

# BACKGROUND TO MNISI COMMUNITY



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## BACKGROUND

- ANIMALS
- Domestic animal: 12000 cattle, 3000 goats, 400 pigs, 4000 dogs, cats, donkeys and poultry
- Wild animals: Big 5 in KNP and surrounding parks and antelope and small carnivores outside of park
- PEOPLE
- 40 000
- Mnsi and Amashangana tribes
- Low to middle class
- Livelihoods: subsistence farming, government grants, migrant labour and local employment
- 1050 cattle owners
- 630 goat owners



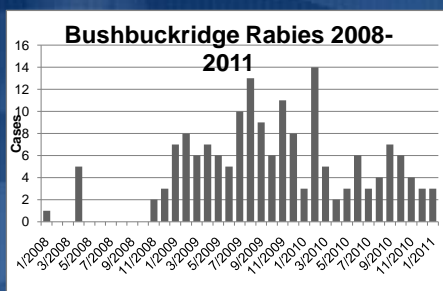
## BACKGROUND

- 1 Animal Clinic
- 5 Human Clinics
- 2 villages 100% household survey
- 850 households
- ¼ households have dogs and 1/20 have cats
- 35% of dogs less than year old
- 36% vaccinated last year
- 1:10 dogs to people
- 5 dog bites/1000 people/year
- 40% households had chickens

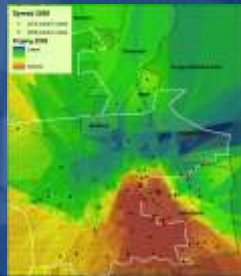
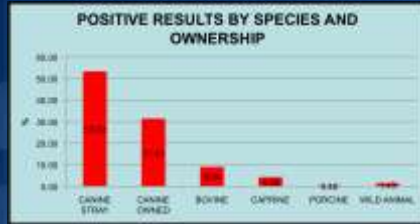


## RABIES

- Outbreak 2008-2011
  - 380 samples
  - 210 positive

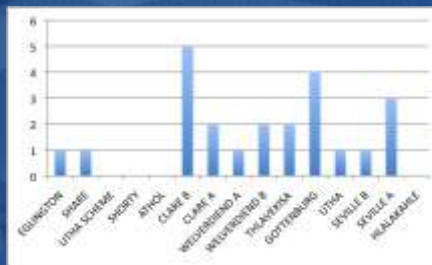
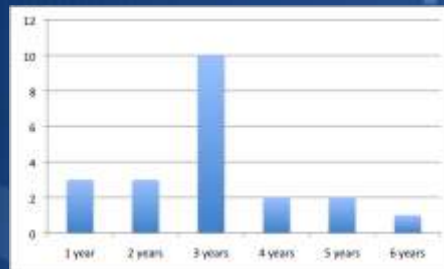


## RABIES



## BRUCELLOSIS

- Heifers vaccinated S19
- Cattle 11% sample
- 1482 Samples, every tenth animal
- 1.4% RBT +
- 1.5% ELISA +
- 10% male



## PRIMARY HEALTH CARE CLINICS

- 5 clinics
- 1000-2000 visits/month
- 25% under 5 years of age
- Welverdiend clinic
  - 275 cases with malaria symptoms/year
  - 1.4% positive for malaria
- HIV
  - Mpumalanga (MPL) Human Immunodeficiency virus (HIV) prevalence of 15.2 % (2008)
  - MPL Antenatal prevalence of 35.5 % (2008)



## THANK YOU

- Mpumalanga Veterinary Services
  - Dr O Rikhotso
  - Dr B Renninghuis
- University of Pretoria
  - Dr L van Schalkwyk
  - Dr A Michel
  - Department of Veterinary Tropical Diseases
- Mpumalanga Department of Health
  - Clinic supervisors and sisters



## Zoonotic Diseases in Mnisi Residents –proposed study

- Why investigate?
- Which zoonoses?
- How?
- Limitations?

## Zoonoses

- Rabies
- Tick-bite fever
- Q fever
- Leptospirosis
- Salmonellosis
- Brucellosis
- Bovine TB
- Toxoplasmosis

# Methodology

- Hospital and clinic record review
- Syndromic approach
- Serosurveys
- Acute febrile- illness investigation

## Challenges and limitations

