

October 15 2024
California Nursery Conference, Watsonville

NURTURING THE CONNECTION BETWEEN NURSERIES AND URBAN TREE PLANTERS

COMMON GROUND RESEARCH THAT MIGHT BENEFIT BOTH GROUPS?



Jessie Godfrey

Environmental Horticulture and Water Resources Management Advisor
Alameda, Contra Costa, Santa Clara, San Mateo, San Francisco Counties

WHO am I?

- Oakland Native
- Returned US Peace Corps Volunteer (Agroforestry Extension, Northern Cameroon)
- Former owner of a small residential gardening business in the East Bay (Godfrey Gardens) and frequenter of Merritt Community College Landscape Hort. Classes
- PhD in Horticulture and Agronomy from UC Davis; focused on tree physiology, wood anatomy and wood biochemistry
- Postdocs supported by
 - *USDA FS: nursery interventions to increase conifer seedling drought tolerance*
 - *CAL FIRE: triaging locations for cone scouting by the LA Moran Reforestation Center's nursery team using an assessment of climate and fire risk as well as operational priorities like the existing seedbank inventory*

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Advisor

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Also in:

San Mateo-San Francisco Counties
Contra Costa County Cooperative Extension
Santa Clara County

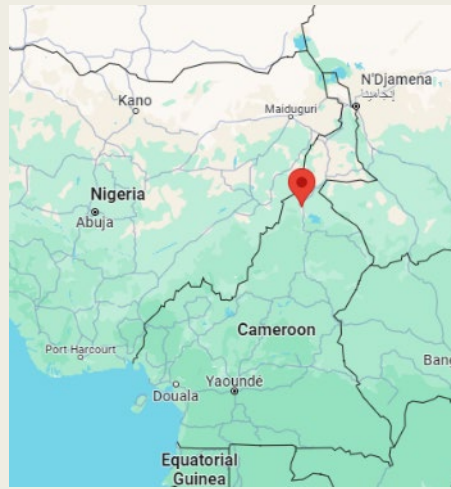


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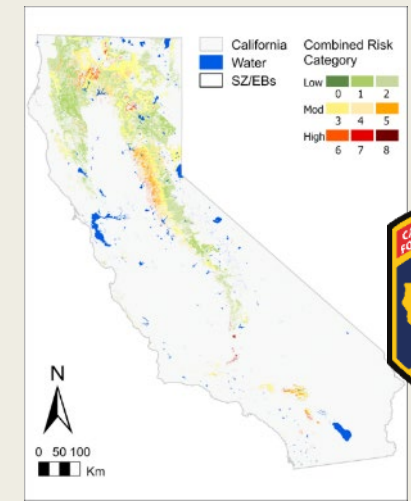
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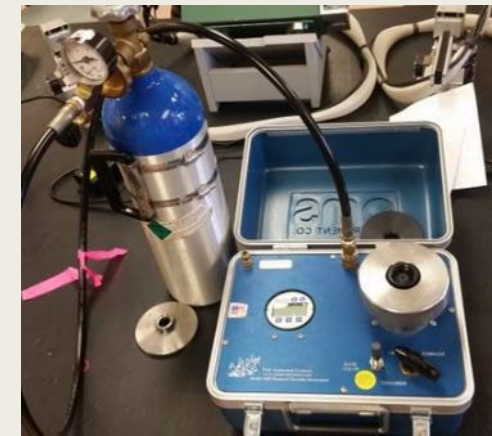
Where all the time went—asking trees how they are doing, often after/ while treating them poorly...

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WHY urban tree establishment?



- I want to bring some preexisting skillsets to first projects
- Expanding the urban tree canopy has a lot of momentum right now
 - *This requires maintaining the existing canopy*
 - *This also requires putting new trees in the ground and helping them survive their vulnerable establishment phase*
 - Inflation Reduction Act funding channeled through the USDA Forest Service and/or CAL FIRE has been allocated to tree planting and 3 years of maintenance this fiscal year (2024-2025)
 - *42241 trees across the state (11265 trees in my counties)*
 - Large funding opportunities channeled through CAL FIRE have been allocated to urban tree planting every fiscal year except 2020-2021 since 2018-2019.
 - *60,000 trees and at least 7800 shrubs/ understory plants*
 - *The first funding cycle of 5 years is just wrapping up and final inspections are complete*
- The work is challenging

One tool of the tree physiology trade that I want to find a use for: a “pressure bomb” used to measure water stress

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A couple of the most well documented benefits of urban trees are beauty and shade/ calming and cooling.

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Igor “bee”ing very helpful as I navigate the program definition phase of my career and our shared space.

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Nearly \$100 million has been directed towards tree planting in California for a 5 year period starting **now**

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More than \$150 M has been allocated towards urban greening through CAL FIRE channels since 2018

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WHAT is my role?

- Communication

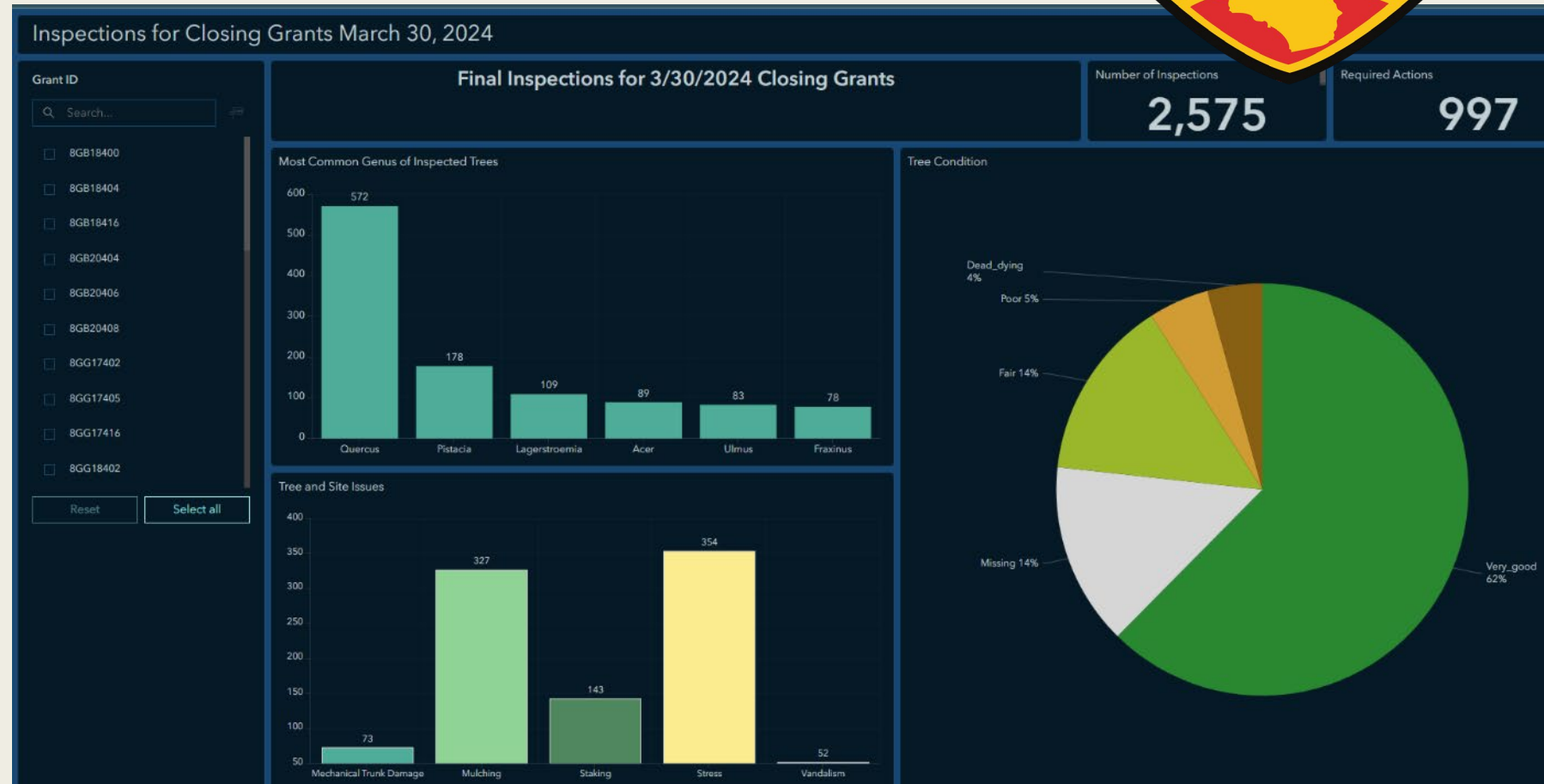


Connecting nurseries to nurseries and other relevant resources, including urban tree planters.

WHAT is my role?



■ Evaluation



How can nursery research be done, from this UCCE position, to increase tree survival rates in urban environments?

WHAT is my role?

- Evaluation



How can nursery research be done, from this UCCE position, to increase tree survival rates in urban environments?

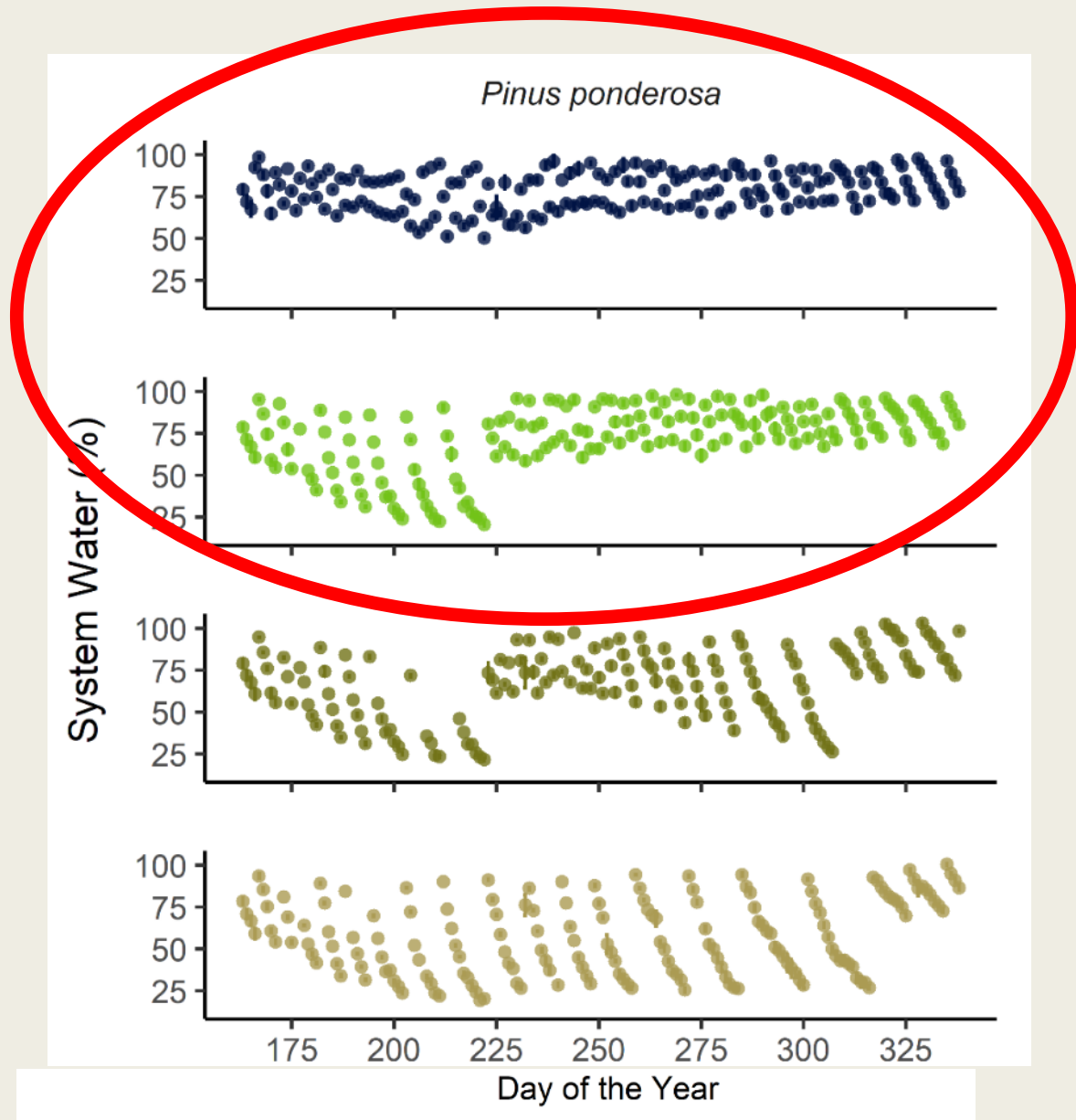
WHAT is my role?



conventional production



drought in production



● Control ● Drought1+Recovery ● Drought1+Drought2 ● Drought1+Sustained

WHAT is my role?

91.7% 100.0% 93.8% 97.9%



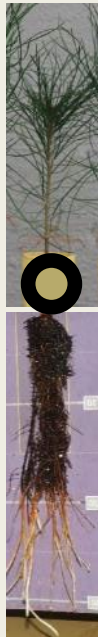
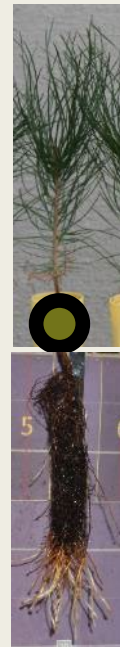
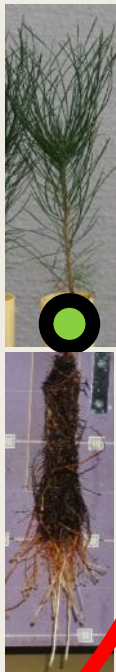
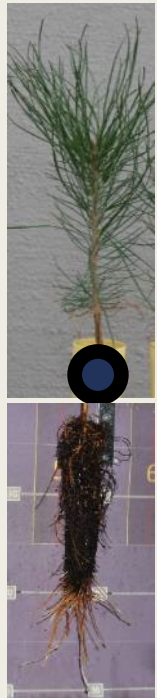
← *Survival Percentages after 1st outplanting season*

- All early season drought treatments led to greater survival at outplanting for ponderosa pine.
- None of the early season drought + recovery (Drought1+Recovery) treated seedlings died despite the Northwest Heat Dome hitting at the beginning of the dry season.
- What were the potential advantages that seedlings from the D1 + R treatment, in particular, had at outplanting?

● Control ● Drought1+Recovery ● Drought1+Drought2 ● Drought1+Sustained

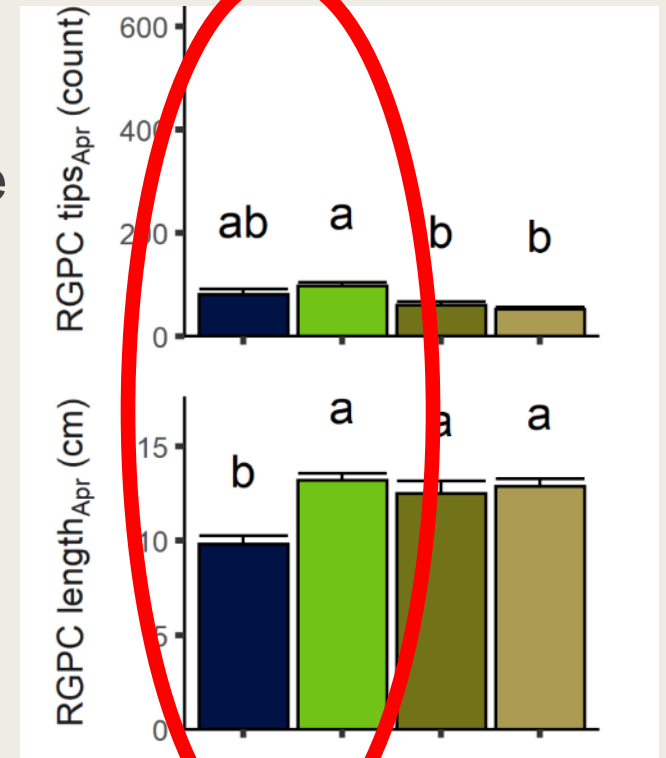
WHAT is my role?

Results from the Root Growth Potential Chamber, Just Before Outplanting



Just as many new root tips as the control , more root tips than the other two drought treatments →

All drought treatments: longer new roots than the control →

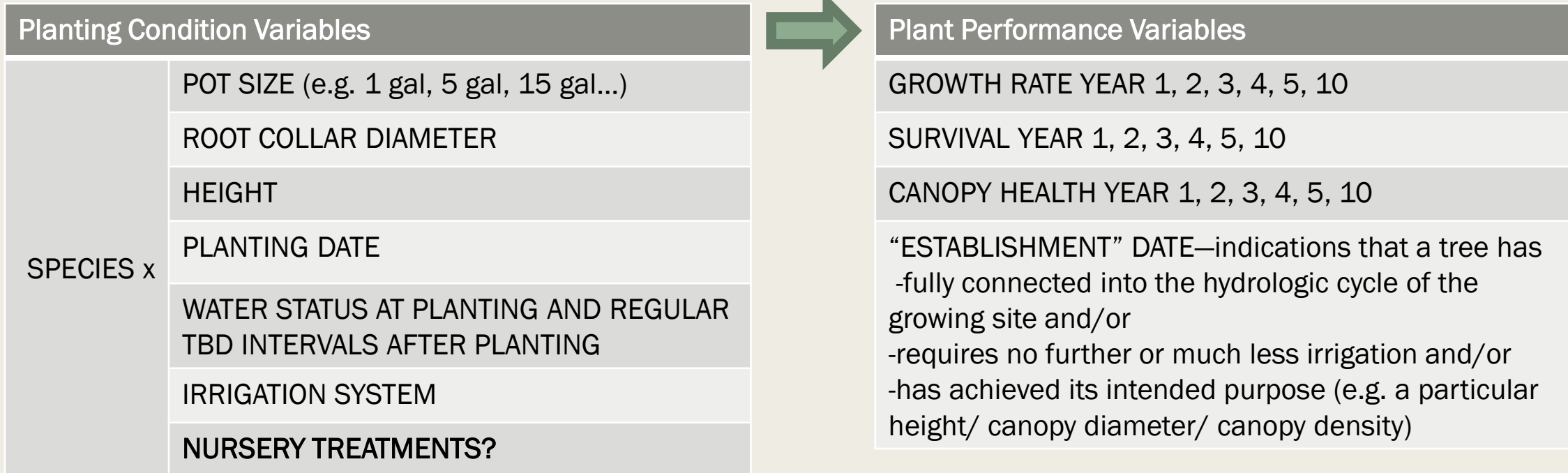


● Control ● Drought1+Recovery ● Drought1+Drought2 ● Drought1+Sustained

WHAT is my role?



■ Evaluation



For discussion: are there treatments that you would like evaluated for popularly planted urban street trees?

Thank you!!



jmgodfrey@ucanr.edu

WHAT is my role?

- Communication



Connecting urban tree planters to urban tree planters and to other relevant resources, including nurseries.

WHY urban tree establishment?



USDA Forest Service U.S. DEPARTMENT OF AGRICULTURE

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USDA invests \$1 billion for nearly 400 projects to expand access to trees and green spaces in communities and neighborhoods nationwide through Investing in America agenda

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Agency Leadership

Budget and Performance

Region	Regional Division	Organization	Location Type (street, park, private, school, etc)	Year 1	Year 2	Year 3	Year 4	Year 5	Total
NorCal	Bay Area - Napa	Napa County Resource Conservation District	private,	N/A	N/A	N/A	N/A	N/A	0
NorCal	Bay Area - Oakland	City of Oakland	street, school, private	0	325	325	325	325	1300
NorCal	Bay Area - Petaluma	City of Petaluma	parks, schools, streets	774	1100	526	55	0	2455
NorCal	Bay Area - Pittsburg	City of Pittsburg	public	100	100	150	100		450
NorCal	Bay Area - San Fran	City/County of San Francisco, Recreation and Parks Department	park	135	140	140			415
NorCal	Bay Area - San Fran	San Francisco Public Works - Bureau of Urban Forestry	street	250	1250	1250	750		3500
NorCal	Bay Area - San Jose	City of San Jose	street		2800	2800			5600



WHY urban tree establishment?

CAL FIRE Urban and Community Forestry 2024 Inflation Reduction Act Applications Summary						
125	\$146,415,777.14	\$30,800,000	39 Applications \$38,757,155.39	31 Applications \$22,511,508.15	17 Applications \$22,855,833.13	21 Applications \$25,924,843.36
TOTAL APPLICATIONS	TOTAL FUNDING REQUESTED	TOTAL IRA FUNDING AVAILABLE	URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS

- Total Applications: 125
- Total Funding Requested: \$146,415,777.14
- Total Funding Available: 30,800,000 [21%]
- Application Areas
 - *Urban Forest Expansion and Improvement: 39 applications, \$38.8 Million*
 - *Urban Forest Management Activities: 31 applications, \$22.5 Million*
 - *Education and Workforce Development: 17 applications, \$22.9 Million*
 - *Green School Yards: 21 applications. 25.92 Million, \$25.9 Million*
 - *Urban Forest Equity Capacity Building: 3 applications, \$2.5 Million*
 - *Urban Forestry Regional or Statewide Impact: 14 applications, \$34.4 Million*

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Inflation Reduction Act via USDA Forest Service

 **CAL FIRE Urban and Community Forestry
2024 Inflation Reduction Act Awards Summary**
(*amounts may have been adjusted by mutual consent of the grantees and CAL FIRE*)

22	\$30,944,717.60		4 Awards \$4,889,043.22	6 Awards \$4,540,676.00	3 Awards \$4,111,802.00	5 Awards \$6,966,364.85	1 Award \$1,500,000.00	3 Awards \$8,936,831.53
AWARDS	TOTAL FUNDING		URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS	URBAN FOREST EQUITY CAPACITY BUILDING	URBAN FORESTRY REGIONAL OR STATEWIDE IMPACT
Urban Forest Expansion and Improvement								
Applicant	County	Project Title	Project Description				Award Amount	
City of Ukiah	Mendocino	City of Ukiah Climate Resilient Forests Project	This project will develop a climate-resilient urban forest canopy by planting trees and vegetation adapted to changing climate conditions through an integrated community engagement process. The project will result in over 700 newly established trees that will provide equitable access and connectivity to green space and natural resources to the City's most vulnerable communities. The project will employ nature-based solutions that support the City's 2040 General Plan goal to create a more climate-resilient community.				\$1,399,895.00	
Hollywood Beautification Team	Los Angeles	Enhancing the Urban Forest in the San Fernando Valley	This project will plant 750 shade trees in disadvantaged Northeast San Fernando Valley neighborhoods. All tree species selected will be chosen to maximize environmental benefits, including carbon capture and shade production, and are known to thrive in the local environment. Hollywood Beautification Team will work with the community to integrate this project with existing education programs and establish a complementary "Neighborhood Watch for Trees" among parent and neighborhood groups that will monitor and care for the trees long-term.				\$827,584.55	
North East Trees, Inc.	Los Angeles	East LA GROW (Greening, Resilience, Opportunity, Workforce Development)	This project will recruit, train, and employ a crew of up to 10 local youth and young adults from East Los Angeles and spearhead grassroots community engagement efforts, establishing relationships with hundreds of residents across East LA to distribute 500 large canopy residential trees. This project will also host 15 educational workshops focused on tree care and ongoing engagement with a team of local professionals and will lead the planting of 500 trees in the public right-of-way in East LA.				\$1,482,584.25	
TreePeople	San Bernardino	San Bernardino Shade Equity Project	This project aims to build the capacity necessary to establish environmental equity in San Bernardino through a comprehensive urban tree canopy expansion, community organizing, and workforce development. At least 1,500 trees will be planted throughout disadvantaged communities. Long-term tree care will follow for a minimum establishment period in order to ensure sustainability of all green infrastructure installed.				\$1,178,979.42	
						TOTAL	\$4,889,043.22	

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- Application Areas

- Urban Forest Expansion and Improvement: 39 applications, \$38.8 Million (11 apps in counties I cover, \$12.9 Million)*

- Canopy (SMC) Expanding Green Assets: A Community-Based Project to Grow the Canopy and Create New Opportunities for the San Francisco Midpeninsula \$1,499,914.45
 - City and County of San Francisco (SFC) Recreation and Park Department San Francisco Natoma and 11th Street Park \$1,300,000.00
 - City of Alameda (AC) Alameda Urban Forest Expansion and Workforce Development Project \$174,444.74
 - City of Concord (CCC) Concord 'Thousands of Trees Planted' Project \$1,494,794.40
 - City of Hayward (AC) COH Urban Forest Canopy Expansion \$1,500,000.00
 - City of Newark (AC) City of Newark Urban Forest Expansion \$239,495.00
 - City of Pittsburg (CCC) Pittsburg City Park Urban Forest Improvement \$1,000,306.50
 - Friends of the Urban Forest San Francisco Greening San Francisco, Phase V \$1,498,899.00
 - Growing Together Bay Area (CCC) Planting Our Future \$1,240,514.00
 - Latinos United for a New America (SCC) Building the Roots of Our Movement: Advancing Urban Canopy in Eastside San Jose through a Community Leadership Model \$1,496,467.85
 - Trust for Public Land (SFC) The Center West Oakland Nature Trail \$1,500,000.00

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 - ***Urban Forest Management Activities: 31 applications, \$22.5 Million***
 - City of Richmond (CCC) Urban Greening Master Plan Update \$1,495,100.00
 - County of Alameda - Community Development Agency Planning Department (AC) Unincorporated Alameda County Urban Forest Plan \$685,000.00
 - County of Contra Costa Contra Costa (CCC) Urban Forest Management Plan (UFMP) \$1,106,044.12



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- Application Areas

- ***Education and Workforce Development: 17 applications, \$22.9 Million***

- California Climate Action Now! (SFC) CAN! C3: Canopy [SF] City College \$1,497,013.20
 - Groundwork Richmond (CCC) Groundwork Richmond Urban Forestry Workforce Development - Green Jobs for Richmond! \$1,112,561.91
 - JobTrain (SMC) Pathways to Urban Forestry in the MidPeninsula \$1,500,000.00
 - ReScape (SFC) ReScape Statewide Regenerative Urban Forestry Certification (UFC) \$1,494,257.00
 - San Jose Conservation Corps (SCC) San Jose Arbor Corps & Nursery (SJ ACorN) \$1,499,053.93



WHY urban tree establishment?

CAL FIRE Urban and Community Forestry 2024 Inflation Reduction Act Applications Summary						
125	\$146,415,777.14	\$30,800,000	39 Applications \$38,757,155.39	31 Applications \$22,511,508.15	17 Applications \$22,855,833.13	21 Applications \$25,924,843.38
TOTAL APPLICATIONS	TOTAL FUNDING REQUESTED	TOTAL IRA FUNDING AVAILABLE	URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS
						URBAN FOREST EQUITY CAPACITY BUILDING
						URBAN FORESTRY REGIONAL OR STATEWIDE IMPACT

- Total Apps: 125
- Total Funding Requested: \$146,415,777.14
- Total Funding Available: 30,800,000 [21%]
- Application Areas
 - *Urban Forest Expansion and Improvement: 39 applications, \$38.8 Million*
 - *Urban Forest Management Activities: 31 applications, \$22.5 Million*
 - *Education and Workforce Development: 17 applications, \$22.9 Million*
 - ***Green School Yards: 21 applications. 25.92 Million, \$25.9 Million***
 - *Urban Forest Equity Capacity Building: 3 applications, \$2.5 Million*
 - *Urban Forestry Regional or Statewide Impact: 14 applications, \$34.4 Million*

WHY urban tree establishment?



CAL FIRE Urban and Community Forestry 2024 Inflation Reduction Act Applications Summary						
125	\$146,415,777.14	\$30,800,000	39 Applications \$38,757,155.39	31 Applications \$22,511,508.15	17 Applications \$22,855,833.13	21 Applications \$25,824,843.36
TOTAL APPLICATIONS	TOTAL FUNDING REQUESTED	TOTAL IRA FUNDING AVAILABLE	URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS

- Application Areas

- ***Green School Yards: 21 applications. 25.92 Million, \$25.9 Million****

- Pittsburg Unified School District (CCC) Stoneman Elementary Green Schoolyards Implementation Project \$1,499,424.00
 - Santa Clara County Office of Education (SCC) SCCOE Green Schoolyard Implementation Grant at Sunol Community School & South County Annex \$1,500,000.00*

WHY urban tree establishment?



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TOTAL APPLICATIONS	TOTAL FUNDING REQUESTED	TOTAL IRA FUNDING AVAILABLE	URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS

■ Application Areas

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- Santa Clara County Office of Education (SCC) SCCOE Green Schoolyard Implementation Grant at Sunol Community School & South County Annex \$1,500,000.00

***All Cal Fire funding for urban tree planting was dedicated to green schoolyards in the 2022-2023 grant cycle, lots in Santa Clara County**

GRANT AWARDS

- [2023-2024 CAL FIRE Urban and Community Forestry Childcare Facilities Awards](#)
- [2022-2023 CAL FIRE Green Schoolyards Grant Awards](#)
- [2021-2022 CAL FIRE Urban and Community Forestry Grant Program Project Awards](#)
- [2019-2020 CAL FIRE Urban and Community Forestry Grant Program Awards](#)
- [2018-19 CAL FIRE Urban and Community Forestry Grant Program Project Awards](#)

WHY




**CAL FIRE Urban and Community Forestry
2024 Inflation Reduction Act Applications Summary**

125	\$146,415,777.14	\$30,800,000	39 Applications \$38,757,155.39	31 Applications \$22,511,508.15	17 Applications \$22,855,833.13	21 Applications \$25,924,843.38	3 Applications \$2,515,800.00	14 Applications \$34,394,637.09
TOTAL APPLICATIONS	TOTAL FUNDING REQUESTED	TOTAL IRA FUNDING AVAILABLE	URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS	URBAN FOREST EQUITY CAPACITY BUILDING	URBAN FORESTRY REGIONAL OR STATEWIDE IMPACT

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WHY



**CAL FIRE Urban and Community Forestry
2024 Inflation Reduction Act Applications Summary**

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TOTAL APPLICATIONS	TOTAL FUNDING REQUESTED	TOTAL IRA FUNDING AVAILABLE	URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS	URBAN FOREST EQUITY CAPACITY BUILDING	URBAN FORESTRY REGIONAL OR STATEWIDE IMPACT

- Total Applications: 125
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- Application Areas
 - ***Urban Forest Equity Capacity Building: 3 applications, \$2.5 Million***
 - Greening Projects (SFC) Greenspace Renewal and Expansion in the Eastern Neighborhoods (GREEN) \$750,000.00
 - Urban Tree & Drought Forum (CCC) Water Management for Equitable Urban Tree Planting \$265,800.00

WHY



**CAL FIRE Urban and Community Forestry
2024 Inflation Reduction Act Applications Summary**

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TOTAL APPLICATIONS	TOTAL FUNDING REQUESTED	TOTAL IRA FUNDING AVAILABLE	URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS	URBAN FOREST EQUITY CAPACITY BUILDING	URBAN FORESTRY REGIONAL OR STATEWIDE IMPACT

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WHY



**CAL FIRE Urban and Community Forestry
2024 Inflation Reduction Act Applications Summary**

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TOTAL APPLICATIONS	TOTAL FUNDING REQUESTED	TOTAL IRA FUNDING AVAILABLE	URBAN FOREST EXPANSION & IMPROVEMENT	URBAN FOREST MANAGEMENT ACTIVITIES	EDUCATION AND WORKFORCE DEVELOPMENT	GREEN SCHOOLYARDS	URBAN FOREST EQUITY CAPACITY BUILDING	URBAN FORESTRY REGIONAL OR STATEWIDE IMPACT

- Total Applications: 125
- Total Funding Requested: \$146,415,777.14
- Total Funding Available: 30,800,000 [21%]
- Application Areas
 - ***Urban Forestry Regional or Statewide Impact: 14 applications, \$34.4 Million***
 - California Alliance of Boys & Girls Clubs (SFC) Boys & Girls Clubs Urban Forestry Project \$194,949.71
 - Earth Island Institute (AC) Strengthening the California Schoolyard Forest System \$2,998,756.93