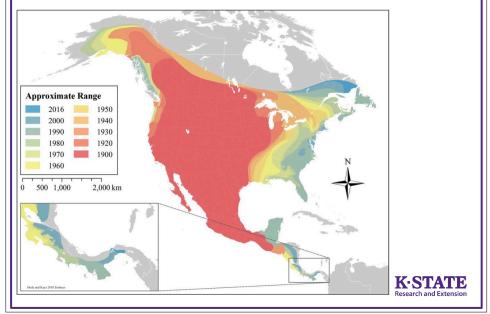
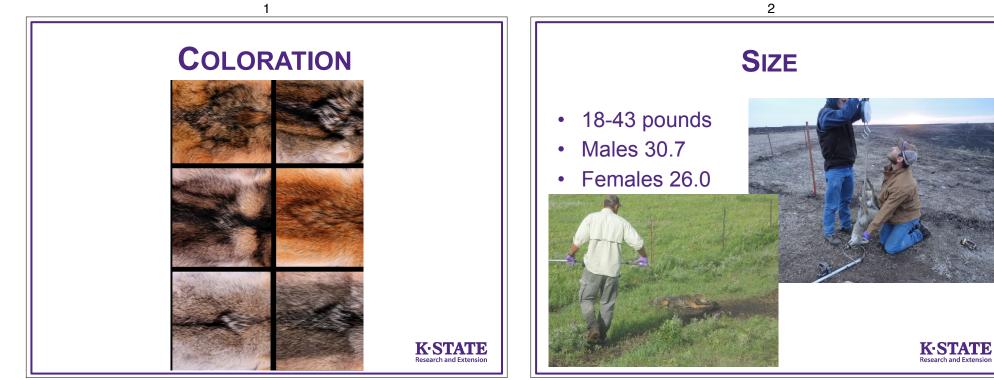
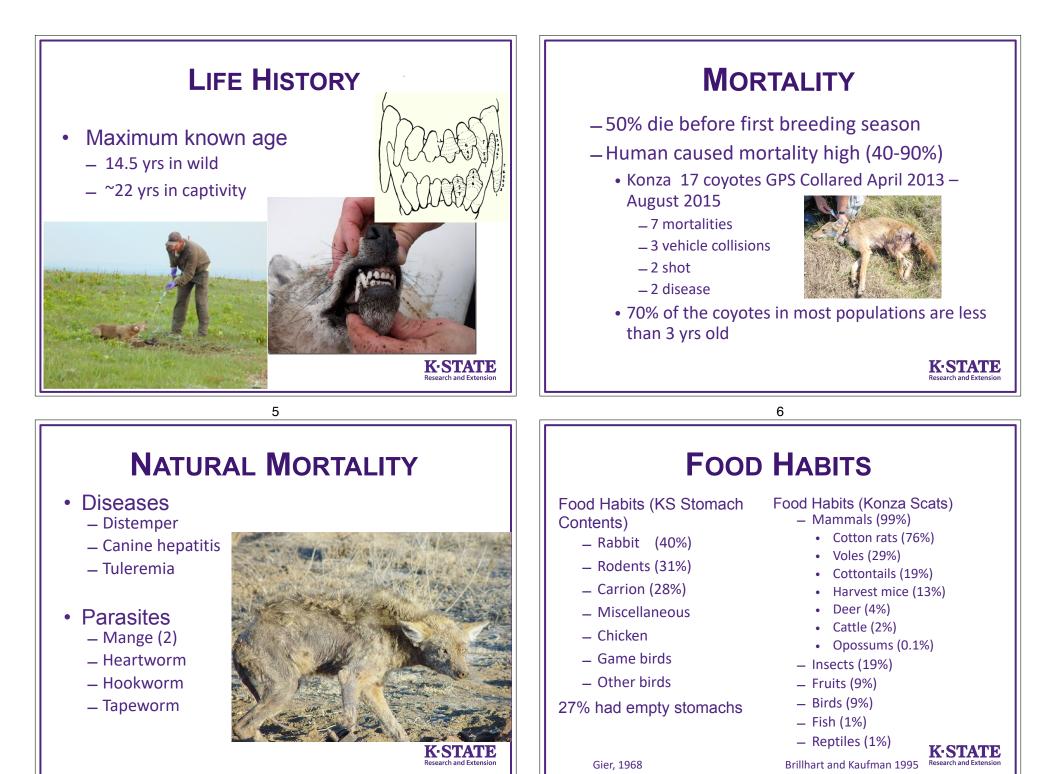
COYOTE BIOLOGY & MANAGEMENT

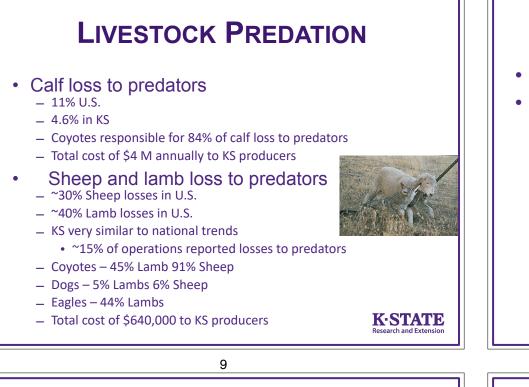


DISTRIBUTION









REPRODUCTION

- One 4-5 Day Estrus Annually Jan- Feb
- In most years, Females born in spring won't breed the following breeding season
 - Majority of yearling females will produce pups when resources are high
 - Litter size varies depending on resource abundance
 - Low resources 3 pups/litter
 - High resources 8 pups/litter



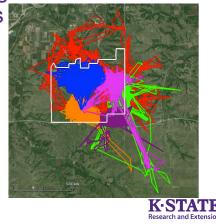
K-STATE Research and Extension

10



SPACE USE

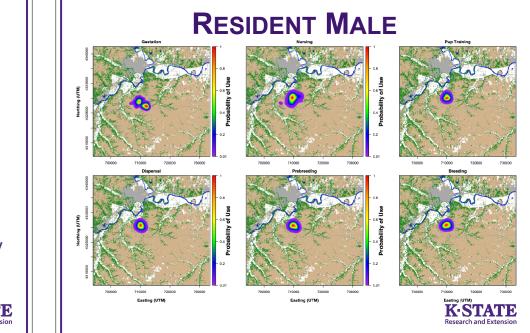
- Home range size varies widely 2-55 mi²
- Urban areas have higher densities and smaller home ranges

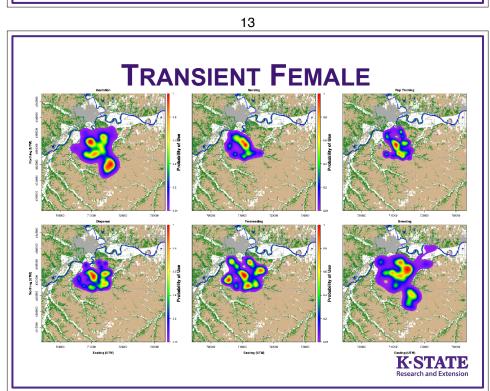


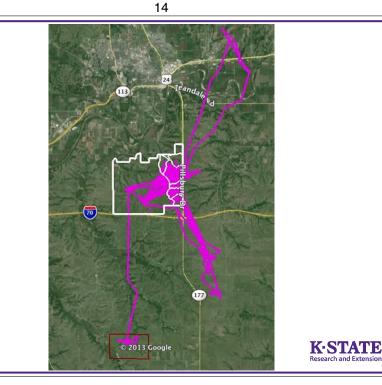
SOCIAL HIERARCHY

- Coyotes establish and defend territories to maximize reproductive fitness
- Resident coyotes are breeders, juveniles, and pups belonging to a family group and in possession of a territory that exhibit passive (i.e., scent marking) and aggressive (i.e., physical conflict) behaviors to exclude other coyotes
- Transient coyotes do not maintain territories and exhibit nomadic movements with no fidelity for a territory

K-STATE Research and Extension







FAMILY GROUPS

- Long-term genetic studies suggest lifetime pair bonds
 - Male and Female both defend the territory
 - Both participate in group howls
 - Both defend the den and care for pups
- Kansas study at Ft. Riley found 47% were Transients Kamler and Gipson
- Extremely hard to affect population numbers because of high transient numbers of transients and variable reproduction
 - Models indicate must kill > 70% of the population every year for 50 yrs to eliminate

K·STATE

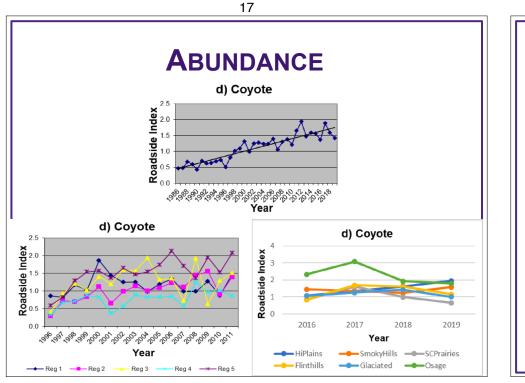
NATURAL HISTORY

- Do they hunt with badgers?
- Minta et al. 1992 coyote-badger pairs captured 1/3 more ground squirrels

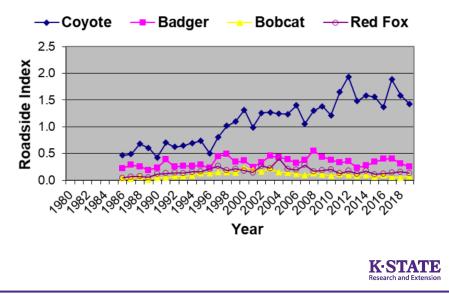


K-STATE Research and Extension





ALL PREDATORS



| FUR AUCTION RESULTS For 2/17/18 | | | | | | |
|------------------------------------|--------|----------|-----------|---------------------|----------|----------------|
| | # SOLD | TOP | AVERAGE | | | |
| BADGER | 14 | \$22.50 | \$6.42 | | | |
| BEAVER | 46 | .\$9.50 | 4.26 | | | |
| BOBCAT | 151 | \$170.00 | 43.07 | | | |
| COYOTE | 261 | \$65.00 | \$25.42 | | | |
| GREY FOX | 0 | 0 | | FUR AUCTION RESULTS | | |
| MINK | 1 | \$5.50 | | | 2/16/19 | |
| MUSKRAT | 168 | \$3.25 | | # SOLD | ТОР | AVERAGE |
| OPPOSSUM | 48 | \$0.35 | BADGER | 3 | \$18.00 | \$12.83 |
| OTTER | 5 | \$35.00 | BEAVER | | | |
| RACCOON | 593 | \$7.00 | BOBCAT | 43 | \$105.00 | \$39.59 |
| RED FOX | 2 | \$12.00 | Соуоте | 156 | \$75.00 | \$32.16 |
| SKUNK | 15 | \$0.75 | GREY FOX | 150 | \$75.00 | \$52.10 |
| NOODCHUCK | 0 | 0 | | | | |
| | | | MUSKRAT | 18 | \$2.00 | \$1.83 |
| | | | OPPOSSUM | | | |
| | | | OTTER | | | |
| | | | RACCOON | 186 | \$8.50 | \$4.25 |
| | | | RED FOX | | | |
| | | | SKUNK | | | |
| | | | WOODCHUCK | | | |
| | | | | | | K·STATI |

21

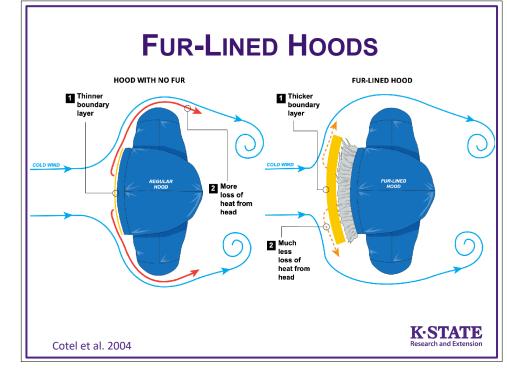
EUD DDICES

FUR-LINED HOODS

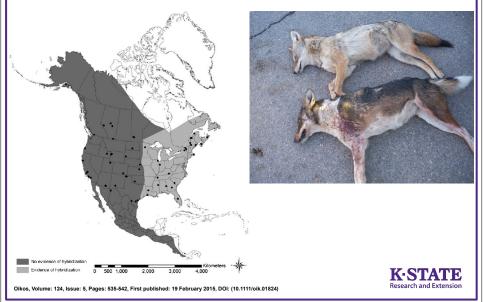


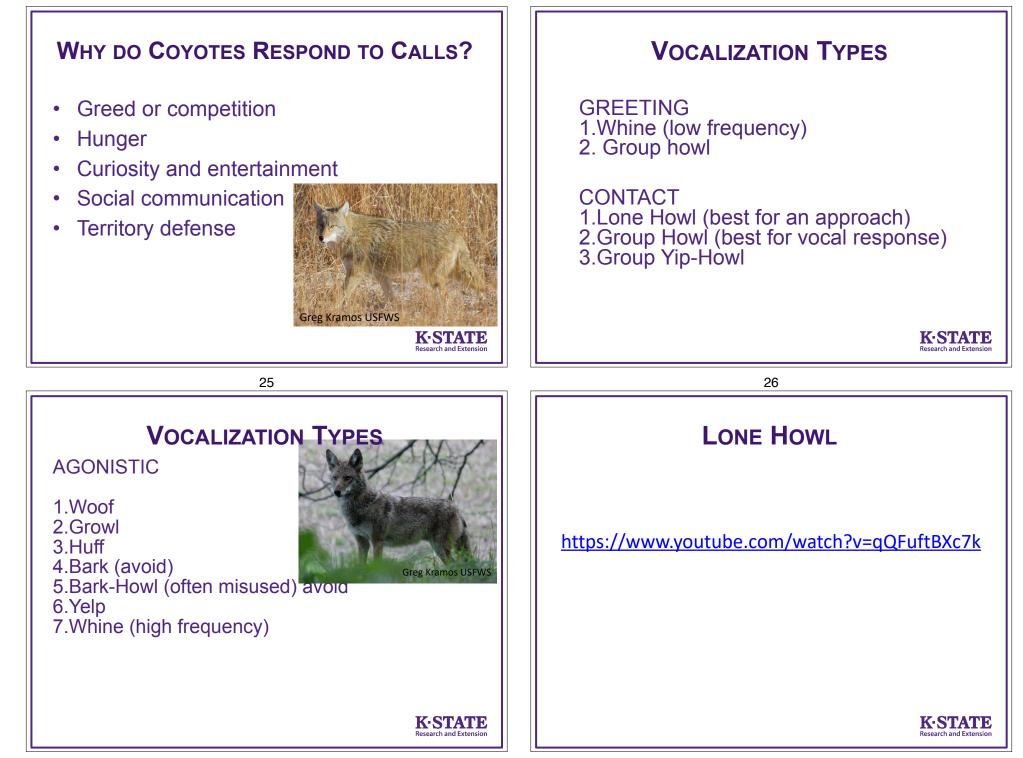
K-STATE Research and Extension

22



HYBRIDIZATION







SHOOTING AND CALLING

- Legal equipment •
 - Firearms, except fully automatic
 - Archery equipment
 - Calls, Lures, Bait, and Decoys
 - Coyotes and furbearers may be taken at night without the aid of artificial light or light amplification devices during the legal season (no closed season for coyotes)
 - Vehicles and radios may be used while taking coyotes

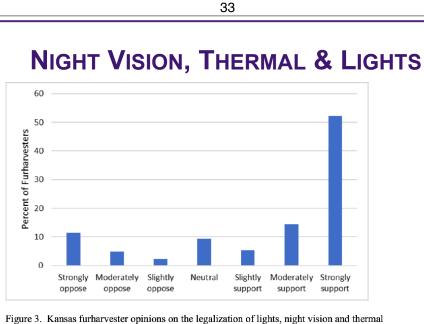
SHOOTING AND CALLING

- New for 2021 •
 - Night vision/thermal scopes and artificial lights
 - Coyotes only
 - Only during January 1 March 31
 - Requires \$2.50 Night Vision Equipment Permit
 - Use of vehicle is not permitted when using lights and night vision
 - Not allowed on department lands and waters, including WIHA and iWIHA properties

K·STATE



34



imaging equipment to hunt coyotes at night in Kansas (n=1170).

NIGHT VISION, THERMAL & LIGHTS

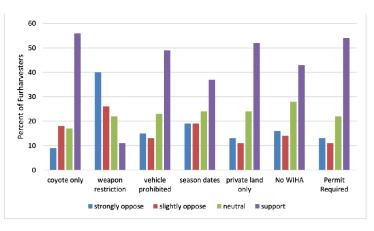


Figure 5. Opinion by Kansas furharvesters on potential restrictions to night hunting in Kansas with lights, night vision and thermal imaging equipment.



K-STATE Research and Extensio

COYOTE CALLING

• Find an elevated position and quietly approach from downwind



COYOTE CALLING

Call into the wind towards draws and other cover that holds coyotes



38

COYOTE CALLING

37

- Call types
 - Open reed
 - Closed reed
 - Diaphragm
 - Electronic

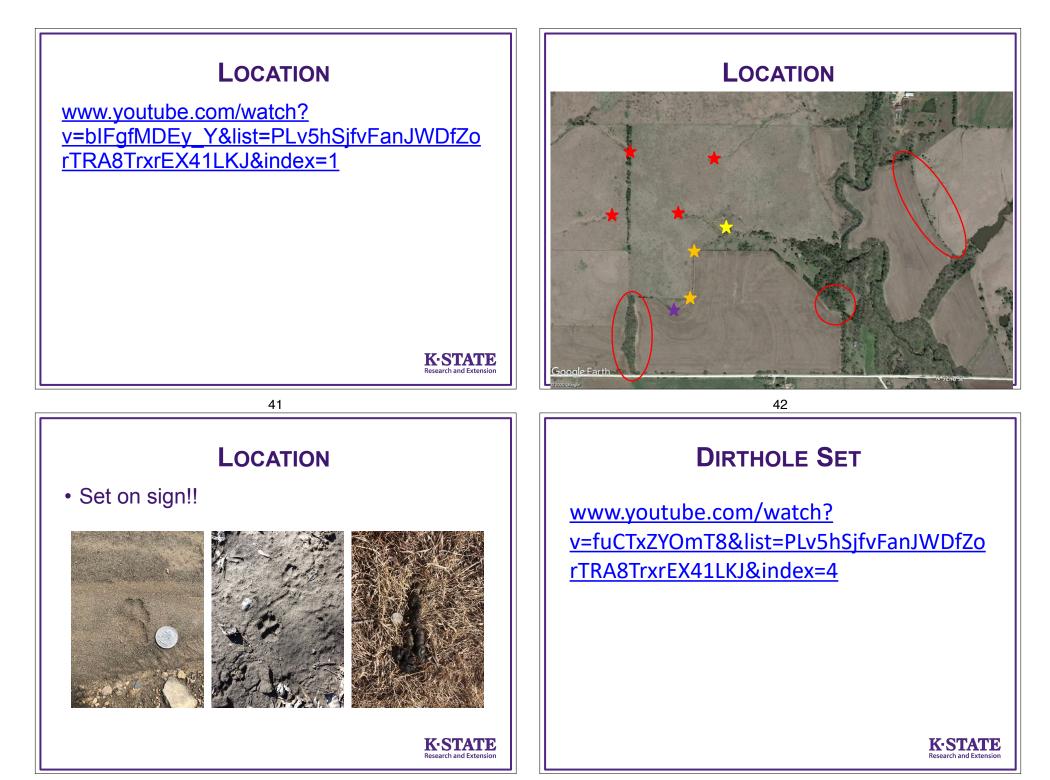
TRAPPING AND SNARING

- Legal equipment
 - .17 and .22 caliber rimfire rifles and handguns may be used to dispatch trapped animals when using a light
 - Foothold traps used in land sets must have a jawspread of 7" or less and smooth jaws
 - Bodygripping traps must have a jawspread of less than 8"
 - Snares may not be set within 50' of a roadway except by landowner, tenant, immediate relatives, or authorized agents.



39

K-STATE



FLAT SET

www.youtube.com/watch? v=QRcUvwmGtHk&list=PLv5hSjfvFanJWDfZ orTRA8TrxrEX41LKJ&index=5

45

K-STATE Research and Extension

QUESTIONS?

Drew Ricketts 785-307-3831 arickett@ksu.edu www.wildlife.ksu.edu YouTube: www.youtube.com/channel/ UCoCUoT3Oi90S5zDnzgL34iA Facebook: www.facebook.com/ ksrewildlife (@ksrewildlife)

> K-STATE Research and Extension

46