Tracking

MAMMALOGY 2019

Expectations for Today

- You will be expected to be able to:
 - Identify species based-off their tracks
 - Identify species based-off their scat
 - Describe common sign resulting from teeth
 - Recognize other types of sign and attribute them to appropriate species/taxa

Tracking

Tracking is goal oriented: what are you trying to track and why? e.g.:



- Assessing which scavengers have been eating carrion
- Determining which animals are damaging crops
- Assessing the presence of multiple species in an area
- As such, taking in the full picture and capturing as many details as possible is important

Common Types of Sign

- Tracks
- Scat
- Teethmarks
- Other environmental alterations unique to individual species or clades





Tracks

- Tracks footprints left by an animal that has passed through an area (typically left in mud, snow, or other malleable surfaces)
- Things to look for:
 - Symmetry
 - # and placement of toes
 - metacarpal/heel pad shape
 - Nails/claws
 - Negative Space





White-tailed deer



Feral Hog

Round and squat with dew claws angled out towards the outside of the hoof print.





Wild Hog



Pronghorn







Wild horse





Which direction are these tracks headed? Which set is a domestic horse?

Black Bear





Black Bear

Round front heel pad doesn't always show in tracks.





4½" L x 3¾" W

Front foot



Hind foot

7" L x 3½" W



Trail width: 14" Stride length: 18"



Trail Pattern



Canids

 Wild canids typically have narrower gait than domestic dogs





Bobcat





Front foot

2" L x 1 7/8" W



Hind foot

7/8" L x 1%" W



Trail width: 5" Stride length: 10"-13"

Trail Pattern



Mountain Lion





Canid vs. Felid Tracks

- Three key differences:
 - Claw marks in canids
 - "X" through center of canids
 - Single lobe in canids

*These aren't perfect indicators



Canid vs. Felid Tracks







Wolverine





alamy stock photo

EJA9Y6 w.alamy.com



Badger



FRONT















Muskrat







Beaver Tracks







Striped Skunk











FRONT



Mouse (*Peromyscus spp*.)









Rabbit

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Groundhog









Black Bear scat













Porcupine scat



Deer vs. Rabbit Scat



Felid vs. Canid



- Hair integrated in felids
- Segmented in felids

*Not perfect rules

Beaver scat

- Beaver scat is often hard to find because it is usually in the water
- It's also soft so it disintegrates quickly on land

Weasel scat

Teethmarks

- Many ungulates don't have upper incisors and rip vegetation
- Rodents typically clip off vegetation pinching between lower and upper incisors

Teethmarks

- Looking at the width and pattern of canine indentations can reveal predator types
- Mountain lions latch on, coyotes bite and tear, bears crunch straight through

Gray Squirrel / Fox Squirrel Drey (leaf nest)

Black Bear dens

- Excavated root systems
- Dense thickets
- Caves
- Tree hollows
- Entrances typically 18-23"

Fox dens

- Main entrance often has conspicuous mound of dirt
- Tracks and scat accumulate at main entrance
- Two entrances are common
- Similar to coyote dens, but smaller

Beaver dams, lodges, and tree cutting

- Made of woody debris and mud
- Typically surrounded by high water level from nearby dam
- Entrances are underwater

Raised water level Entrances Food store

Muskrat lodges

- Use soft material (cattails, reeds, other vegetation, and mud) to build lodges
- Typically build in shallow water

White-tailed Deer Bed

Deer Rub on Tree

 May favor trees with soft wood like pine

Feral Pig rooting

Black Bear Marking Tree

Vole Runways

- Same route used again and again
- Tend to form runways under cover
- May look like miniature dirt tracks

Sign to Know		Beaver
Tracks		Canid Deer
Badger	Pronghorn	Felid
Beaver	Raccoon	Porcupine Rabbit
Black bear	River otter	Raccoon Weasel
Cottontail Rabbit	Skunk	
Elk	Squirrel	
Fox	Vole	<u>Other Sign</u> Dens (Canid vs Bear) Lodges (Muskrat vs Beaver) Feral Pig Rooting More sign of your choosing
Mouse	Whitetail deer	
Muskrat	Wolverine	

Spring Creek Prairie

- Next week, field trip to Spring Creek Prairie
- Who's coming?
- Please fill out a waiver before leaving class

