

# Expanding Cities Encroach on the Wildlife

The difficulties that wildlife has from cities taking over their territory.

A focus on coyotes in Tucson, Arizona

Tiffany Schendel  
Marian University  
IGSS



[http://www.walnet.org/s\\_tanley\\_woods/brushwol\\_vz/vansun-000504.html](http://www.walnet.org/s_tanley_woods/brushwol_vz/vansun-000504.html)

# Where do coyotes make their home?

- Natural home:
  - North America
  - Adapt to most climates
- New home in cities
  - Washes
  - Golf courses
  - Residential areas
  - Parks



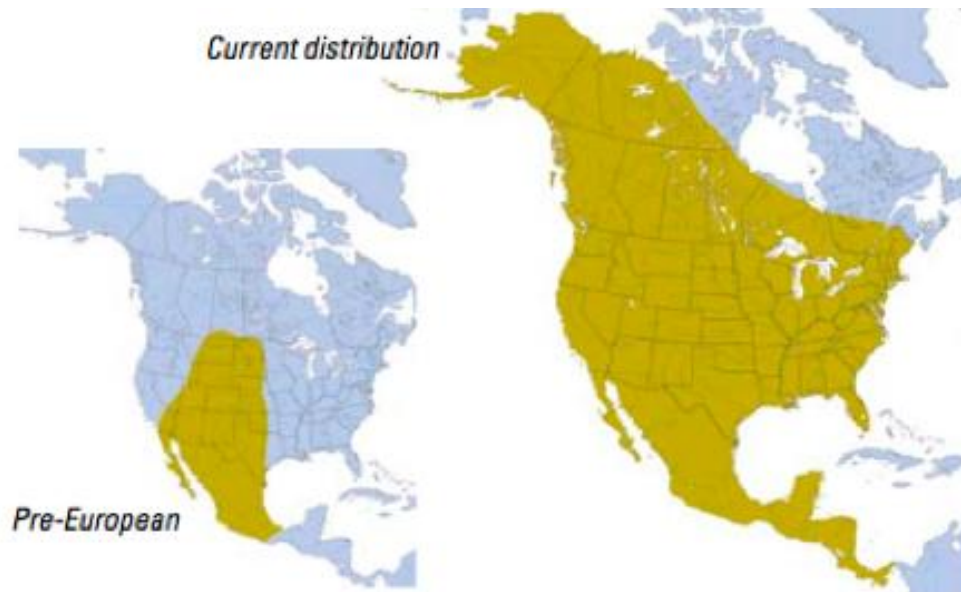
<http://feraenaturae.net/2011/06/15/the-growing-urban-coyote-problem-and-local-management-strategies/>

# What coyotes need to eat

- Small mammals
- Vegetables
- Fruit
- Cats on occasion in residential areas

# What is a coyote home range?

- Area where packs hunt
- Generally consisted of 6 coyote adults
- Dig burrows (if possible)
- Move around at different times of day



<http://feraenaturae.net/2011/06/15/the-growing-urban-coyote-problem-and-local-management-strategies/>

# Why is this important?

- Sustaining North American wildlife
- Human/coyote conflicts
- Education
- Safety



# Sustaining the coyote's environment

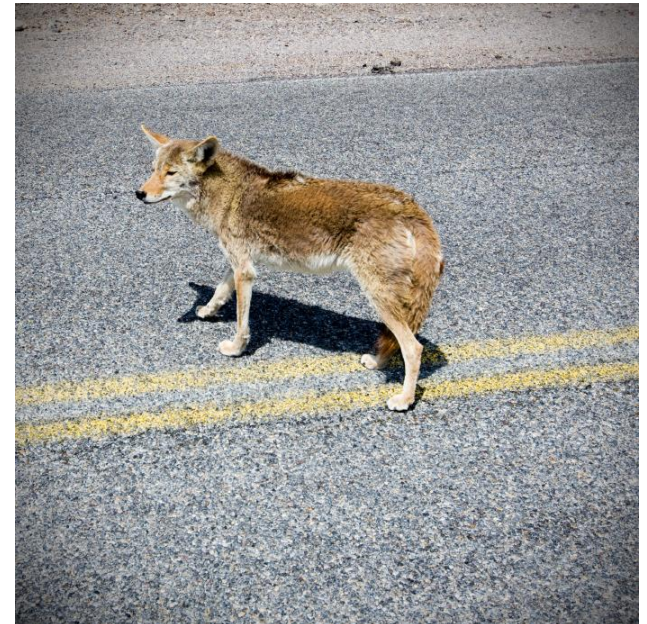
- Knowing their home ranges
- Protection from humans
- Keeping parks/land preserves



<http://makemag.com/the-silver-colored-yesterday/urbanfrontier/>

# Human/coyote conflicts

- Expanding cities take over home range
  - Coyotes are in residential areas
  - In closer contact with humans
- Coyotes exposed to highways
  - Drivers hitting coyotes



# Human/coyote conflict con't

- Humans invading coyote home range
- Coyotes get disturbed and defensive
- Results in hunting coyotes in cities



<http://mainehuntingtoday.com/bbb/2007/11/12/number-of-coyotes-trapped-in-maine-continues-decline-mdifw-gives-incomplete-excuses/>



# What is habitat disturbance?

- Change in animal's natural environment
  - Small changes (humans slowly moving out of city)
  - Which leads to harder to adapt changes
- Range from ecosystem changing because of plant changes to human interactions



[http://en.wikipedia.org/wiki/Disturbance\\_\(ecology\)](http://en.wikipedia.org/wiki/Disturbance_(ecology))

# How does disturbance hurt animals?

- Harder to find food
- Humans can hurt their ecosystem
  - Removal from it
  - Destroying it
- Stress levels (from hormones) are raised
- Physical problems



[http://www.scribblesfromla.com/2006\\_03\\_01\\_scribblesfromla\\_archive.html](http://www.scribblesfromla.com/2006_03_01_scribblesfromla_archive.html)

# Pros/cons to the primary paper

- Looks at a wide variety of data
- Presented data in different ways to better analyze it
- Discussed their data well
- However did not discuss the further impacts of coyotes

# The greater impact

- This study gives good indication to where coyotes live
- This will help protect them and humans
- In the future
  - More studies should be done on why
  - What makes coyotes live in certain areas



<http://www.ucalgary.ca/news/june2009/alexander>

# QUESTIONS?



[http://www.projectcoyote.org/newsreleases/news\\_coycoyote.html](http://www.projectcoyote.org/newsreleases/news_coycoyote.html)