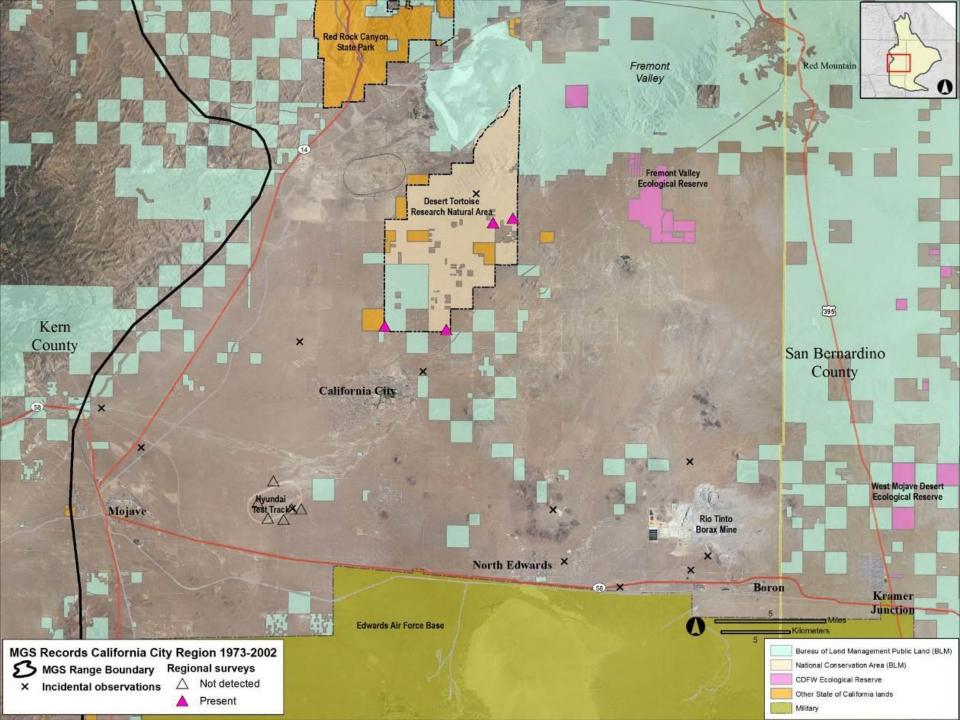
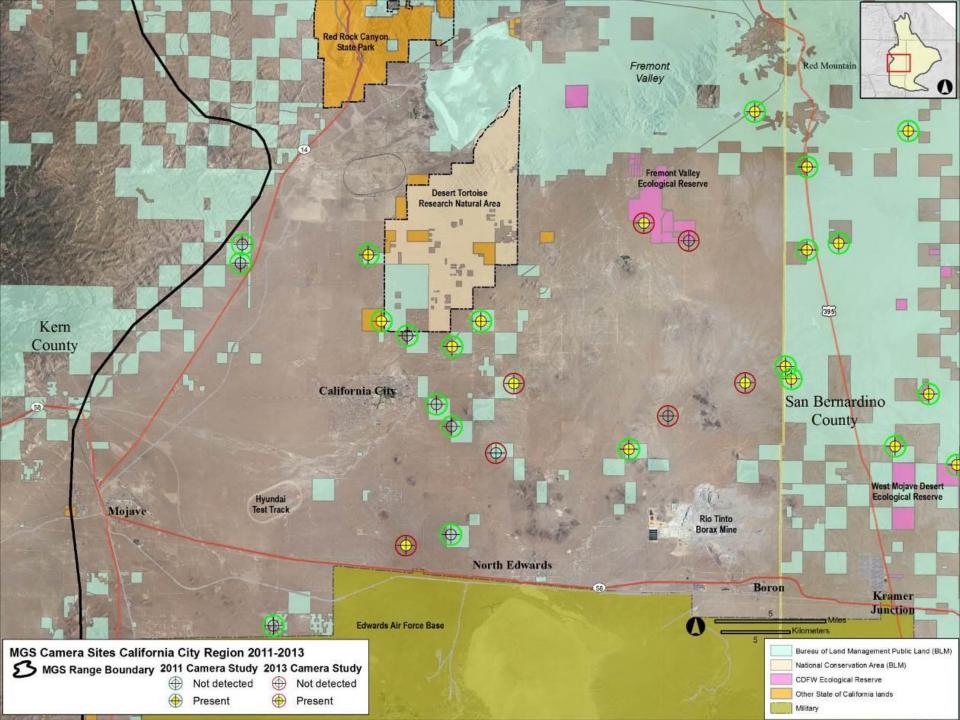
## 2014 Results

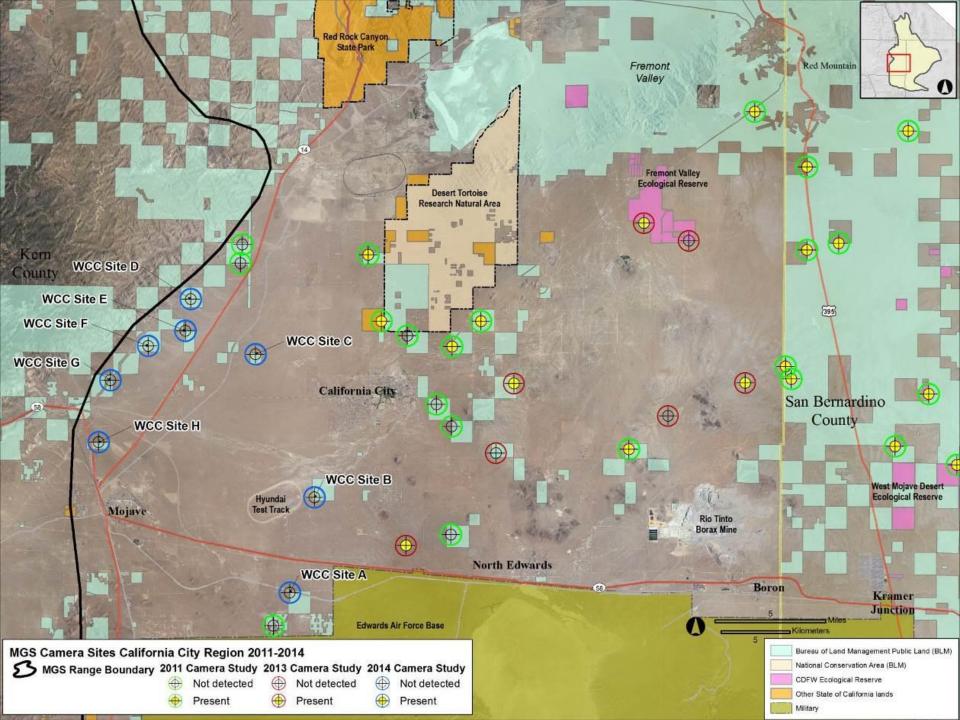
- Camera trapping west of Cal City
- Coso monitoring
- Data on MGS reproduction
- Genetics at MGS-RTGS contact zone around Hinkley

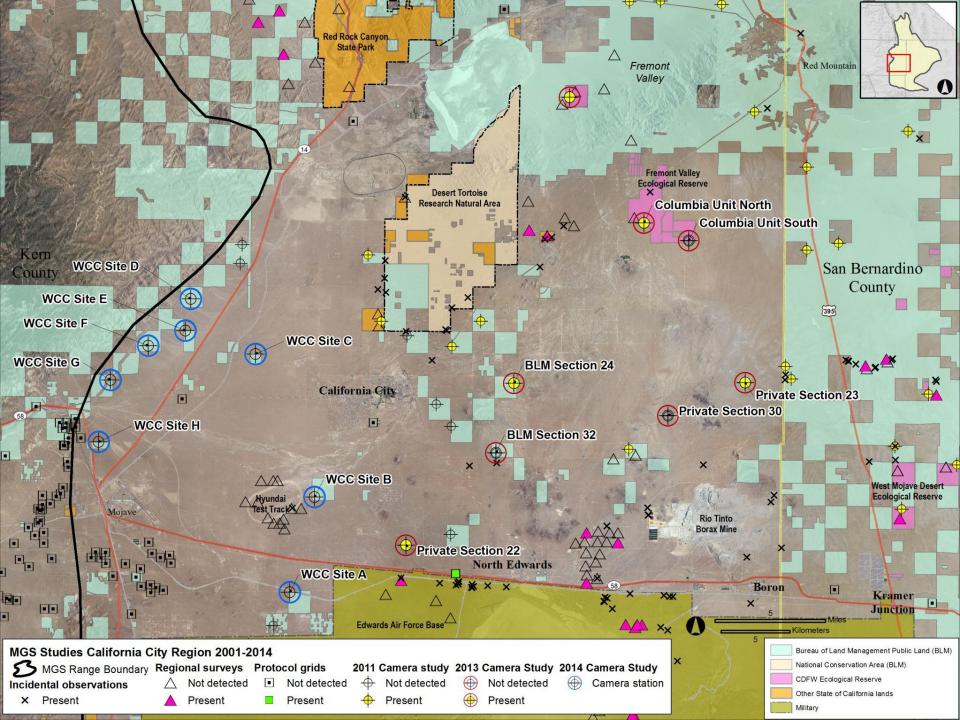
## 2014 Camera Study

- MGS survey between Cal City and Mojave
- Limited access-area is mostly private land
- Prior MGS records-3 visuals 1985-1998 and 1 trapped 2002
- Dave Delaney and I picked 8 sites on BLM land
- Cameras deployed 2x at each site-March and May



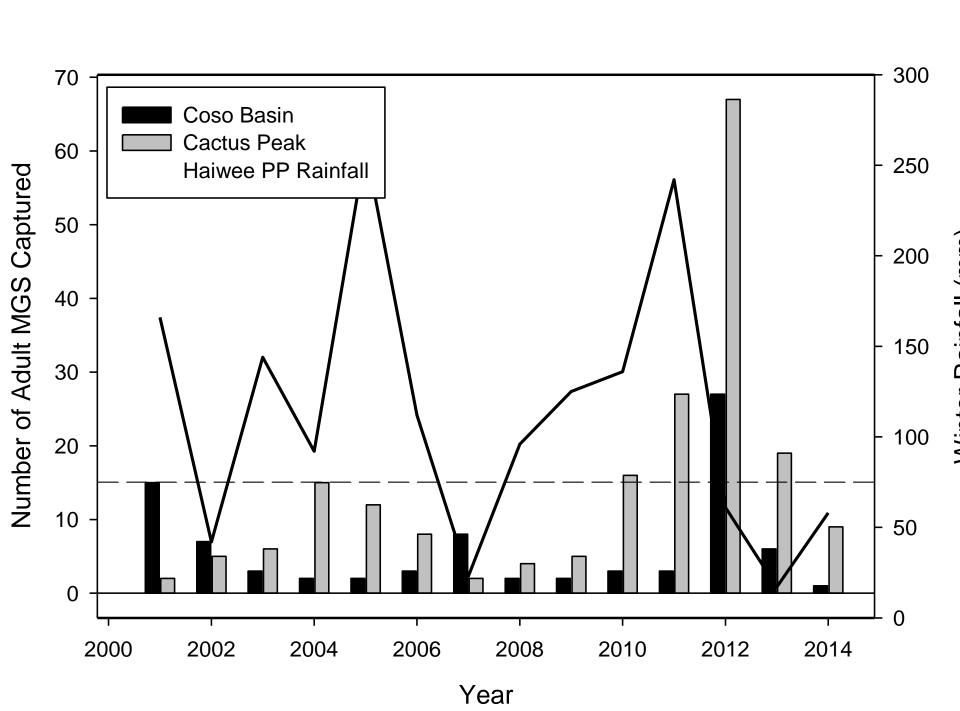


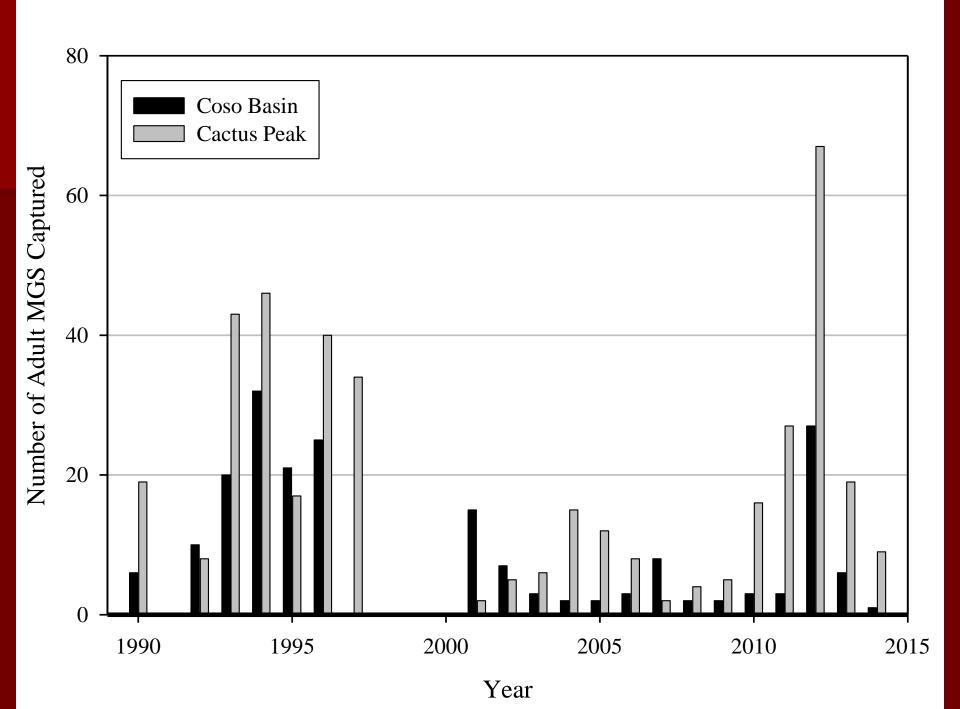




## Coso Monitoring 2014

- Trapping Mar. 24-29 at 2 Coso sites
- Many volunteers helped to make it a success once again
- After 4 yrs of good rainfall, MGS adult numbers were highest in 2012 (27 and 67)
- Then no reproduction in 2012 and 2013
- I predicted 3 and 6 adult MGS at 2 sites in 2014





# What about MGS reproduction?

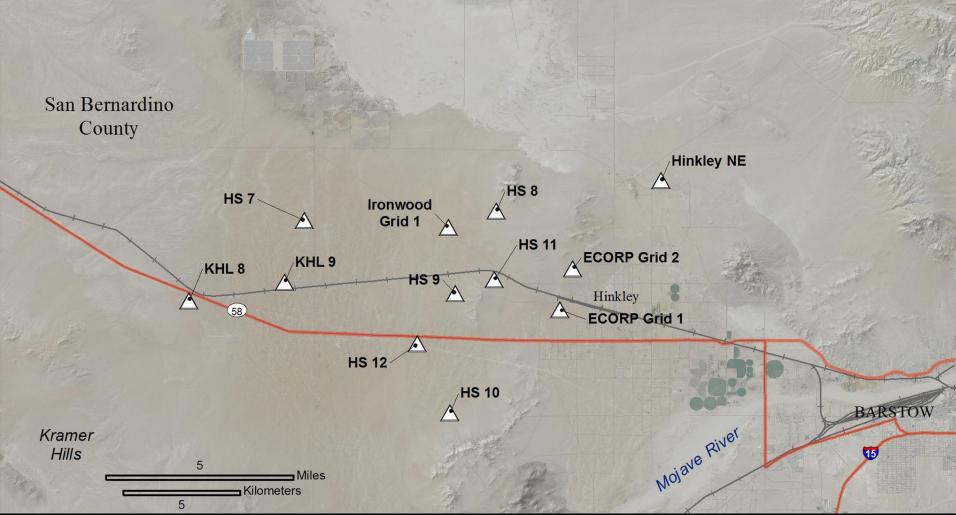
- About 3 inches of winter rain needed for reproduction
- At Coso, ~2 inches and no reproduction
- Further south, juveniles were documented at 4 different sites
- South of Cal City, Phacelia Park, Harper Lake Road, and Ft. Irwin WEA
- Late rains 3.68 inches at Lancaster



## MGS-RTGS Interactions

- Desert area west of Hinkley toward
   Kramer Junction is possible contact zone
- Volunteer trapping in 2013 and 2014 at 12 grids here
- Tissue samples taken for genetic analysis from 20 individuals
- Marjorie Matocq will report the results shortly

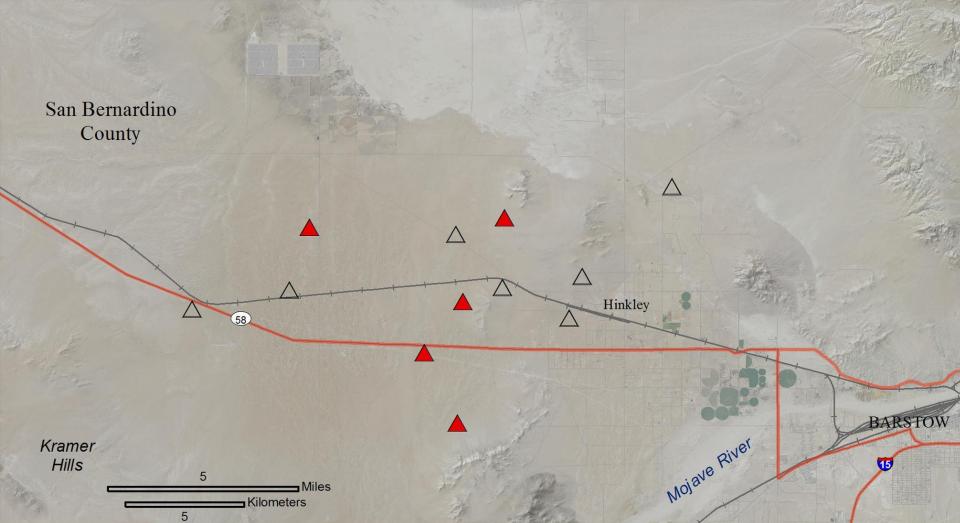




 $\triangle$  Regional survey grid







### Regional survey results

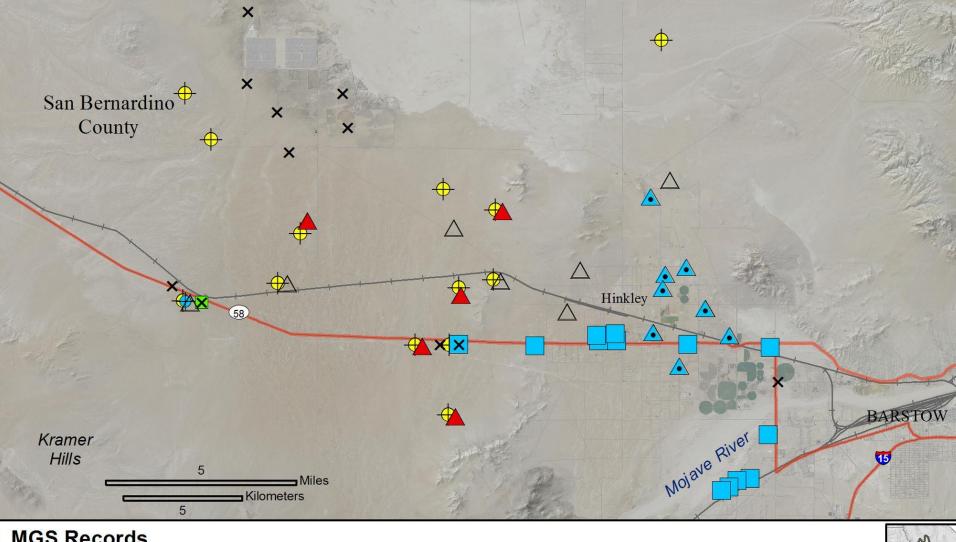


MGS present



MGS not detected





#### **MGS Records**

Incidental observations Regional surveys Protocol grids **Camera stations** 

- Not detected
- Not detected
- Not detected

**RTGS Records** 



Present



Present



Protocol RTGS present

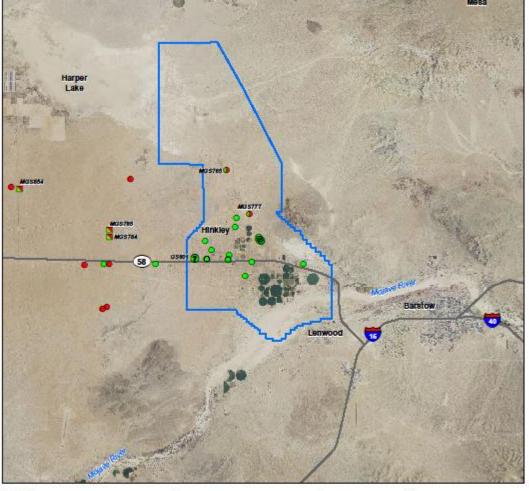


Regional surveys



Camera station





#### LEGEND

- MGS
- RTGS
- RTGS?
- F2 Hybrid
- Backcross MGS
- Project Study Area





FIGURE 5
GEOGRAPHIC DISTRIBUTION OF
MOHAVE GROUND SQUIRRELS,
ROUND-TAILED GROUND
SQUIRRELS, AND HYBRIDS IN
THE HINKLEY AREA BASED
UPON GENETIC ANALYSIS
PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION
HINKLEY, CALIFORNIA