



San Diego Biodiversity

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NATURAL HISTORY
MUSEUM

Michael A. Wall

Numbers and stuff

Reptiles & kin

91 species

13 non-native



A mongoose is shown in profile, standing on a patch of dark soil. It has a brown body with a white stripe running from its forehead down its back. Its ears are large and dark. The background is filled with dry, yellowish-brown grass and twigs.

Mammals

122 species

14 non-native

Birds

521 species

7 non-native





Plants

2447 species

758 non-native

Insects

20,000+ species

?? non-native



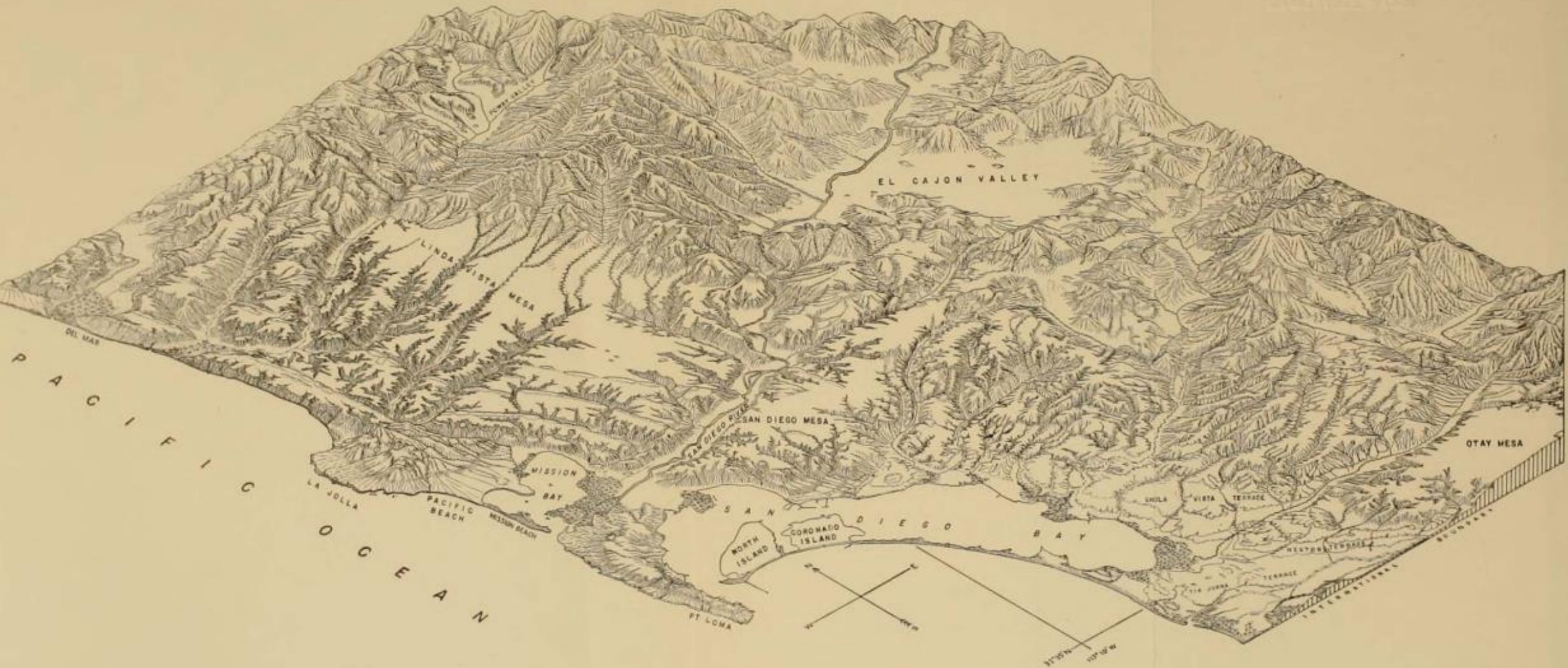
What drives diversity in SD?

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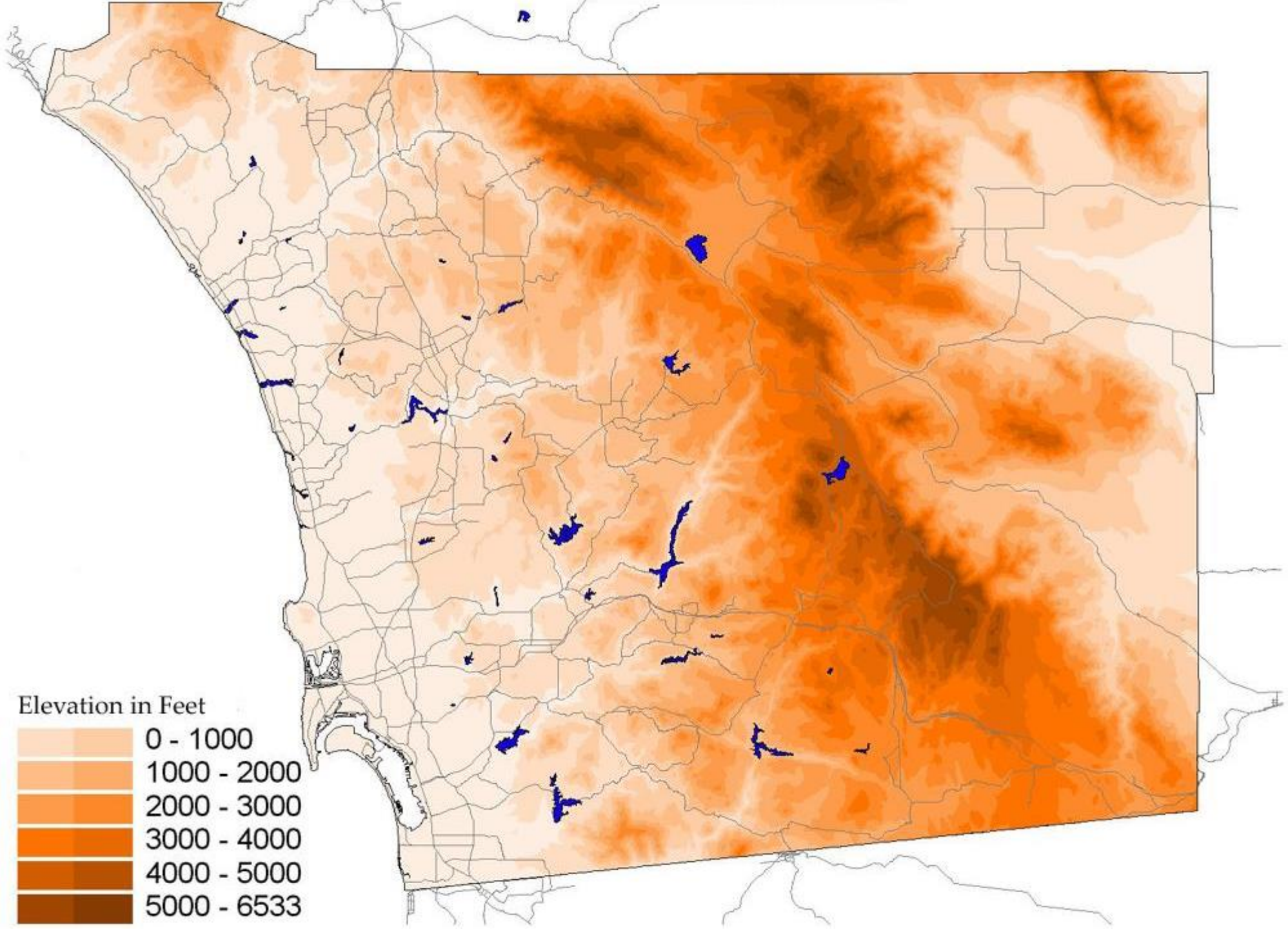
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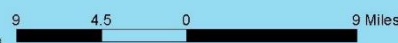
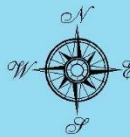
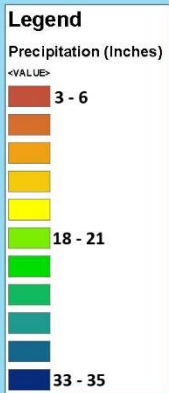
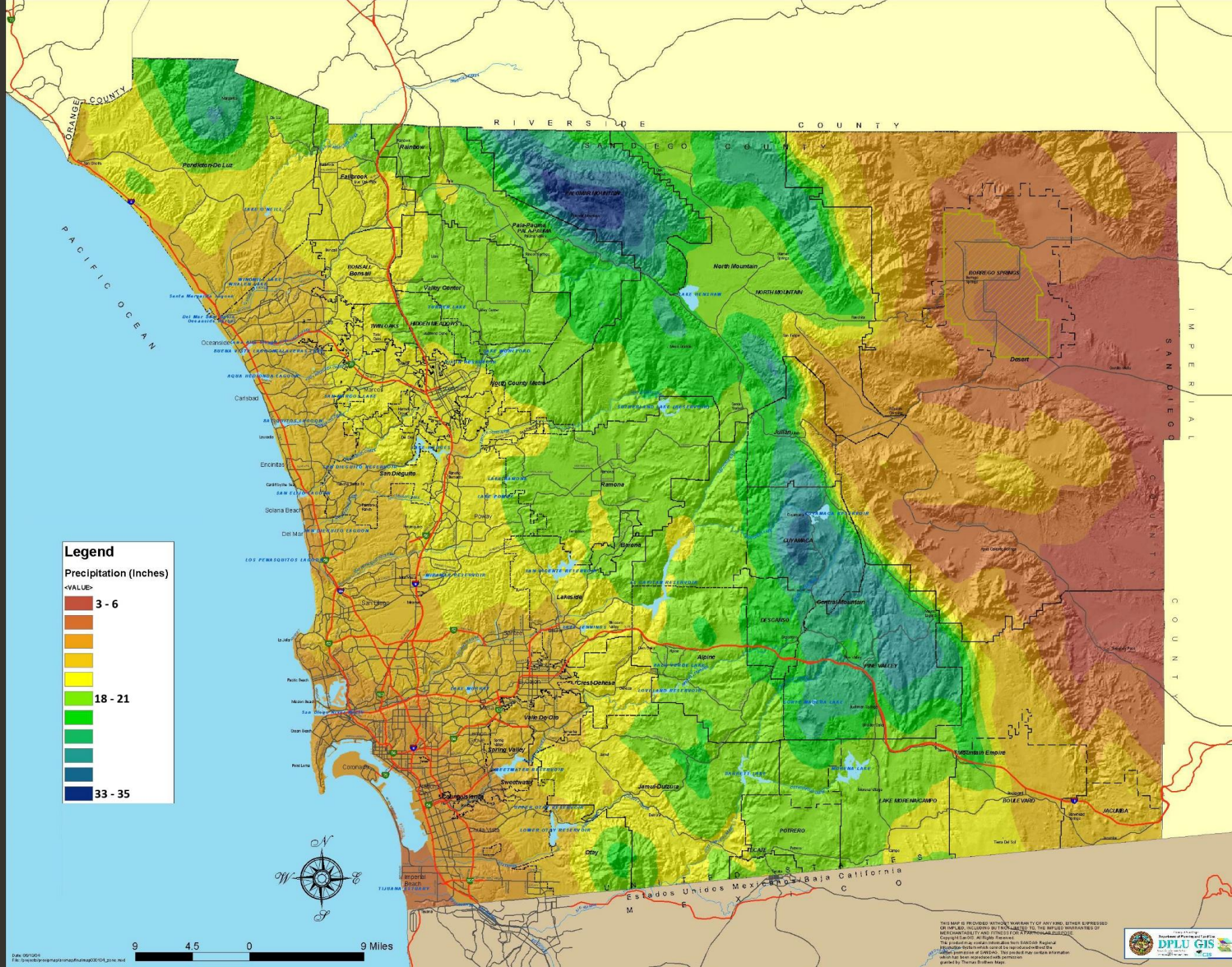
UNIVERSITY OF CALIFORNIA
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PHYSIOGRAPHIC BLOCK DIAGRAM OF THE SAN DIEGO AND LA JOLLA QUADRANGLES AND SOME OF THE MOUNTAINOUS REGION TO THE EAST

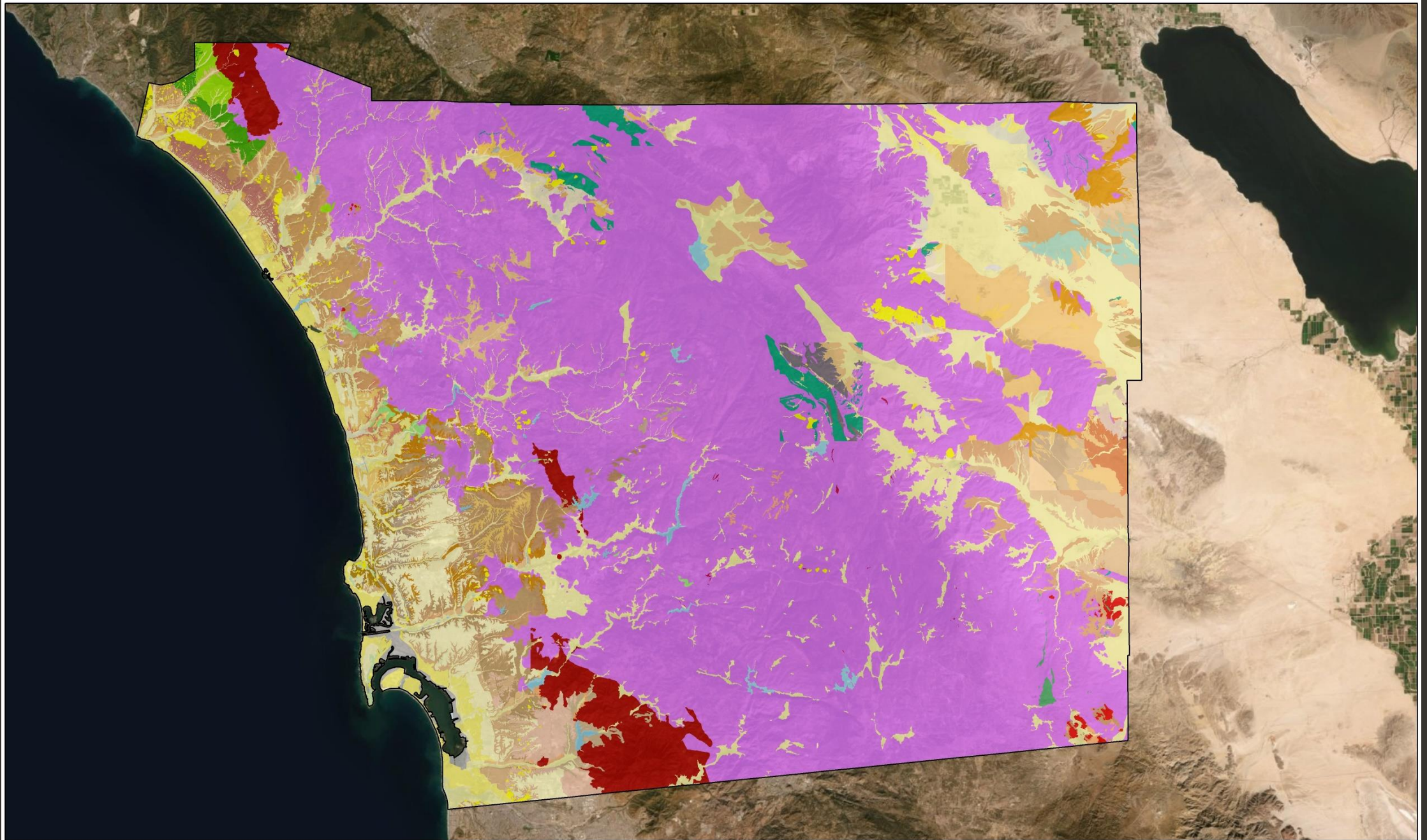
(DRAWN BY E. H. QUAYLE)





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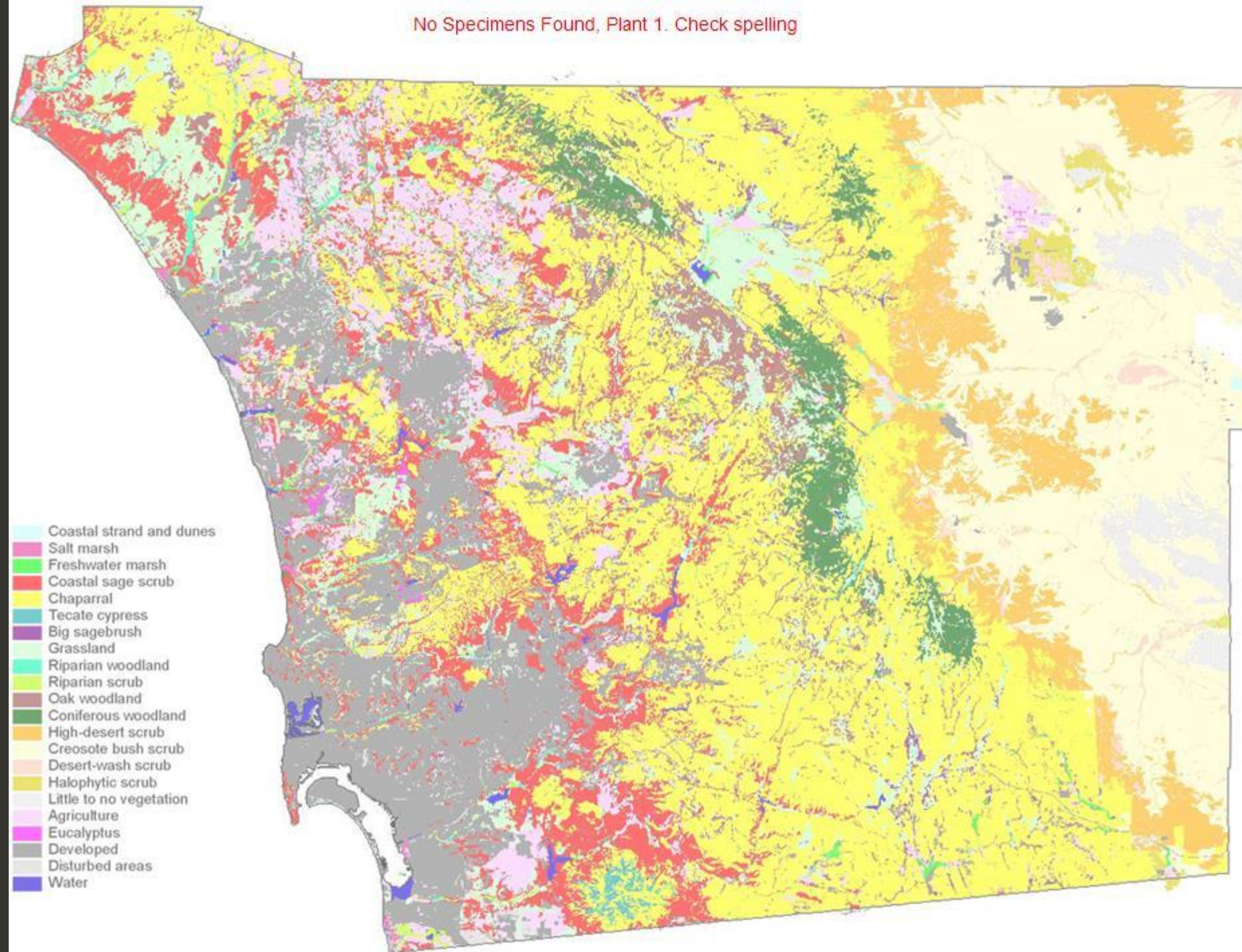
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Geologic Map
San Diego County, California



No Specimens Found, Plant 1. Check spelling



Geological Diversity = Biological Diversity

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Biological diversity begets biological diversity

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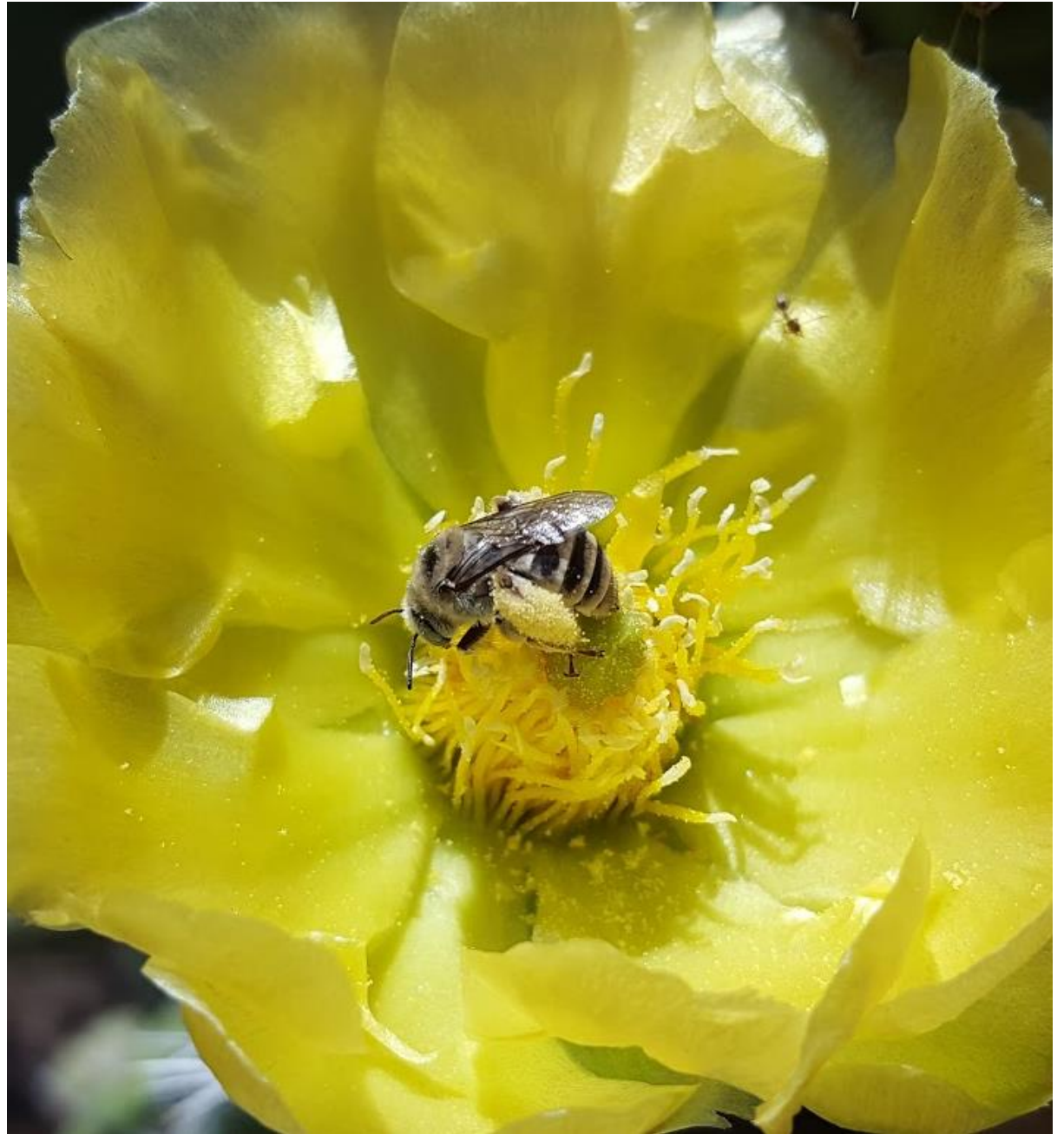
San Diego Thorn mint source: Flickr Commons by Alan Harper



Willow monardella source: Flickr Commons by John Rusk



source: Flickr Commons by Joe Decruyenaere





by Pacific Southwest Region USFWS



Source: wikipedia Michael W. Klein Sr.



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Joyce Gross



Joyce Gross

Birds Are Vanishing From North America

The number of birds in the United States and Canada has declined by 3 billion, or 29 percent, over the past half-century, scientists find.



Why care about protecting SD biodiversity?

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Native California medicinal plant may hold promise for treating Alzheimer's

Salk scientists identify possible healing compound in Yerba santa



🕒 AUGUST 7, 2018

Invasive crayfish lead to more mosquitoes and risk of disease in Southern California

by University of California, Los Angeles

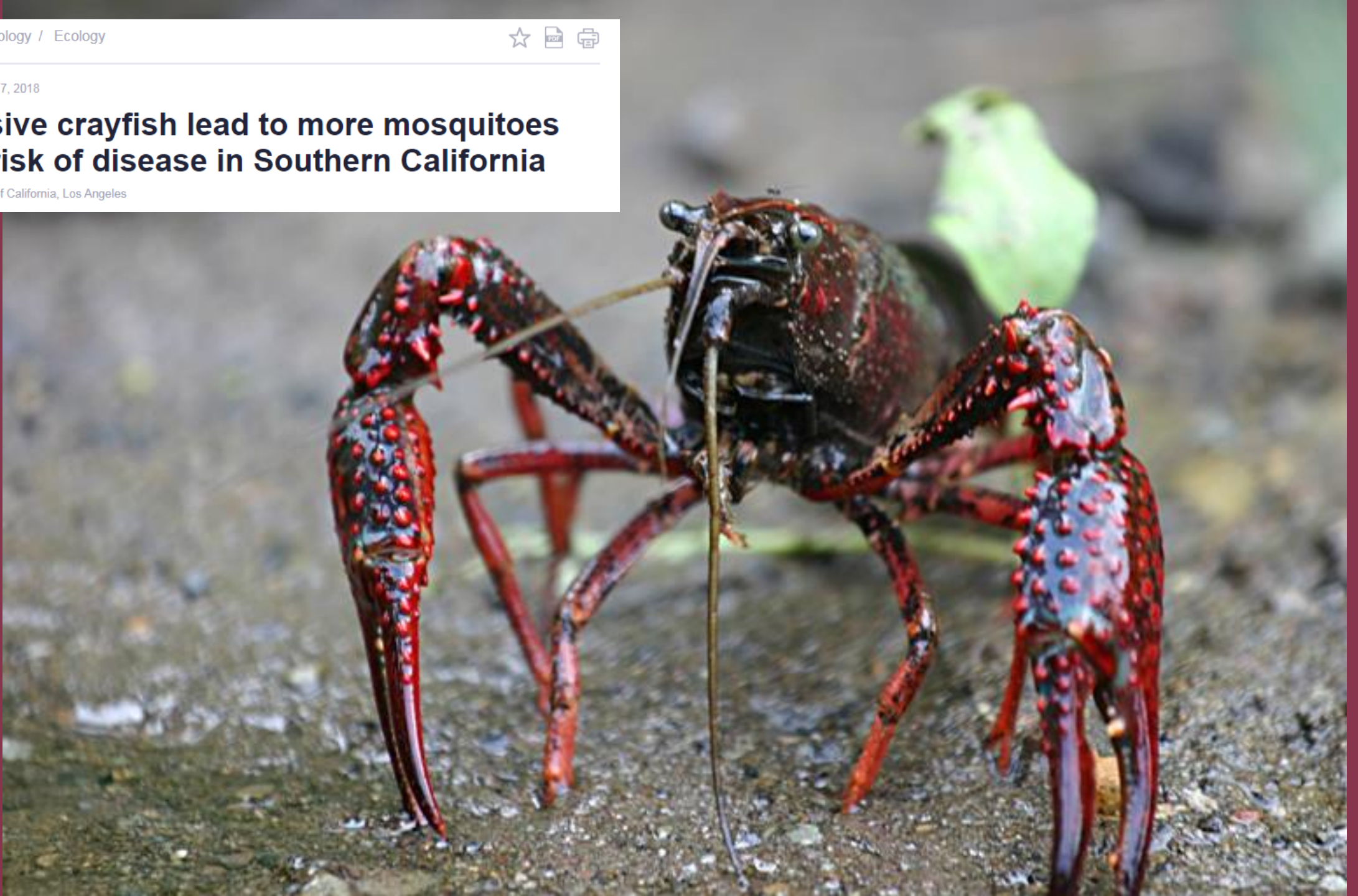


FIGURE 2 Farmers pollinating apple flowers in Feng Mao village. (Photo by Uma Partap)



Mountain Research and Development (MRD)

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MountainResearch
Systems knowledge

The Human Pollinators of Fruit Crops in Maoxian County, Sichuan, China

A Case Study of the Failure of Pollination Services and Farmers' Adaptation Strategies

Uma Partap^{1*} and Tang Ya²

The Economic Value of Ecological Services Provided by Insects

JOHN E. LOSEY AND MACE VAUGHAN

“We estimate the annual value of these ecological services provided in the United States to be at least \$57 billion, an amount that justifies greater investment in the conservation of these services.”

~ BioScience (2006)

