Predation Control



R. Reid Redden, PhD Asst. Professor & Sheep & Goat Specialist 325.657.7324

reid.redden@ag.tamu.edu

@TAMUSheepandGoats

Predation

Lamb (Kid Goat) Loss:

- National
 - 3.9% Lamb Crop
 - \$20 Million
- Texas
 - 20% Lamb (Kid) Crop
 - \$20 Million

Adult Loss:

- National Sheep Flock
 - 1.8% Flock
 - \$12 Million
- Texas
 - 3.2% Sheep & Goats
 - \$5 Million



Origin of Livestock Guardian Dogs





EWF-028 9/15



Livestock Guardian Dogs

R. Reid Redden

Texas A&M AgriLife Extension Sheep and Goat Specialist

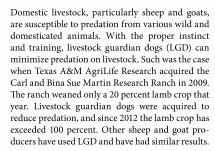
John M. Tomeček

Texas A&M AgriLife Extension Wildlife Specialist

John W. Walker

Texas A&M AgriLife Research Resident Director of Research – San Angelo

The Texas A&M University System



Though common elsewhere for centuries, LGD have only been used commonly in the US since the late 1970s. As a result, many livestock producers are unfamiliar with how best to use these dogs to reduce predation. What follows are the basics of guardian dog behavior, training, and how to integrate them into a livestock operation. This information combines anecdotal experience and scientific research on canine behavior.



Photo provided by John Walker

How LGD reduce predation

Unlike methods such as hunting and snaring that are used after predation occurs, guardian dogs can prevent predation by deterring predators all the time. This level of security can save you money and increase your peace of mind.

Guardian dogs reduce predation in three major ways: 1) territorial exclusion, 2) disruption, and 3) confrontation. Territorial exclusion is particularly important for protection against other dog like (canid) predators. All dogs, whether wild or domestic, use scent to mark the boundaries of their territory. Other canids, even of different species, recognize these boundaries and tend to seek unoccupied areas rather than risk invading another dog's territory. Disruption is aggressive behavior such as barking and posturing that falls short of direct physical aggression. Finally, confrontation is used when predators are not dissuaded by exclusion or disruption. However, even confrontation is not necessarily lethal to the potential predators.

Properly reared guardian dogs are exposed to livestock from birth. They do not regard livestock animals as competition for territory but rather an extension of their pack. Guardian dogs include livestock within their territory, and they prevent losses by discouraging predators, such as coyotes, from that territory. Ultimately, predators avoid protected pastures and keep safely away from flocks to avoid being detected or confronted by the guard dog.

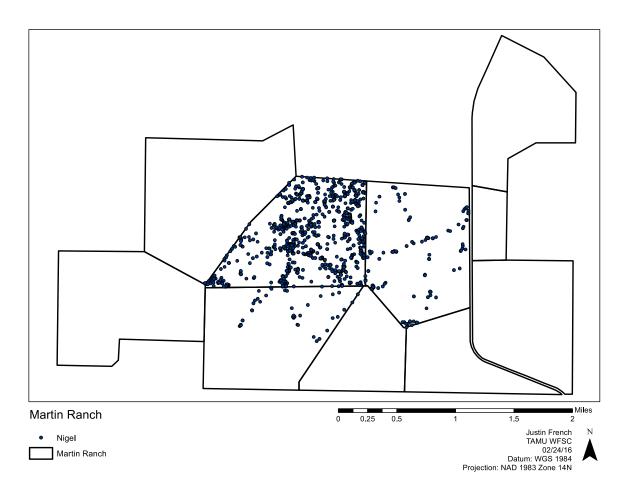


Martin Ranch Research

- Donated to Texas A&M in late 2000s
 - □ 2009
 - □ 25% lamb/kid crop
 - □ 2010
 - Implemented a LGD program to be able to conduct research
 - □ 2015
 - □ 125% lamb/kid crop
 - ☐ Hired Dr. Redden/Tomecek
 - Implemented LGD Research Program

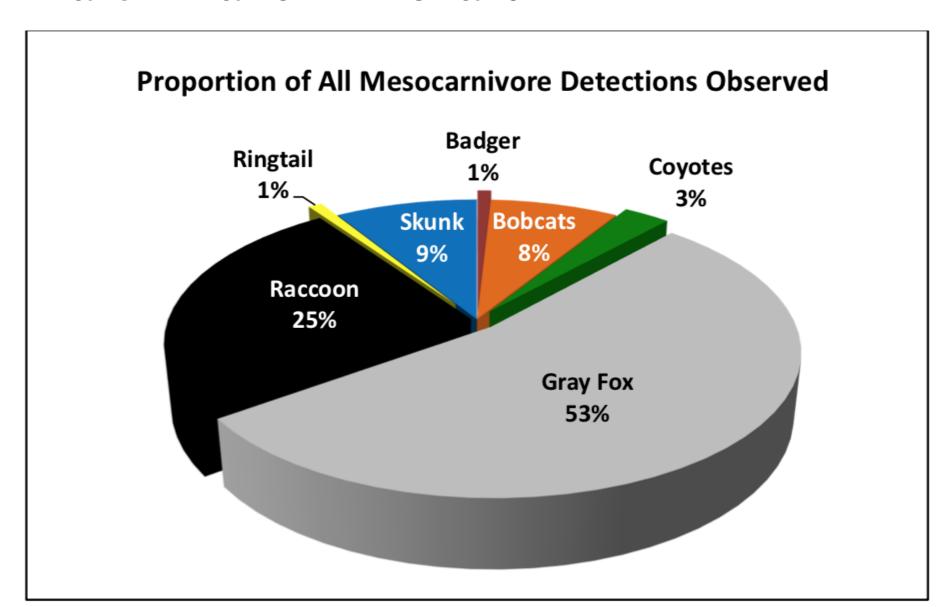


Texas Scenario

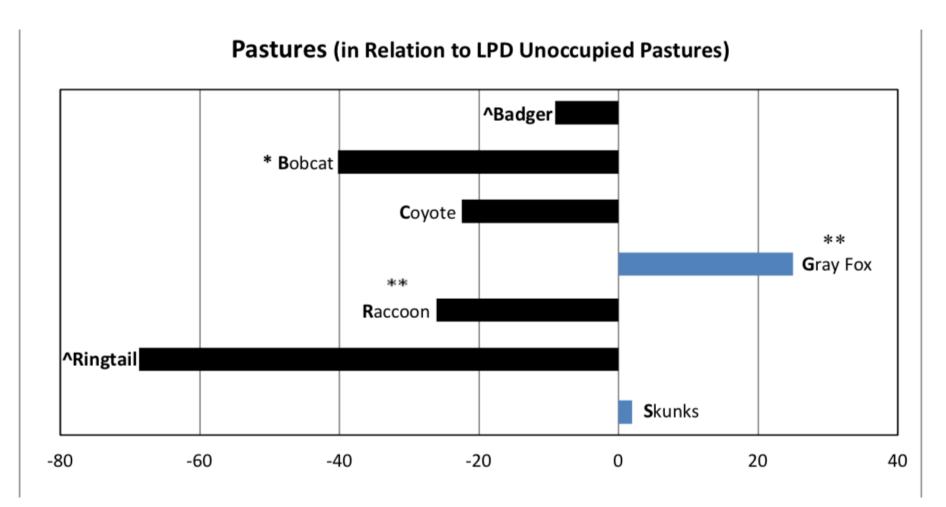




Martin Ranch - Menard TX



Tomecek (unpublished data)

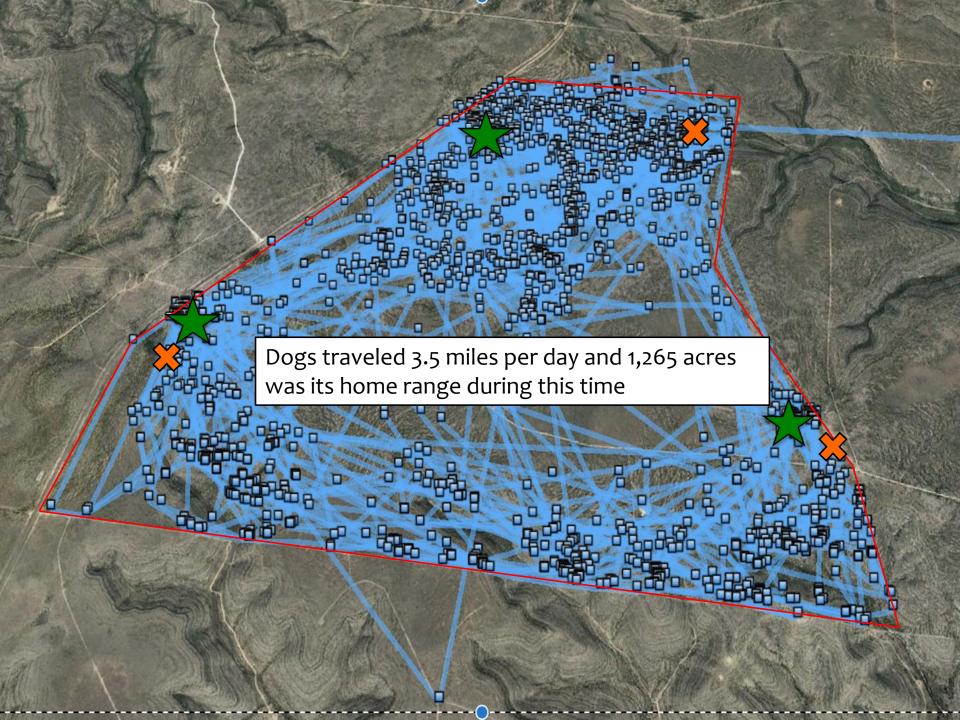


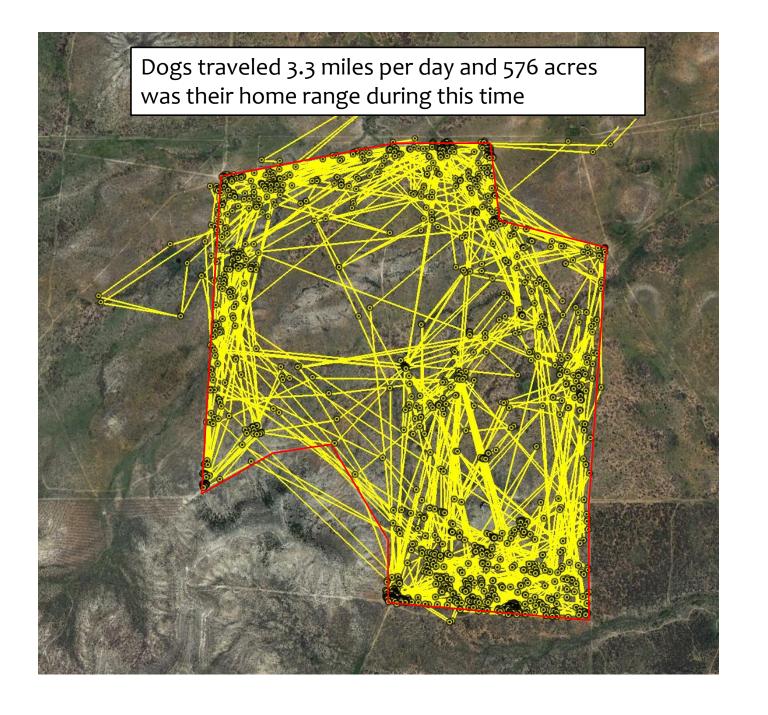


NSIIC - LGD Cooperator Project

- 6 Cooperators (2 extras)
 - □ No LGD Experience
 - □ Large Range Operations
 - □ 22 Bonded LGD Ready to Work One Supplier
 - □ Tracked Lamb Crop
 - □ Tracked LGD with GPS Collars





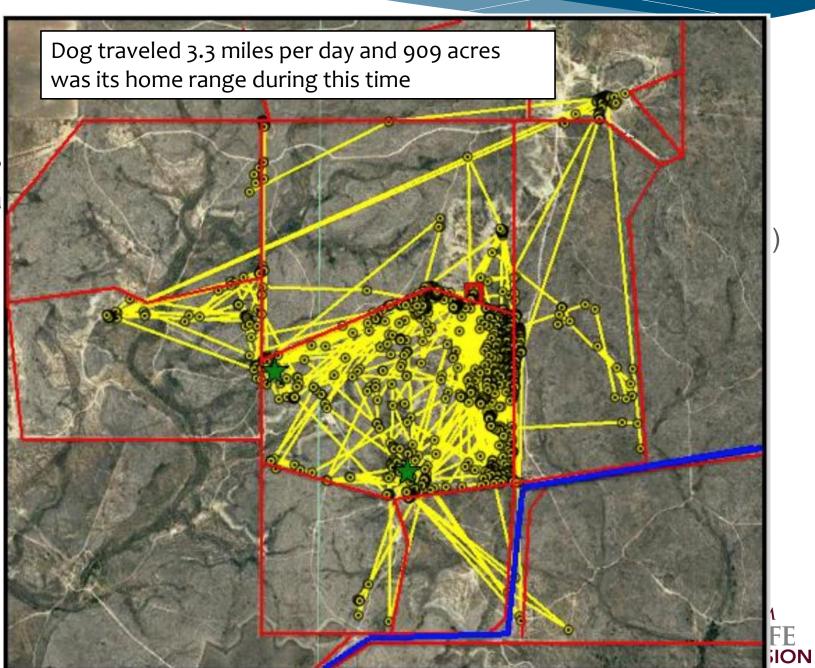


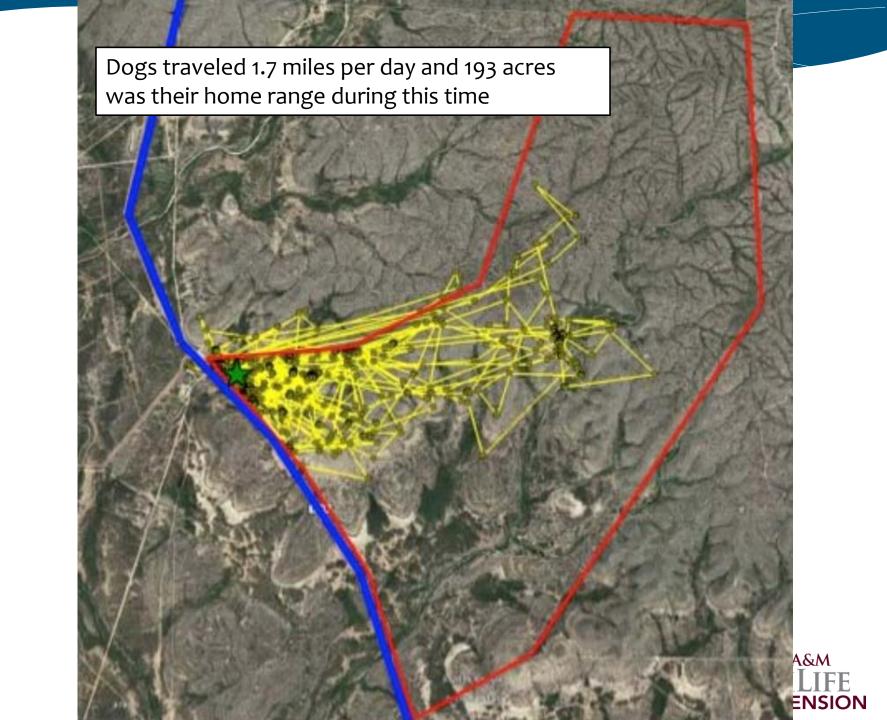
Case

Result

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Results

- Case Studies are Online: sanangelo.tamu.edu
- All cooperators reported issues!!!!!
 - □ Dogs killing lambs & harrasing deer
 - □ Dogs leaving and never seen again
 - Dogs not staying with sheep and can't catch dogs
- Bottomline
 - □ 50% of cooperators found the dogs to be helpful
 - ☐ 50% of LGD remained after 1-2 years
 - ☐ Breeders report 90+ percent success rates





Comparison of trackers

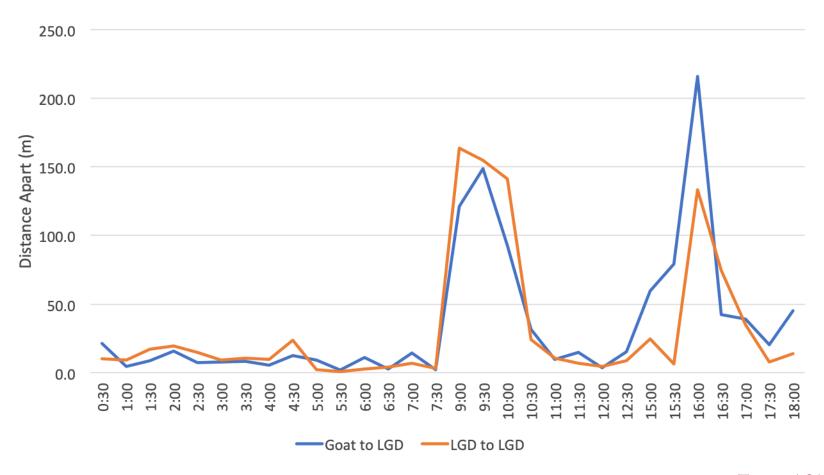






Unit Name	Battery Life	Cost	Monthly Service Cost
i-gotU GT-120	10 days	\$55.99	NA
Optimus	5 – 7 days Depends of strength of cell signal	\$59.95	\$20.00
Yabby/Oyster	Up to 3 years	\$129.00	\$6 . 55

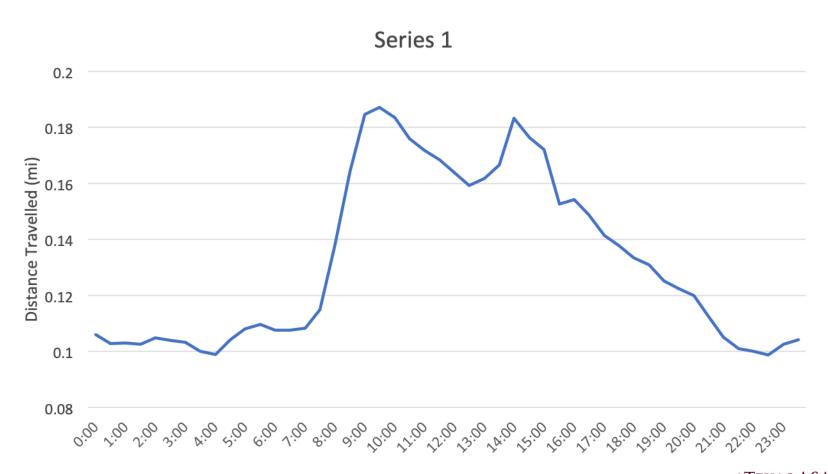
Distance between animals







Activity of LGD – 7 miles/day range 4 – 12 Average of 456 LGD days

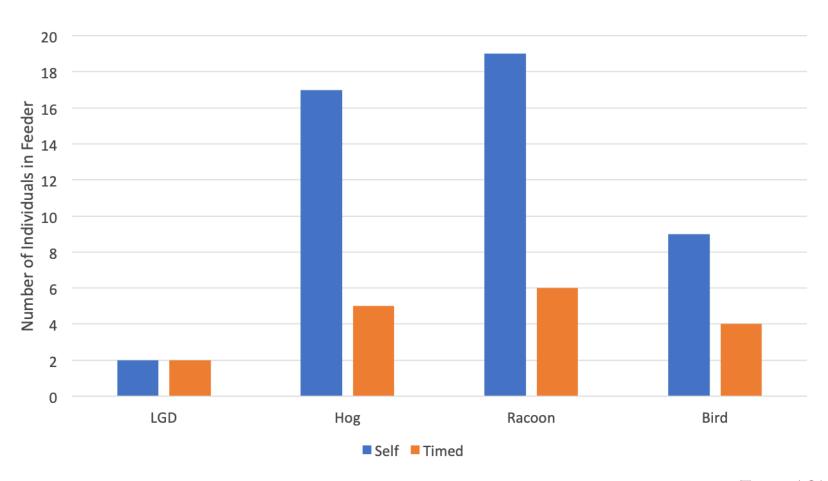




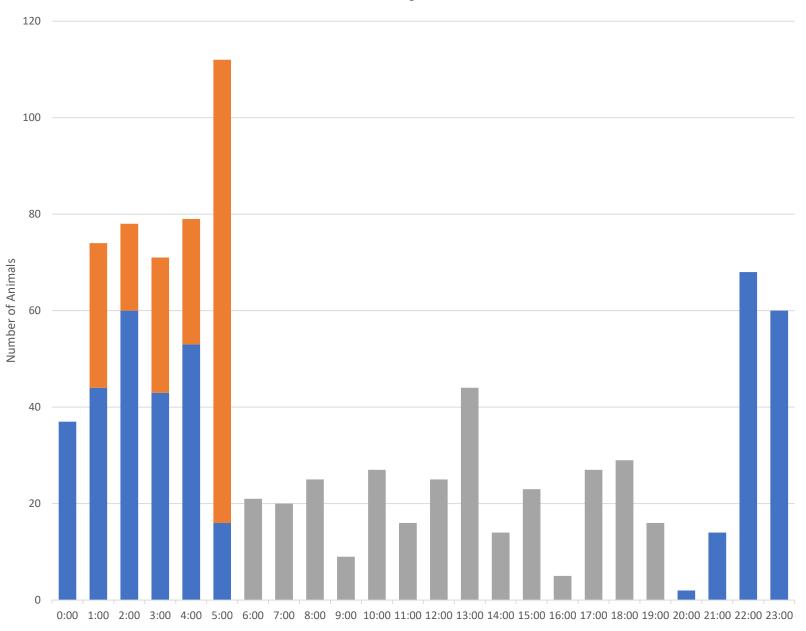


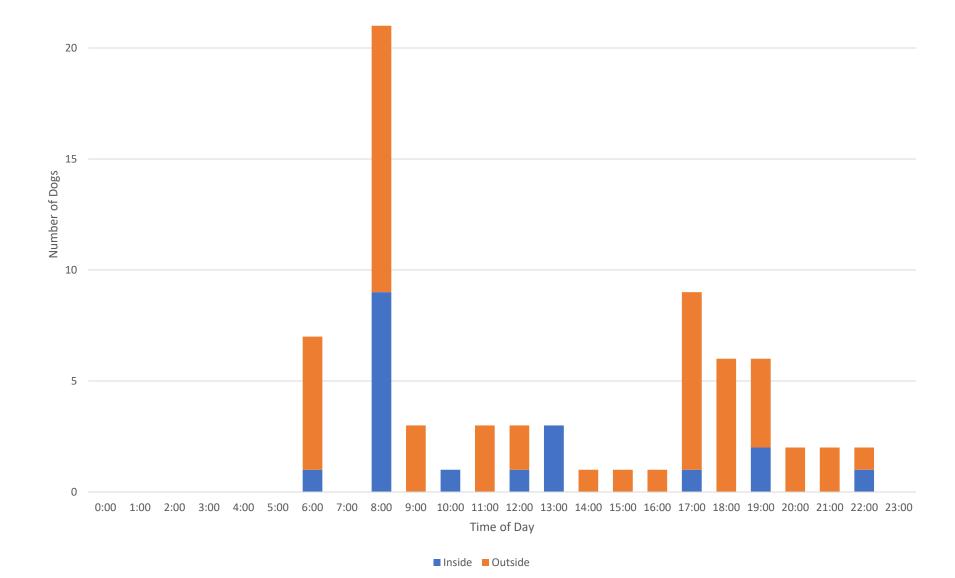
What's been eating your dog food?

Use of Feeders









LGD Feeders



New Feeder



LGD Research Specialist

Bill Costanzo

- ☐ Grant Funded
- Texas PredatorManagement Board



Questions

R. Reid Redden, PhD
Asst. Professor & Sheep & Goat Specialist
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