



412 TW



Edwards Air Force Base Mohave Ground Squirrel Camera Trapping Survey- Spring 2018

Mohave Ground Squirrel Technical Advisory Group Meeting 25 September 2018



Study Purpose



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- Assess the presence or absence of MGS at all locations within EAFB where MGS have been trapped in previous live-trap MGS studies.



Study Plot Locations



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26 locations where MGS previously trapped identified

- 2 locations (S10-09 and HQA-17S) combined into one Study Plot (HQA-17S)
- Total of 25 Study Plots surveyed in this study





Methods



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- Trail Camera Used:
 - Bushnell Trophy Cam High Definition (HD) Aggressor 20 Megapixel Low-Glow
- Bait Used:
 - Peanut butter bait stick
 - Seed mainly:
 - Purina Game Bird Block (20 lb.)
 - Seed also used:
 - Garden Treasure Bird Seed Block (21 lb.)
 - Arizona's Best Quail Seed Block (21 lb.)





Results



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- Photo review process ongoing
1.7M photos - 75% complete
- Observed MGS at 20 of 25 locations
- No juveniles observed
- Session 1: 11 Mar - 24 Apr 18
- Session 2: 25 Apr – 14 Jun 18

| | Session 1 | Session 2 |
|----------------|-----------|-----------|
| 1994-N02 | NO | YES |
| 1994-S01 | YES | NO |
| 1994-S07 | YES | YES |
| 1994-S09 | YES | YES |
| 1994-S10 | YES | YES |
| 1994-W06 | NO | NO |
| 2000-OB/OD | NO | NO |
| HQA-02 | YES | YES |
| HQA-10 | NO | NO |
| HQA-11 | YES | YES |
| HQA-17N | YES | YES |
| HQA-17S/S10-09 | YES | YES |
| HQA-25 | YES | YES |
| HQA-30 | YES | YES |
| HQA-31 | YES | YES |
| HQA-36 | NO | NO |
| HQA-37 | YES | YES |
| HQA-38 | YES | YES |
| HQA-41 | YES | YES |
| HQA-43 | NO | NO |
| HQA-46 | YES | YES |
| HQA-61 | YES | YES |
| S10-06 | YES | YES |
| S10-10 | YES | YES |
| S10-12 | YES | NO |



Interesting Observations



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- Possible RTGS?
 - At first we thought so
 - Dr. Leitner reviewed photos
 - He concluded not RTGS
 - Occurred at beginning of photo review process - demonstrates variance between individual MGS





Possible RTGS?



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Photos taken on same day - same location





Multiple MGS



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Predation



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Bushnell TROPHY CAM 60°F 15°C 05-25-2018 11:52:44



Bushnell TROPHY CAM 60°F 15°C 05-25-2018 11:53:44



Questions



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