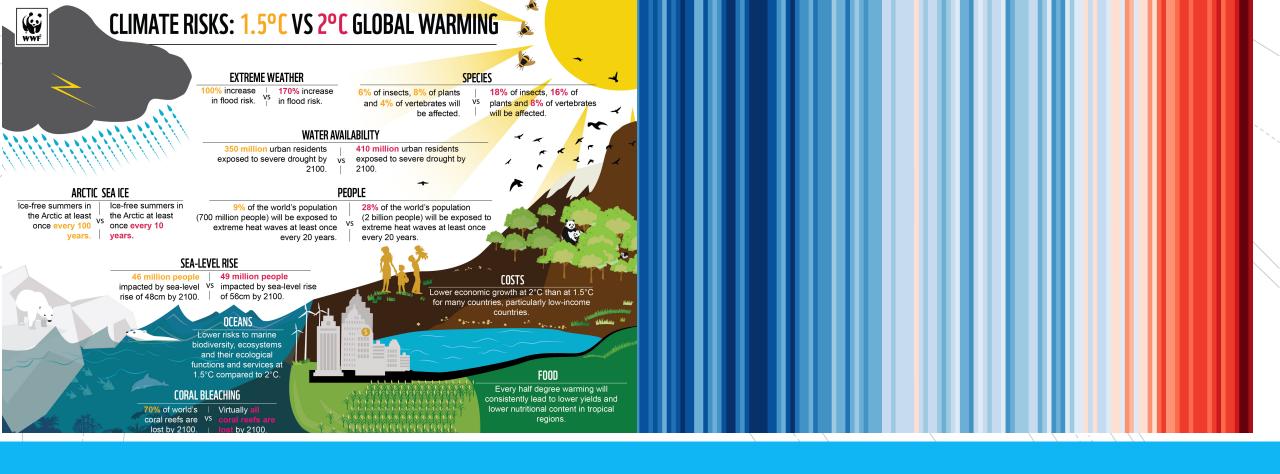
Find the Joy...



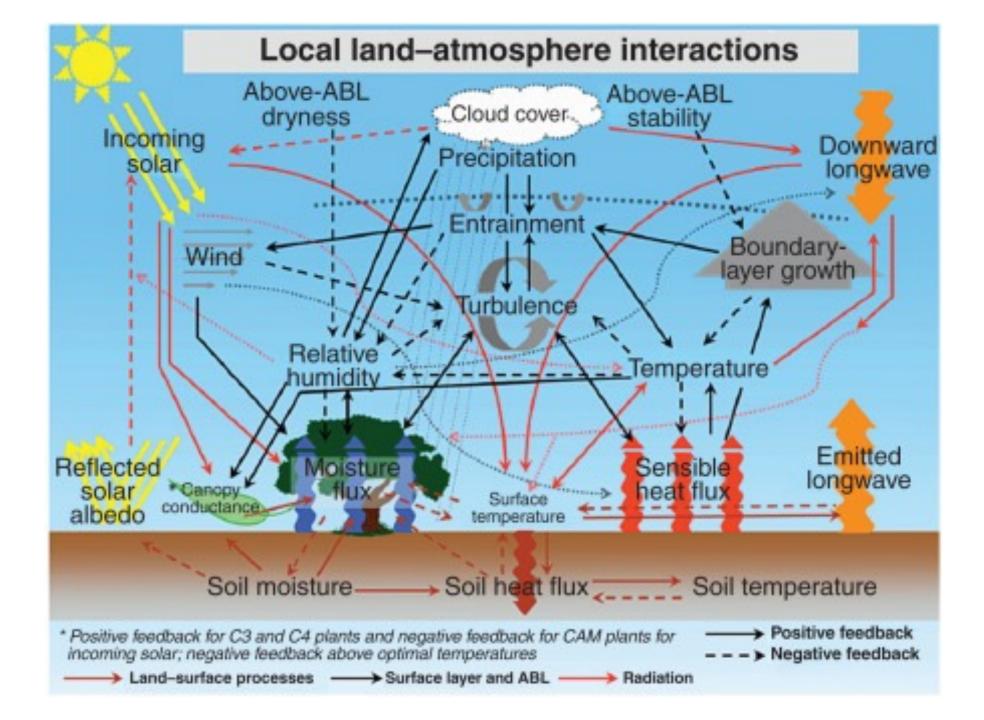
Pam Zipse, Executive Director pzipse@njtreefoundation.org
@njtrees







Climate Change, it's real, real hard to explain, kind of like trees...



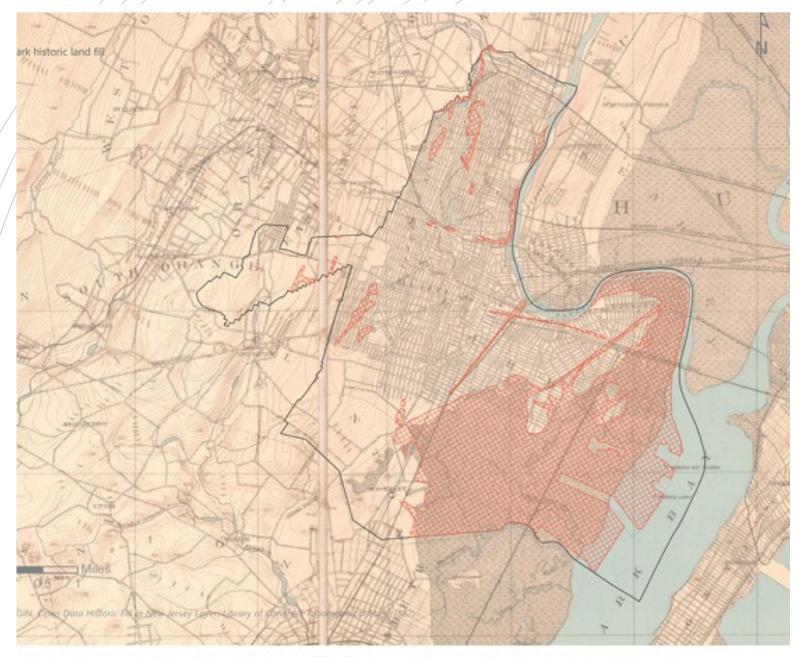
For every 1°C - Double the Conditions

What we consider a 100 year storm or 1% event is now a 50 year storm or 2% event. A 20 year event is now a 10 year event and so on.

- Hurricane
- Drought
- Heat wave
- Etc

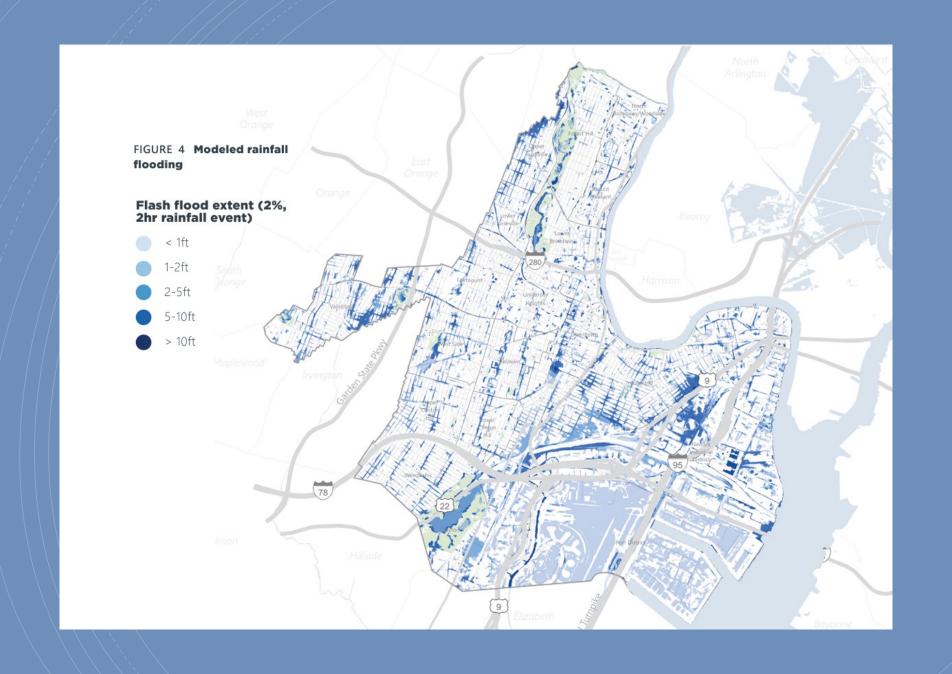
Why- For every 1°C increase in global temperature another magnitude of moisture the atmosphere can hold





Areas where wetlands and marshes were filled in Newark, approximately 5,538 acres in total 25





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Recent extreme veather events	Supe Sa
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Name	Start date	End date	Landfall	Rainfall	Community impact
Remnants of Hurricane Ida	9/1/2021	09/02/2021	n/a	7.76 inches	Widespread transportation system impacts; homes and cars flooded
ropical Storm Henri	08/21/2021	08/23/2021	n/a	8.42 inches	Flooded basements, sewer collapse, and sinkholes
ropical Storm Elsa	07/08/2021	07/10/2021	n/a	1.78 inches	Severe flooding observed
Superstorm Sandy	10/21/2012	10/31/2012	10/29/2012	2-4 inches ¹²	12-foot storm surge; severe infrastructure damage; 255,469 power outages counted in Essex County ¹³
Hurricane Irene	8/21/2011	8/30/2011	8/28/2011	10 inches ¹⁴	Significant property and roadway damage, power outages
Tropical Cyclone Hanna ¹⁵	8/28/2008	9/8/2008	9/6/2008	3.75 inches ¹⁶	Power outages and flooding reports
Remnants of Hurricane Gordon	9/14/2000	9/21/2000	9/18/2000	2.14 inches ¹⁷	Poor drainage leading to flooding in low-lying areas

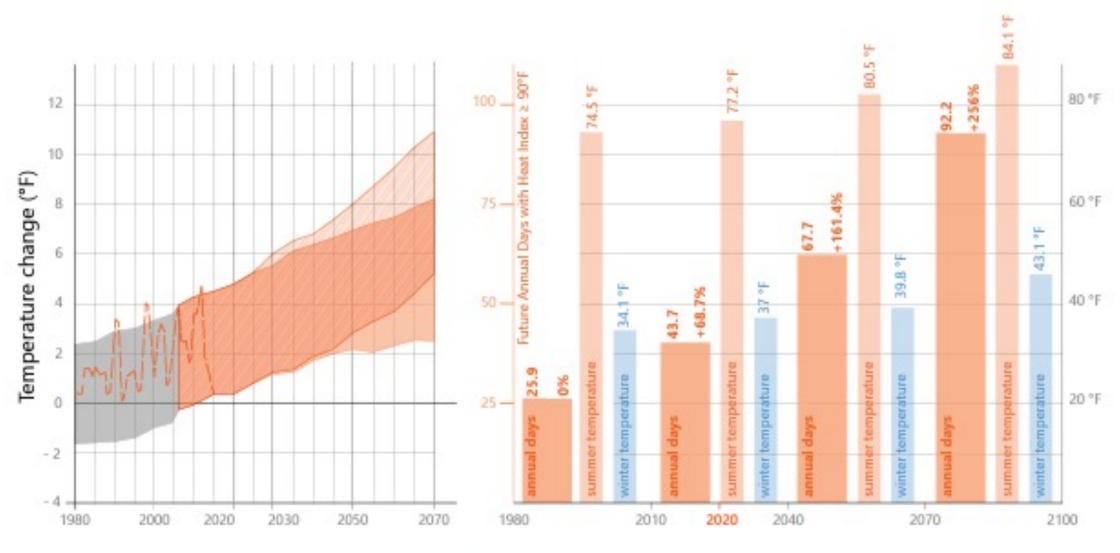
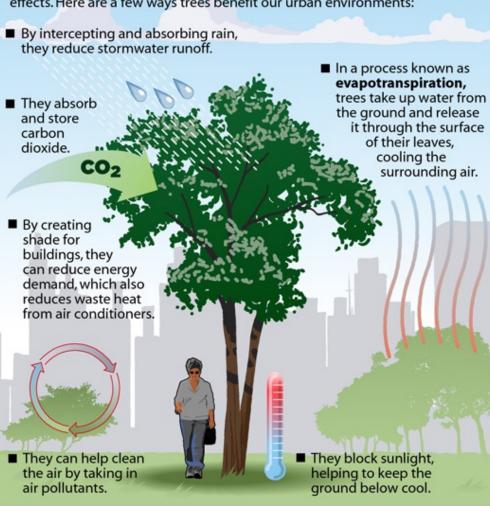


FIGURE 8 Future annual days with heat index ≥ 90°F; average seasonal temperatures 47

Why Trees?

Why Trees Are So Cool

Experts say trees should be considered urban infrastructure, every bit as important and useful as sewage, drinking water and transportation systems. They are an important tool for cities to reduce urban heat island effects. Here are a few ways trees benefit our urban environments:



SOURCES: EPA; North Carolina State University; U.S. Forest Service

PAUL HORN / InsideClimate News





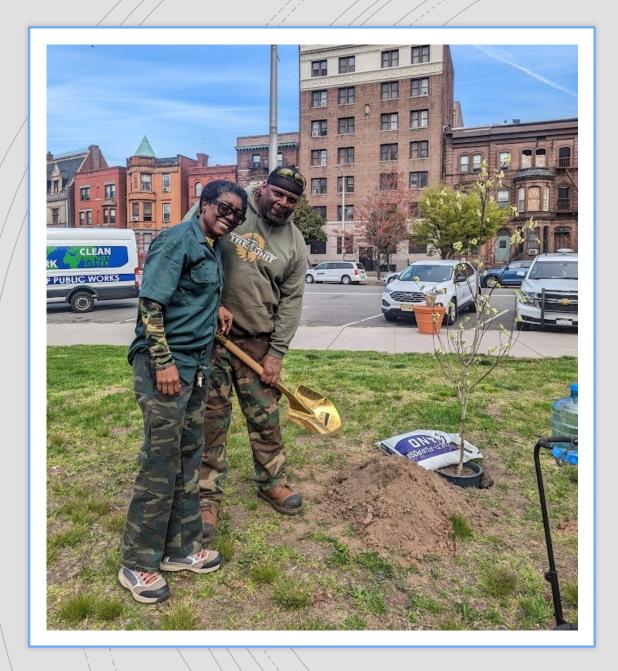
14% to 33%

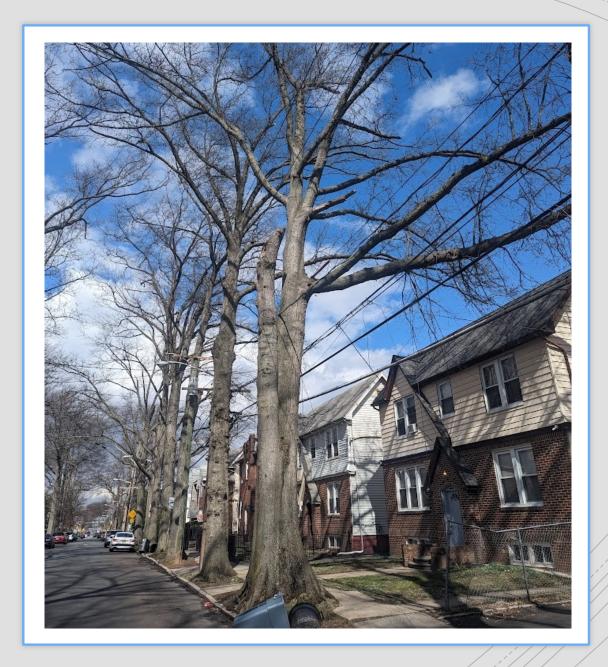
The Goal



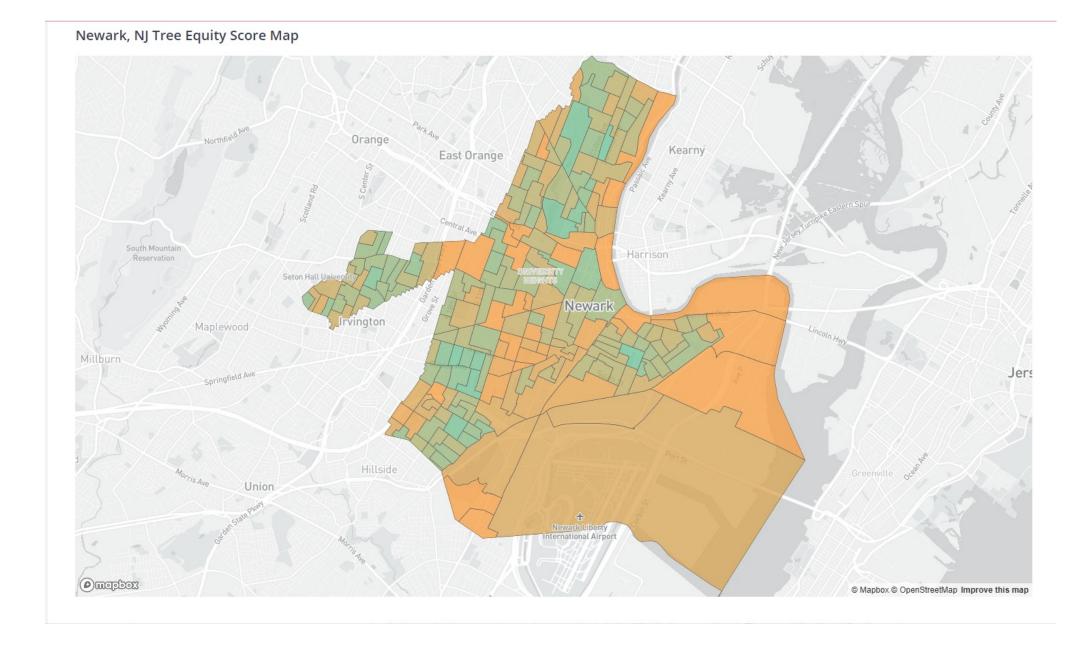






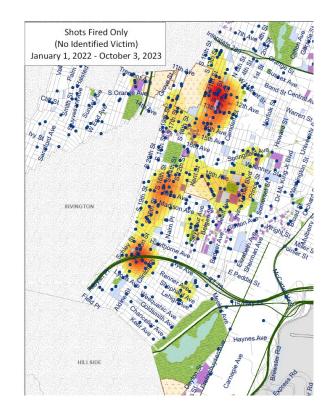


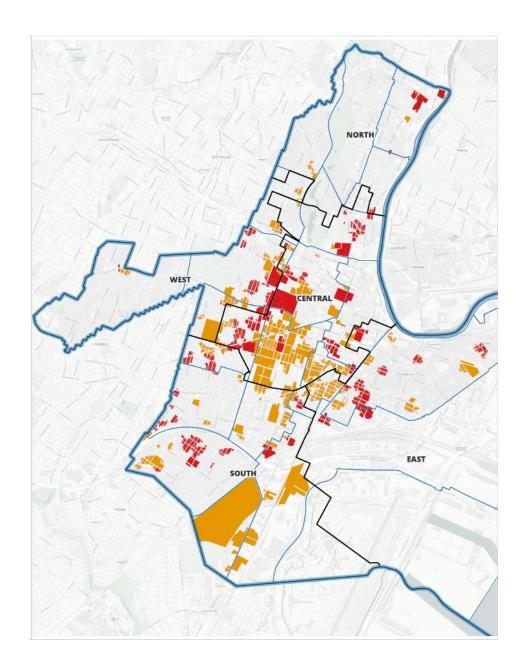




https://www.treeequityscore.org/















Paid Training Program



Be a part of Newark's Green Future! Sign up to complete the National Green Infrastructure Certification Program!

ELIGIBILITY REQUIREMENTS:

- 18 years and older
- High School Diploma or equivalentEnvironmental or outdoor work
- Environmental or outdoor work experience is a plus

Newark residents encouraged. Re-entry applicants welcome.

To apply: send resume to

<u>NewarkWorks2020@gmail.com</u>

Include "Green Infrastructure" in subject line











Next steps

MAINTAIN

- Inventory
- Remove & Replant
- Subsidize
- Annual scheduled pruning

IMPROVE

- Change your land use laws
- Implement Green Infrastructure
- Plant some trees

Thank You



- Jonathan Gordon
- Interim Chief Sustainability Officer
- Office of Sustainability
- Department of Administration
- City of Newark
- 920 Broad Street, Rm. B-12
- Newark, New Jersey 07102
- 973-733-8041
- Gordonj@ci.newark.nj.us
- newarknj.gov/sustainability



Sustainable Jersey Actions for Community Forest Stewardship

Melanie McDermott Senior Researcher, Sustainable Jersey mcdermom@tcnj.edu



'Tree actions' earn up to 135 points towards Sustainable Jersey certification

- Community Forestry Management Plan & NJUCF Accreditation (≤ 20 points)
 - Tree Hazard Inventory (10 points)
 - Tree Maintenance Programs (10 points)
 - Tree Planting Programs (10 points)
- Tree Protection Ordinance (10 points)
- Heat Island Assessment & Mitigation Plan (≤ 20 points)
- Community Wildfire Protection Plans (10 points)
- Firewise Community (≤ 15 points)
- Ready Set GO! Fire Company (≤ 15 points)
- Wildfire Safety Council (≤ 15 points)

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