

Is this DDT All Over Again?

Allen Fish

Golden Gate Raptor
Observatory

RaptorsAreTheSolution.org

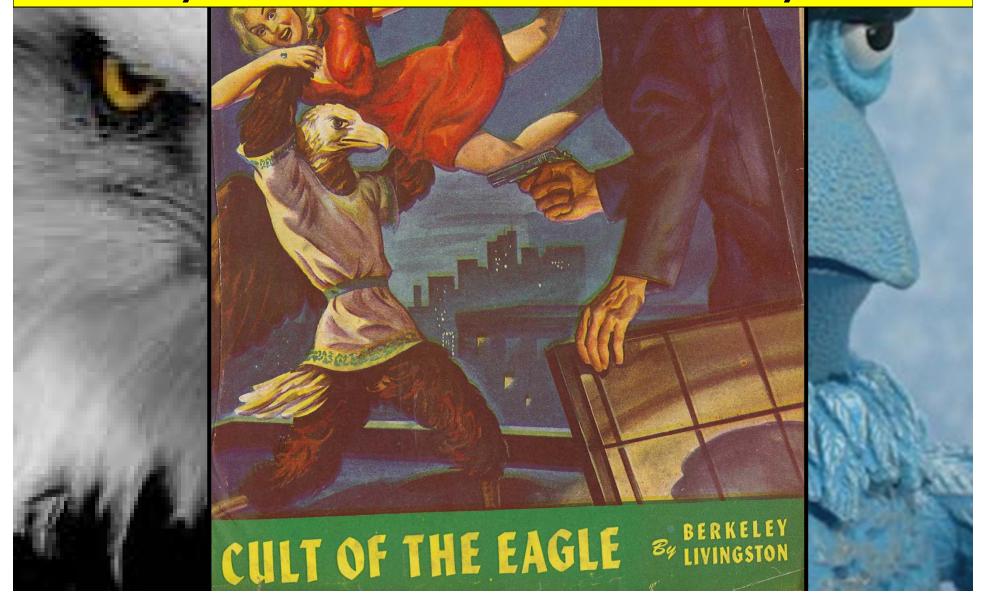
GGRO is part of the Golden Gate National Parks Conservancy in cooperation with the National Park Service.





Raptors are STRONG!

Could popular RAPTOR images cloud our ability to see how vulnerable they are?



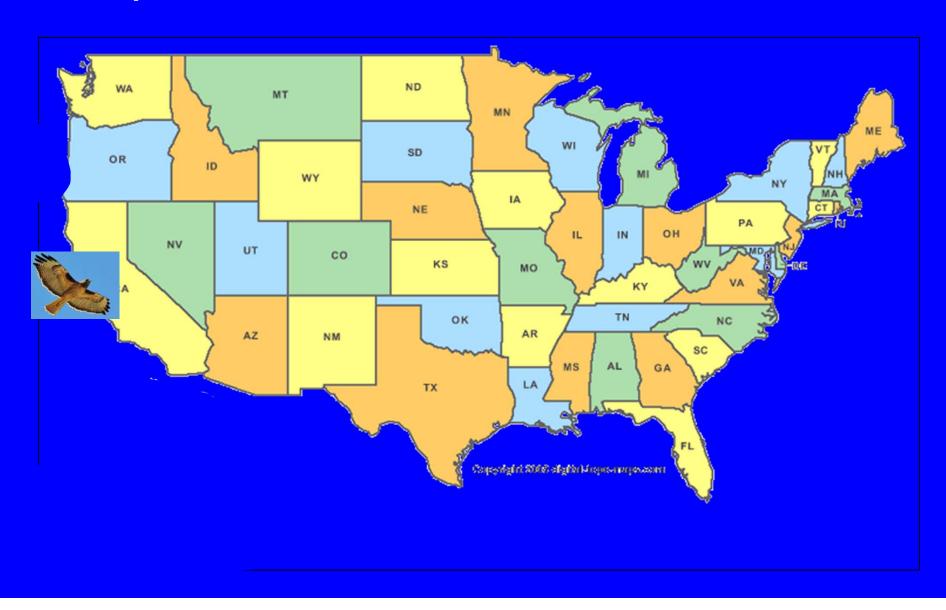


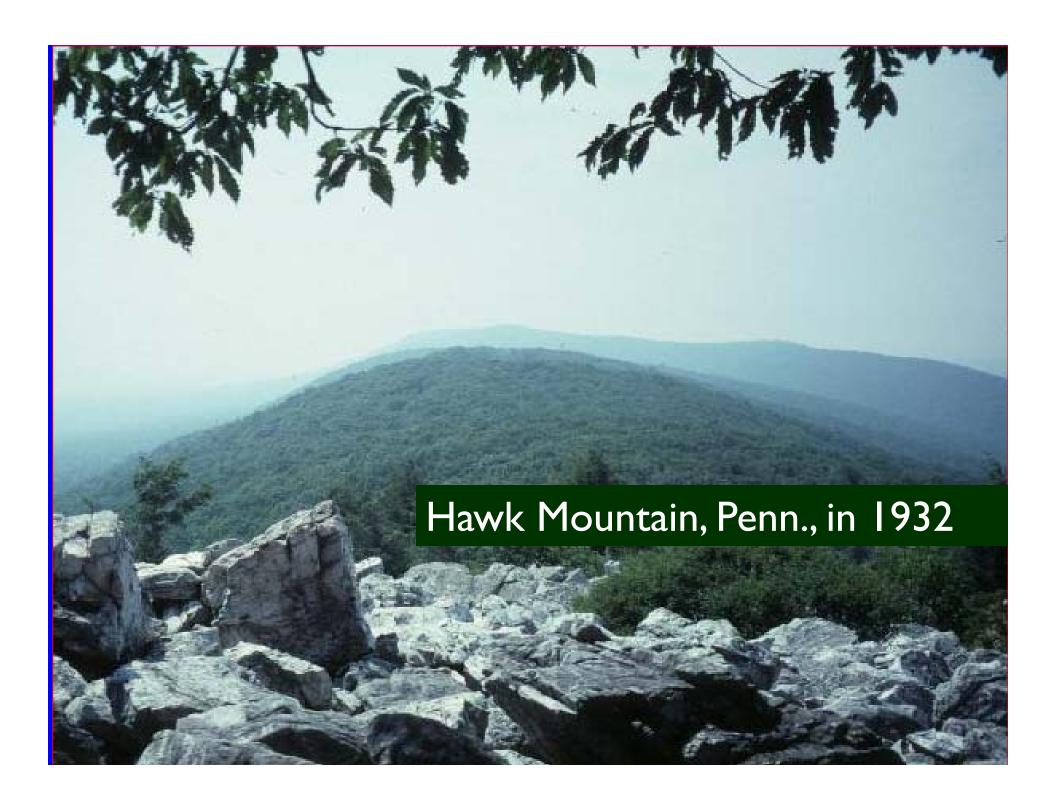
For many raptors, first-year mortality is 50 to 70%.

WHAT kills raptors in California: diseases, collisions, electrocutions, poisons, window-kills, road-kills, wind turbines, guns, habitat loss, climate?

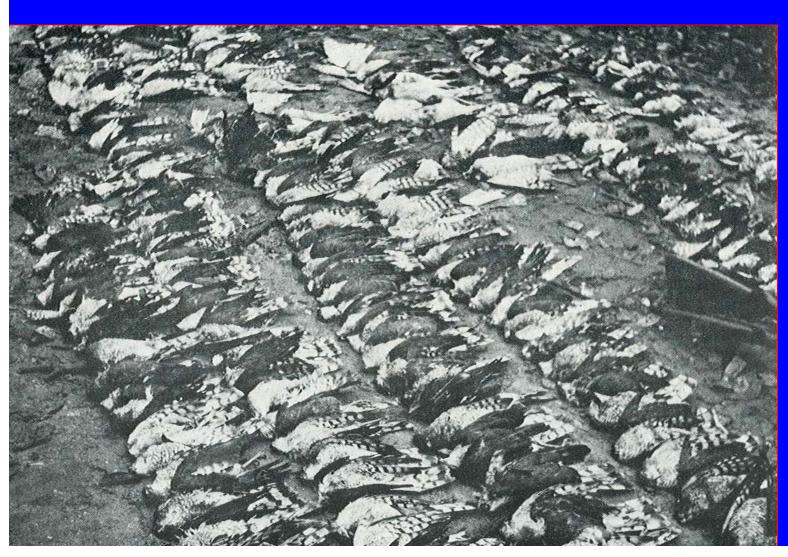


Modern raptor conservation biology starts in Pennsylvania in 1933...





1933 – Richard Pough & Henry Collins photograph the Hawk Mountain slaughter – show photos at NYC Audubon



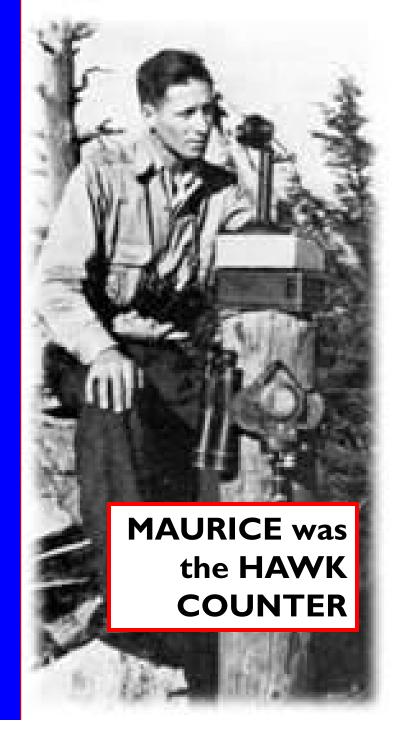
1934 -- A FURIOUS
Rosalie Edge buys
Hawk Mountain.

Just \$2.50 per acre...





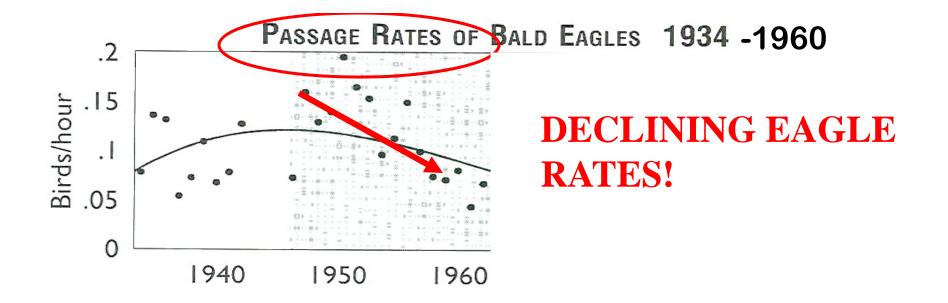
1934 – Edge hires the Brouns



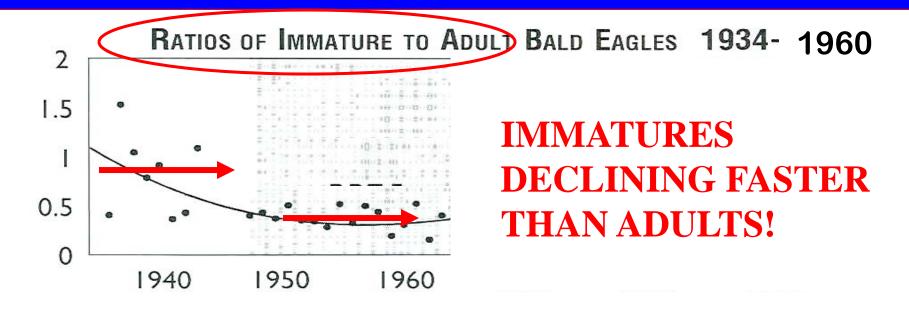


Among them, marine-biologist, science-journalist, nature-writer Rachel Carson.

Who asked Maurice
Broun about his
hawk count data...



...and finds some interesting patterns...



1962 -- CARSON makes case that DDT STOPS birds from breeding.



SILENT SPRING wins a Pulitzer & 5 years later:

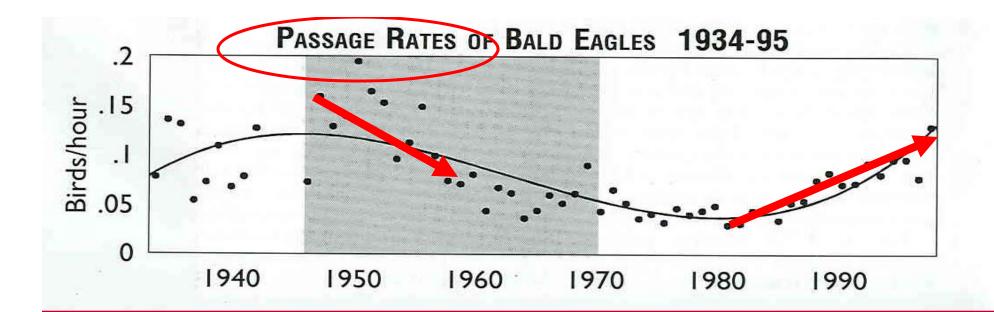
questions our attempt to control the 1967— British tural world about us biochemists show that **DDT** binds up CALCIUM...

And Rachel Carson becomes a stamp!

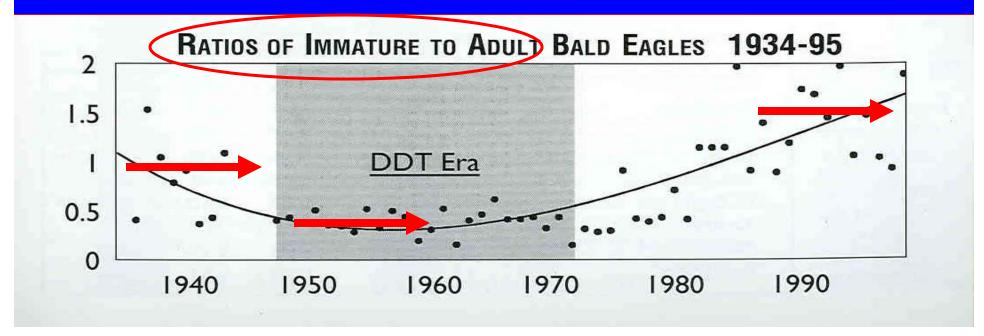
Was this start of the modern environmental movement? Possibly.

At minimum, a critical tipping point.





And Bald Eagles bounced back at Hawk Mountain post-DDT.

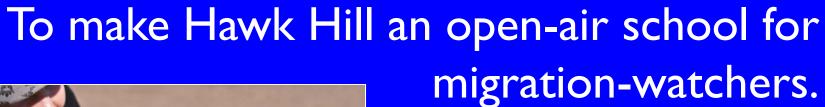




Raptor migrations can be critical population monitoring sites, with potentially far-reaching INFORMATION about broader environments.









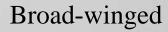


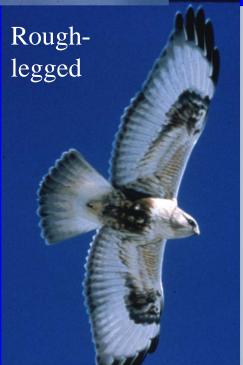


Buteos = SOARING HAWKS









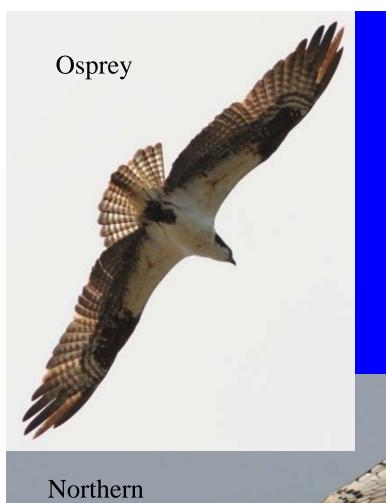






Falcons = falcons

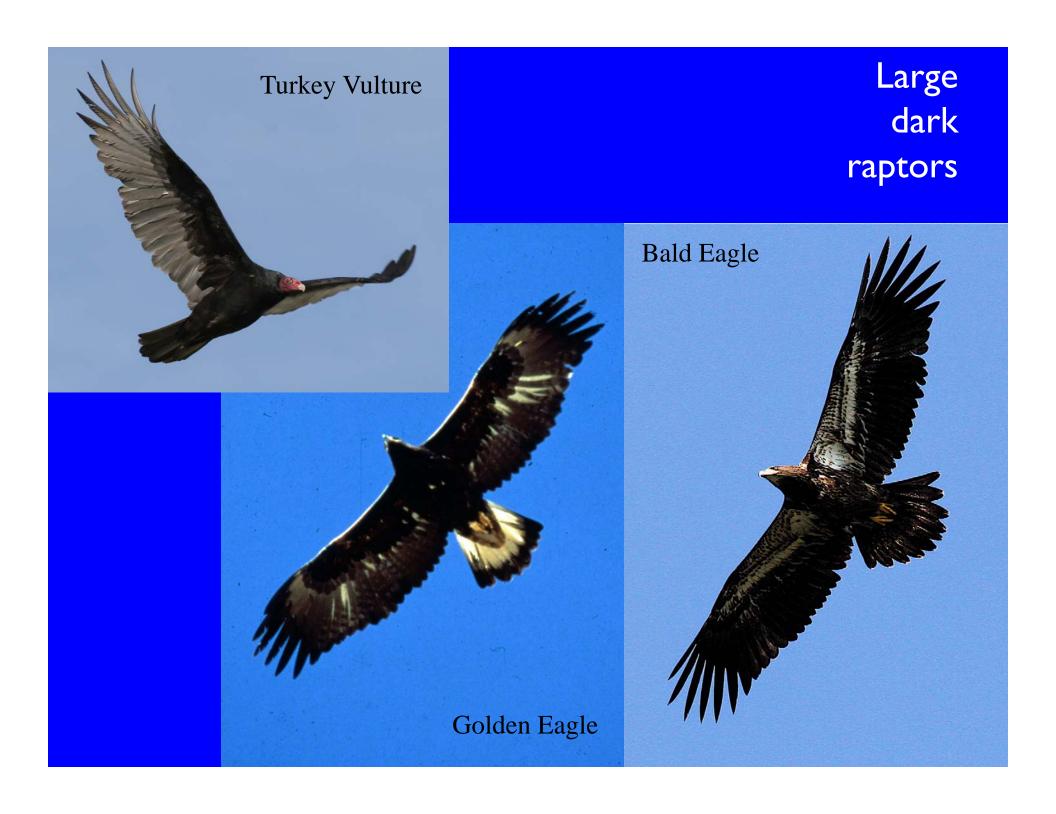




Misc. white-bellied or rumped raptors









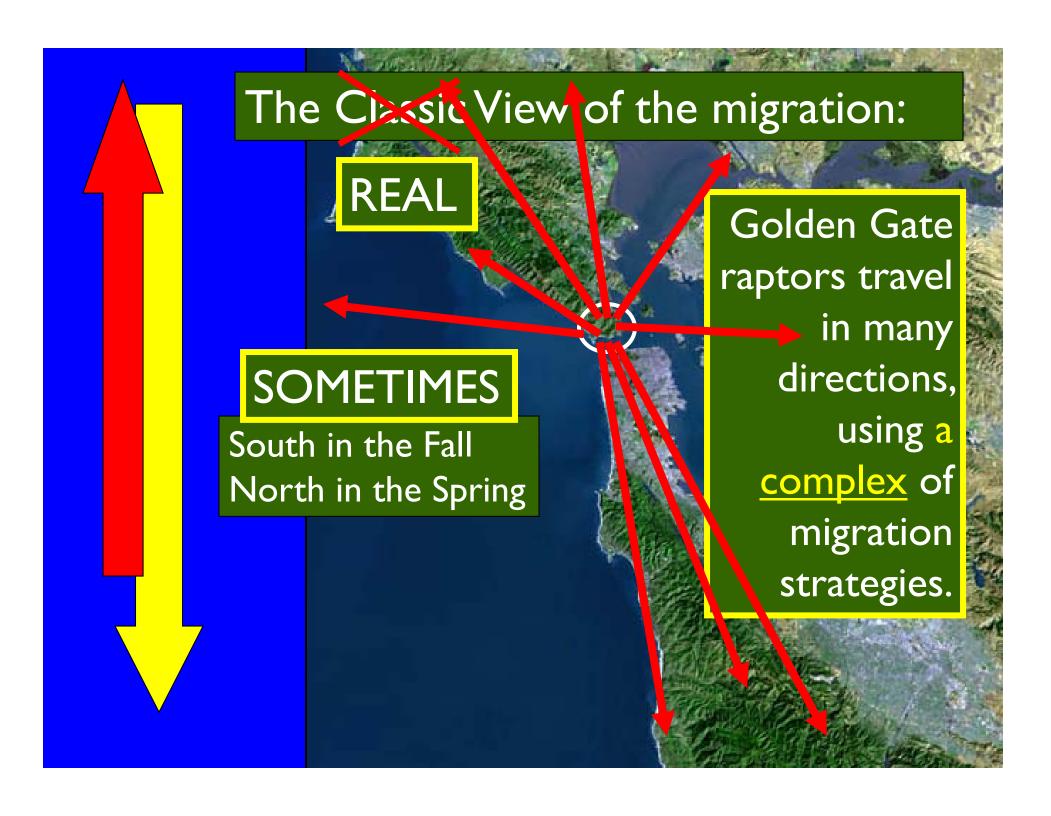
GGRO Research

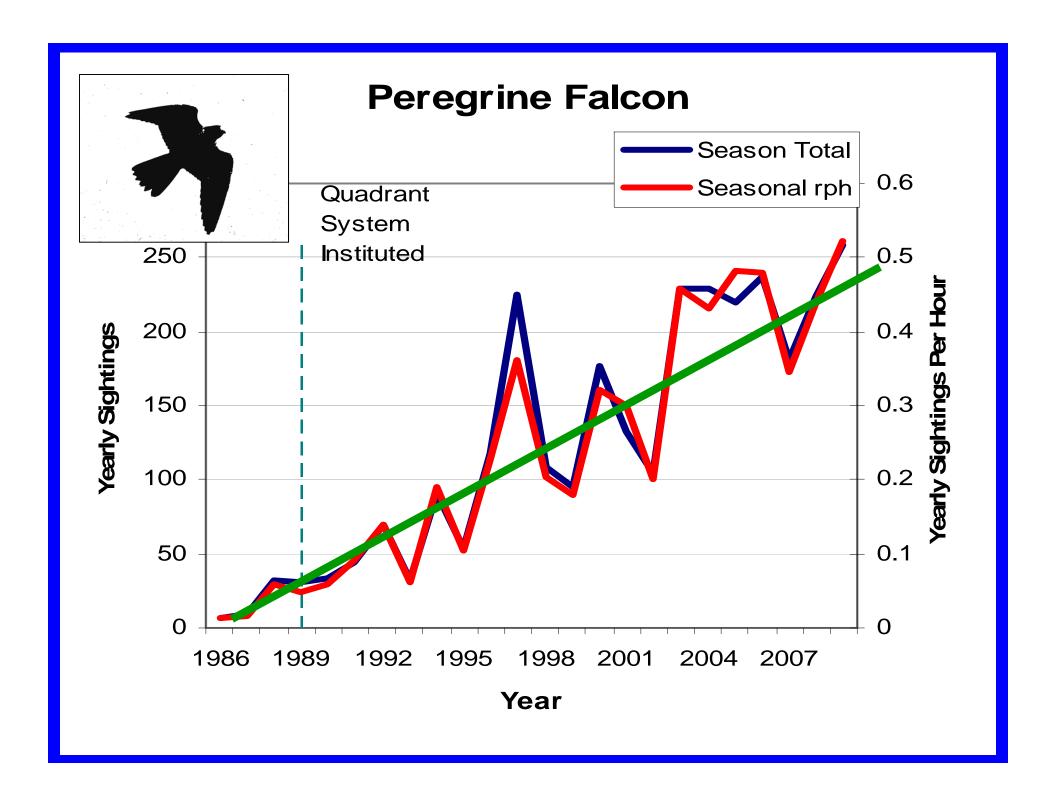


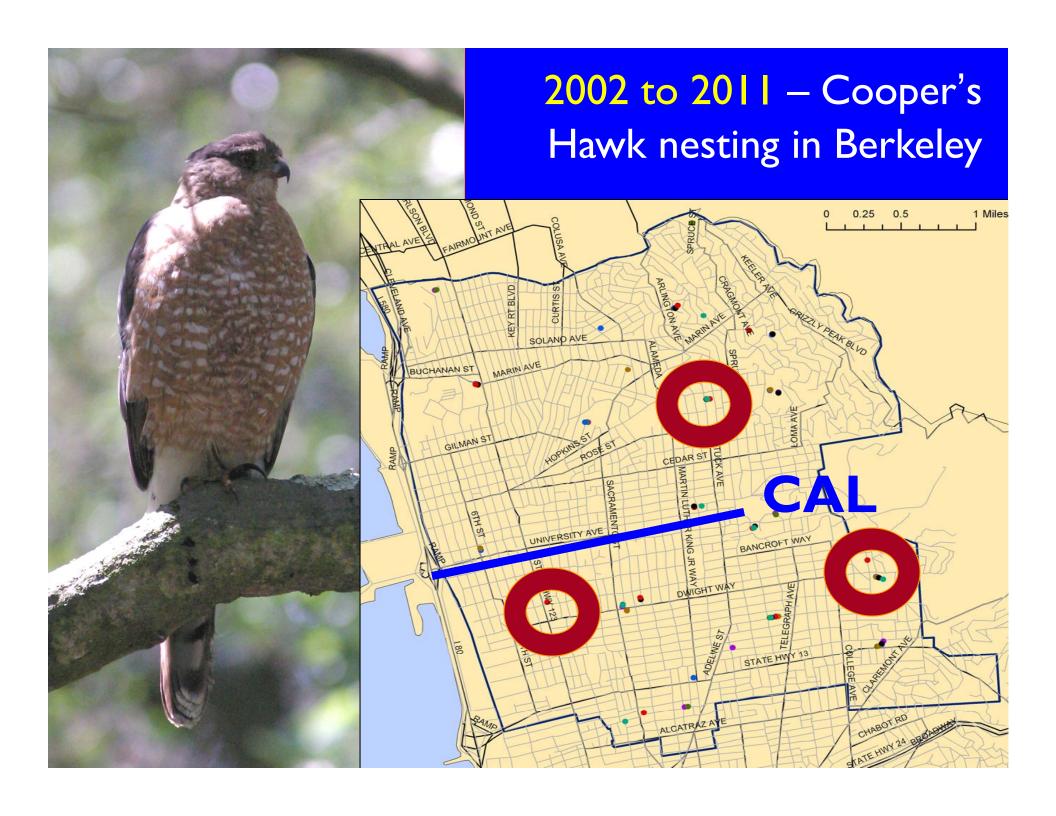












What SGAR companies tell you:



Second Generation Anticoagulant Rodenticides:

Brodifacoum, Bromadiolone, Difenacoum, Difethialone

What really happens:

- . Rat eats bait
- 2. Anticoagulant makes rat thirsty; starts to hemorrhage
- 3. Weak rat seeks water
- 4. Easy target for predator



Poison companies say:

Indoor poison stays indoors.

Poison in bait stays in box.

Little chance for poison contact with pets & predators if used properly. Um, NO!



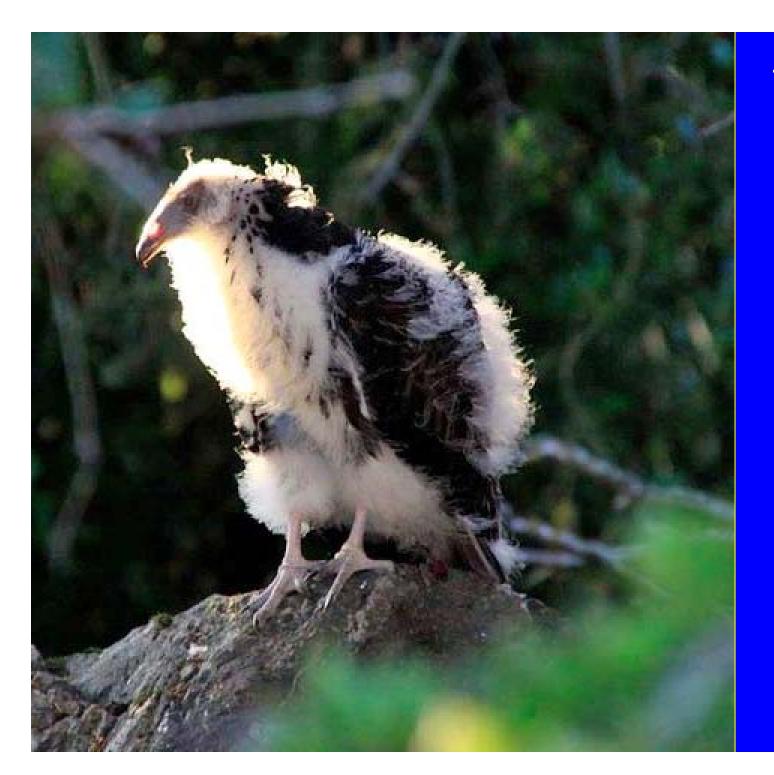
Basic SGAR numbers:

- 8 million lbs sold annually in CA
 (2/3 to homeowners)
- 500 dead wildlife tested since '95,
 75% SGARs in CA
- 3. Min. est. i ûK predators killed in CA
- 4. For US: annual pet poisonings in 10K's; children 17K/year





Red-shouldered Hawks



Turkey Vulture









May 2008 -- After 10 years of study, EPA issues Risk Mitigation Decision for AR rodenticides as they pose "significant risks to wildlife & the environment."

2011-2013 – EPA announces intent to cancel regs of 20 rodenticides.

2013 – Reckitt Benckiser (maker of d-CON) requests EPA hearing, expected to take 2+ years, refuses to take AR products off of store shelves.

2013 – California DPR proposes designation of SGARs as Restricted Materials, not sellable to home-owners.







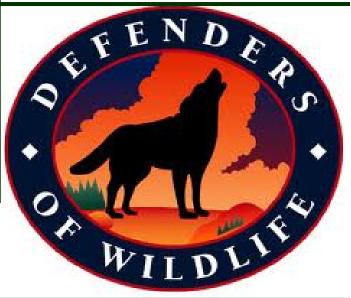


RD CY

Many players working on SGARs.



care



One of RATS' first projects

I like my meals poison free.



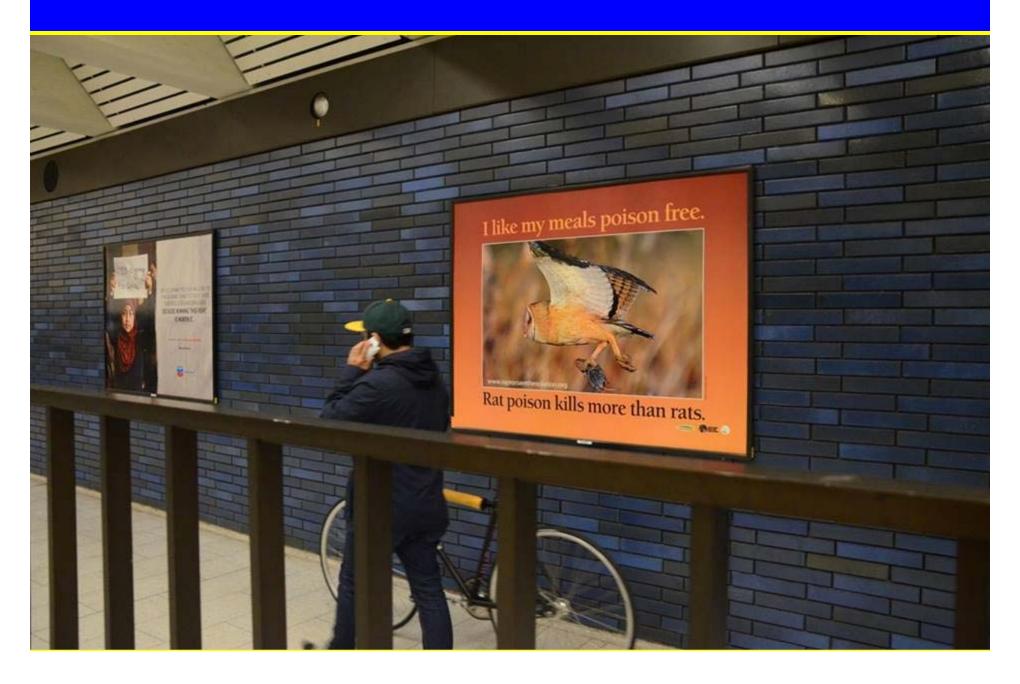
Rat poison kills more than rats.



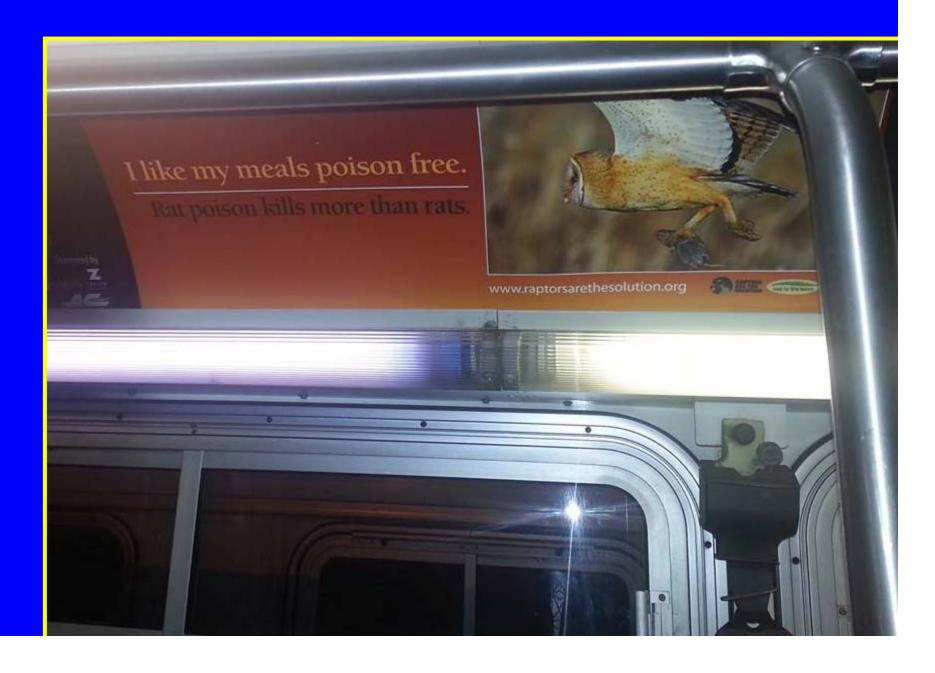


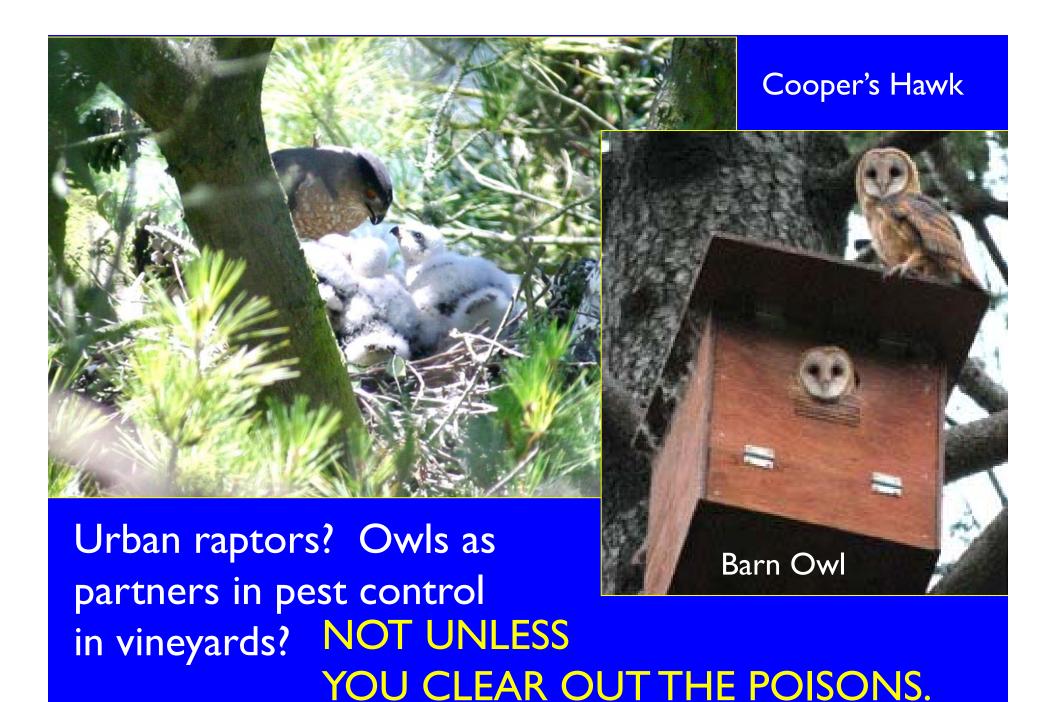


Oakland's MacArthur BART Station



Inside Bay Area's AC Transit buses





Produced
poster series to
discourage rat
poison use in
raptor nesting
territories.

COOPER'S HAWKS NESTING IN THIS AREA!



Photo

Please do not use rat poison.



Thank you for protecting our shared environment.

www.raptorsarethesolution.org

Promoting City-County resolutions discouraging sale of SGARs

RESOLUTION NO. 2011-60

A RESOLUTION OF THE ALBANY CITY COUNCIL OPPOSING THE SALE AND PURCHASE OF RAT AND MOUSE POISONS DEEMED AN UNREASONABLE RISK TO CHILDREN, PETS AND WILDLIFE

Produced BOYCOTT card for Reckitt Benckiser products & petitioned Good

Housekeeping



Lysol Woolite Clearasil Mucinex Easy-Off Finish French's Mop & Glo Dr. Scholls

Cling-Free Glass Plus Sani Flush Brasso Wizard Calgon Air Wick Durex Tiger's Milk







Produced claymation video with rising star teenager from Kentucky, lan Timothy.



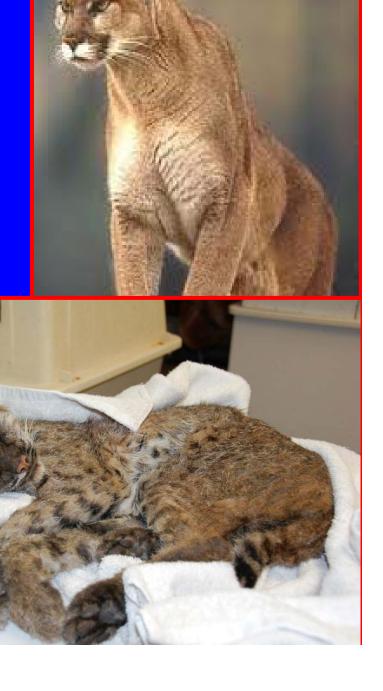
2007 – Seth Riley, NPS, studies 39 bobcats & 4 pumas found near Santa Monica Mts

90% bobcats had ARs

ALL pumas has ARs

Living bobcats with ARs had

mange



Kian Schulman, Malibu, buys all the rat poisons at her local gardening store if they go SGAR-free.



July 2012

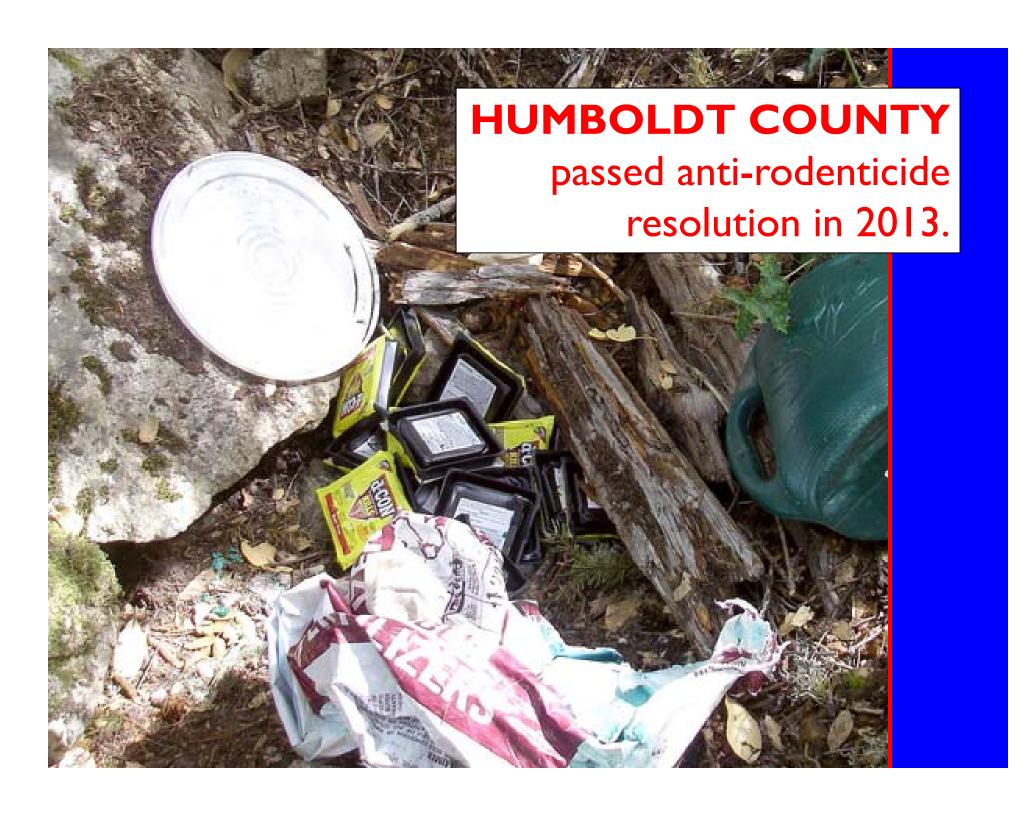


Anticoagulant Rodenticides on our Public and Community Lands: Spatial Distribution of Exposure and Poisoning of a Rare Forest Carnivore

Mourad W. Gabriel 1,2*, Leslie W. Woods³, Robert Sean M. Matthews⁶, J. Mark Higley⁷, Stefan M. K Greta M. Wengert 1, Benjamin N. Sacks², Deana L

- Candidate T&E Spp. Calif.
- 46/58 positive SGARs
- ARs pass to kits via milk
- Source pot farms
- Collaboration of Integral Ecology Res Ctr, UCD, UCB, USFS, CAHFS, & Hoopa Tribal Council

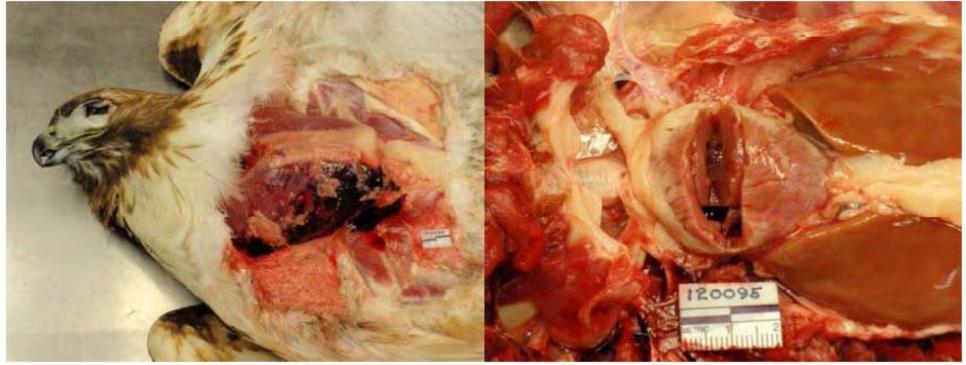




Summer 2012 – Pale Male's mate found dead in Central Park – necropsy showed 3 ARs in her liver.

About to lay Ist egg.





In three years, R.A.T. S. has:

- Built a coalition of anti-rodenticide interests
- Helped passed 14 city and 2 county resolutions
- Produced 2 PSA videos
- Innovative media
- Gained 501c3 status from Earth Island Institute



In the future, R.A.T. S. hopes to:

- Build a bank for cost of necropsies (\$120 per carcass)
- Help build a coalition of veterinarians
- More civic resolutions
- Press a chainstore to go NON-SGAR
- Work on alternatives
- Work on bait boxes
- Work on agriculture
- Support DPR/EPA





Far better: Wider interest. scientific evidence, environmental protection agencies & laws that didn't exist in 1962.

Far worse: EPA collecting evidence to halt homeowner access to SGARs for 10+ years, now expecting 2 years of legal wrangling with Reckitt Benckiser. Still need to get rid of bait-boxes, minimize agricultural and industrial SGAR use.



Thank you for time & remember to get outside and watch raptors!



Thanks to Siobhan Ruck, Buzz Hull, Greg Gothard, Jeff Poklan, Walter Kitundu, David Jesus, George Eade, Bill Schmoker, Ned Harris, Barb Samuelson, Joe Naudzunas, Tony Brake, Jenny Ross, & others for photographs.

