

Los Angeles Center for Urban Natural Resources Sustainability Rooted in Research



Los Angeles Tree Summit Miranda Hutten, U.S. Forest Service May 22, 2020

TODAY'S PRESENTATION



Los Angeles Center for Urban Natural Resources Sustainability Rooted in Research

- Our unique model
- Research programs
- Tools and resources available to you
- How to engage with us

WHO WE ARE







Need

Vision

Mission



Executive Oversight Team











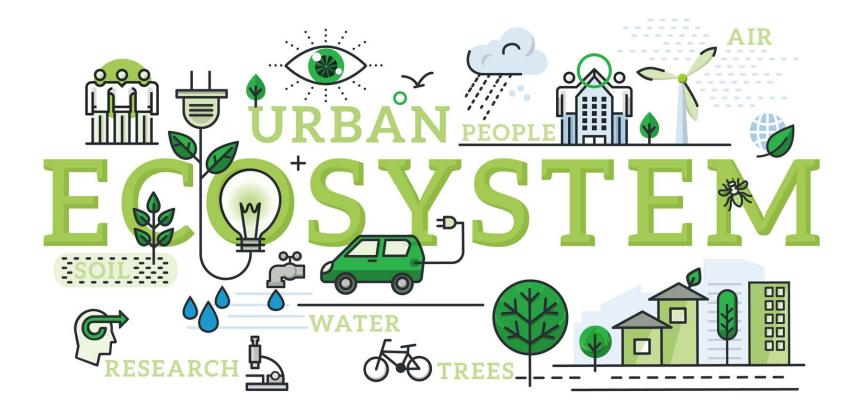








Ongoing Research Programs

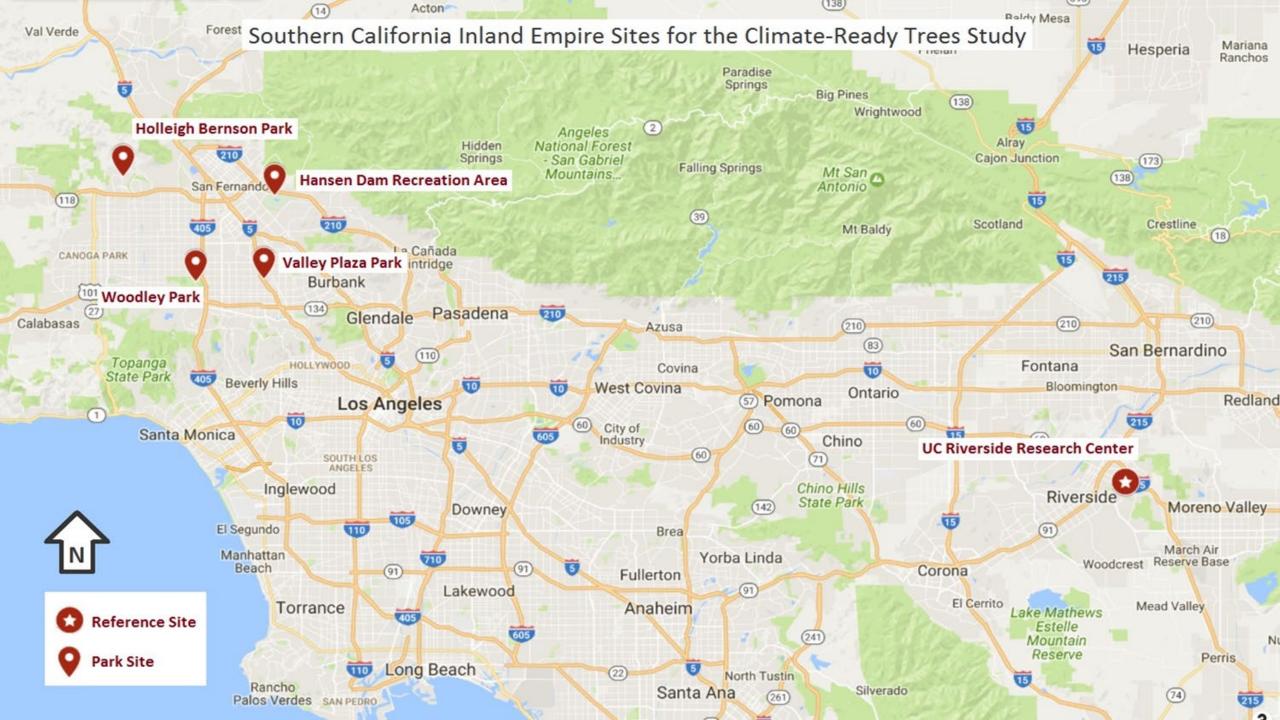


Climate Ready Trees

- A 20-year study to test tree species based on:
 - a) Qualities as urban trees
 - b) Potential resilience to anticipated climate
 - change impacts







Tree Stewardship Best Practices in Environmental Justice Communities

 A research pilot program that applied the a community-based social marketing to the challenges of urban tree stewardship



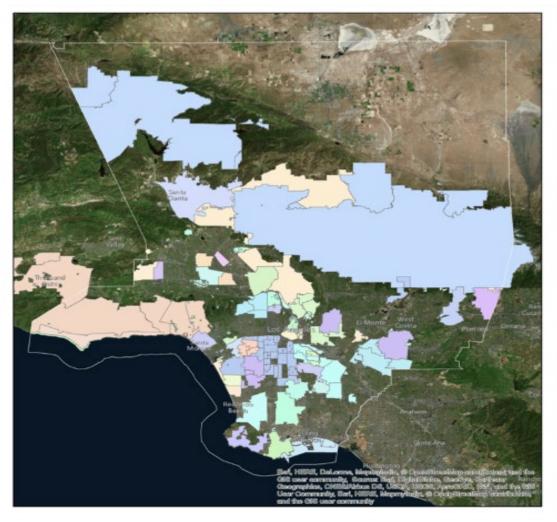






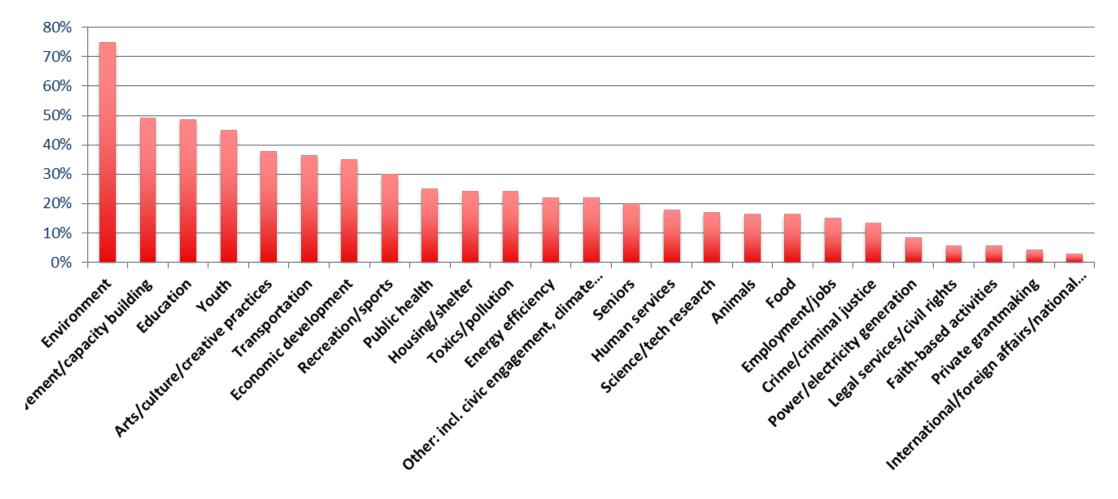


LA STEW-MAP

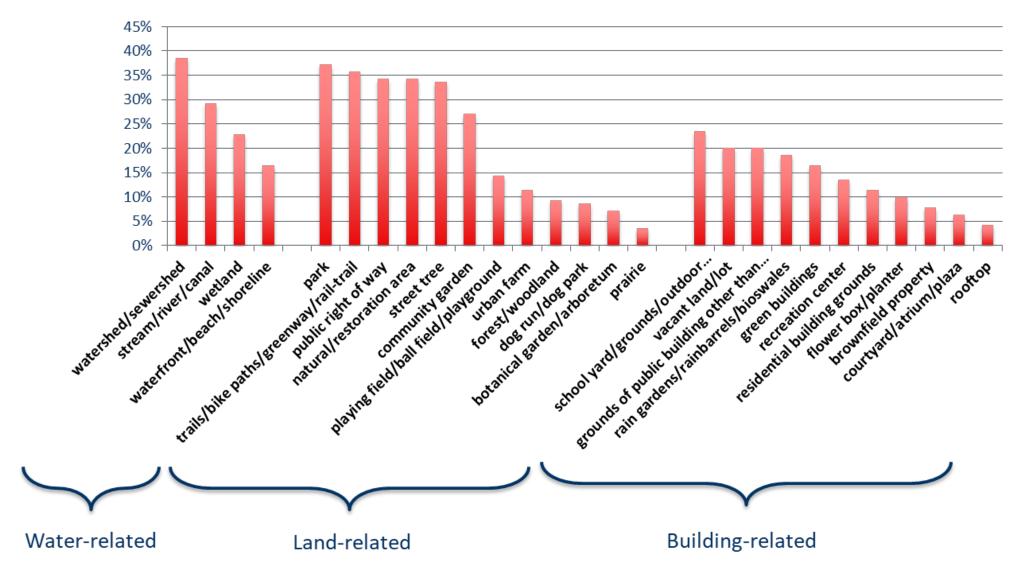


 Network analysis that seeks to inventory, characterize, and geographically map the activities and relationships of environmental stewardship organizations in urban areas

What do you work on? Select all that apply. N=136

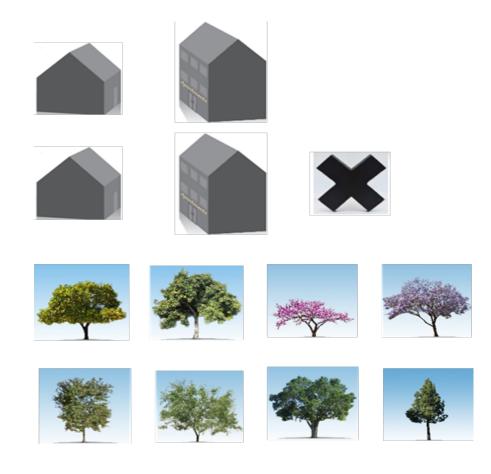


Where do you conduct stewardship activities? Select all that apply. N=130



The Plant Your Street Game: Tree Preference Study

 The study aims to improve understanding of urban tree planting preferences and public engagement by plant your street research garme



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Fellowship Program



Announcing the 2020-2021 Science Fellowship cohort

The LA Urban Center Executive Oversight Team is pleased to announce the selected 2020-2021 Science Fellowship cohort:

Stephanie Piper

University of California, Riverside

Research Topic Area: Urban Tree Canopy & Air Quality

Christian Benitez

California State University, Los Angeles

Corinne Bassett

University of British Columbia

Research Topic Area: "Quantifying Bird Habitat Using LiDAR," Urban Tree Canopy Biodiversity, Urban Tree Canopy and Green Infrastructure, Urban Tree Canopy and Environmental Justice Research Topic Area: Urban Tree Canopy Change Analysis & Impacts of Development









Online Resources



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Urban Natural Resources Research Database

A curated database of scientific work on environmental, urban ecosystem, urban natural resources and socioeconomic topics relevant to the southern California region.

Search the database:

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	Conference proceedings	Journal article	
	Presentation	Slideshow	
	Technical report	Website	
	Other		

ive a suggestion for a entry? Send us an email



ABOUT US PARTNERS STAY CONNECTED GRAY TO GREEN RESEARCH CONTACT US

Research Database

Keywords

aerial and satellite imagery aesthetics air pollution removal air quality Atturpenter allometric equations arbonouture and and semi-arid climates Asian tenghomed texter Australia Batterone benefit-cost analysis best management practices blodiversity transmiss BVOCs carton syste carbon tootprint carbon market Carbon sequestration case study children and youth climate change community gardens community participation compensatory valuation computer modeling contact with nature crime detoestudion Deriver design drought ecological integrity economics ecosystem disservices ecosystem Services ecosystem services valuation ecosystem structure and function education emerald ash borer energy conservation engineered and environmental justice fauna field study tores teatro torest regeneration torest remeans forest structure gardens GIS governance greenhouse gases greenhouse gas offsets green infrastructure greenspace groundwater grown habitat hazards and risks hedonic valuation history Houman human health and well-being LTree Eco LTree Streets impervious cover Invasive species Inventory Irrigation isoprene jobs land COVET Inntinano antiferration land USE leaf area life-cycle analysis LOS Angeles machine learning manuals monoterpenes native species natural represention New York noise reduction non-profits nonpoint source polition nursery open space ozone pating tos parks park trees pests and diseases planning DOICV promution property values public health public perception race and ethnicity raintal interception FeCreation remote sensing residential restoration review risk management roadside vegetation Sacramento safety Sait Lake Sarva Monica Seattle shade trees unitary index social benefits socioeconomics software soil sol carbon spatial analysis species composition species diversity species importance value sprawl State Implementation Plans Interviews Stormwater management Interscores Street trees Surveys and interviews sustainability temperature moderation two haves traffic-generated pollutants transpiration transportation tr planting tree planting initiative trees on private property UFORE urban-wildland interface urban agriculture urban canyons urban densitication Urban Forest Health Monitoring urban forest management urban forestry urban green urban greening urban heat island urbanization urban nature urban planning urban woodants Valuation vegetative berrier Water-use efficiency water quality watersheds wildlire wildlife wood utilization wood waster

A method for locating potential tree-planting sites in urban areas: A case study of Los Angeles, USA

by C Wu, Q Xiao, EG McPherson

Urban Forestry & Urban Greening 7(2):65-76

Link: http://www.treesearch.fs.fed.us/pubs/30226

2008

In support of Los Angeles's Million Tree Initiative, a method was devised to determine if there were sufficient potential tree planting sites for the project. Remote sensing technology and QuickBird satellite imagery were used to classify land cover into four tree-relevant categories: impervious surface, trees, irrigated grass, bare soil/dry grass. An algorithm was developed to find suitable planting spaces (land cover of grass, bare soil, or dry grass; tree trunks a specified distance from impervious surface; minimum square feet of pervious surface available; no crown overlap with existing trees). The algorithm featured two modules, the first to identify planting sites and the second to "plant trees" within those areas. It was designed to be run repeatedly, with each iteration adding trees to appropriate areas that remain open. Ground-truthing was performed to assess accuracy. A total of 2.2 million suitable planting sites were found. Keywords: aerial and satellite imagery, computer modeling, GIS, land cover, remote sensing, tree canopy cover, tree planting initiative, and urban forestry

Engaging Youth



Be a Green School.

Discover how and why to become a green school.

VISIT

Discover the Forest.



Learn more about the forest and all that they have to offer! Enjoy these science tips and fun facts to help you appreciate and conserve our natural lands.



Tools & Presentations

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ABOUT US PARTNERS STAY CONNECTED DISCOVER RESEARCH 3 CONTACT US



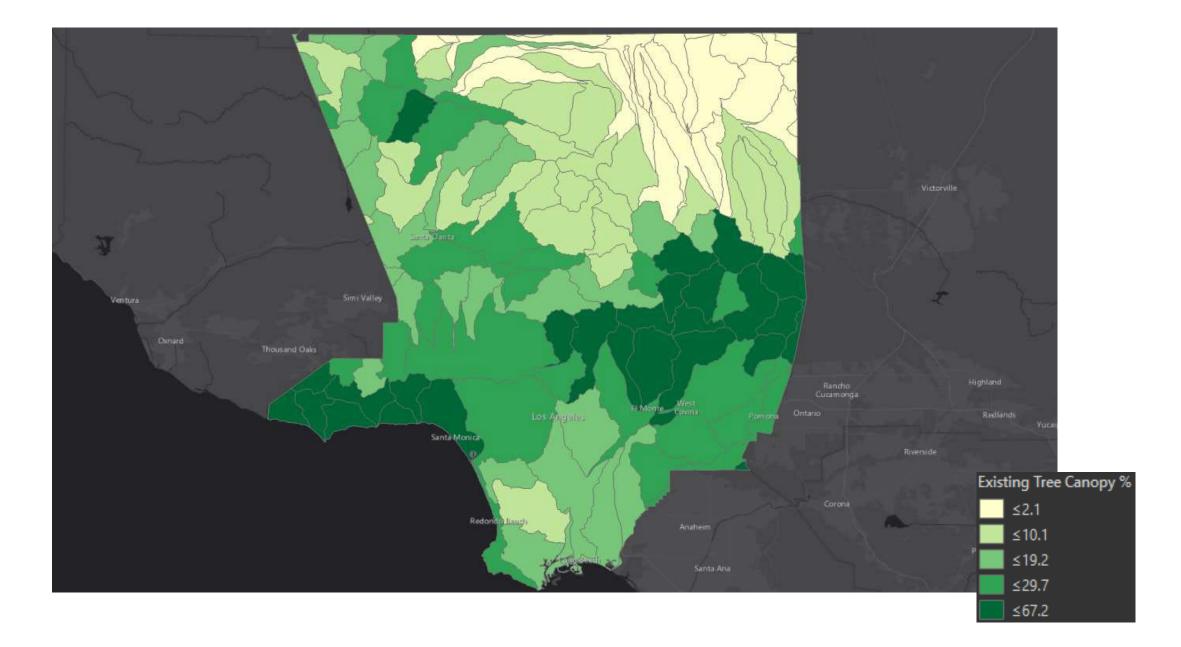
Stewardship Mapping and Assessment Project

The Stewardship Mapping and Assessment Project (STEW-MAP) is an online, searchable GIS database that helps people identify and locate environmental stewardship organizations, partnerships, and opportunities in their city.



Coming Soon LiDAR Online Viewer





How to Engage With the LA Urban Center

Partners meetings / workshops/ science seminars



How to Engage With the LA Urban Center

Connect with ongoing studies.

Share your work / resources / products



How to Engage With the LA Urban Center

Join an outreach event – connect with urban publics & the next generation of conservation leaders



Stay Connected



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