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Acknowledgements







Goals of Today's Presentation

Understand definition of "keystone" species



Provide natural history of CA Ground Squirrels

How we assess and protect biodiversity

• Discuss variety of attitudes and options for control

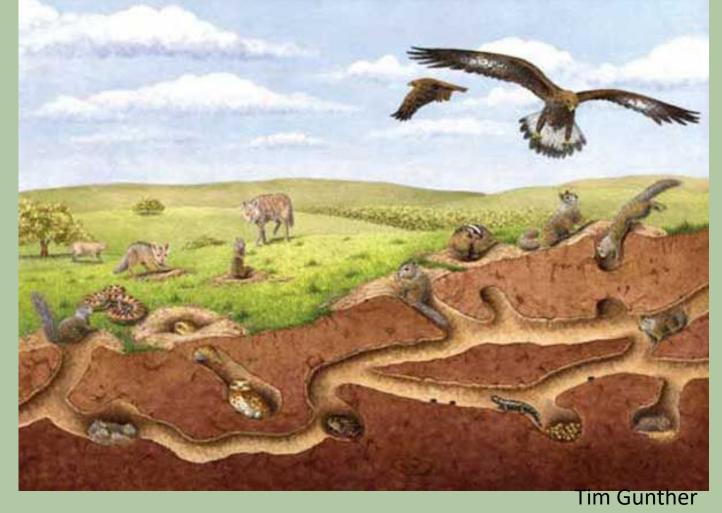
"preserve a rich heritage of natural and cultural resources"

-EBRPD Mission Statement, Master Plan 2013



What is a KEYSTONE SPECIES and why a GROUND SQUIRREL?

- Disproportionately large effect on natural environment relative to abundance
- Maintains structure of an ecological community





Species that Rely on Ground Squirrels for Food



Red-tailed Hawk



Badger Bobcat



Golden Eagle





Species that Rely on Ground Squirrels for Habitat







BURROWS

- Multiple entrances
- Chambers
- 6 feet deep, 35 feet long
- Satellite burrows

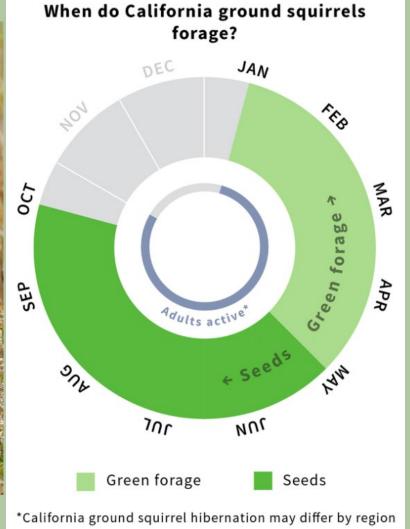




California Ground Squirrel

Otospermophilis beecheyi

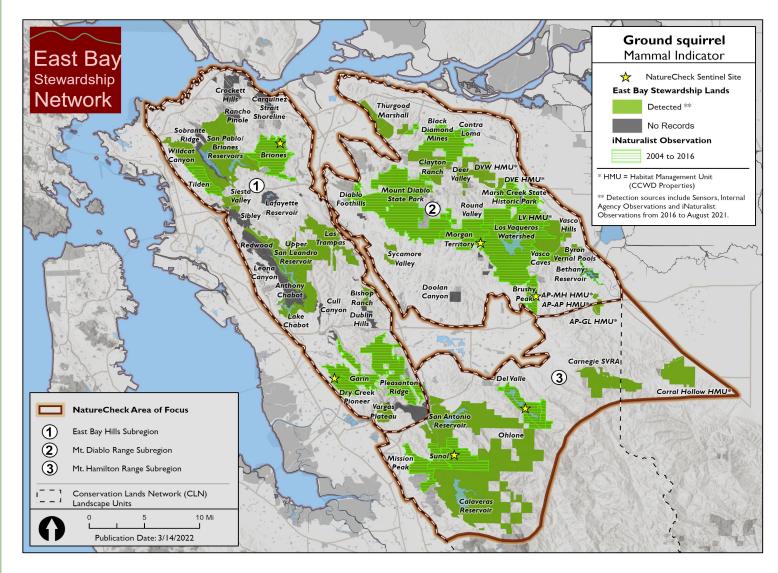






East Bay & Regional Park District

Where are they Found-GRASSLANDS

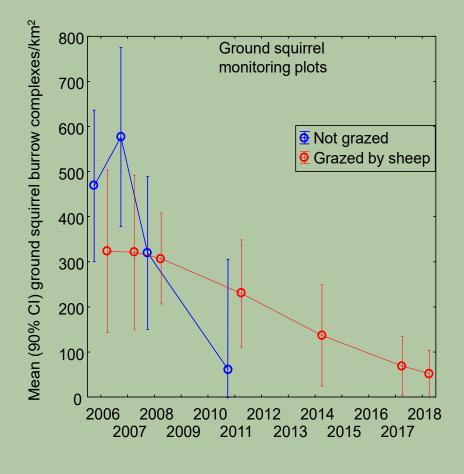


Where we WANT Ground Squirrels

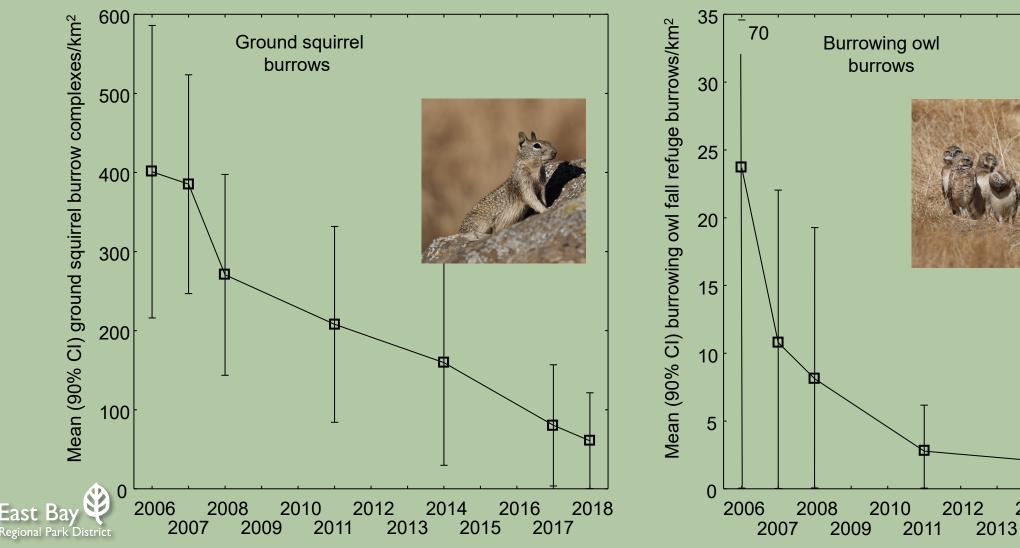


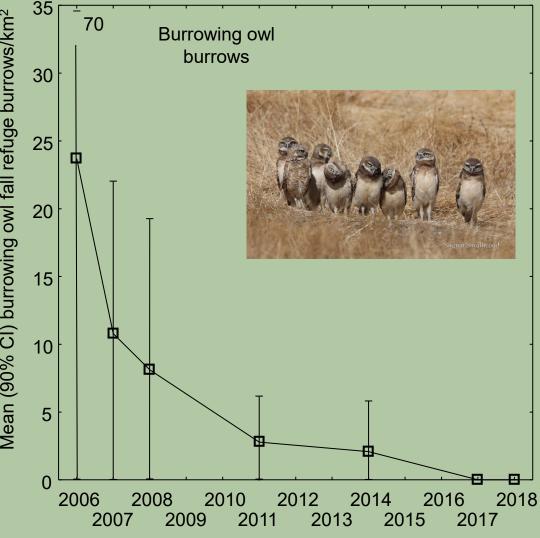
Vasco Caves - 2006 - 2018









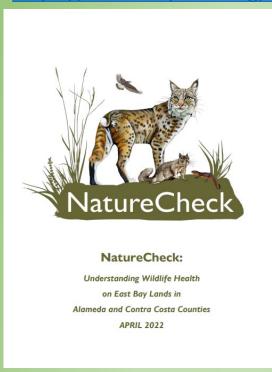


Measuring Health of Environment - Ground Squirrels as Indicator

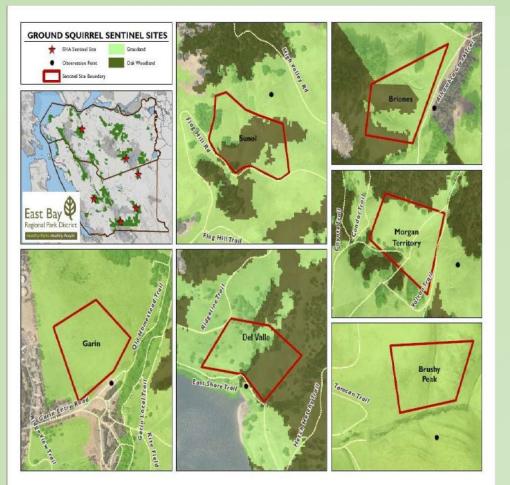
2022 - Ground Squirrels as Indicator

2021 - 2024 Assessed Sentinel Sites

https://www.ebparks.org/natural-resources/naturecheck









250





200 maximum counts 2021 2022 2023 50 **Brushy Peak** Del Valle Morgan Sunol Garin Briones Territory

210

Figure 2: Maximum counts for ground squirrels at each sentinel site for 2021, 2022, and 2023

Max counts: 2021_2023



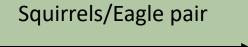






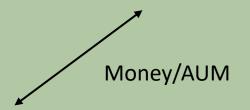














Controlling Squirrels where they are NOT wanted

Squirrels create infrastructure damage on levees, shorelines and irrigated turf areas

Staff time spent on addressing damage and control





Limited Control Options



- NEVER control squirrels in Wildlands
- Capture and Relocation is PROHIBITED*
- State restrictions on rodenticides
- Avoid impacts to other species
- Emphasis on Exclusion
- Understand Irrigated turf will attract squirrels

Capture and Relocation?



Translocation Model for the California Ground Squirrel (Otospermophilus beecheyi) to Facilitate California Grassland Ecosystem Recovery



Prepared by:

Debra M. Shier, J.P. Montagne, Sarah M. Hennessy, Colleen Wisinski, Lisa A. Nordstrom

and Ronald R. Swaisgood

March 2016

Capture and Relocation is PROHIBITED*

*(for the most part)

Illegal to relocate ground squirrels in California without a permit from the California Department of Fish and Wildlife

Other control methods are needed



Education – External

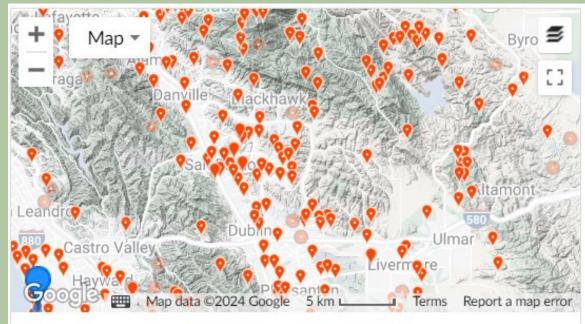




Do not feed wildlife

What YOU can do





California Ground Squirrel Census · iNaturalist

Use iNat to document Burrows and Squirrels in Parks

Adopt a New Attitude?





Thank You!

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California Ground Squirrels - a Keystone Species in

our Wildlands

Central Coast Rangeland Coalition April 17, 2025

