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

- 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

412 TW

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

412 TW

- 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

- 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

- 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?

Photos taken on same day - same location

Multiple MGS

412 TW

Predation

412 TW

Questions

412 TW

Larry Zimmerman
Natural Resource Manager
661-277-1418
larry.zimmerman.3@us.af.mil

Misty Hailstone
Wildlife Biologist
661-275-2435
misty.hailstone.1@us.af.mil