DIVISION OF WILDLIFE

Today's Coyotes

Life History and Living with Wildlife

Brett Beatty-Wildlife Management Supervisor



What we will cover

- Who is ODNR Division of Wildlife
- Ohio laws pertaining to wildlife species
- Coyote Biology and Life History
- Conflict prevention/resolution
- Resources for more information

Wildlife Ownership

ORC 1531.02 - wildlife in the state is held in public trust for the benefit of all the people by the DOW.

Although the DOW has management authority on all wild animals within the state:

- USFWS regulates animals that routinely migrate between states.
 - (waterfowl, shorebirds, songbirds, hawks, owls)
- Local ordinance may restrict management tactics such as hunting, trapping, electric fences, pyrotechnics, etc.

ODNR Division of Wildlife

- Manages wildlife by researching wildlife populations, setting fishing, hunting, trapping seasons, methods of harvest, and enforcing laws
- Owns over 200K acres of Wildlife Areas and cooperatively manages several hundred thousand additional acres
- Primarily funded through sales of hunting, fishing, & trapping licenses and excise tax on firearms/ammunition and fishing equipment
- ~400 employees statewide (fish/wildlife biologists & techs, law enforcement, info & education, etc.)



District 1: Central Ohio 1500 Dublin Road Columbus, Ohio 43215 (614) 644-3925

District 2: Northwest Ohio 952 Lima Avenue Findlay, Ohio 45840 (419) 424-5000

District 3: Northeast Ohio 912 Portage Lakes Drive Akron, Ohio 44319 (330) 644-2293 District 4: Southeast Ohio 360 E. State Street Athens, Ohio 45701 (740) 589-9930

District 5: Southwest Ohio 1076 Old Springfield Pike Xenia, Ohio 45385 (937) 372-9261

Wildlife Conflict Summary

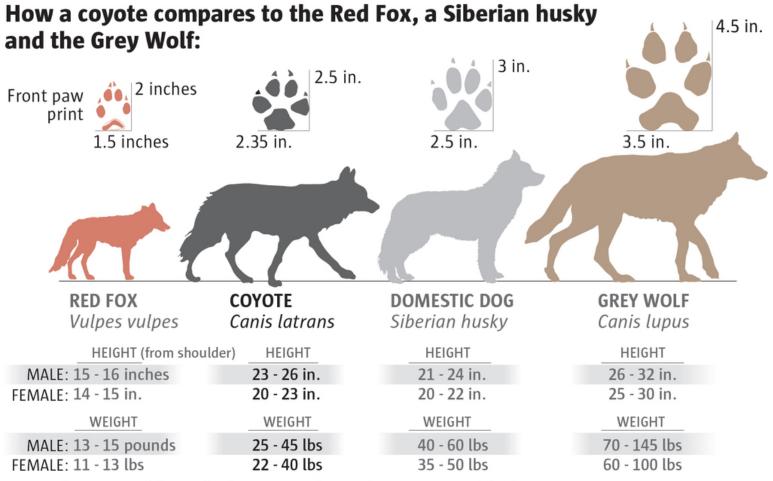
- Division acts in an advisory capacity
- We do not provide animal removal services
- We will respond if situation warrants (public safety or endangered species)
- Property owners must take a direct role in what occurs on their property
- State and local restrictions

Nuisance Animal Laws

Wildohio.gov

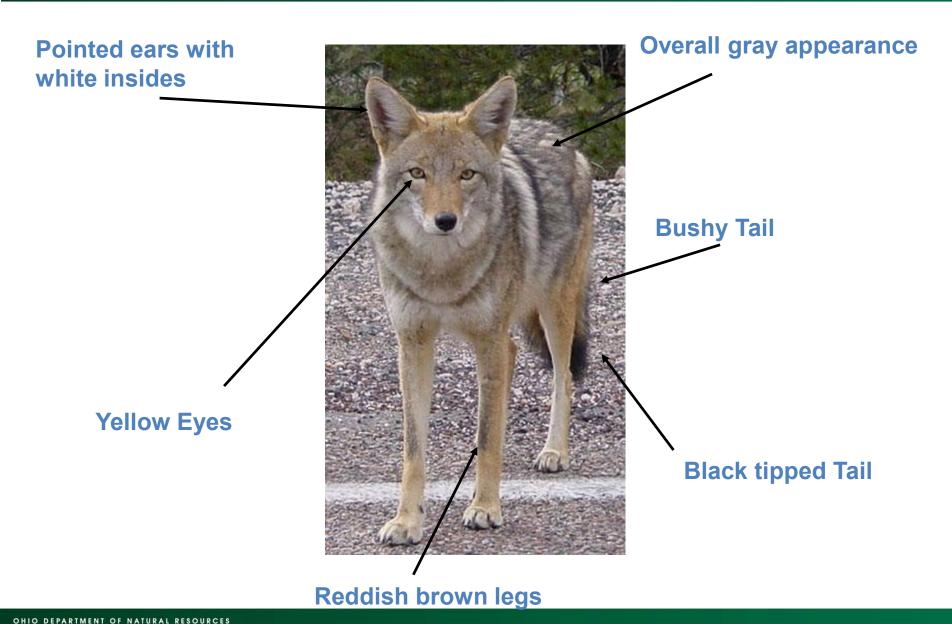


Is that a coyote?



Sources: arkive.org, animals.howstuffworks.com, nationalgeographic.com, waza.org, defenders.org, vetstreet.com

Is it a coyote?



Or Something Else?











Wolf

Coyote

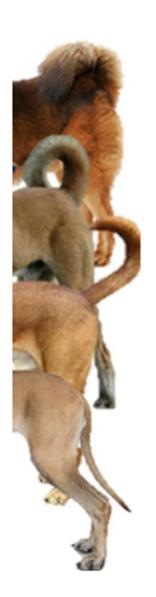
Jackal

Fox





Dog Tail











Color Variations







Have you heard me before?



- Use vocalization as a means to indicate territory and to locate other members of the family unit
- Exhibit many types of vocalizations
- Woof
- Growl
- Huff
- Bark
- Yelp
- Whine

"Sounds like 50 'yotes!"

- coyote pack.mp3
- Texas study Brewster, et. al., 2017
- 427 participants
 - Most participants were able to discern the addition of coyotes to the recording
 - Only 11% correctly estimated the number of coyotes (mostly 1 or 2 coyotes)
 - Routinely overestimated the number of coyotes by nearly 2-fold
 - <3% could correctly discern if 3 or more coyotes were howling



Distribution and Abundance









Figure 2. Ohio counties with reported coyote encounters, game protector survey, 1978–81.



FIGURE 3. Ohio counties with verified coyote and coydog collections, 1982--88.

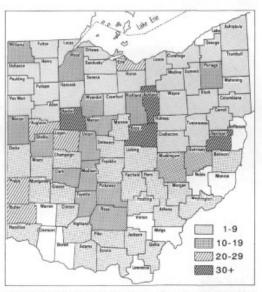


FIGURE 4. Combined county distribution of coyote reports in Ohio, 1919–88.



Coyote Relative Abundance, 1990-2015

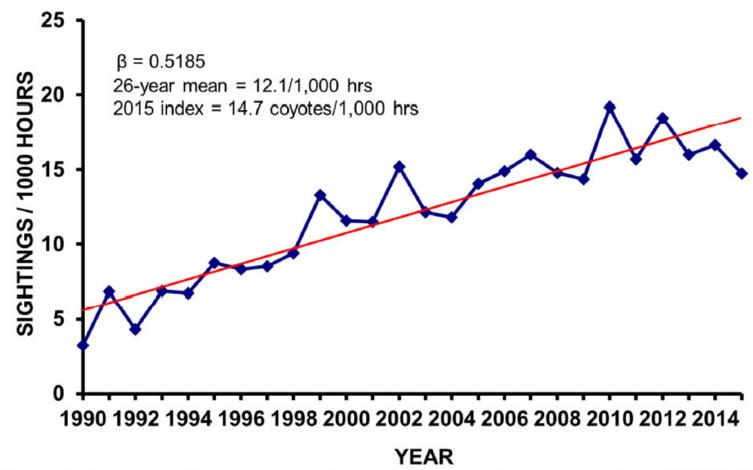
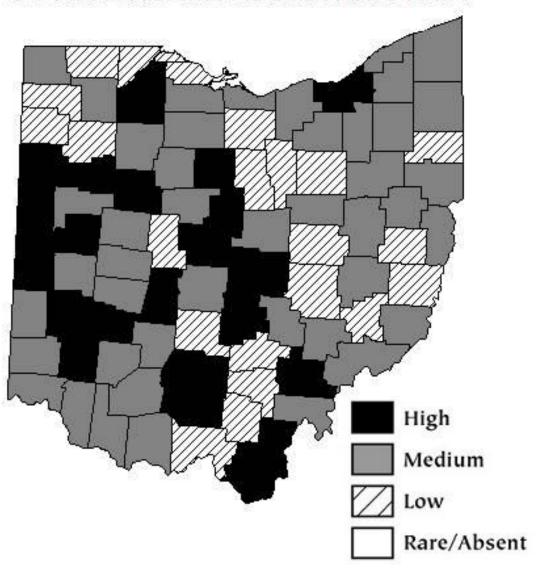


Figure 2. Coyote relative abundance based on bowhunter survey indices, 1990-2015.



COYOTE RELATIVE DISTRIBUTION





Habitat







- Typically prefer open areas such as prairie and desert
- In urban areas prefer wooded patches and shrubby areas that provide shelter to hide from people
 - Use remaining habitat fragments such as those found in parks and golf courses



Den Sites





Reproduction

- Breeding occurs January March
- Gestation approx. 63 days
- Litters April & May
- Litter sizes often vary (2-15 pups)





Reproduction Roles

- FEMALE solely responsible for the den site
- MALE takes lead role when pups are newborns, obtaining food for his family unit



Behavior

- At about 3 weeks, the young cautiously venture out.
- At about 8 weeks, the pups start learning to be a coyote



Behavior

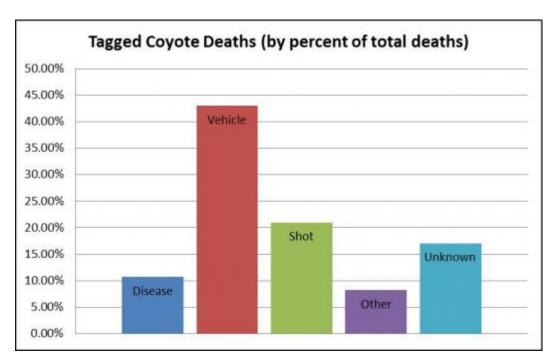
- Family unit stays close into midfall.
- The young will develop territories of 10-100 miles away.
- Young males are run off by the alpha male.





Life Span and Cause of Death

- Approx. 3 years in the wild
- Can live 12-15 in captivity
- Greatest cause of death in rural areas is due to hunting and trapping



Cook County, Illinois - Breakdown of 281 radiocollared coyote deaths (years 2000 to 2014)











Diet

Table 1. Frequency of Food Items in the Diets of Coyotes in Cook County, Illinois.* Gehrt 2006

Diet Item Occurrence

Small rodents 42%

White-tailed deer 22%

Fruit 23%

Eastern cottontail 18%

Bird species 13%

Raccoon 8%

Grass 6%

Invertebrates 4%

Human-associated 2%

Muskrat 1%

Domestic cat 1%

Unknown 1%

* Based on the contents of 1,429 scats collected during 2000-

2002. Some scats contained multiple items; therefore, the percentages exceed 100%. See Morey 2004.

Myth #1 - Weigh over 65 pounds

False – Average 35 pounds (Range 20-45 pounds)



4-7 pounds



14-18 pounds



20-30 pounds



55-75 pounds



Myth #2 - Mate for life

Mostly True – Will mate for life (will re-mate if one dies)





Always exceptions to the rule.

Not many things in nature are concrete.

Myth #3 — Hunt in packs

Mostly False – Coyotes are solo hunters









Myth #4 – A coyote out during the day is sick/rabid

False – Coyotes will feed during the day even though they are primarily nocturnal (especially in cities)



Myth #5 – The Division of Wildlife reintroduced coyotes

False – Coyotes are very adaptable thus leading to range expansion





Myth #6 – Coyotes will attack my kids

False – Coyote attacks on people are very rare

- 3-5 injuries/year across North America
 - All cases associated with feeding

Species	Injuries/yr in US	Fatalities/yr in US
Rodents	27,000	?
Snakes	8,000	15
Skunks	750	0
Bears	30	1
Sharks	28	.5
Alligators	18	.5

 Only 2 reported fatalities since recordkeeping began (pre-1960)



Domestic Dog Bites

- 4.5 million dog bites/year
- Resulting in 3.6 million injuries/year due to dog bites
- 41 fatalities in 2016 alone
- Breed most responsible for bites:



Source: Center for Disease Control



Myth #7 – Coyotes will attack my cats

True – Coyote will occasionally attack cats









Dog Interactions

- View dogs as competition
- Dog size and behavior can dictate coyote response
- Will attack a dog if threatened or being protective





























Co-existing with Coyotes

- Coyotes are not going away
- Don't create a conflict where it doesn't exist
 - Just seeing a coyote does not mean it's behaving badly
- Modifying human behavior is the best way to reduce conflicts with coyotes



Co-existing with Coyotes

- Eliminate attractants on your property
 - Bird Feeders
 - Pet Food
 - Garbage
 - Grill

DO NOT FEED!
(directly or indirectly)





Co-existing with Coyotes

- If a coyote is causing a problem:
 - Focus attention on problem animals



- Harassment/Hazing is the key to avoid individual encounters
 - Yell, clap your hands, throw something towards it
- Turn on porch lights at night
- Keep animals on a leash and close to the house
- Bring animals in at night

If you do nothing, you will continue to have issues!

	Responses
LOW	Limit food sources (garbage, pets feeding, wildlife feeding) Supervise pets and don't let them run free
CON	Use hazing, negative stimuli (shouting, chasing, throwing objects)
CERN	Consider removal program in conjunction with education; prohibit/limit feeding of wildlife; supervise pets; use negative stimuli
HIG	Initiate removal program in conjunction with education; prohibit/limit feeding of wildlife; supervise pets; use negative stimuli
	LOW CONCERN HIGH



Problem Animals







Must be euthanized or let go on-site if trapped



Problem Animals

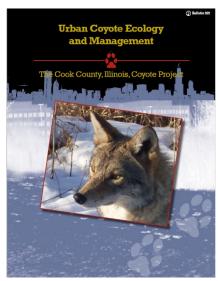


- Allow hunters and trappers access to your property
- Very liberal regulations regarding harvest of coyotes
 - Currently no closed season or bag limits



Resources

- www.wildohio.gov
 - General nuisance animal information
 - Nuisance trapper contacts
- www.urbancoyoteresearch.com
 - All things coyote biology and ecology
 - Conflict resolution information





In urban settings, most conflicts with counter

Below are steps an individual can take to preven

- Supervise Children When Outs
- Do Not Let Pets Run Loose
- Do Not Run from a Coyote
- Report Aggressive, Fearless Coyotes Imp
- Remember, individual actions to prevent conflicts ill be most effective when coordinated across a

Because human behaviors and attitudes are us

PREVENTING HUMAN-COYOTE CONFLICTS Community-level coyote management programs are often coordinated by municipalities. local and state associations and/or local wildlife or public safety

Below are common components of cor



Resources

- D-5 Office
- (937)372-9261
- General Information
- 1-800-WILDLIFE

- Report Poaching
- 1-800-POACHER





Take Home Points

Coyotes aren't "good" or "bad" they just are.

 They are just wild animals surviving in a human dominated world

 It's up to us to modify our behavior to limit negative interactions



Thank you for your time!



Brett Beatty-Wildlife Management Supervisor 937-372-9261