Small Game & Wild Turkey Committee

Meeting Agenda



September 29, 2020 1:00 – 3:00 p.m.

Commission Room/Zoom Meeting Centennial Campus, Raleigh

John Stone

Welcome/Open Meeting

Public Lands Quail Management Area Update
 Wild Quail Mgmt. Areas Rule Review
 Brad Howard
 Update on Grouse Issues and Management
 Chris Kreh
 Update on Turkey Research

Additional Topics John Stone

Adjourn

GAME LAND QUALITY QUAIL MANAGEMENT AREA



Chris Jordan, Game Lands and Forest Resources Manager John Lovette, GIS Specialist



Goal

 To increase abundance of bobwhite quail on a Game Land to provide high-quality hunting opportunities





Objective

 Quail population density of 1 quail/acre





Action Item from February meeting

 Conduct a parcel search in Wayne, Lenoir, Pitt, Davidson, Randolph, and Chatham counties for a property greater than 5,000 acres and conducive to quail management



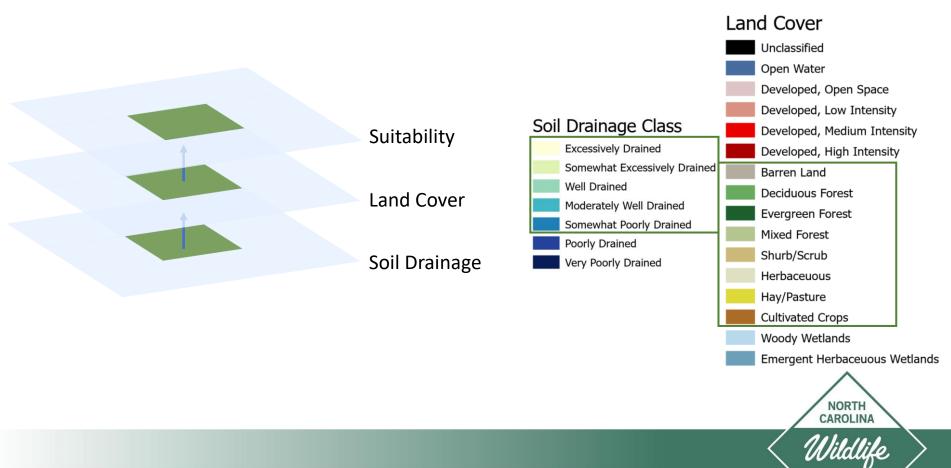
GIS Process

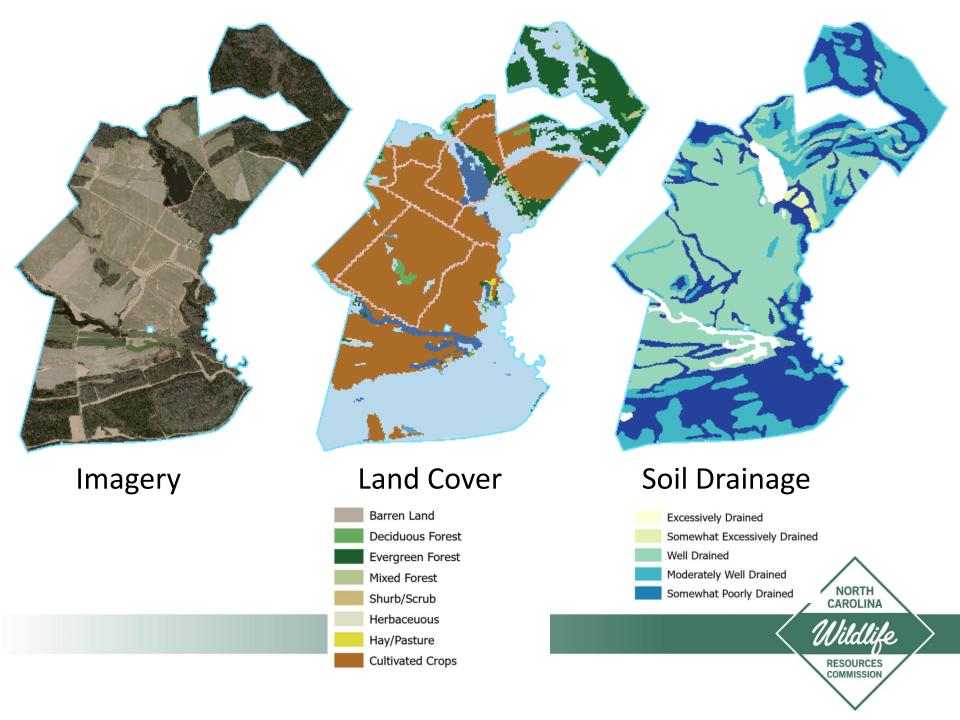
- •Searched ~5.5 million parcels in NC for potential quail habitat acquisition
- •To consider:
 - •Size

NORTH

- Land cover
- Soil drainage
- •Is not in Federal or State ownership
- Checked land cover and soil drainage within potential parcels

To calculate Suitable Acres within a parcel, we counted area that met our suitability criteria for both Land Cover and Soil Drainage

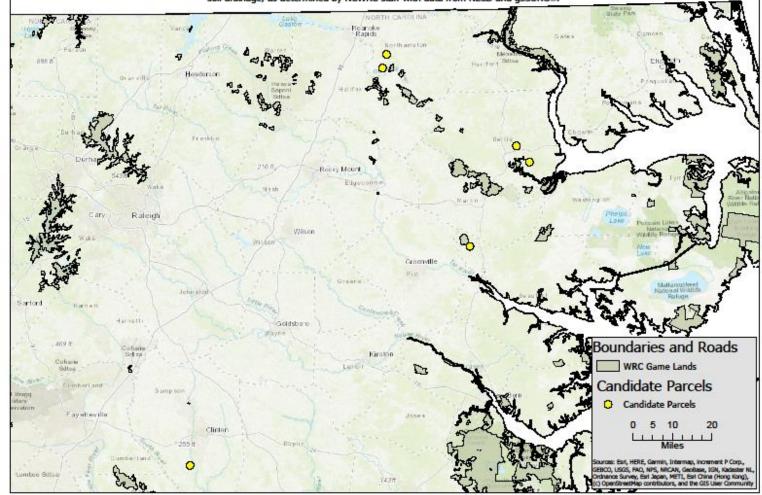




Candidate Parcels for Quail Management

Candidate parcels were selected by analyzing ~5.5 million parcels in North Carolina for large tracts of land with a single owner. The "Suitable Acres" was calculated to represent the area of the parcel that has manageable land cover and soil drainage, as determined by NCWRC staff with data from NLCD and qSSURGO.





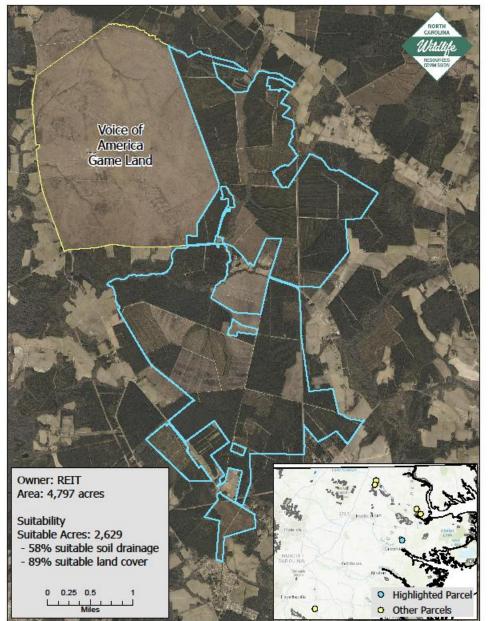


Acquisition Candidates

Candidate	-	% Suitable 9 andcover	% Suitable Soils	Suitable Acres	County	adj_GL	% forested	% open	Owner Type
6	4537	57	69	2291	Northampton	No	30	70	PI
5	5999	83	64	3555	Sampson	No	50	50	PI
4	3844	88	81	2917	Northampton	No	70	30	PI
3	6000	86	42	2305	Bertie	No	100	0	REIT
2	5268	82	56	2581	Bertie	Yes	100	0	REIT
1	4797	90	58	2629	Beaufort	Yes	100	0	REIT



VOA GL and Adjacent REIT Land





Proposed VOA Quail Mgmt Area

- Existing VOA is 2,818 acres, proposed acquisition is 4,797 acres for a total of 7,615 acres
- % Suitable Landcover is 90
- % Suitable Soils is 58
 - Existence of a functional drainage system
- Adjacent to VOA
- Management for Henslow's Sparrow
- Quail are present on the existing VOA
- 5,000 acres of quality quail habitat could be achieved

Acquisition Considerations and Costs

- Possible acquisition costs: \$1,500/acre(bare land)
 - Merchantable timber is often retained by owner (REIT) and harvested over a set term (5-8 yrs), governed by a timber deed
 - ~ \$7.2 Million??
- Quail Management Team
 - \$500,000 in equipment
 - \$170,000 yearly in personnel
- Short-term management: Years 1-8: \$570,000 annually

NORTH

Long-term management: Year 8+: \$295,000 annually.

Acquisition Considerations and Costs

- Quality Habitat –
 Approximately Year 8
- Hunting Opportunities
 - 120 "hunters" in Year 8
 - 240 "hunters" Year 10+
- Cost to Year 8
 - \$11.8 Million
 - \$7.2 Million? –
 Acquisition
 - \$4.6 Million –
 Management





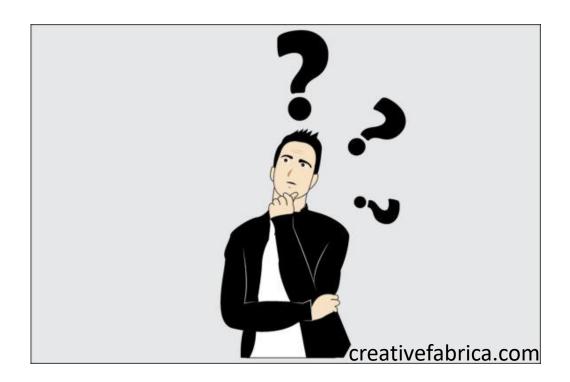
Overall Benefits



- Wild Quail Hunting
 - Public Opportunity for high-quality wild quail hunt
- Unique Game Land
- Secondary Benefits
 - Deer Hunting
 - Turkey Hunting
 - Non-game, Henslow's Sparrrow

Next Steps

- Pursue Property?
- Commit to project and long-term costs?







1	15A NCAC 10E	15A NCAC 10B .0226. WILD QUAIL MANGEMENT AREAS					
2							
3	(a) A Wild Qua	a) A Wild Quail Management Area shall be land maintained to enhance enjoyment of sportsmen and support wild					
4	bobwhite quail	white quail conservation under signed agreement between the landowner(s) and the Wildlife Resources					
5	Commission.						
6	(b) The following	b) The following minimum qualifications shall apply to all Wild Quail Management Areas:					
7	<u>(1)</u>	At least 1,500 acres of contiguous land; and					
8	<u>(2)</u>	A minimum of 15% of the land shall be maintained in year-round bobwhite quail habitat.					
9	(c) Wild bobwhi	ite quail habitat shall be any habitat described as early successional habitat within the North Carolina					
10	Wildlife Action	Wildlife Action Plan, available online, free of charge, at www.ncwildlife.org.					
11	(d) Landowners	Landowners interested in establishing a Wild Quail Management Area shall contact the Commission as described					
12	on the Commiss	ion's website at www.ncwildlife.org.					
13	(e) The signed a	greement between the landowner(s) and the Commission shall include at a minimum:					
14	<u>(1)</u>	A list of all owners of land included in the Wild Quail Management Area;					
15	<u>(2)</u>	County parcel identification information for each parcel to be included in the Wild Quail					
16		Management Area;					
17	<u>(3)</u>	A scaled map of the Wild Quail Management Area with the areas to be maintained in year-round					
18		bobwhite quail habitat clearly identified;					
19	<u>(4)</u>	Management practices to be used to maintain bobwhite quail habitat and populations; and					
20	<u>(5)</u>	Any reporting requirements in addition to the minimum requirements in (g)(6) that are specific to					
21		the individual Wild Quail Management Area.					
22	(f) Property insp	pection:					
23	<u>(1)</u>	All potential properties shall be inspected by a representative of the Commission prior to acceptance					
24		into the program; and					
25	<u>(2)</u>	Wild Quail Management Areas shall be inspected by a representative of the Commission at least					
26		once every five years.					
27	(g) The followin	g shall apply to all Wild Quail Management Areas:					
28	<u>(1)</u>	No domestically raised upland game birds shall be released on Wild Quail Management Areas;					
29	<u>(2)</u>	The hunting of wild bobwhite quail shall only be permitted during the established seasons in 15A					
30		NCAC 10B .0208.					
31	<u>(3)</u>	Supplemental feeding, if conducted, shall be for the primary purpose of ensuring that wild bobwhite					
32		quail populations remain stable during droughts or other periods of stressful environmental					
33		conditions. Supplemental feed shall:					
34		(A) be broadcast into quail habitat along a minimum linear distance of at least one mile per 100					
35		acres of habitat at a rate of three bushels per mile;					
36		(B) be broadcast on a bi-weekly schedule during at least five months each year					
37		(C) be broadcast using a non-stationary spreader;					

1		(D) be only natural grains or seed; and
2		(E) not be placed to attract birds for the purpose of hunting.
3	<u>(4)</u>	Except for wild bobwhite quail on Wild Quail Management Areas, no wild birds may be taken near
4		or with the aid of supplemental feed.
5	<u>(5)</u>	Trapping for raccoon, striped skunk, and opossum on Wild Quail Management Areas for the purpose
6		of nest predator control shall be allowed from the end of the established trapping season in 15A
7		NCAC 10B .0303 through May 31. Enclosed foot-hold traps with a one-way trigger or cage traps
8		may be used, and trapped raccoons, striped skunks, and opossums may be euthanized or released at
9		the trap site.
10	<u>(6)</u>	An annual report for the period of June 1 through May 31 shall be submitted to the Commission
11		within 30 days of the end of the reporting period, and shall include at least the following:
12		(A) <u>number of days and hours wild bobwhite quail were hunted;</u>
13		(B) total annual harvest of wild bobwhite quail;
14		(C) total number of coveys flushed;
15		(D) supplemental feeding activities;
16		(E) <u>number of trap nights, number of animals trapped and their disposition or release, by</u>
17		species, for trapping activity conducted during trapping seasons established by 15A NCAC
18		10B .0303; and
19		(F) number of trap nights, number of animals trapped and their disposition or release, by
20		species, for trapping activity conducted outside of trapping seasons established by 15A
21		NCAC 10B .0303.
22		

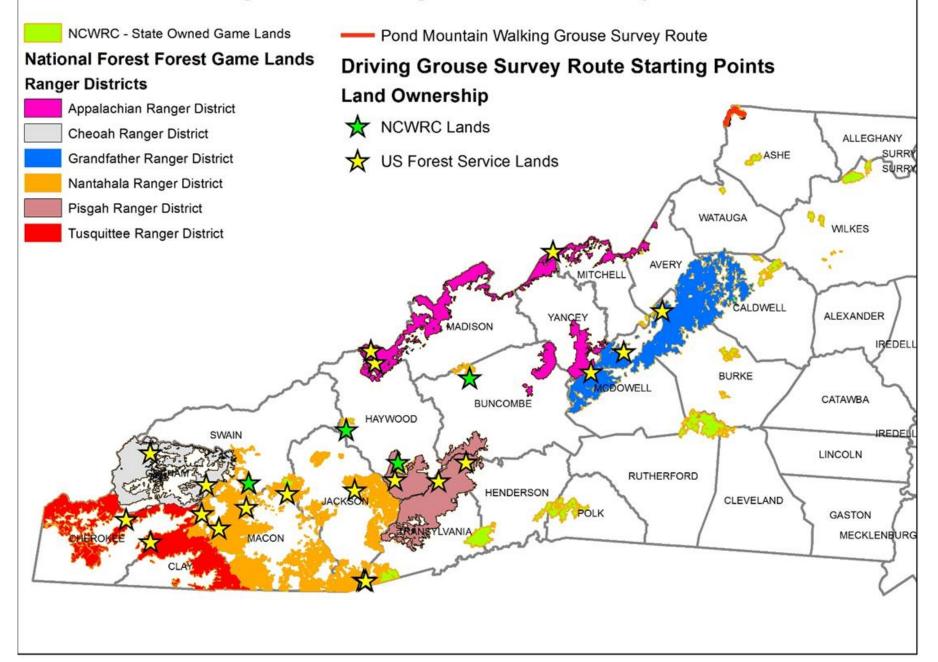
- Ruffed Grouse Management and Research
- 2. Turkey Ecology Project
- 3. Gobbling Chronology Project



Chris Kreh
Upland Game Bird Biologist

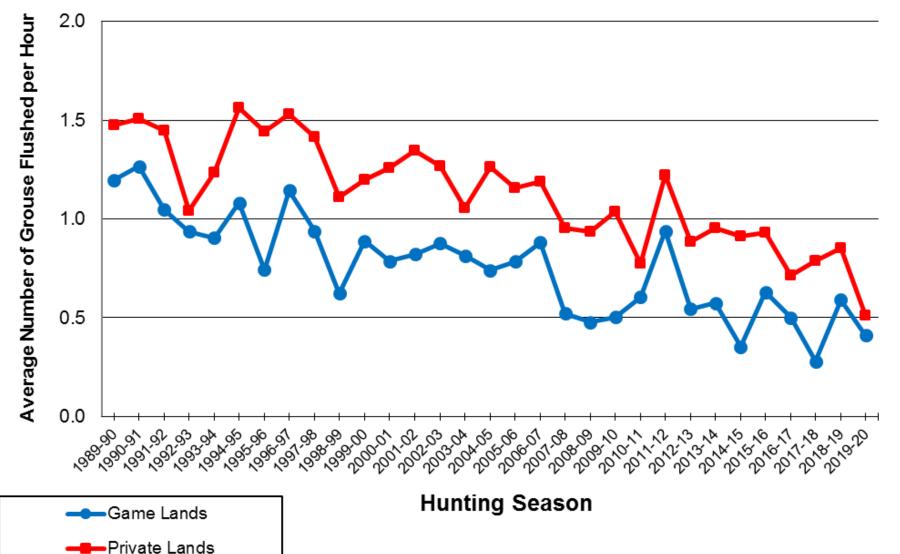


Walking and Driving Grouse Survey Routes





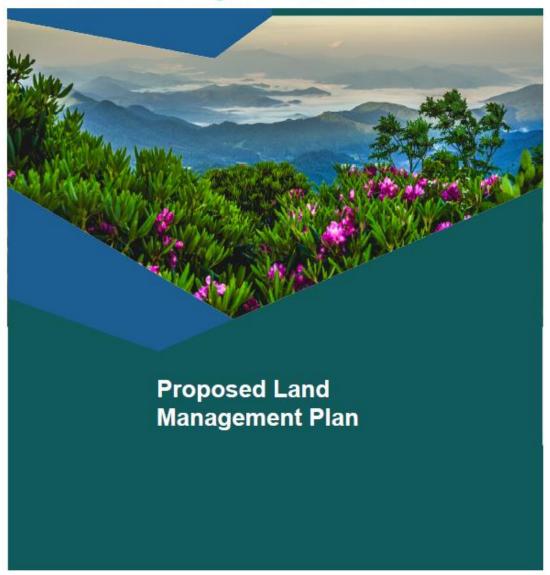








Nantahala and Pisgah National Forests





- NCWRC's comments on the Nantahala Pisgah Proposed Land Management Plan included:
 - "The previous planning period has clearly demonstrated that sustained timber harvest levels around 800 acres annually are inadequate to address the diminishing habitat needs of young forest and early-seral wildlife species across the Forest."
 - "Specifically, NCWRC recommends the implementation of regeneration harvests of at least 2,000 acres annually, but we prefer that the upper end of the Tier 2 objective range of 3,200 acres/year be achieved."

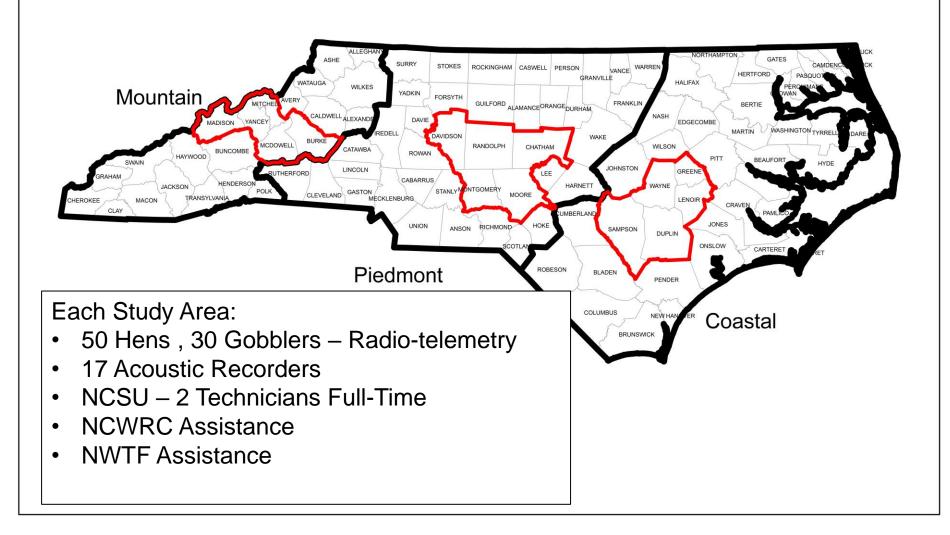


Turkey Ecology Project 2020 - 2023



Chris Kreh Upland Game Bird Biologist

Turkey Managment Regions and General Locations of Turkey Study Areas







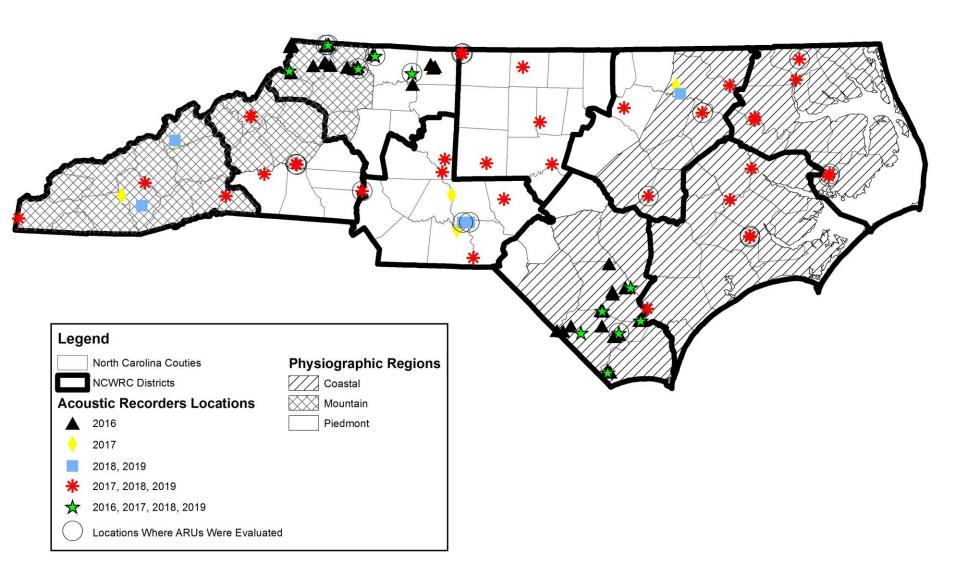




Chris Kreh Upland Game Bird Biologist



Acoustic Recorder Locations 2016 - 2019



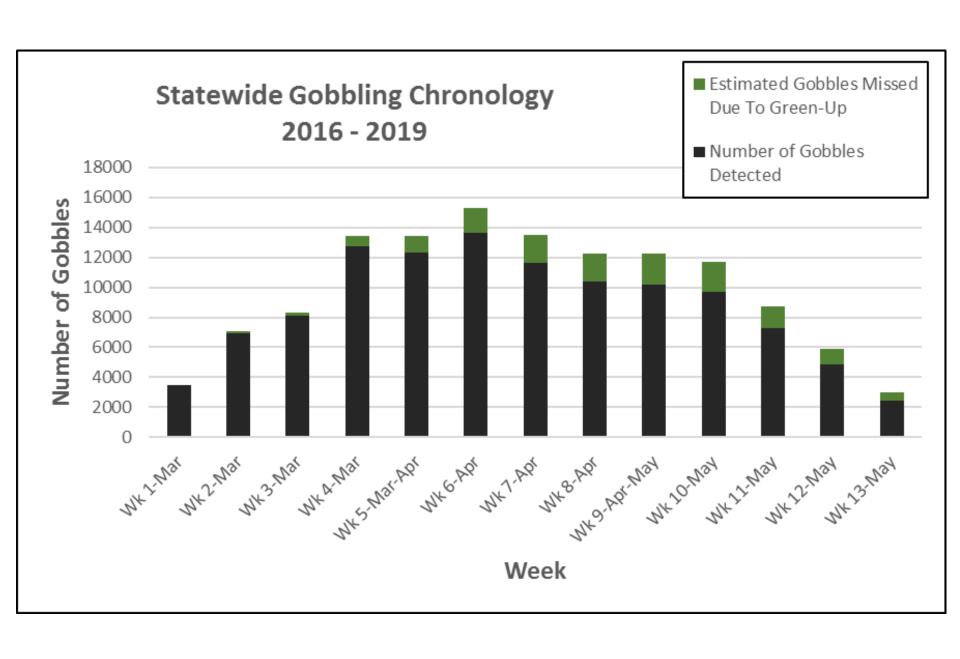


• 51 recorders each year

• 53,000+ hours of audio files

• 113,000+ gobbles

Final report available soon





1. Very little regional variation in gobbling activity:

 Maintain uniform hunting seasons across the state



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 - Maintain uniform hunting seasons across the state
- 2. Majority of gobbling activity (60%) occurred when hunting season is open:
 - Hunted areas will differ substantially. Educate hunters!



1. Very little regional variation in gobbling activity:

 Maintain uniform hunting seasons across the state

2. Majority of gobbling activity (60%) occurred when hunting season is open:

 Hunted areas will differ substantially. Educate hunters!

3. Only 25% of gobbling occurred prior to hunting season

 Do not open season earlier. Use nesting and gobbling information to determine ideal date for opening hunting season.

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