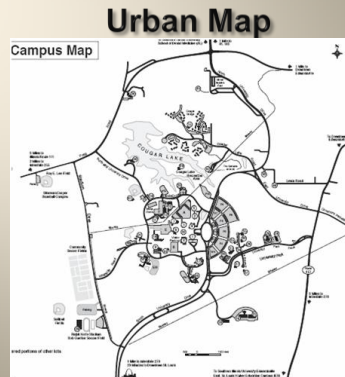
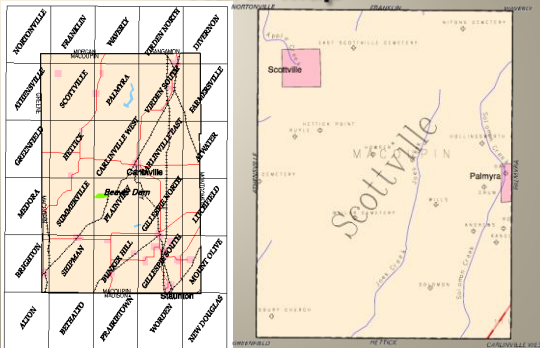


# MAMMALS BEHAVIOR AND CONCENTRATION IN URBAN SETTINGS VS. RURAL SETTINGS

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Senior Assignment



## Rural Map



## Intro

- ▣ How do the mammals react in their original environment?
- ▣ How do mammals react when their environment is altered?
- ▣ How do mammals react when humans enter their environment after they have been surrounded by houses?

## Objectives

- ▣ Sample the variants in
  - Habitat
    - ▣ Prairie
    - ▣ Pasture
    - ▣ Wooded
    - ▣ Around a water source
- ▣ This observations will be done at both places
  - The Farm in North Macoupin County
  - Southern Illinois University Edwardsville

## Methods

- ▣ Set a transect to follow
- ▣ Set marks along the transect to measure the distance between animals
- ▣ It does not have to be a straight line
- ▣ Walk at the same speed every time at both places

## Methods

- ▣ M. Aparecida Lopes and Stephen F. Ferrari
  - Conservation Biology. Effects of human Colonization on the Abundance and Diversity of mammals in Eastern Brazilian Amazonia
  - They did the same type of study with monkeys in Brazil

## Mammals observed

- ▣ Whitetail Deer
- ▣ Squirrel
- ▣ Rabbit
- ▣ Coyote
- ▣ Raccoon
- ▣ Skunk
- ▣ Fox
- ▣ Chipmunks

## Mammals Sighted



## Mammals Sighted



## Observation

- ▣ Most common to Least common at Southern Illinois University Edwardsville campus
  - Whitetail deer: every time
  - Squirrel: every time
  - Rabbit: all but three times
  - Coyote: four times
  - Raccoon: two times
  - Fox: one time
  - Chipmunk: one time

## Observations

- ▣ Most common to Least common at North Macoupin county farm
  - Whitetail deer: every time
  - Squirrel: every time
  - Rabbit: all but four times
  - Coyote: just over half the time
  - Raccoon: seven times
  - Skunk: five times

## Reactions

- ▣ Mammals on Southern Illinois University Edwardsville Campus
  - Whitetail deer: kept doing what they were just moved in the other direction slowly
  - Squirrel: ran to the base of the nearest tree and watched
  - Rabbit: hopped on an average of 15 feet and stopped to watch
  - Coyote: ran off after it saw my movement
  - Raccoon: walked off but stopped and watched attentively as I walked off walk off
  - Red Fox: ran off at my movement
  - Chipmunk: ran underneath the nearest log when it saw me

## Reactions

- ▣ Mammals on North Macoupin County Farm
  - Whitetail deer: bounded and flagged out of sight after blowing to alert the others
  - Squirrel: ran up the nearest tree and started barking then went farther away through the tree tops
  - Coyote: took off as soon as it saw my movement
  - Rabbit: took off and ran out of sight
  - Raccoon: ran off once it saw my movement
  - Skunk: ran to a pushed up brush pile for shelter

## Results

- ▣ The mammals on Southern Illinois University Edwardsville Campus acted more casual and less frightened by me being in their environment.
- ▣ The mammals on the North Macoupin County act drastically different the Southern Illinois University Edwardsville campus mammals. The are very frightened and run off out of sight.

## Conclusion

- ▣ When observing mammals in Central Illinois or monkeys in the Brazilian forest the same methods and techniques can be used.
- ▣ My observations of the two different areas in Illinois have shown different reactions from the mammals as well as the differences in frequency sightings of each mammal
- ▣ The results from the observations were when an environment is changed the mammals have to change to adapt to there environment and the people are changing it.

## Conclusion

- ▣ Various species were seen at both locations at different times
- ▣ The frequency of the sightings on average were about the same for the majority of the species

## References

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