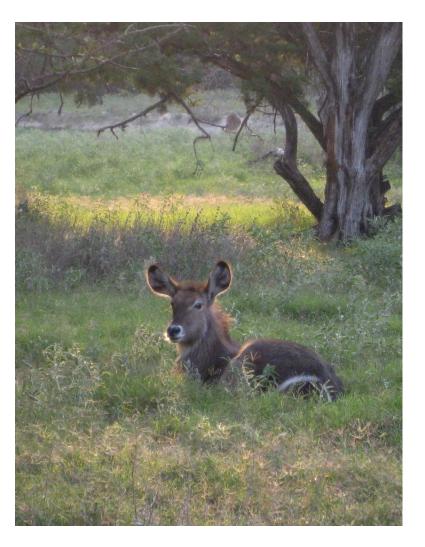


"BIG HERD" SCENARIOS: MALE MANAGEMENT

j-packard@tamu.edu Pilot study of waterbuck

What? Manage the herd so....

- Calves are born at a time of year that
 - Enhances calf survival
 - Favors female recovery
 - Reduces stress on pasture
- Maintains genetic diversity and social experience
 - Avoid inbreeding
 - Socialize developing males



Why? Sustainable strategy

- Genetic viability
- Herd health
- Socially adept
- Ecosystem health



Where? Main Pasture: Fossil Rim



More...

How? ABA male scenario

Vasectomize bull

- Genetic output already well represented
- Maintain herd structure
- Replace with intact bull
 - Introduce in best season for conception
 - Optimal outbreeding
- Return vasectomized bull
 - Rest cows to regain condition/cycles
 - Move maturing males to bachelor herd



When? 2008

- □ Jan May: <u>Baseline</u> (vasectomized male)
 - 1-week rapid assessment
 - "24-hr" focal samples @ 3-week intervals
- June-July: <u>Treatment</u> (intact male)
 - 1 hr focal @ dawn or dusk "daily"
- Aug- Dec: <u>Post-treatment</u> (vasectomized male)
 - 1 hr focal @ dawn or dusk "daily"
 - "24-hr" focal samples @ 3-week intervals

Outcomes

- No change in vasectomized male behavior before vs. after treatment
- Intact male accepted by herd, mounted females
- Interaction with castrated male





STAFF

Animal Care Veterinary Education Naturalrsesources

TAMU/ULL

Pre-college Undergrad Grad class Faculty



Next steps?

- Outreach activities: blogs.tamu.edu/hoofstock
 BLOG, online video archive, observation database
- Proposal for master's research
- 2009 plans
 - Rapid assessment week (grad class)
 - master's research project- waterbuck
 - Proposal for general individual-based model of herd/habitat interactions
- Scale up to metapopulation dynamics

