Rain to Roots Ambassador Program-November Meeting

Welcome!

- What is your name?
- What is your favorite tree or plant?



The Strategy – Green Stormwater Infrastructure

Benefits of GSI:

- Supports tree canopy
- Reduces temperatures
- Reduces potable water use
- Mitigates flooding
- Promotes cleaner waterways
- Creates wildlife habitat

Learn more about GSI and its benefits at Sustainable Tempe – <u>Green</u>
Stormwater Infrastructure.





Rain to Roots Master Plan

Project Purpose

- Expand green infrastructure & urban cooling initiatives.
- Promote cross-departmental coordination & planning.
- Identify opportunities for long-term funding.

Green Stormwater Infrastructure helps us address...



Record-breaking Extreme Heat



Severe Drought & Water Use



Flooding & Water Quality Concerns



Need for Climate-Ready Vegetation

Project Overview

Assessing the Current State

Codes & Standards

Urban Forestry
Master Plan
Update

Future Funding Strategy Pilot Projects

Public Outreach

Tempe Urban Forestry Managing the Tree and Shade Resource for the Community

Rain to Roots November 1, 2023



What is the Urban Forest?



- The collection of trees growing in our city
- All vegetation: public and private
- The human–forest interface
- A keystone for urban living
- A low risk, high-yield investment for the community









The Benefits and Values of Trees



Environmental Benefits

- Improve air quality
- Sequester carbon, reduce the greenhouse effect, mitigate Urban Heat Island
- Conserve energy by protecting surroundings from sun and wind
- Cool the air through transpiration
- Reduce stormwater runoff and soil erosion
- Provide habitat for wildlife



<u>Psychological and Social Benefits</u>

- Reduce stress and mental fatigue
- · Enhance mental health
- Enhance recuperation rates
- Reduce psychological precursors to crime
- · Enhance community pride
- Heal and restore communities
- Increase recreational opportunities

Economic Benefits

- Increase residential and business property values
- Increase tax base for community
- Attract visitors, businesses, and new residents
- Increase rental of apartments and offices and reduce vacancy rates
- Encourage shoppers to linger
- Defer maintenance on materials that are degraded by heat, like pavements

Tempe Tree #'s



- **28,500** trees:
 - Park/Preserves/Facilities ~18,500
 - ROW/Trails ~10,000
 - Over 100 species and varieties
- \$58M value
- \$1.2M in annual environmental/economic benefits
- 11.4% Tree Canopy cover



Urban Forestry Master Plan Goals



- Increase tree canopy, replace missing/diseased/declining trees, and update landscape in parks, ROW, and city-maintained properties.
- Demonstrate the city's commitment.
- Empower residents, businesses, organizations, and city staff to collaboratively create and care for the urban forest resource.
- Supports other Strategic Priorities and performance measures
- Revision as part of the Resilient Tempe Master Plan





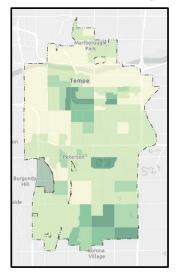
Tree and Shade Canopy



Building Urban Forest Resilience

- Establish a proactive tree care and management team
- Utilize the Tree Canopy and Tree Equity Map for planting strategies
- Neighborhood outreach programs for tree planting







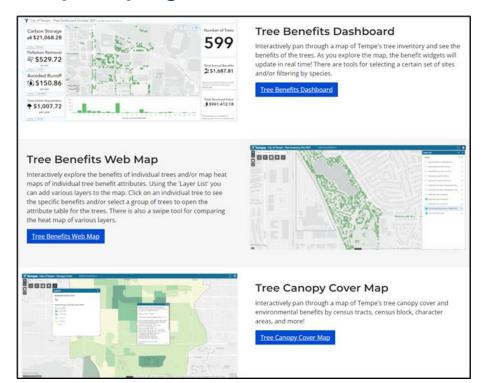
Tree Canopy and Equity Maps



www.urbanforestry.tempe.gov



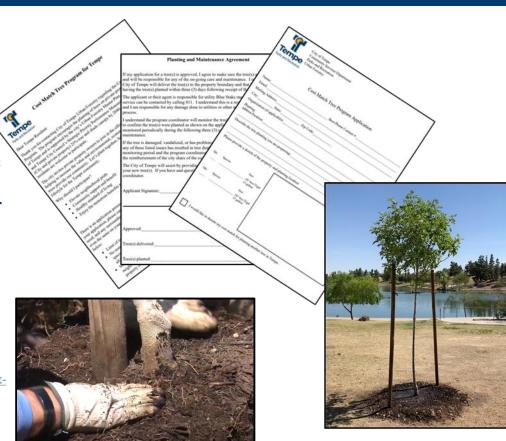




Community Outreach



- Cost Match Tree Program
 - www.tempe.gov/tempetrees
- Living Tree Donation Program
 - www.tempe.gov/government/community-services/livingtree-program#
- TreeBate Program through Water Conservation
 - www.tempe.gov/government/municipalutilities/water/water-conservation/rebates/treebate#
- MaryAnne Corder Neighborhood Grants
 - https://www.tempe.gov/government/communitydevelopment/neighborhood-services/neighborhood-grantprogram



Community Education and Support



- Community meetings and information exchange
- Townhall style meetings
- Training, workshops, and educational opportunities
- Tree selection, planting, and care technical assistance information
- Review and consider development policies and practices







Thank you for your support!





Questions, Thoughts, and Suggestions?







Arbor Day Foundation

Upcoming Ambassador Program Meetings

December 6th: Pilot Projects

January 3rd: Stormwater

Meetings on the First Wednesday of the Month, 5:30-6:30 PM

Questions?

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