



Welcome to



Pepperwood
P R E S E R V E



Pepperwood
P R E S E R V E
Inspiring conservation through science

Environmental Stewardship for the Whole Community

Los Cien April 19, 2019

Dr. Lisa Micheli, President and CEO

Pepperwood Foundation

mission

to advance science-based conservation
throughout our region and beyond



3200-acre scientific preserve
in Sonoma County

The Dwight Center
for Conservation Science



Latinos are a Green Force

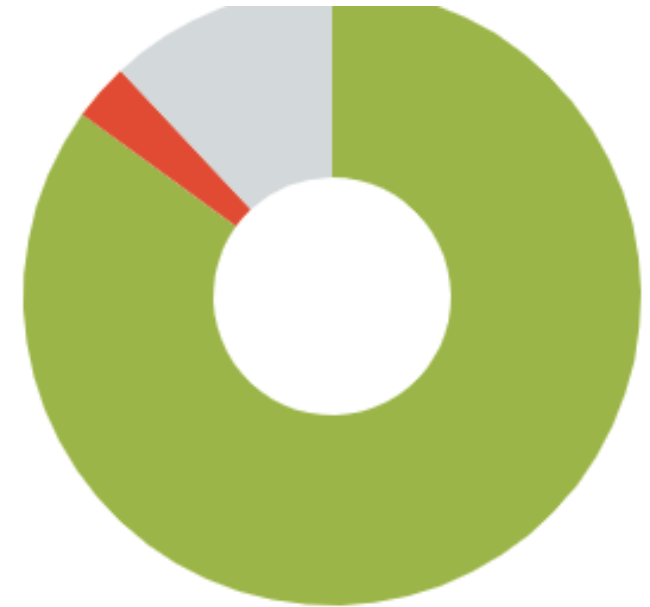
85% of Latinos believe it is extremely important or very important to reduce smog and air pollution.

84% of Latinos say the U.S. should mandate more clean energy sources like solar and wind power.

86% of Latinos support increased conservation of water.

79% of Latinos believe it is extremely or very important to protect our nation's wildlife, public lands, and endangered species.

78% of Latinos support state clean energy standards to prevent global warming and climate change.



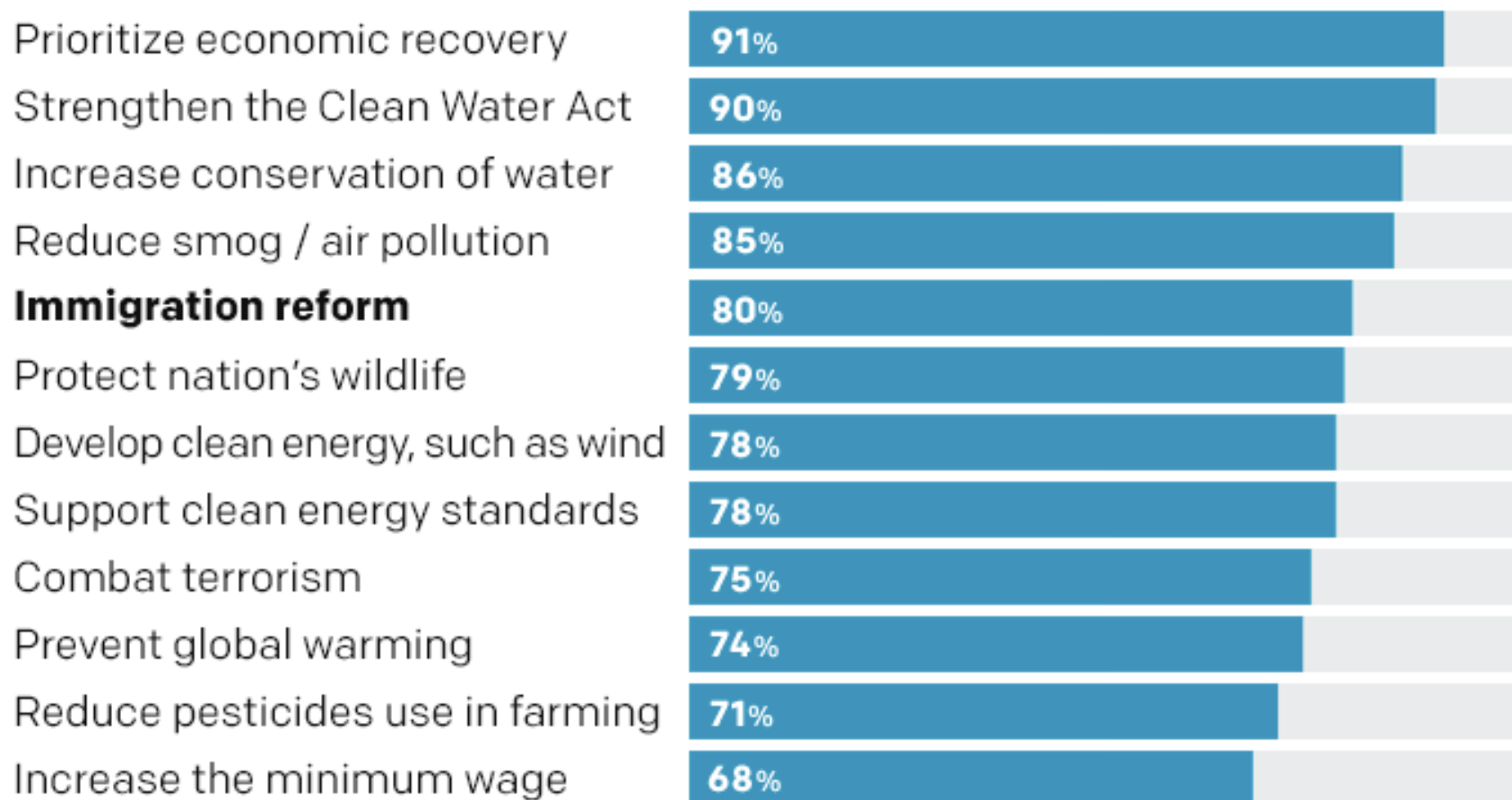
■ Extremely or very important.
■ Not that or not at all important.
■ Don't know.

National survey

Earthjustice & GreenLatinos: 2015 Environmental Attitudes Survey by Latino Decisions

A wide-range of environmental issues are as important to Latino voters as the passage of comprehensive immigration reform.

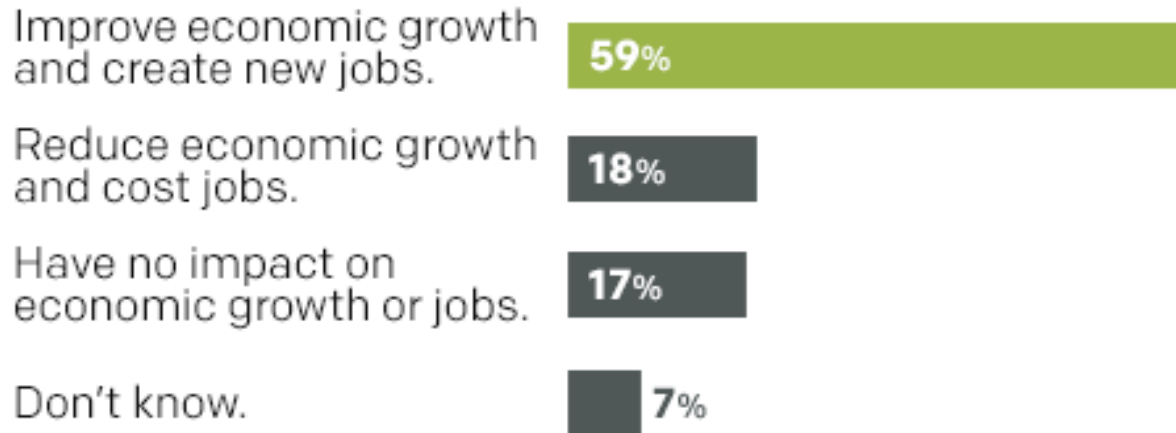
RANKING ISSUES OF IMPORTANCE
FOR THE PRESIDENT AND CONGRESS TO ADDRESS



Earthjustice & GreenLatinos: 2015 Environmental Attitudes Survey by Latino Decisions

Latinos support a Green Economy

59% of Latinos believe that if the country enacted stronger environmental laws, it would improve economic growth and create new jobs.



87 percent of Latinos say they would like to see more “Green Jobs” in the Latino community.

New Poll: Latinos Want CA Legislature to Tackle Pollution, Climate Change in Latino Communities

See poll results here: bit.ly/CALatinoClimatePoll

Los Angeles, CA – In a first of its kind effort, new groundbreaking data points to overwhelming support by California Latino voters on critical positions on the need for stronger state efforts in combating pollution particularly in communities of color, reducing our dependency on petroleum, and further expanding the Green Economy in Latino communities. The poll of 400 registered voters was conducted by Latino Decisions in partnership with Presente.org, Communities for a Better Environment (CBE), the California Environmental Justice Alliance (CEJA), Physicians for Social Responsibility-Los Angeles (PSR-LA), and the Greenlining Institute.



July 2018
California survey

Spanish language Latinos are even Greener

- More than eight in ten Latinos **(84%) think global warming is happening**, including nearly nine in ten Spanish-language Latinos (88%).
- Seven in ten Latinos **(70%) understand global warming is mostly human caused**, including three-quarters of Spanish-language Latinos (76%).
- Three in four Latinos **(78%) are worried about global warming**; one in three (35%) are “very worried”, including 43% of Spanish-language Latinos, who are “very worried”.
- **Three in four Latinos want corporations and industry (77%), citizens themselves (74%), President Trump (74%), and the U.S. Congress (73%) to do more to address global warming.**

Seven in ten Latinos (71%) have never been contacted by an organization working to reduce global warming.

Staff Diversity in Environmental Organizations

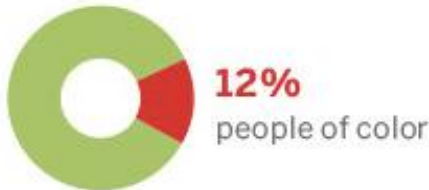
NGO















Government Agency



Foundation



[ABOUT](#) [REPORTS](#) [DIVERSITY DATA](#) [AT WORK](#) [RESOURCES](#)

	Interns	Hired Staff in past 3 years	Leadership	Board Slots
NGOs	 22.5% are people of color	 12.8% are people of color	 12% are people of color	 4.6% are people of color
Government Agencies	 22.5% are people of color	 11.7% are people of color	 19% are people of color	 6.9% are people of color
Foundations	 36.4% are people of color	 17.1% are people of color	 12.4% are people of color	 13.3% are people of color

The Green Insiders' Club



[ABOUT](#) [REPORTS](#) [DIVERSITY DATA](#) [AT WORK](#) [RESOURCES](#) [MEDIA](#)

1. The Green Ceiling

Despite increasing racial diversity in the United States, the racial composition in environmental organizations and agencies has not broken the 12% to 16% "green ceiling" that has been in place for decades.

2. Unconscious Bias, Discrimination, and Insular Recruiting

Confidential interviews with environmental professionals and survey data highlight alienation and "unconscious bias" as factors hampering recruitment and retention of talented people of color.

3. Lackluster Effort and Disinterest in Addressing Diversity

Efforts to attract and retain talented people of color have been lackluster across the environmental movement.

The Result: An overwhelmingly white "Green Insiders' Club."

"As we think of 'mobilizing' the Latino community, we must take a step back and rather than simply asking them to take action, we must invest in authentic, respectful, proactive education, training, and development of grassroots Latino advocates and communities - and also offer them the chance to take action. Too often, conservation campaigns start with the latter, and forget that what matters in growing a vine is making sure it takes root. Future generations depend on it."

- Maite Arce, CEO, Hispanic Access Foundation

Latino Perspectives on Conservation Leadership



Juntos en el Rio, courtesy of Latino Outdoors

"We're talking about growing the whole tree here. We need to have strong roots from the ground up, rather than just sticking a pole in the ground and calling it a tree. The grassroots means it takes time and an investment in its nurturing and growth. Otherwise it is just like sticking a bunch of green poles in the ground and say this is how we get a forest, without putting the seeds in the ground"

- José Gonzalez, Latino Outdoors



La Madre Tierra

((Globe))
resource media

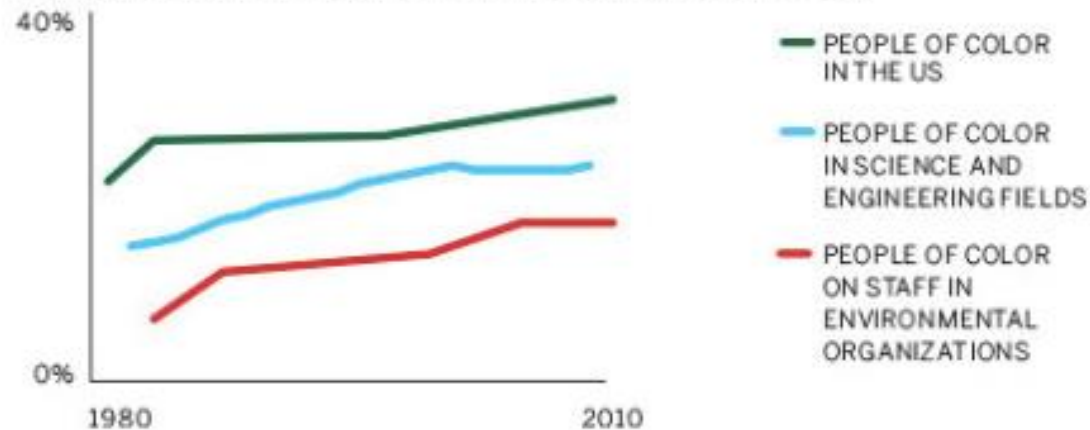
Pepperwood Native Advisory Council



At Pepperwood, we create immersive nature experiences to diversify STEM professionals and environmental stewardship as a whole.



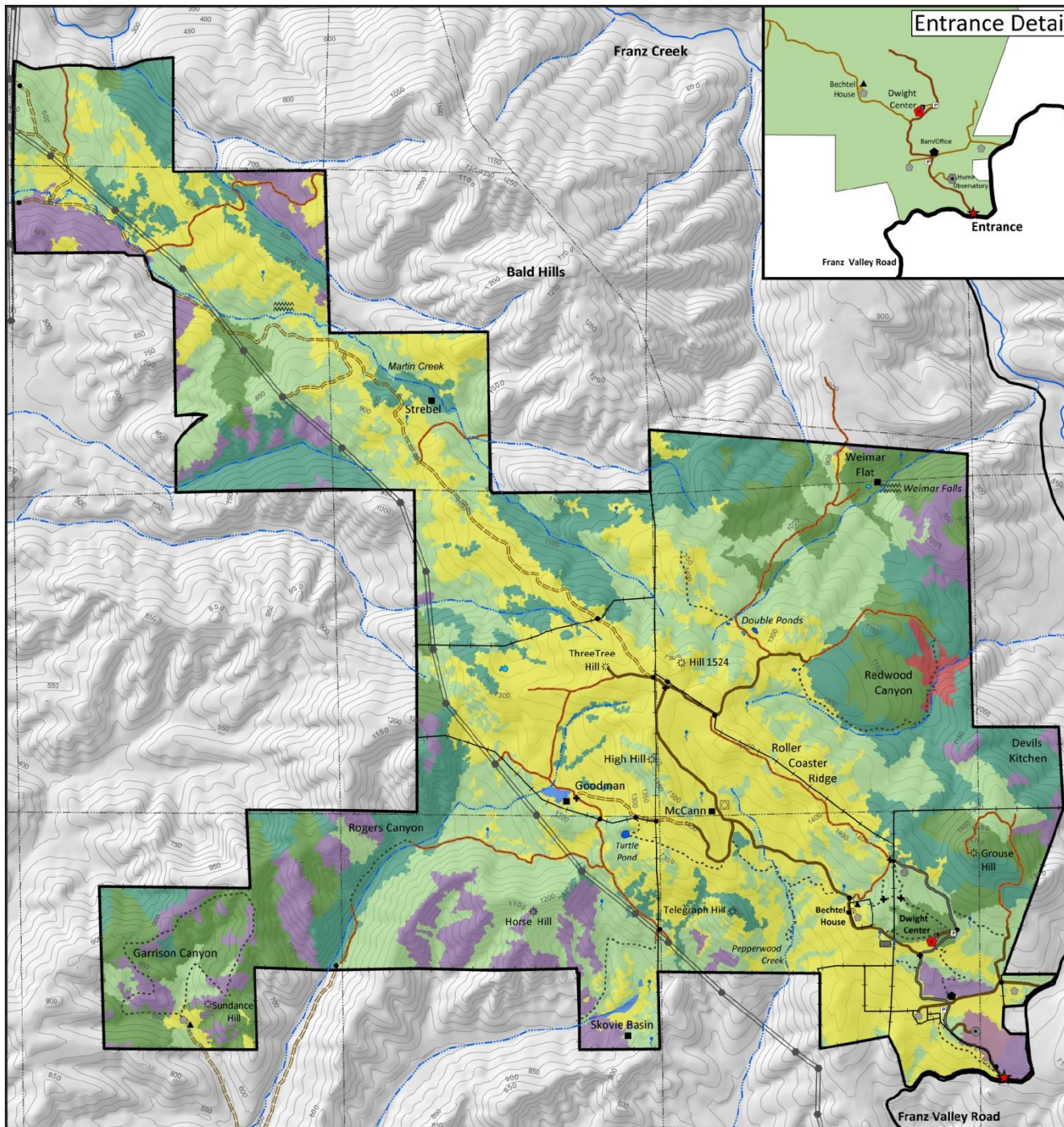
POPULATION AND EMPLOYMENT TRENDS OF PEOPLE OF COLOR



**3,200
acre
preserve**

home to
over 900 species
of plants and
animals

a living laboratory
Research
Education
Community
Building



October 2017



95% of our land burned in the Tubbs fire



Bushnell ⓘ Camera Name 136°F57°C 🌑

10-09-2017 02:01:01

including Sentinel Site sensors, two staff homes, our supply barn and office, and an astronomy observatory



Pepperwood is a sentinel site

climate



plants



water



wildlife



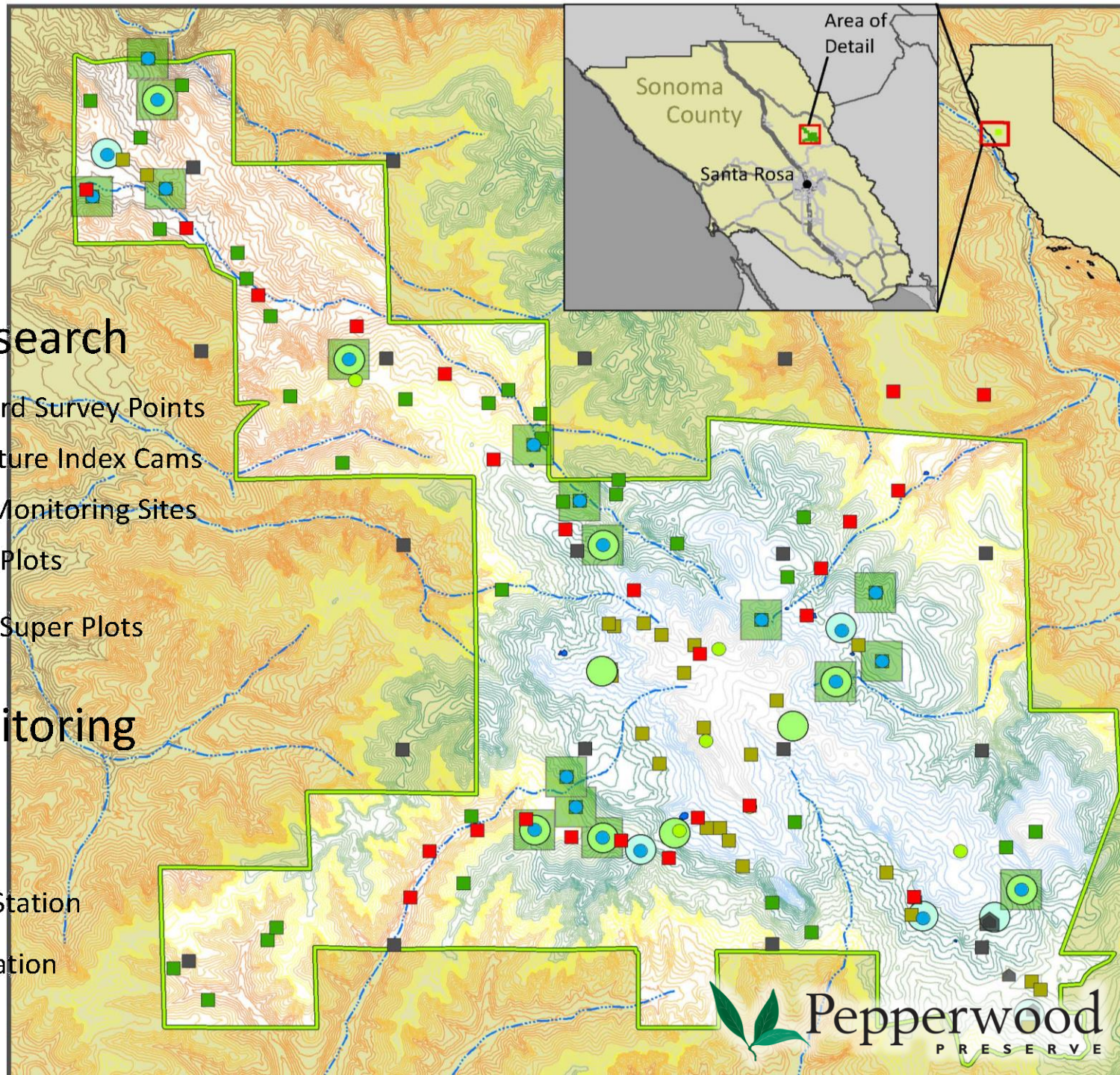
Sentinel Site

Biological Research

- Breeding Bird Survey Points
- Wildlife Picture Index Cams
- Grassland Monitoring Sites
- Vegetation Plots
- Vegetation Super Plots

Climate Monitoring

- Raingauge
- Antenna
- Micro Met Station
- Weather Station



Pepperwood Education

- Learn how to explore nature safely and confidently
- Get curious about parks and open spaces in Sonoma
- Build nature observation skills you can practice anywhere
- Pursue healthy outdoor experiences-with your family!
- Improve science achievement and performance
- Explore careers in science and conservation

We engage Latino audiences in nature via bi-lingual field trips, summer programs, and family experiences



science for the schools

enhancing state science standards



- we strive to serve students who wouldn't otherwise have access to environmental education



Students Conducting Scientific Inquiry (SCENIQ) Field Trips

- Students visit Pepperwood in the fall and spring; our educators visit their schools during the winter (9 hours of programming per student).
- Almost 1,000 students ages 7-11 served; 60% of those are Latino
- Field trips focus on connecting students to nature through journaling, class discussions, and hands-on science.





SCENIQ Exploring nature and building enquiry and observation skills!

I learned...
Yo aprendí...

That if you stay quiet you
will hear many noises



SCENIQ nature journal sample

My Favorite Bird Mi Ave Favorita

My favorite bird is a...

Mi ave favorita es un/una...

The Greater Roadrunner

Describe a body part this bird has that helps it live

Describe una característica que esta ave tiene que ayudarlo

Its tail helps it balance it out.

Its legs help it by running away
from predators and by catching prey.

This body part helps the bird because...

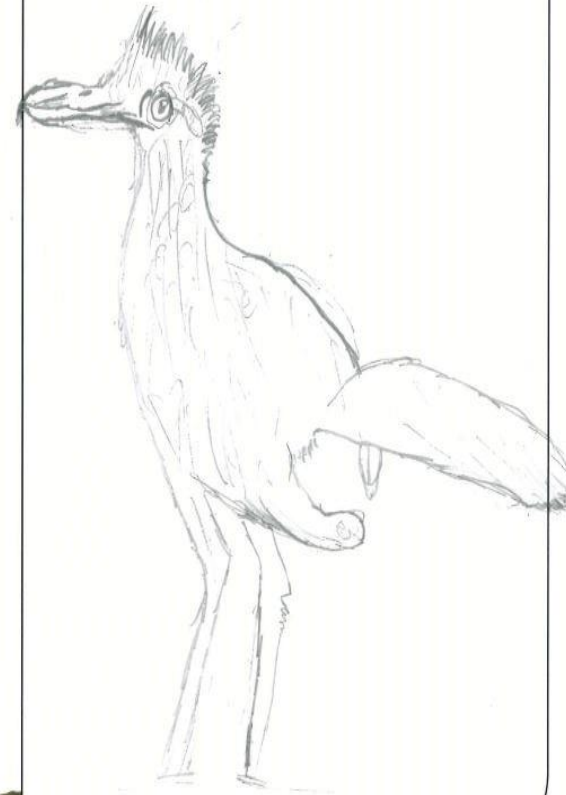
Esta característica ayuda al ave porque...

Its legs help it by running

15 miles per hour catching
food and running away from
!!!!!! PREDATORS!!!

Sketch your favorite bird here...

Dibuja su ave favorita aquí...



Observing via nature journals in SCENIQ



TeenNat Summer Field Institute

Young citizen scientists



- five-week summer institute – all scholarships
- 13-18 year old teens do fieldwork and learn about mapping technology and global biodiversity databases
- on-going mentoring and expeditions for alumni
- 28 teens participate per year, 60% are Latino



TeenNat Summer Field Institute



TeenNat community!!



TeenNat Summer Field Institute



education partnership

with the Santa Rosa Junior College



- UC California Naturalist course
- Conservation Science Internships with MESA students

community workshops

a wide range of weekend classes



- animal, plant, and science classes
- art, photography, and wellness retreats
- naturalist-led hikes, family walks, and nature lectures



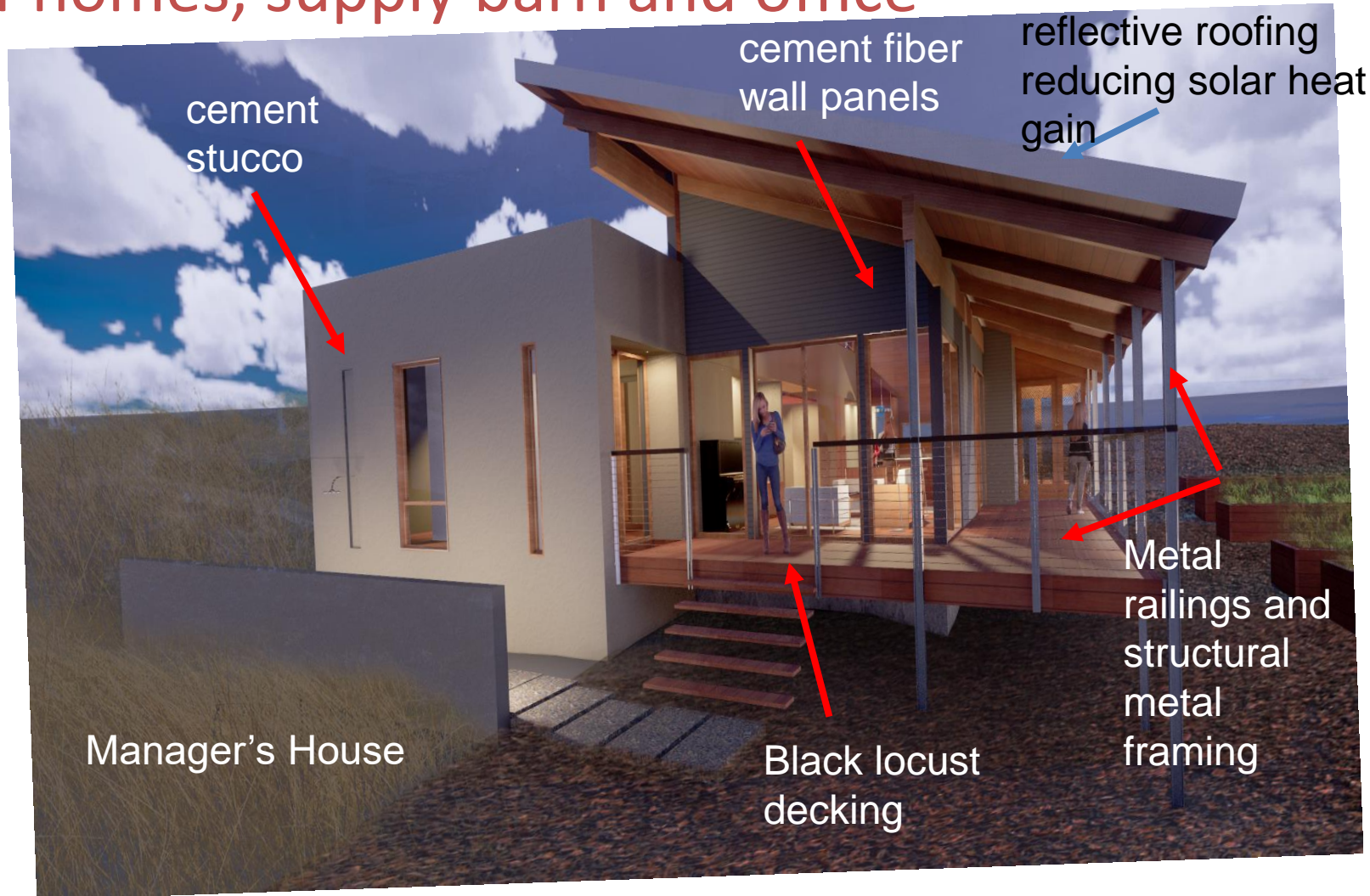
Douglas-fir removal at Pepperwood
(Left: treated, Right: untreated)



Prescribed burn at
Pepperwood, June 2017

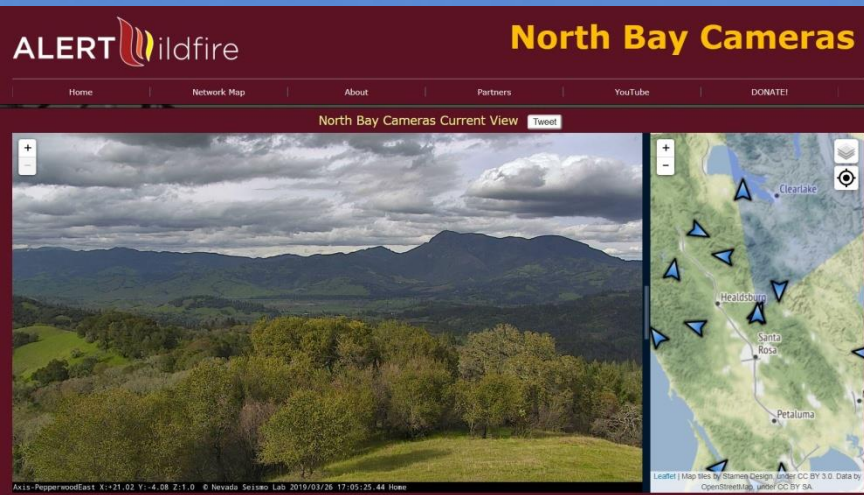


Rebuilding five fire resilient structures: staff homes, supply barn and office



Green, non-combustible and ignition resistant materials, will increase the fire resilience of buildings in a wildland urban interface and reduce pollution hazards

Leveraging technology to improve hazard forecasts and response



<http://www.alertwildfire.org/northbay/>



[https://www.pepperwoodpreserve.org/
livingwithfire/](https://www.pepperwoodpreserve.org/livingwithfire/)

Resources for homeowners and land
managers: 17 recorded presentations



LIVING WITH FIRE IN CALIFORNIA'S COAST RANGES



Upcoming family activities

Reptiles Class (sold out) - May 4

Butterflies Class - May 18

Photography for kids and adults - May 19

Family Nature Walk - (free) - October 19

Public hikes on Saturdays - (free) - September 14, October 12, November 9

Family Overnight - September 14-15, 2019

TeenNat Alumni Family Event - fall family camping weekend

Holiday Wreath Making Class - December



sign up at www.pepperwoodpreserve.org

we'd love for you to get involved!

- become a member
- enjoy a hike
- take a class
- volunteer
- support our rebuild!



www.pepperwoodpreserve.org



Let's organize a Los Cien hike at
Pepperwood!!
Thank you!



Dr. Lisa Micheli, President and CEO
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www.pepperwoodpreserve.org