UNIVERSITY OF CALIFORNIA Agriculture and Natural Resources

Are You Making the Most Out of Your County Extension Office?



Janet Hartin, UC Cooperative Extension Horticulturist San Bernardino, Riverside, and Los Angeles Counties jshartin@ucanr.edu

Land Grant Universities Offer Cooperative Extension Programs in Every State

Morrill Act established land grant universities
Hatch Act (1887) established agricultural experiment stations under the direction of each state's land-grant college

• Smith–Lever legislation (1914) added Cooperative Extension with state matching funds and local support



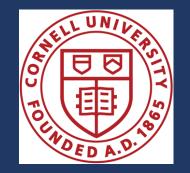
Cornell Agricultural Workforce Development

CCE's Agriculture Workforce Development program demystifies new farm and labor laws to help to build committed, engaged and effective teams through tried-and-tested human resource management practices and research-based leadership and management development education.



Cornell Cooperative Extension Pesticide Safety Education Program (CCE-PSEP)

CCE's PSEP promotes the proper use of pesticides for the applicator, the consumer, and the environment, and also serves as a pesticide education center for those interested in pesticide chemicals.



Cornell Cooperative Extension

MICHIGAN STATE UNIVERSITY

Search

Get Started

Taking a Soil Sample

- 1. Obtain an MSU Extension Home Lawn and Garden Soil Test Mailer.
- 2. Decide which one lawn or garden area you would like to test. Use a spade or a trowel and a clean plastic pail.

MSU Soil Test Home Get Started Your Results Tools - Ask an Expert

- 3. Collect 10 random soil samples from this lawn or garden area. Each of these samples should be about 1/2 cup.
- 4. To do so, remove a slice of soil (extending to the bottom of the plant roots 3 inches deep for lawn; 7 inches deep for all other plants).
- 5. Do not include roots, thatch or other plant materials in the sample.
- 6. Mix the 10 sub-samples together. If the soil is wet, spread it on paper and allow to air dry overnight before filling the sample bag. Do not use artificial heat (i.e. radiator, oven, microwave, hair dryer, etc.) to force-dry the sample.
- 7. Place roughly 1 cup of the well-mixed soil inside the resealable plastic bag that is included in the Soil Test Mailer and seal carefully.
- 8. Do not overfill the plastic bag. Do not pour extra loose soil inside the white postage-paid envelope.

How to Submit HOME Lawn and Garden Samples

The Home Lawn and Garden Soil Test Mailer can be used to process any type of home soil sample (lawn, vegetable garden, tree, shrub, flower, and tree/small fruit). It is available through the <u>MSU Extension Bookstore</u> (opens in a new window). This

mailer may also be available for pick-up at your local MSU Extension county office. Click here to find a local county office (opens in a new window)

MICHIGAN STATE



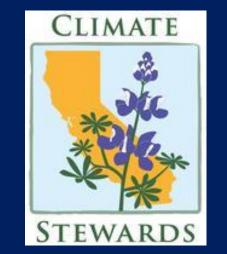
Home Lawn and Garden Soil Test Mailer All materials and instructions included — no postage necessary!

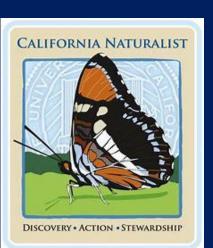
kit includes everything you need to send a soil sample from your laws or garden to the Michigan State University Soil and Plant National Laboratory for Institute, "Early an electronic requires with personalized Intelligent encommendations that will help you grow bounduit, beating topics and produce the environment."



The mission of UC Cooperative Extension is to conduct and extend applied research and education in agricultural and natural resources to the workforce, land managers, and the general public

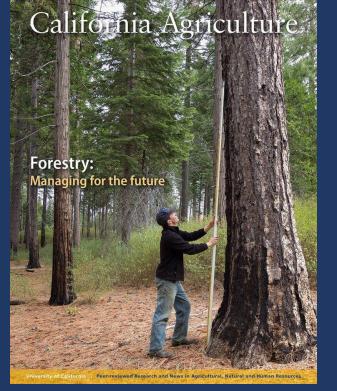






















A Commitment to Practice: The New Technical Assistance MOA to enhance greater partnering was enacted Dec. 2022



The California Conservation Planning Partnership Was Formalized in December 2022

https://drive.google.com/file/d/1T4j4ahLhTRRdH2v2Ept7e6h3mZlqqYOA/view

- USDA Natural Resources Conservation Service
- California Department of Food and Agriculture
- University of California's Agriculture and Natural Resources
- California Association of Resource Conservation Districts

IERCD and UCCE Partnership Started in 2017











UC ANR Environmental Horticulture Team





Hung Doan, Chandra Richards, Amrita Mukherjee







Hung Doan (UCCE Small Farms Advisor)

- Helps farmers conserve natural resources while maintaining optimal crop production

Chandra Richards (UCCE SALC Manager)

- Helps conserve and expand farmland emphasizing climate-smart management practices through the Sustainable Agricultural Land Conservation (SALC)

Amrita Mukherjee (UCCE Urban Agriculture Advisor)

- Helps urban agriculture producers conserve natural resources while maintaining optimal crop production

2023: Year in Review



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Debbie Schnur (Left)



Dee Denton (left)



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Why Trees? Why This Project?

CA (Often) Has a 'Moisture' and (Always) a 'Tree Drought'

While there are ~ 9 M street trees in California, their density has decreased 30% since 1988. CA cities have the lowest tree canopy per capita (108 yd²) in the U.S.



Climate-ready Landscape Trees Study

UC: Alison Berry, Jim Downer, Janet Hartin, Darren Haver USFS: Greg McPherson, Natalie van Doorn, Erika Teach

 Measuring performance of select landscape tree species based on heat and drought resistance, CO₂ sequestration, soil tolerance, pest resistance, shade, biodiversity, rareness, longevity, etc.





Trees Cool Urban Heat Islands (UHIs)

Temperatures of impervious surfaces can be >60°F hotter than surfaces shaded by trees in inland and desert cities









Provides Climate-Ready Trees to Residents of Low Shade Neighborhoods





Mandy Takes an Active Role, Too!



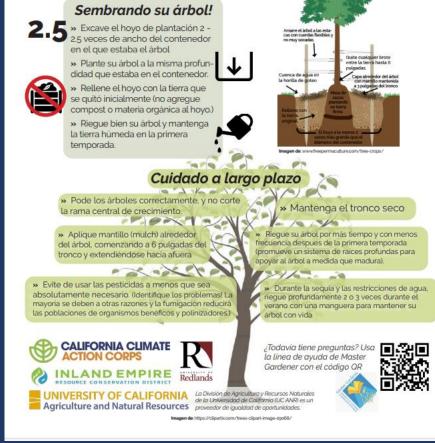
Education is a Key Element Since Less Than 40% of Trees Live Beyond 20 Years in Urban Settings





El Cuidado de Árboles

¿Por qué son importantes los árboles? Los árboles refrescan el calor en las areas (islas) urbanas; filtran los contaminantes del aire y el agua; almacenan dióxido de carbono; mejoran la biodiversidad y proveen un hábitat; proveen barreras de sonido y viento; embellecen los vecindarios, iy más!



English and Spanish Educational Materials

High Desert Tree Giveaway Regalo de Árboles en Joshua Tree

Saturday / sabado, Jun. 10, 2023 3:00 - 4:00 PM



Redlands

Palo Verde Parkinsonia x "Desert Museum"

 Sunset climate zones 8 - 14. 18 - 20

- Deciduous
- Fast growing to 20' tall Tolerates poor soil
- Beautiful yellow flowers

Mesquite Prosopis spp.

- Sunset zones: 10-13, 18-24
- Deciduous
- · Grows 35' tall Thornless (Maverick sp.)
- Small yellow flowers in spring and summer

Questions about your trees? 22Trees4tomorrow@gmail.com



The University of California Division of Agriculture & Natural Resources (UC ANR) is an equal opportunity provider. Tree photos from selectree.calpoly.edu/ · Graphics from 123rf.com profile: virtosmedia; ccocollection

ANDEMPIR

Joshua Basin Water District / Distrito del Agua

61750 Chollita Rd, Joshua Tree, CA 92252

Palo Verde Parkinsonia x "Desert Museum"

- Zonas climáticas (al atardecer);
- 8 14. 18 20
- Caduco
- Crece rápido hasta 20' de altura
- Tolera tierra deficiente
- Hermosas flores amarillas



Mezquite Prosopis spp.

- Zonas de atardecer: 10-13, 18-24 Caduco
- Crece hasta 35' de altura
- Sin espinas (esp. Maverick)
- Pequeñas flores amarillas en la primavera y verano

¿Preguntas sobre sus árboles? 22Trees4tomorrow@gmail.com

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RESOURCE

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ÁRBOLES DE SOMBRA GRATIS

Sábado, 23 de Septiembre de 2023 10 AM - 12 PM

Parque Louis Robidoux y Pecan Grove (LRPPG) 5370 Riverview Drive, Jurupa Valley, CA 92509

¿Vive usted en el área de Jurupa Valley, CA y quiere un árbol gratis? ¿Tienes espacio para el árbol y su propio transporte para traerlo a casa? ¿Está disponible septiembre 23 para escuchar una breve charla de nuestros Jardineros Maestros UCCE sobre la plantación y cuidado y para recoger su árbol?

Si es así, registrese previamente para un árbol aquí:

https://ucanr.edu/freetreesjurupavalley











The "Trees for Tomorrow" Project was featured in the Most Recent UC Master Gardener Impact Report



How to Contact Your Cooperative Extension Office

https://extension.org/find-cooperative-extensionin-your-state/



Thank You!

Questions?