



Creek Restoration



Was there a difference in wildlife appearance between the Restored and the Undisturbed portion of the creek at Canada de los Osos Ecological Reserve?



Hypothesis

H_0 = Wildlife frequented the restored section of creek at the same rate as the unrestored section of creek.

H_a = Wildlife did not frequent the restored section of creek at the same rate as the unrestored section of creek.

Restored part of the creek

Emily Sniper & Anna Thomasdotter





Method & Materials

10 motion-detecting cameras

Constant location along restored creek

March 19 to April 16 (four weeks)

Los Osos
Reserve

añada de los Os

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los Os

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Results restored creek

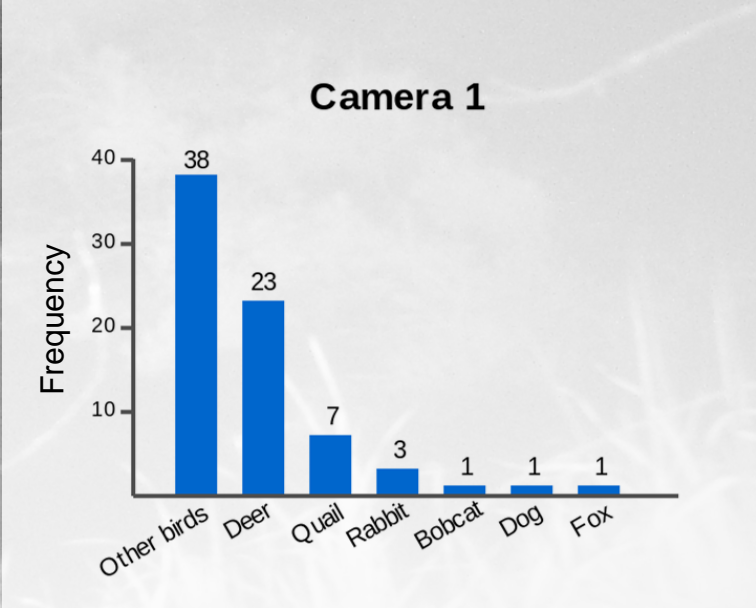
Few predators - mainly deer and birds

Large differences in number of visits

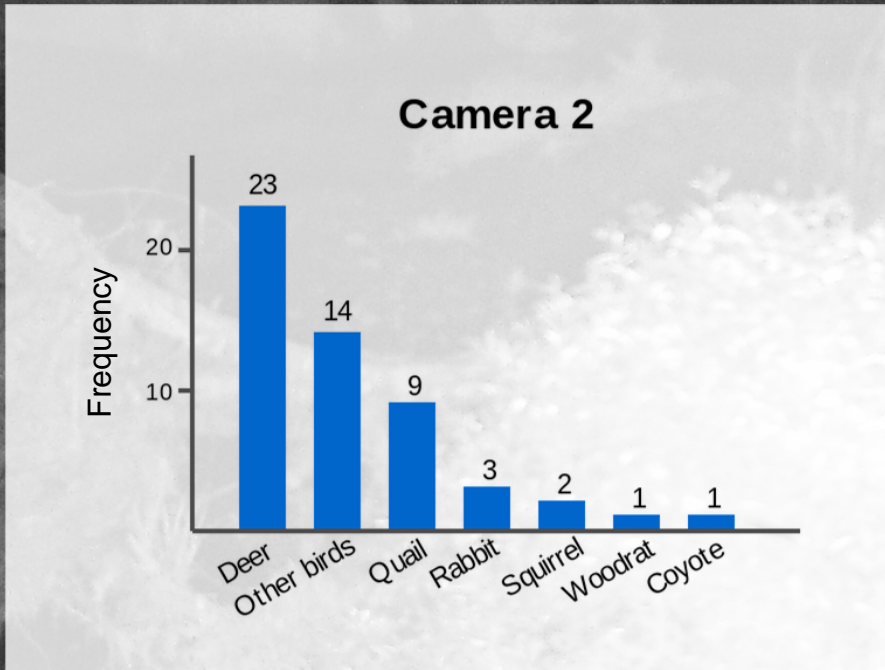
Most visits at northern cameras

Few visits at side creek, none at camera 6

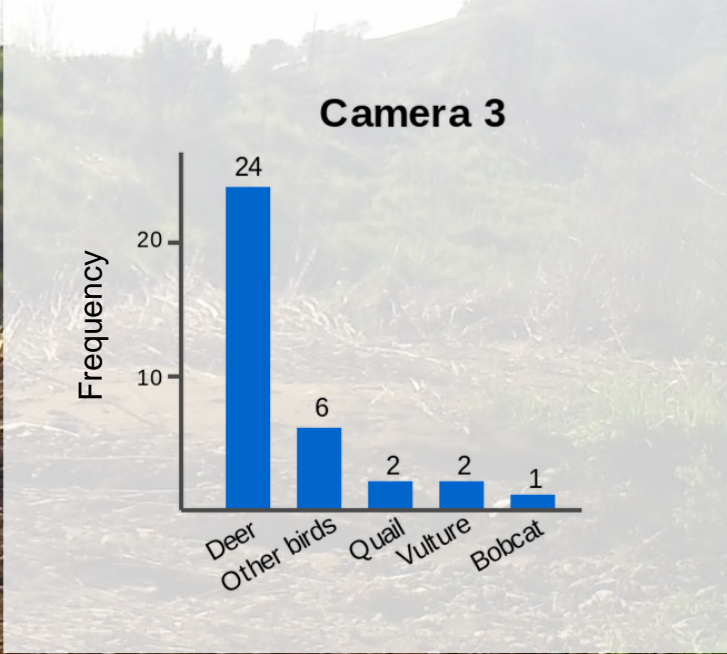
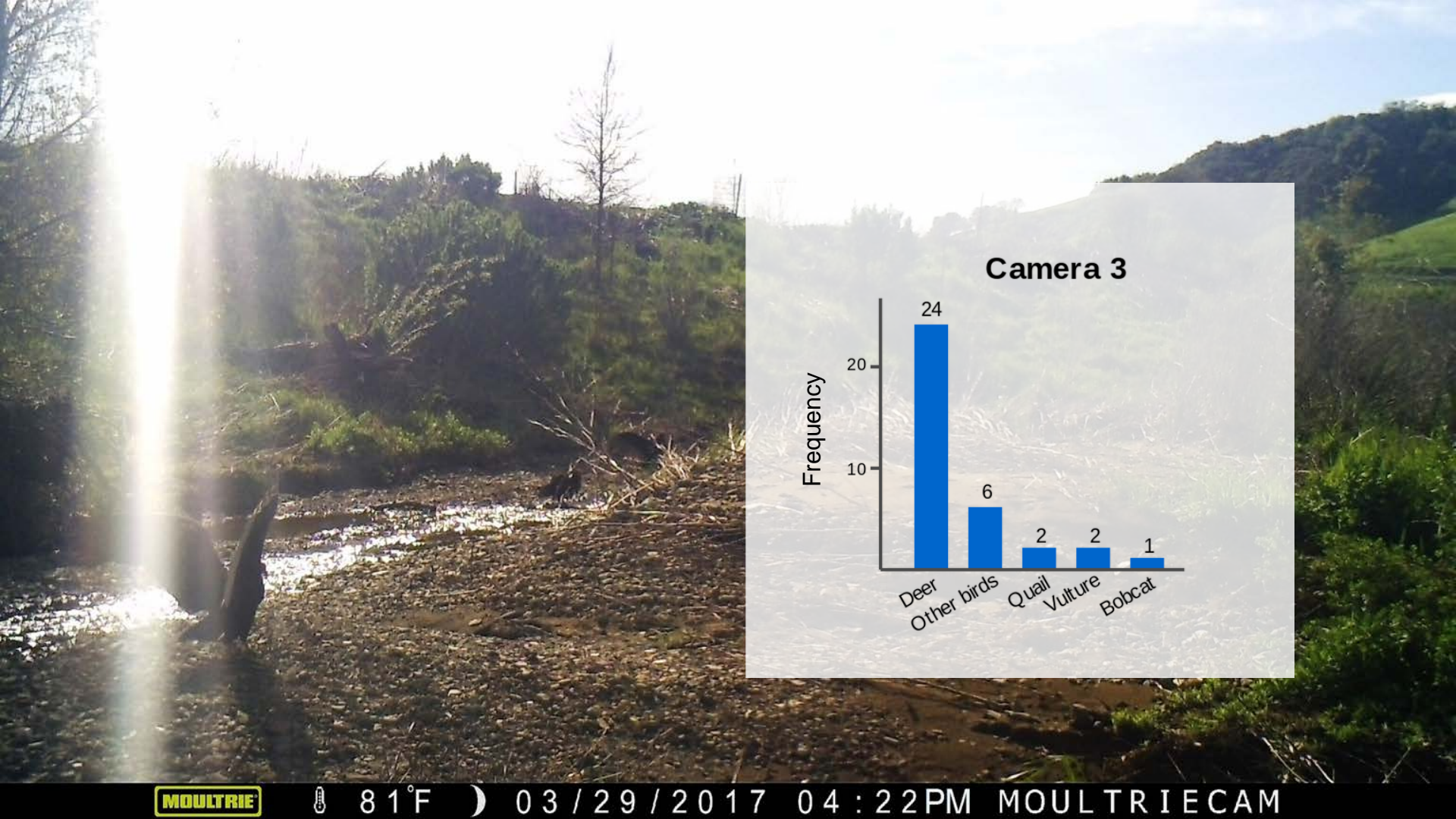




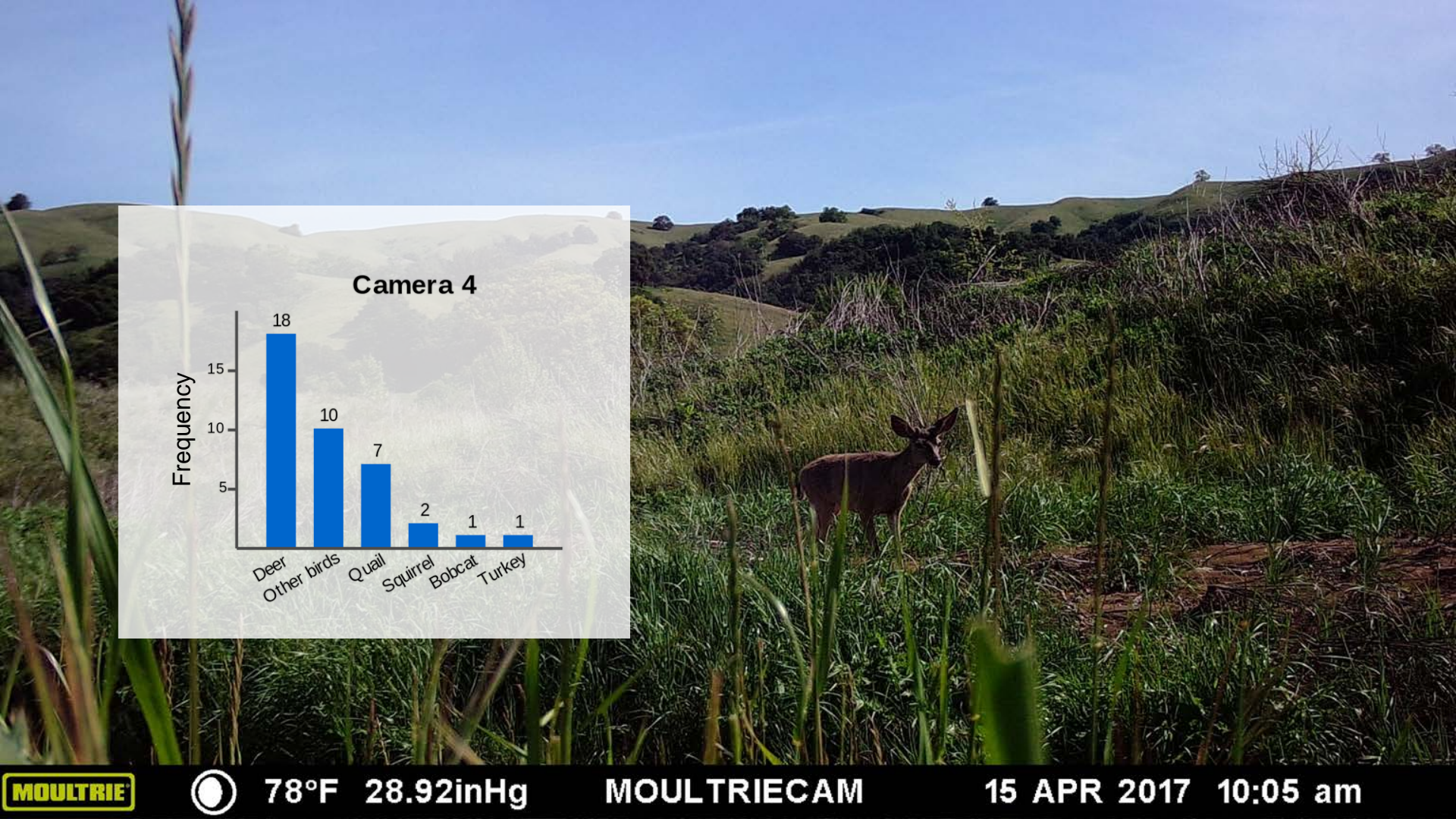




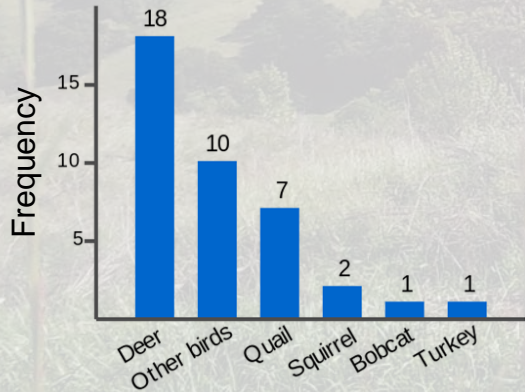




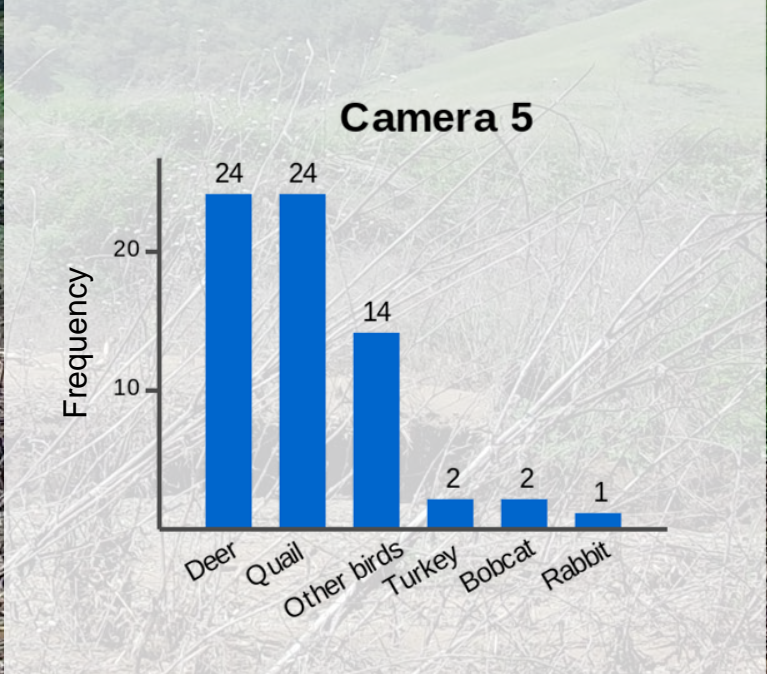
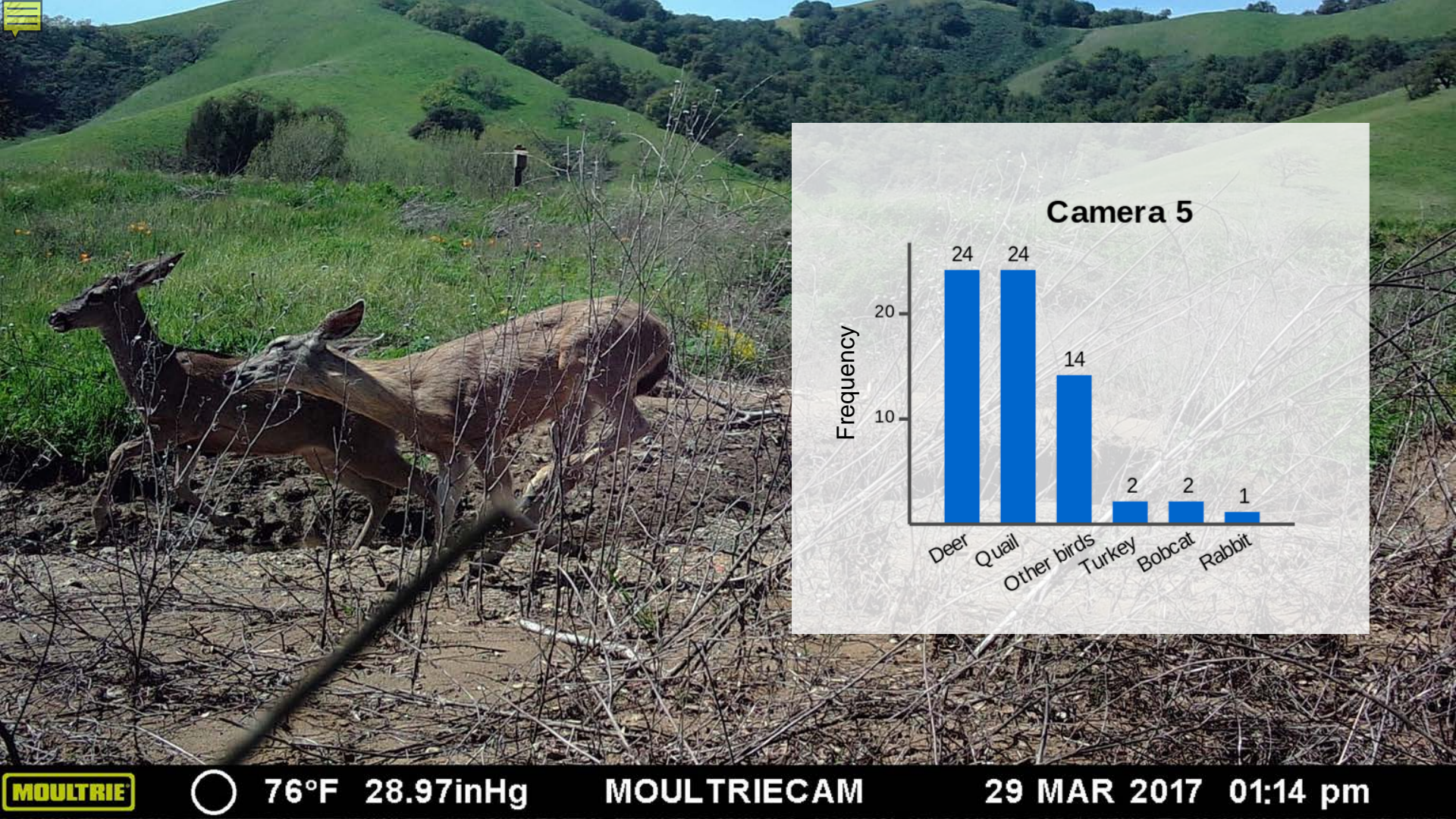




Camera 4







Los Osos
Reserve

Camera 6



añada de los Osos

añada de los Osos

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los Osos

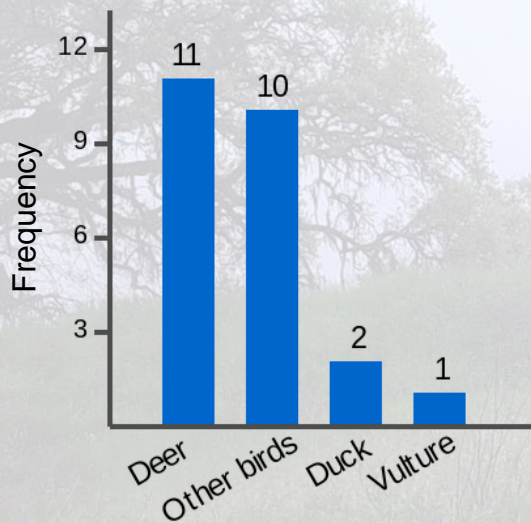
añada de los Osos







Camera 7



Los Osos Reserve

Camera 8



añada de los Os

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los Os

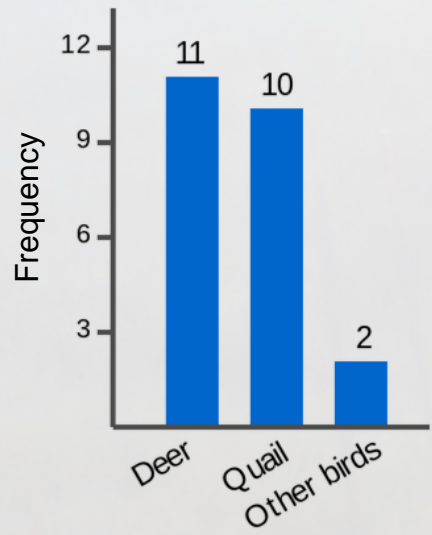
añada de los Os

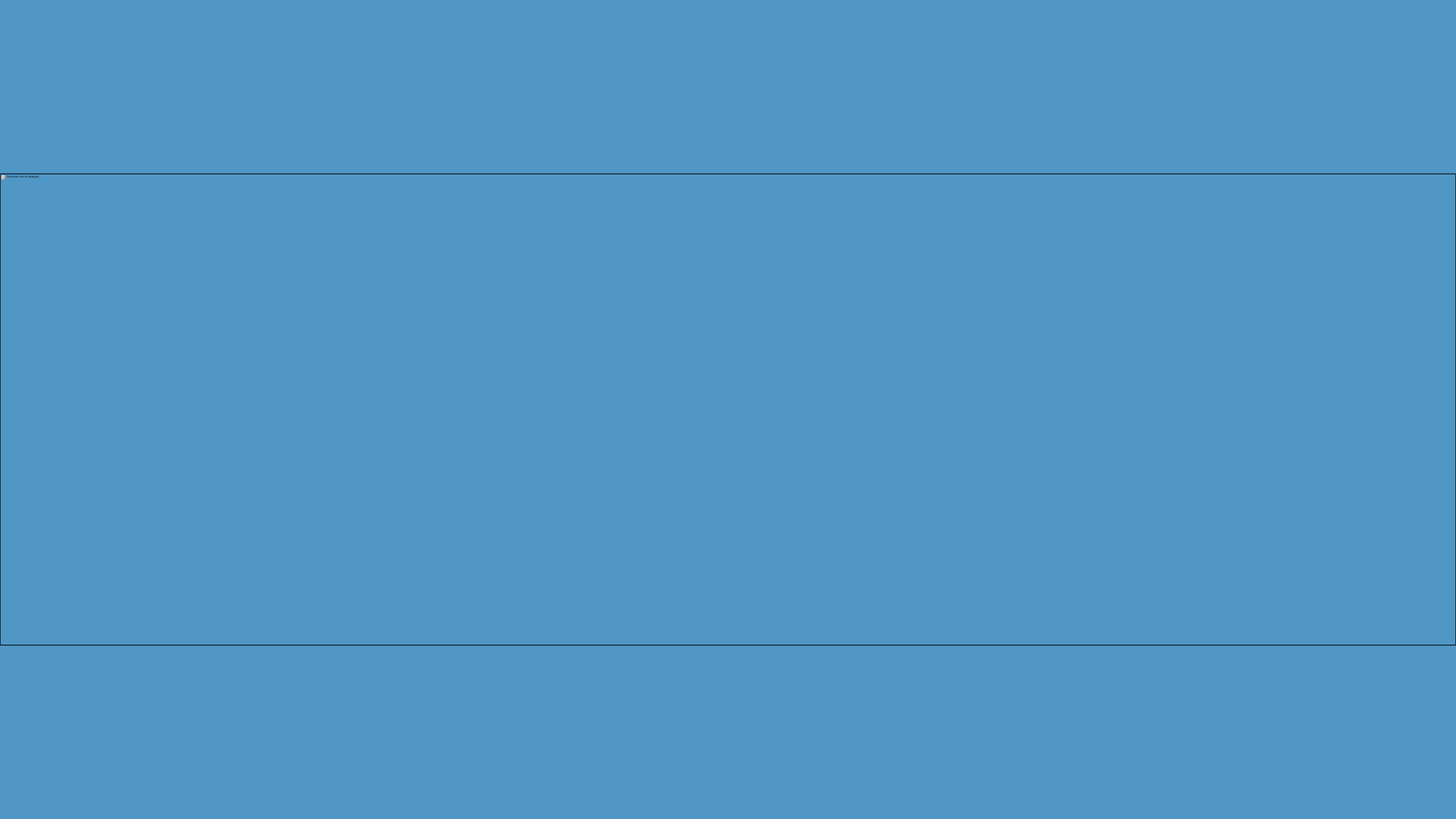


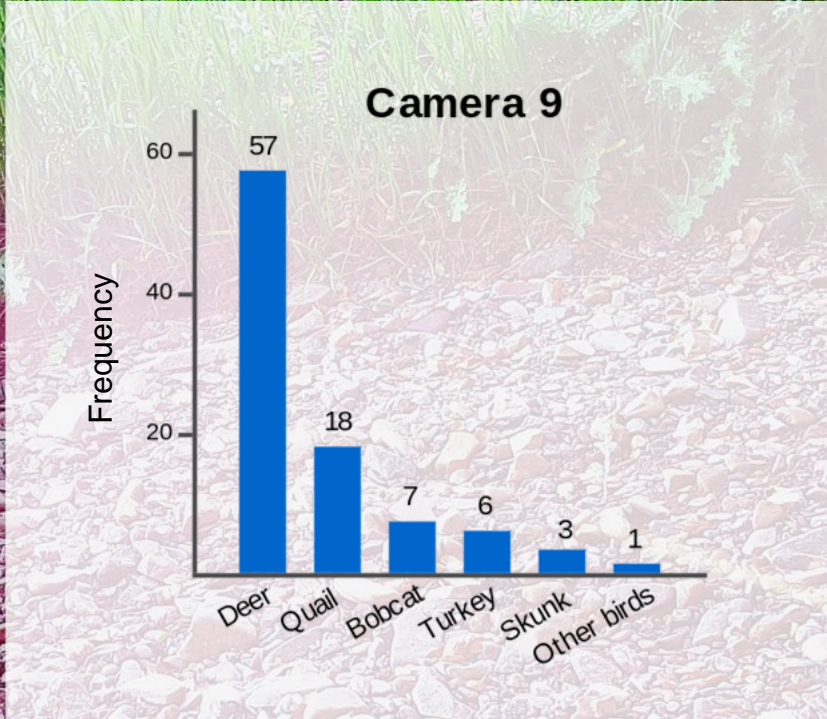
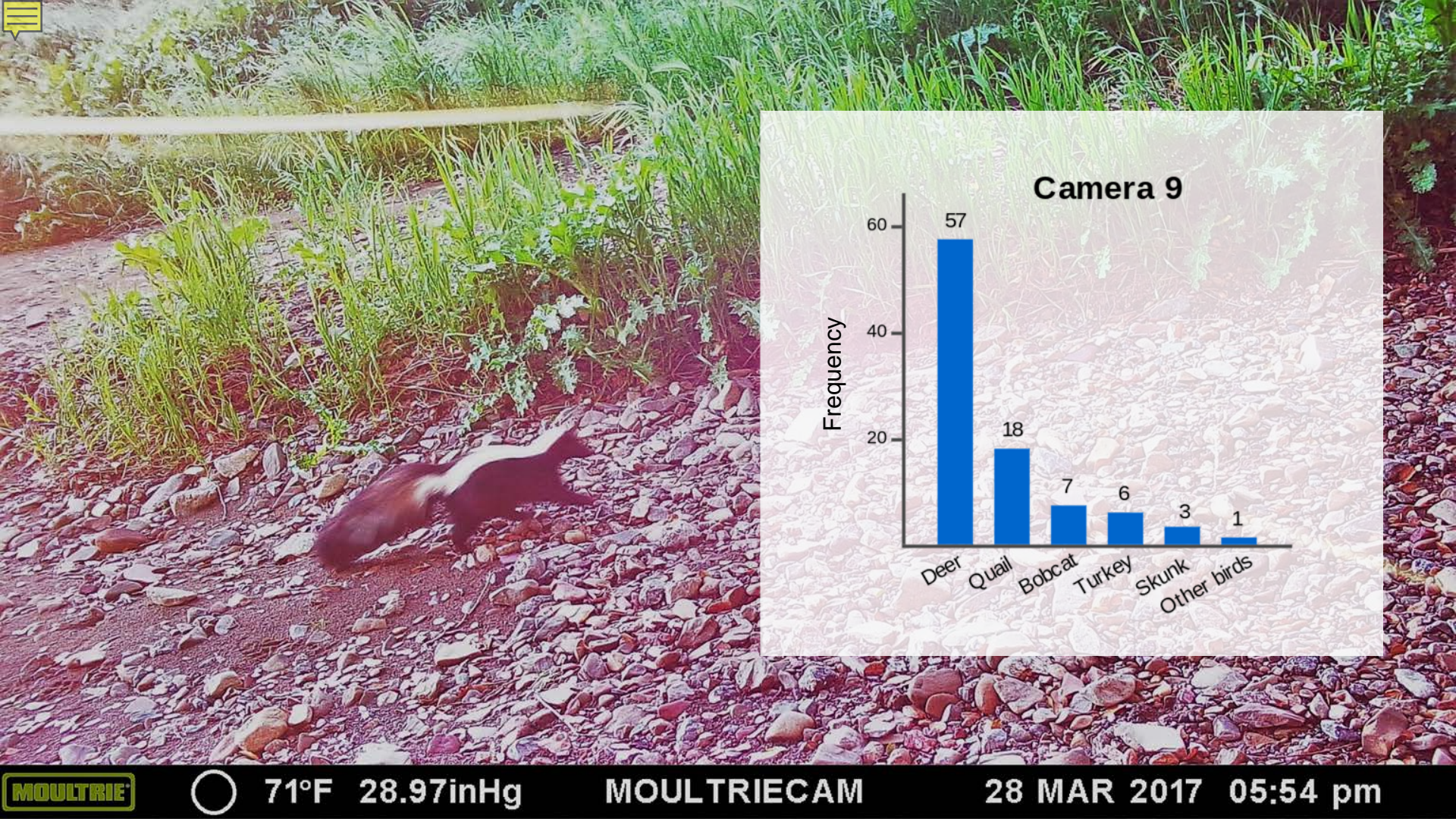




Camera 8

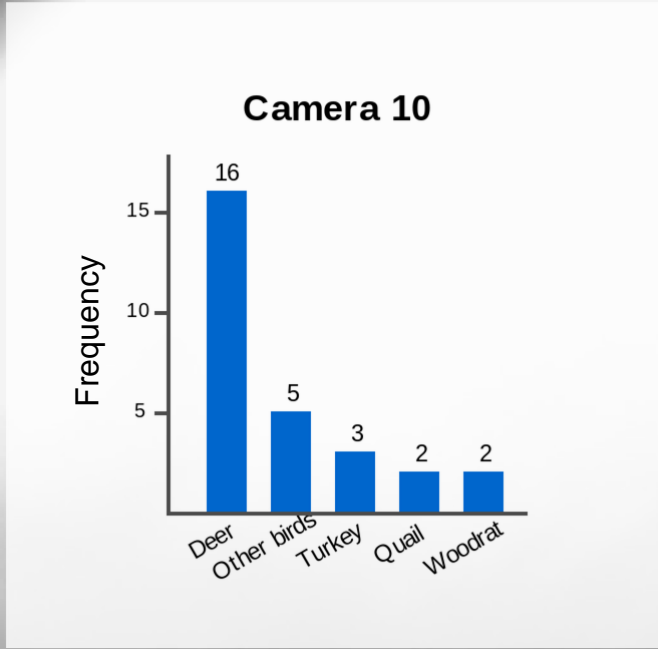






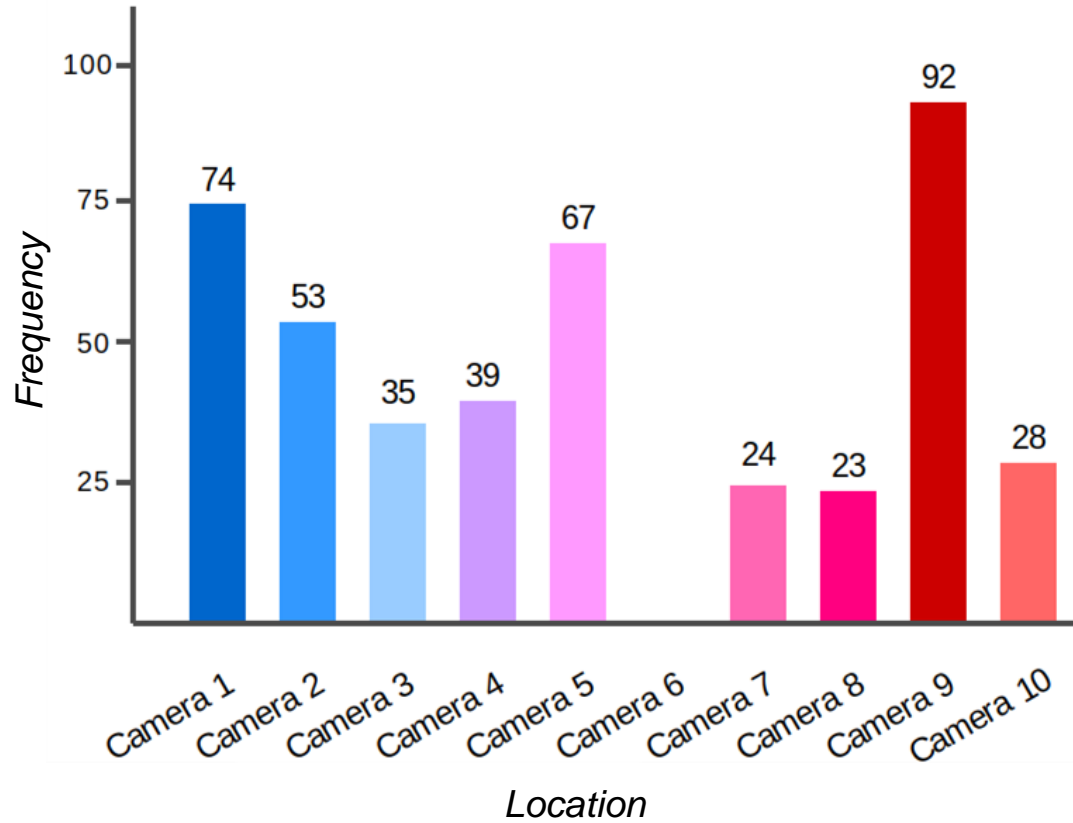




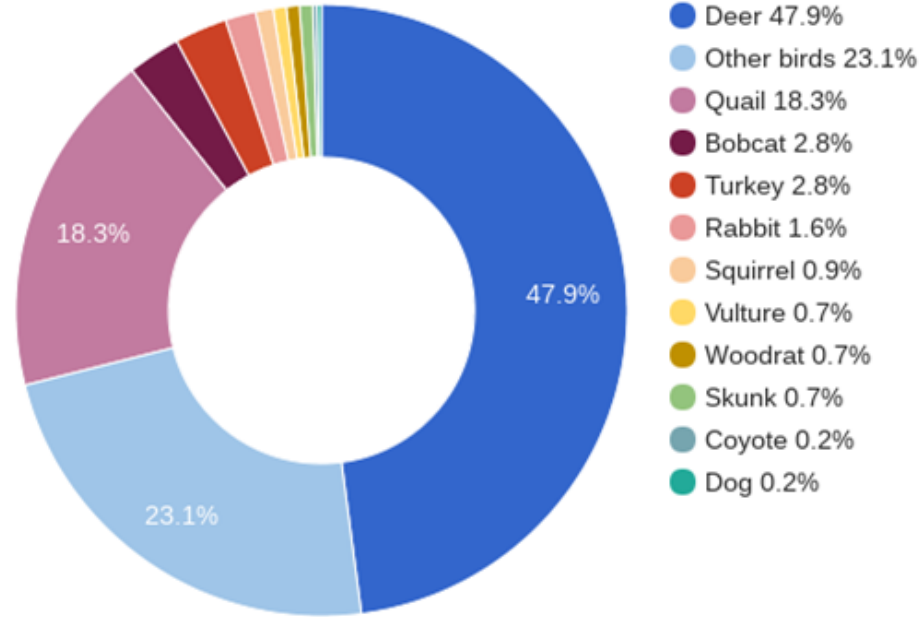




Wildlife visits to restored creek



Percentage of visits for each species



Undisturbed Creek

Rianna Lorenzo & Victor Martinez



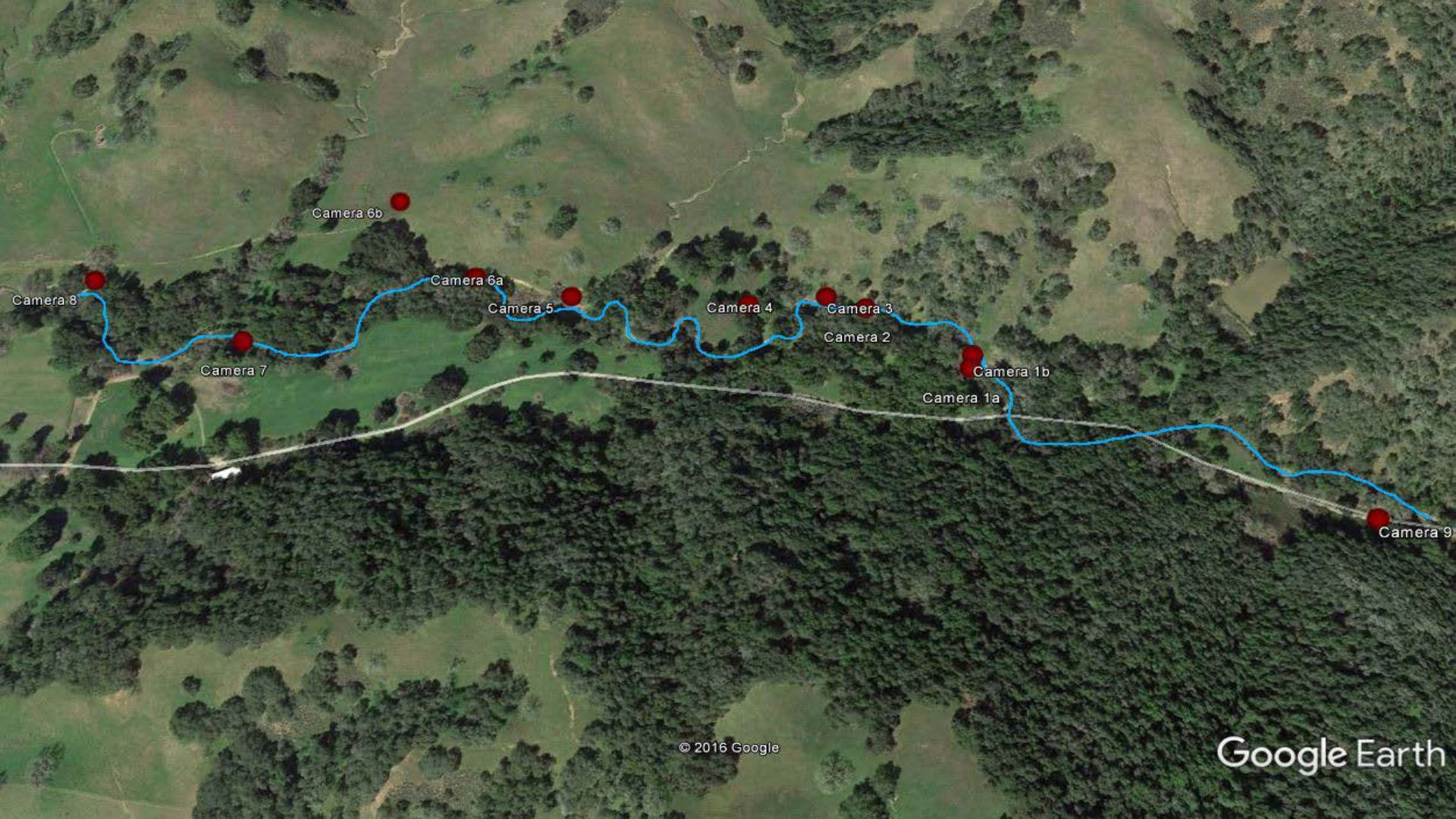
Methods and Materials

9 Motion-detecting cameras

1 camera set to record video

Cameras covered a length of ~1500 m along the creek

March 4 - April 29



Camera 6b

Camera 8

Camera 6a

Camera 5

Camera 4

Camera 3

Camera 2

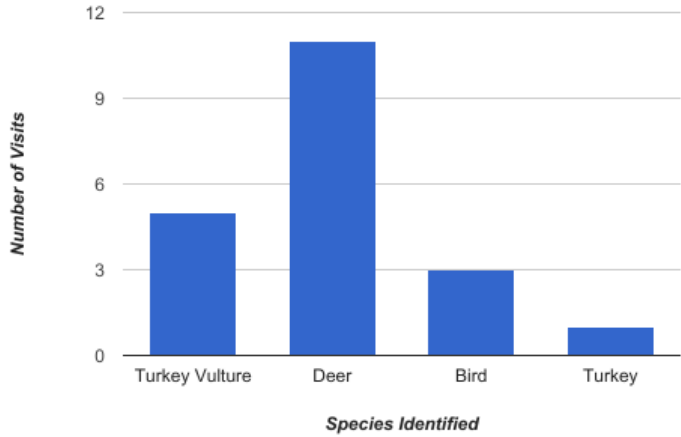
Camera 7

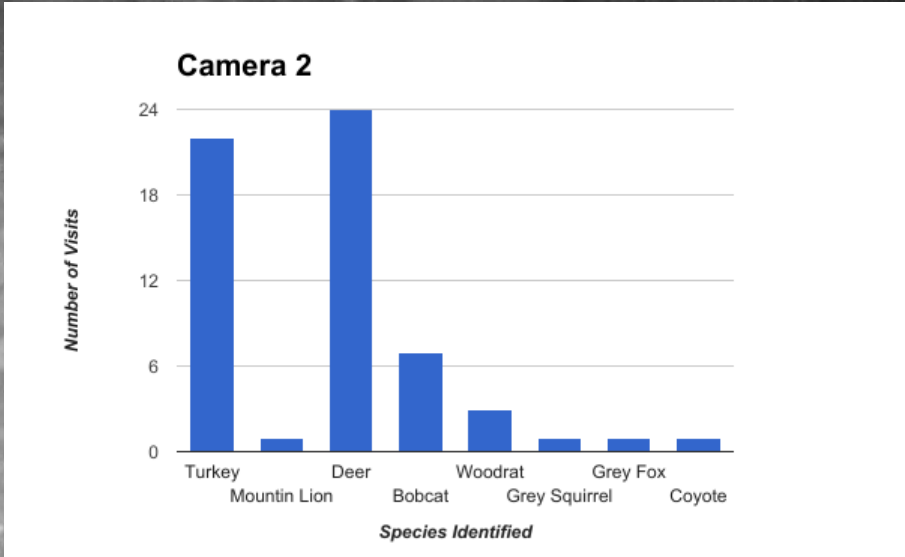
Camera 1b

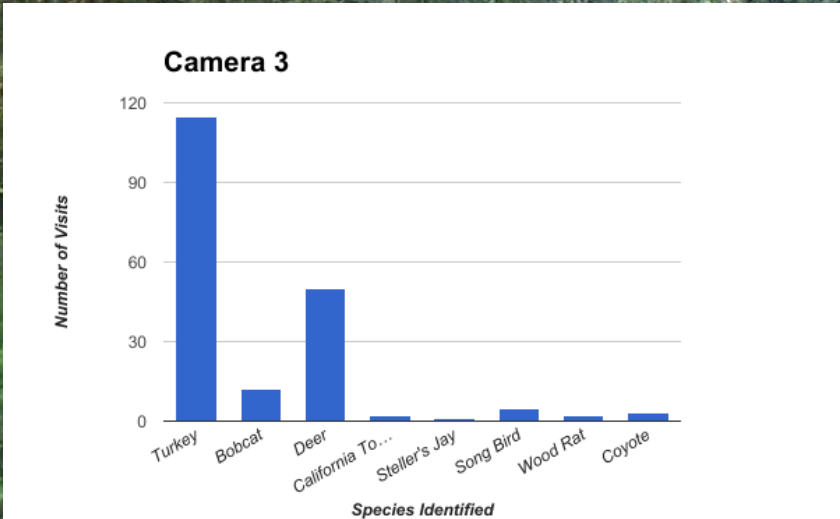
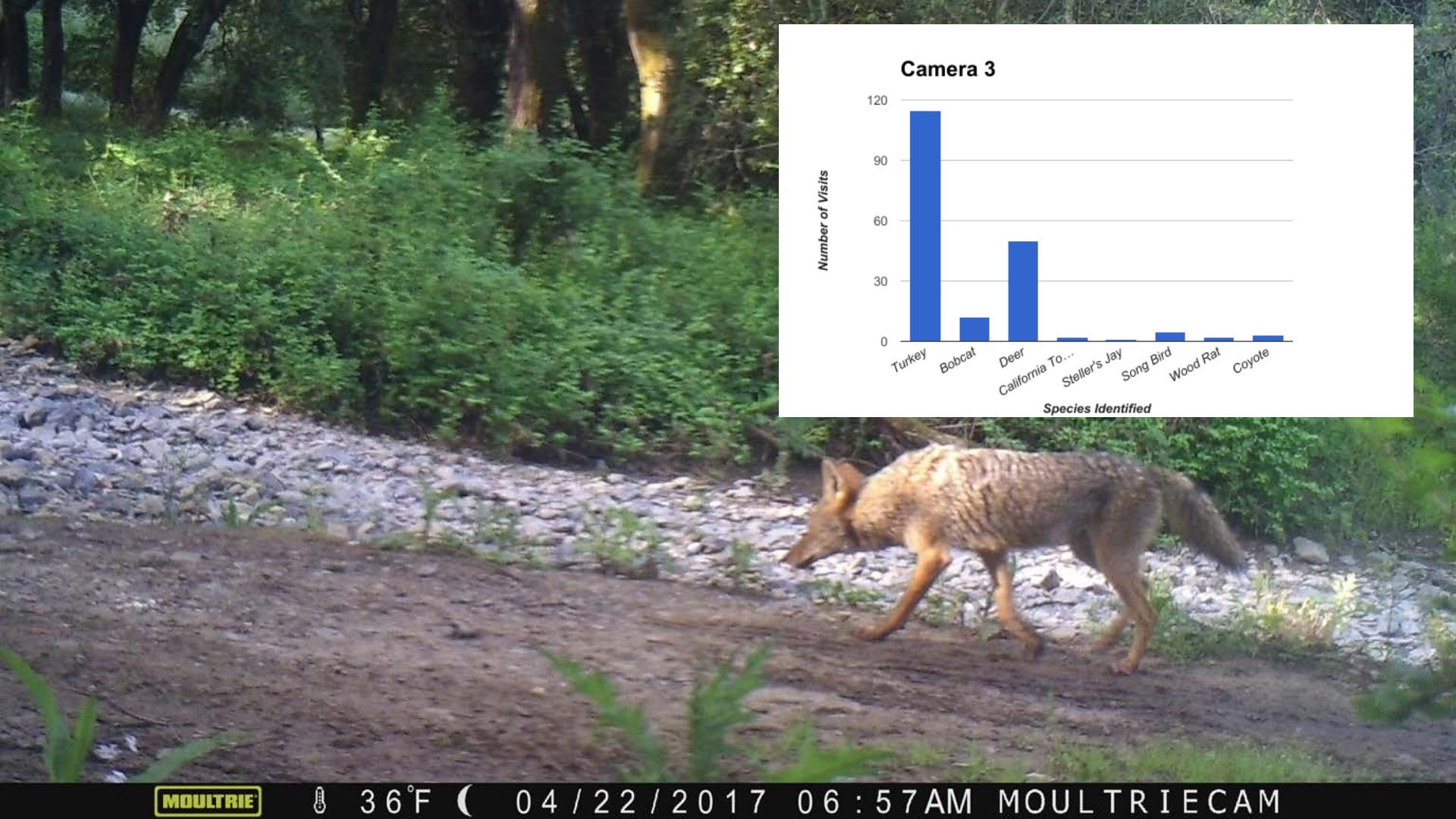
Camera 1a

Camera 9

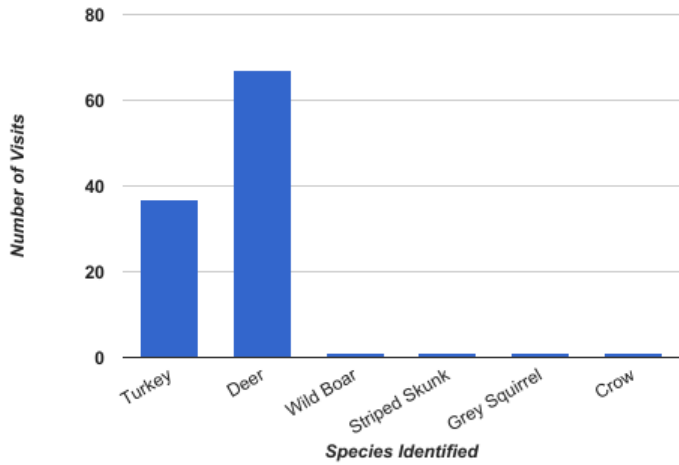
Camera 1



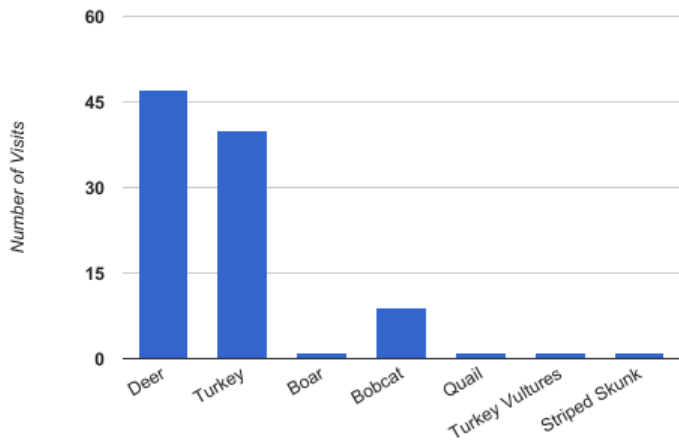


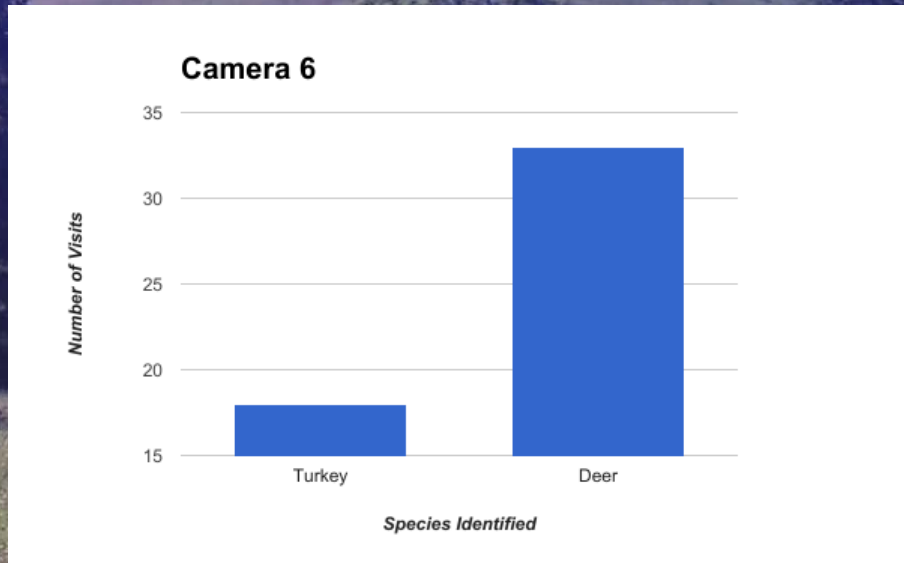


Camera 4



Camera 5





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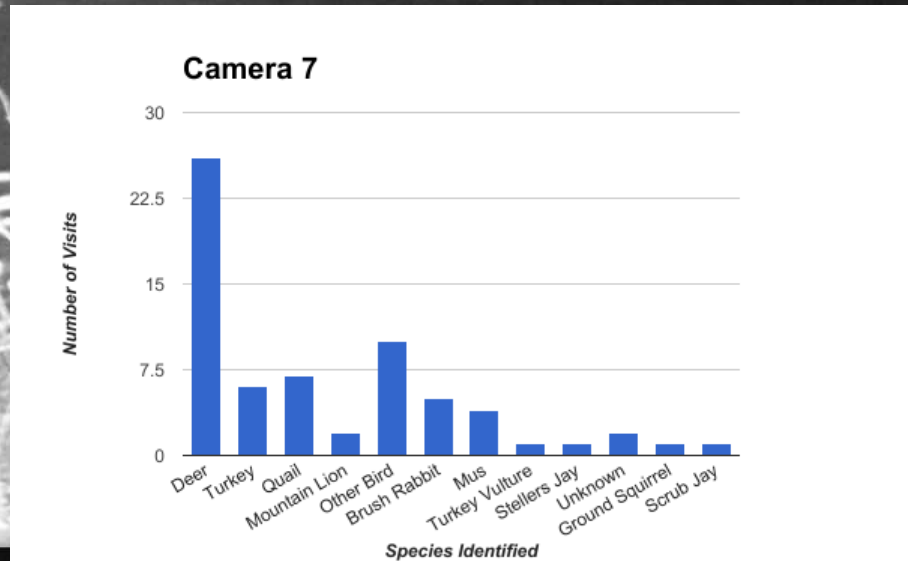
81°F



04/28/2017

02:38PM

MOULTRIECAM



MOULTRIE



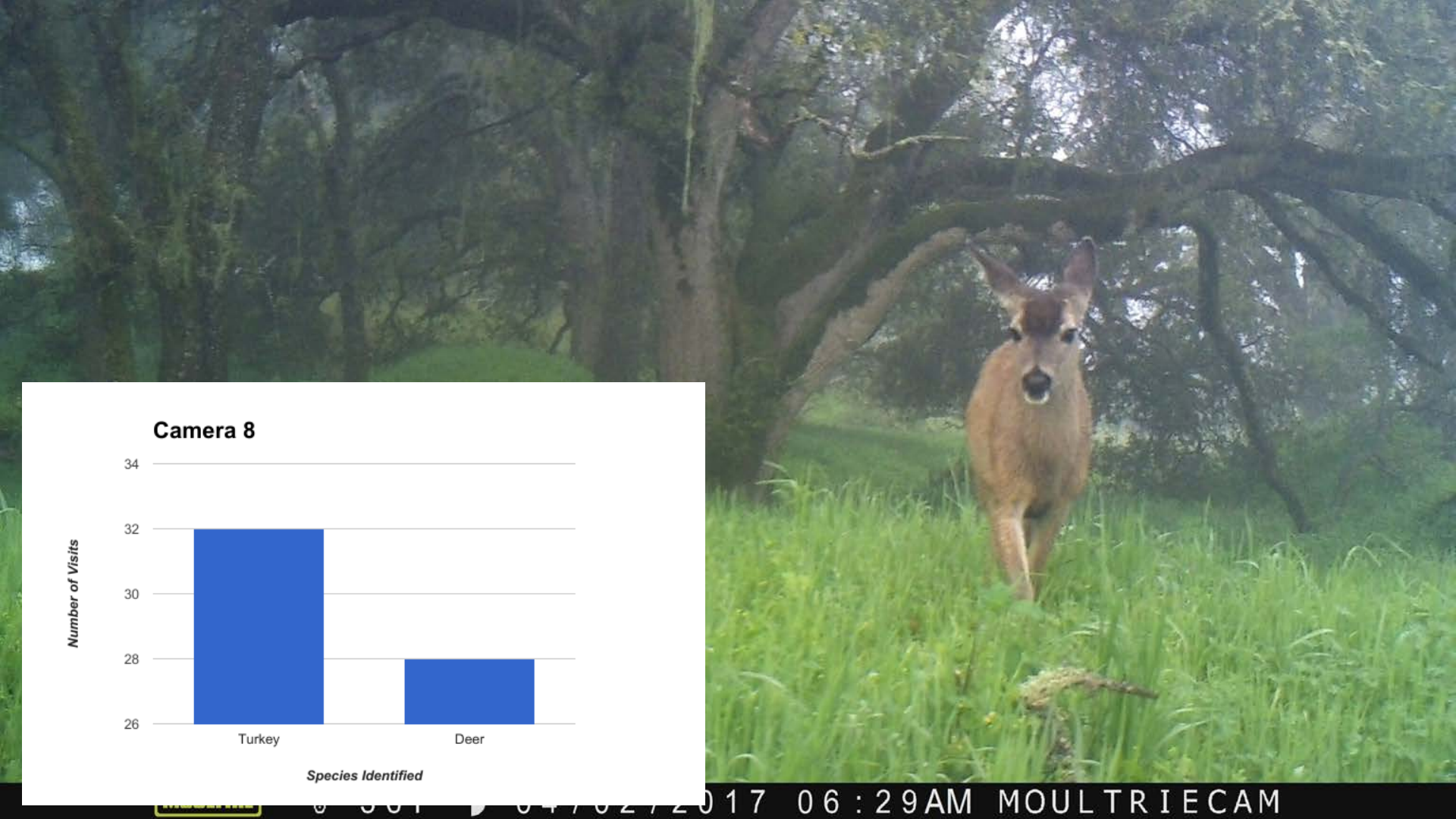
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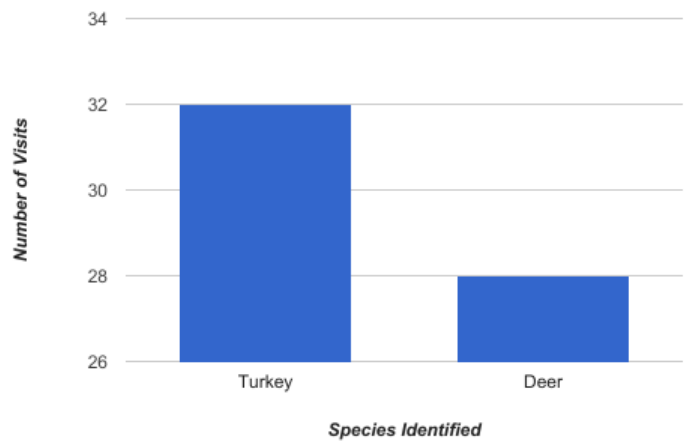
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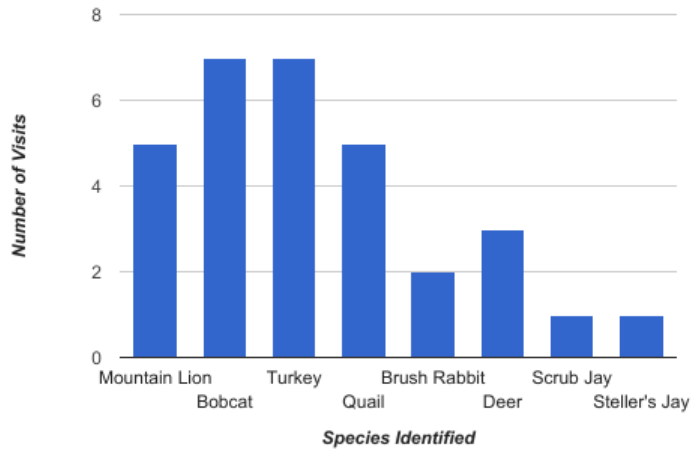
MOULTRIECAM



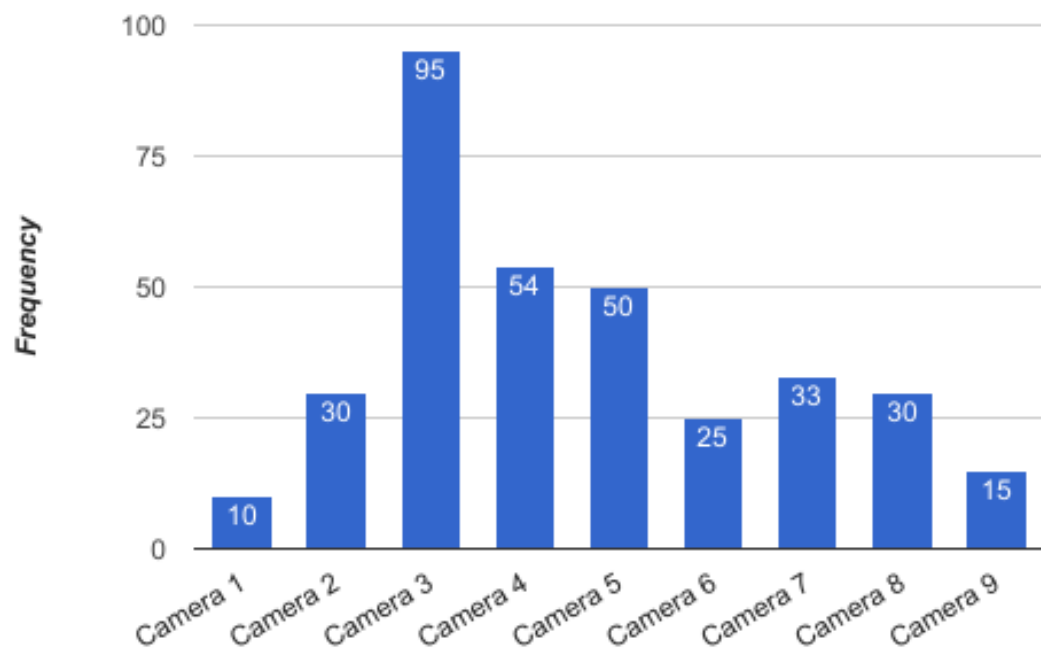
Camera 8



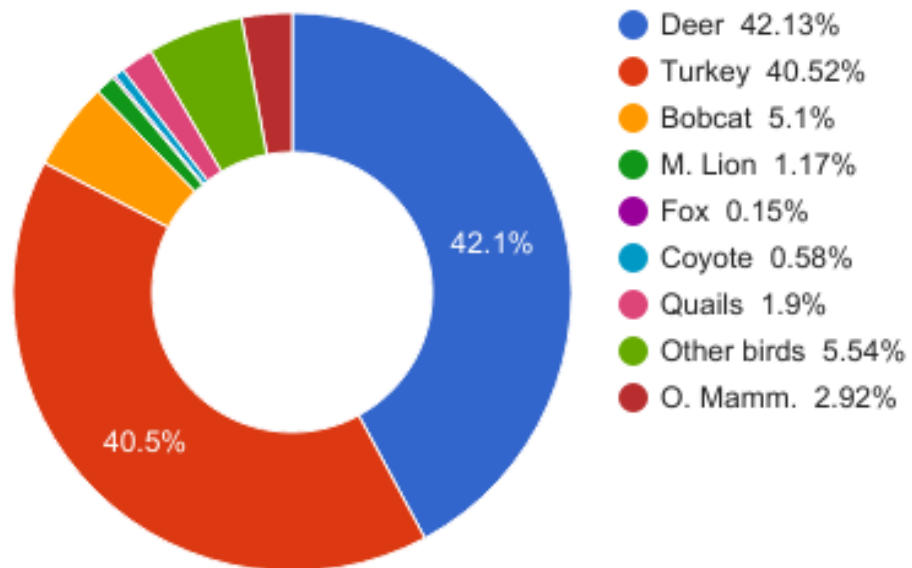
Camera 9



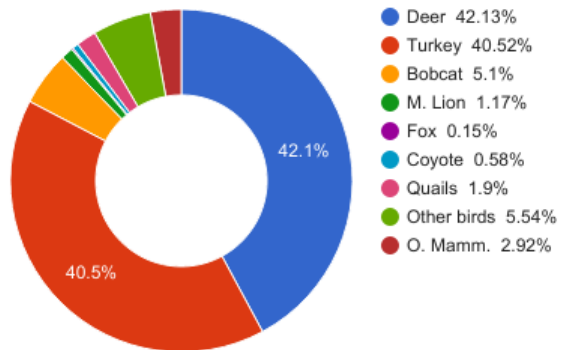
Total number of visits over a 4 week period



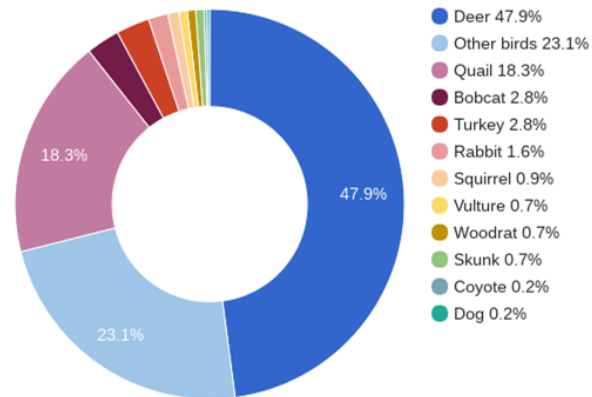
Percentage of Visits per Species



Percentage of Visits per Species in Undisturbed Creek



Percentage of visits for each species



Comparison of Restored vs. Undisturbed



Results Undisturbed Portion of creek

- Variety of wildlife
 - Turkey, Turkey Vulture, Deer, Bobcat, Mice, Skunk, Coyote, Fox, and Mountain Lion
- Camera 9, with video, showed Bobcat possibly marking territory.
- Most cameras had at least a few of each species show up, except for the
Camera 7 that was at edge of creek pointed towards grassland.



Discussion & Conclusion

Comparison; differences in number of visits & species

Conclusion; reject null

Challenges

Further research
