Methods

• Compile historic records
  – Museum specimens
  – Historic field notes
  – Sites within 1km proximity were aggregated

• Revisit historic sites (> 25 years old/before 1984), determine pika +/-
  – Survey protocol adapted from E. Beever, C. Ray, J. Perrine
  – “find ‘em, you’re done;” extensive searches if not found
  – Search radius = 1km
Time to Pika Occupancy Detection

_sign search time only, does not include time navigating between talus_

- Sweetwater Benson 06/04/1946
- Below Heather Lake
- Gilmore Lake
- Round Top
- Echo Peak
- Velma Lakes
- Pyramid Peak E
- Echo Lake
- Heather Lake
- Deadman Lake
- Angora Saddle
- Rubicon Peak E
- Crater Lake
- Mt Tellus
- Ward Peak E
- Donner East
- Eagle Falls
- Mouth of Sweetwater
- Pacific Grade Summit
- Donner West

Sign Search Time (person-minutes)
Beyond DFG Region 2

• Additional data from literature and personal communication.
• Variable spatial precision
• Variable survey protocol
• Data available at time of presentation
Four Historic Records, 1915

“Conies were heard bleating at lower end of Glen Aulin in a rock-slide alt. 7700 ft” W. P. Taylor, p. 2448
“mammals heard & seen: Cony, 1 (heard in rock slide at about 7650 ft)” [T. I. Storer, p. 602]
“On the SE side of McGee Lake I heard a cony ‘barking’ from the rock-slide” Storer, p. 604
“in the rockslides which lie at the base of the canyon wall I found feces of marmot, woodrat, and cony. I also heard the call of the latter animal in two different places, but after ‘roosting’ on the rock piles for over an hour saw nothing of them:” Storer, p. 608

Revisited:
003 - J.L. Patton
006 - E. Rubidge
008 - W. Hoffmann
Is There a Pattern: Size of “Habitat Island” vs Persistence?

Talus Area in 1km Search Radius (Square Meters- Log Scale)

Extirpated Localities
Extant Localities

- Pyramid Peak E
- Mt Tallac
- Gilmore Lake
- Below Heather Lake
- Angora Saddle
- Heather Lake
- Crater Lake
- Deadman Lake
- Ward Peak E
- Lucille Lake
- Flatiron Mtn
- Echo Lake
- Round Top
- Eagle Falls
- Rubicon Peak E
- Donner East
- Glen Aulin NW
- Bodie Southern Patch Network
- Glen Aulin, McGee Lake
- Velma Lakes
- Donner West
- Pacific Grade Summit
Limitations

- 1km search radius—could lead to false persistence
- Mapping talus habitat is an error prone process
- Historic records not random or stratified
  - Do not adequately sample lower elevation sites