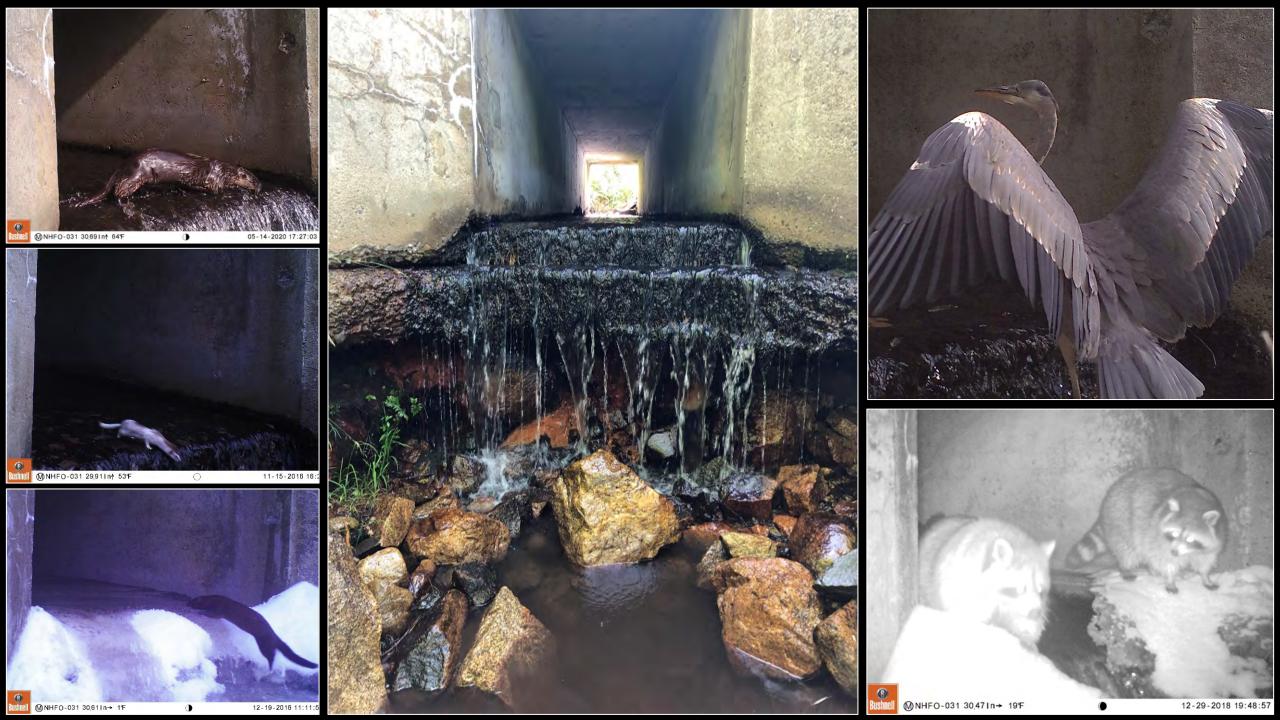


Outline

- Why use Wildlife Cameras?
 - For Wildlife Crossings
 - For Land Protection
 - Supporting the Protection of Wildlife Corridors
- Wildlife Cameras: the basics
 - Equipment
 - Settings
 - Setup
- Questions/Discussion (ASK ALONG THE WAY!)







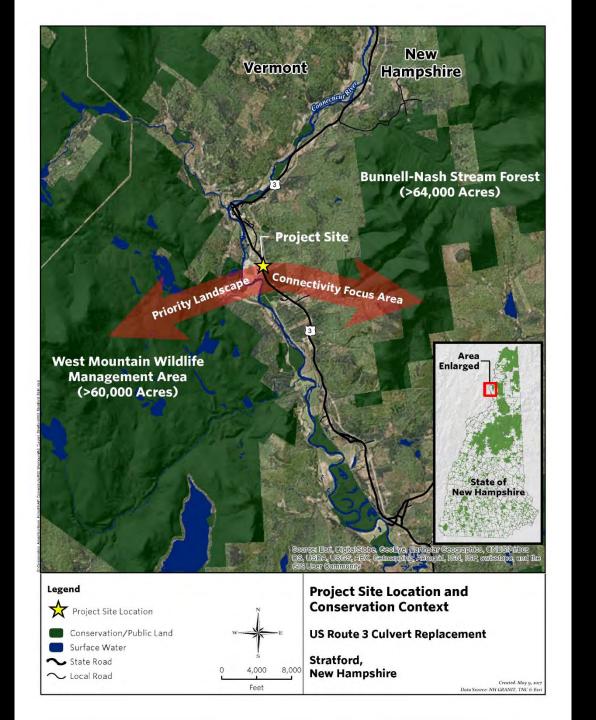


















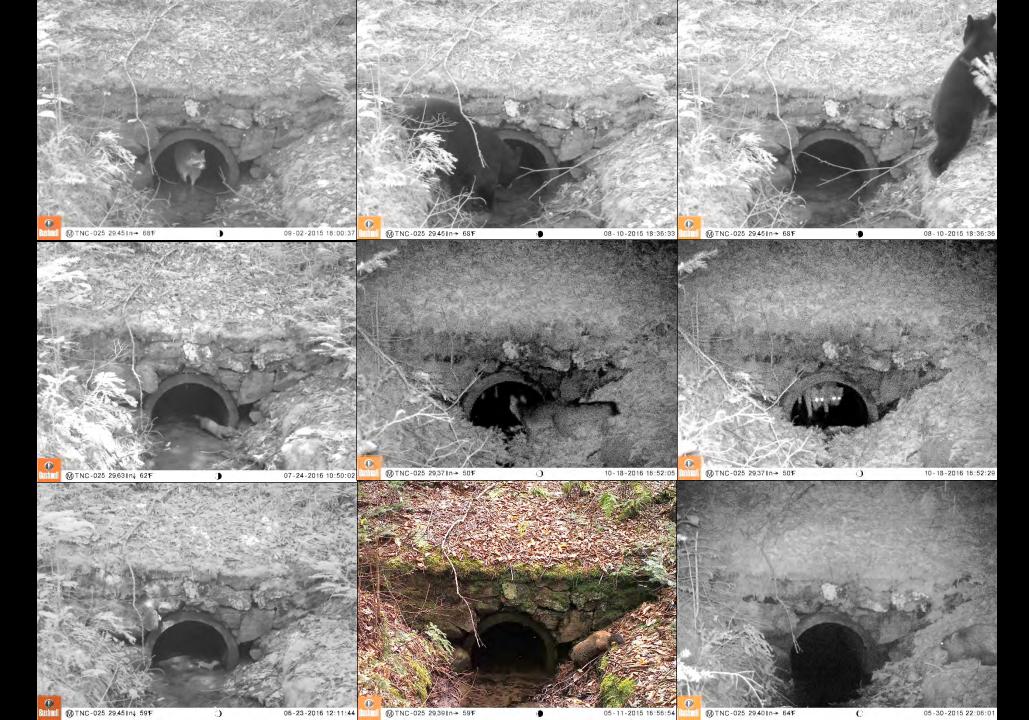


Wildlife Camera Studies in Vermont



Rearly Squeezing





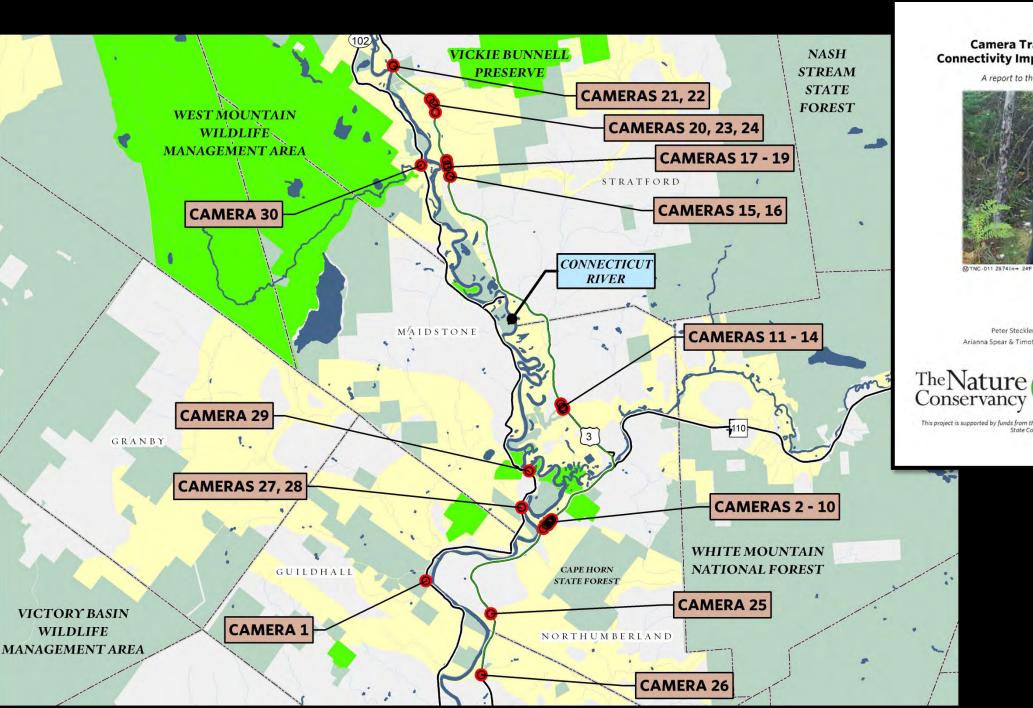


Large Culverts w/ Fencing: 48" round culvert



Summation of Wildlife Passage at Road Crossings Thanks to Wildlife Cameras

Size Class	Structure	Species
Small underpass	Pipe, box, and arch culverts; 3-6' wide and < 8' height	Mink, otter, long-tailed weasel, groundhog, raccoon, skunk, fox, fisher, bobcat, coyote, black bear, Canada lynx, pine marten
Medium underpass	Larger culverts between 5' and 8' width and >8' height	SAME AS ABOVE + <u>deer</u>
Large underpass	Bridge spans, large culverts > 10' wide, > 8' high	SAME AS ABOVE + moose



Camera Trapping to Advance Wildlife Connectivity Implementation in Coos County, NH

A report to the SCC Conservation Grant Program



April 22, 2016

Conducted by:

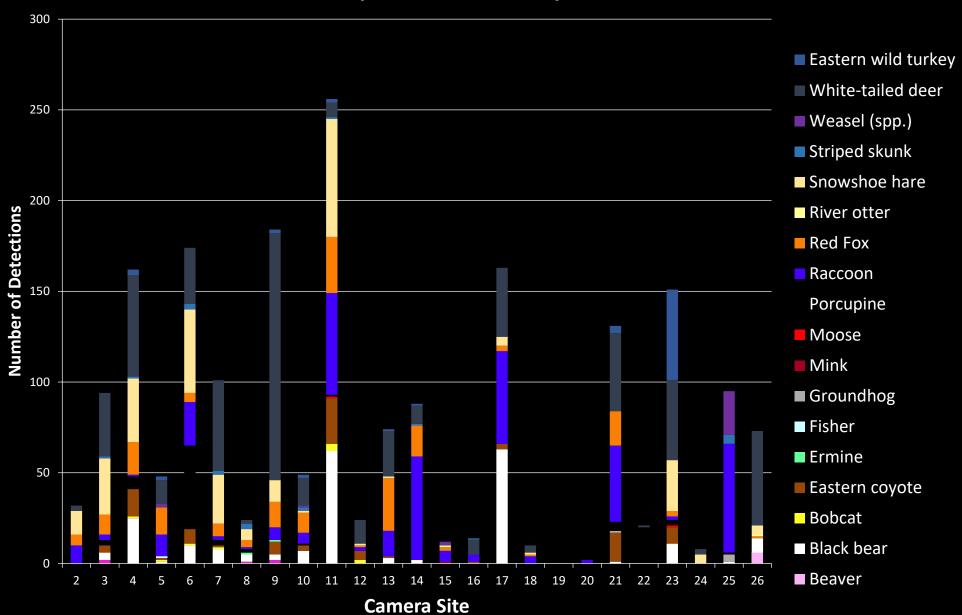
Peter Steckler, The Nature Conservancy, NH Chapter Arianna Spear & Timothy Norton, University of New Hampshire Interns





This project is supported by funds from the sale of the Conservation License Plate (Moose Plate) through the NH State Conservation Committee grant program.

Species Detections by Site









Understanding Wildlife

Corridors



Wildlife Camera Equipment Basics

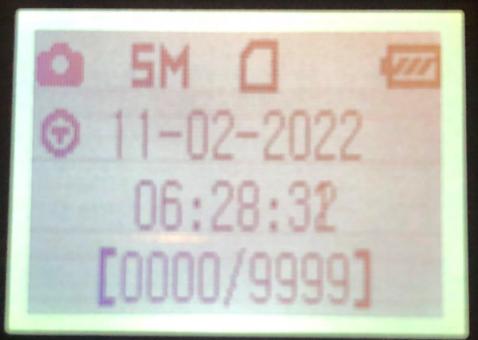
- Camera
- Lock Box
- Cable Lock (+ keys!)
- SD Card (2)
- Batteries (Lithium)
- Fastening hardware
 - Lag bolts + drill with bit
 - Strap (caution!)
- Equipment bag with WD-40, bolt cutters, hatchet/ loppers/machete, SD Card reader



Wildlife Camera Basics

SETTINGS





Bushisi

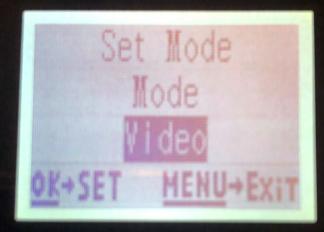
Set Mode

Mode

Camera

OK+SET MENU+Exit

Bushnell



Set Mode
Image Size

MENU+EXIT

Bushing

Capture Number

MENU+Exit

Bushille

Set Mode
LED Control
MENU-Exit

Bushing

Set Mode
Camera Name

*SET MENU→Exit

Bushinal

Set Mode
Video Size

1280x7/20

OK+SET MENU+Exit

Bushille

Set Mode
Video Length

OK+SET MENU→Exit

BUSHIB

Set Mode
Interval

OK+SET MENU+Exit

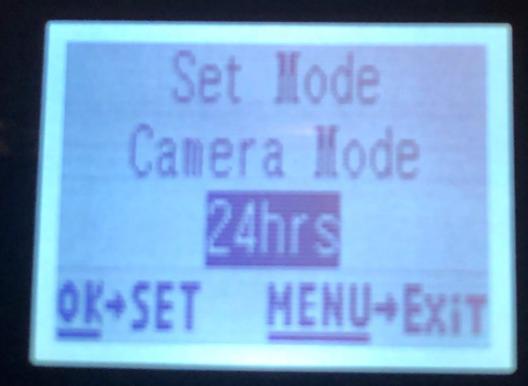
Set Mode
Sensor Level

OK+SET MENU+Exit

Set Mode

NV Shutter

OK+SET MENU+Exit



Set Mode
Format

Execute

OK+SET MENU+Exit

BUS III BU

Set Mode
Time Stamp

OK+SET MENU+Exit

Sushnell



Bushnell

Field Scan

OK+SET MENU-EXIT

Bushnell

Coordinate Input

OK+SET MENU+Exit

Bushnall

Set Mode
Video Sound

OK+SET MENU+EXIT

Wildlife Camera Basics

SETUP

What are your data collection goals?



Approach

- Site Identification
 - Site Diversity
- Site Permissions

- Constraints:
 - → Mounts, vegetation, false trigger management, theft avoidance
- Photo Cataloging

File Name, Date, Time, Air Pressure, Temperature (Fahrenheit), Moon Phase, Species (Common Name), Confidence, Number of Animals, Direction of Movement, Weather, Cataloger Name, Comments

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Learning as you go

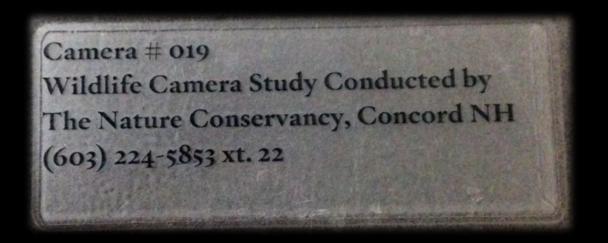


Wildlife Cameras: Lessons Learned! (1)

Label your equipment!

- o Camera number on each:
 - Camera
 - Lockbox
 - SD card
 - Key
- Your contact information





Wildlife Cameras: Lessons Learned! (2)

Camera setup – take your time and to get the shot you want!



Wildlife Cameras: Lessons Learned! (3)

- o Where to setup?
- o Camera settings
 - Sensitivity (false triggers)
 - Flash (under/over exposure)
- Challenges



Wildlife Cameras: Lessons Learn! (4)

o Data Processing

												Comment
File Name	Date -	Time	Pressure	Temp	Moon	Species	Confidence	# of Animals	Direction	Weather	Cataloger	S
04010115	04/01/15	9:21	29.06	35	Gibbous	gray squirrel	Confident	1	1 SE		Tim	
04010117	04/01/15	20:56	29.09	15	Gibbous	coyote	Moderate	1	1 NW		Tim/Pete	
04020123	04/02/15	6:49	29.1	3	Gibbous	gray squirrel	Confident	1	1 SE		Tim	
04040132	04/04/15	3:00	28.52	30	Full	snowshoe hare	Confident	1	1 NW		Tim	
04040135	04/04/15	6:13	28.49	32	Full	snowshoe hare	Confident	1	1 NW		Tim	
04050141	04/05/15	8:15	28.92	21	Gibbous	gray squirrel	Confident	1	1 SE		Tim	
04060148	04/06/15	0:51	29.16	15	Gibbous	red fox	Confident	1	1 SW		Tim/Arian	ina
04070151	04/07/15	3:17	29.16	26	Gibbous	snowshoe hare	Confident	1	1 NW		Tim	
04070157	04/07/15	11:59	29.32	48	Gibbous	gray squirrel	Confident	1	1 NW		Tim	
04080160	04/08/15	7:12	29.4	15	Half	gray squirrel	Confident	1	15		Tim	
04090175	04/09/15	5:40	29.3	21	Half	bobcat	Confident	1	1 W		Tim/Pete	
04100178	04/10/15	6:41	28.91	30	Half	gray squirrel	Confident	1	1 NW		Tim	
04110181	04/11/15	13:16	28.82	33	Crescent	gray squirrel	Confident	1	1 NW		Tim	
04120187	04/12/15	7:33	29.14	24	Crescent	gray squirrel	Confident	1	1 NW		Tim	
04120190	04/12/15	8:15	29.23	39	Crescent	gray squirrel	Confident	1	1 NW		Tim	
04130196	04/13/15	2:08	29.2	21	Crescent	raccoon	Confident	1	1 E		Tim	
04130202	04/13/15	3:05	29.21	21	Crescent	snowshoe hare	Confident	1	1 NW		Tim	

