

Tennessee Wild Turkey Management Program Status Report

TN-NWTF State Board Meeting January 20, 2024

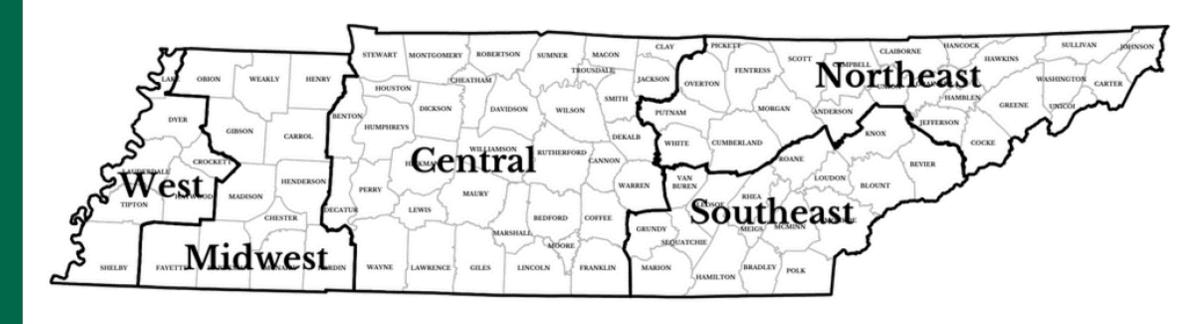
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New Turkey (& Deer) Management Approach

- Adaptive Harvest Management "AHM"
 - More objective & data-driven
 - Prioritizes mgmt. objectives based on stakeholder values
 - Applied at a UNIT scale
- Phase I New turkey (& deer) management units
 - Biologically/ecologically based
 - Scaled for effective management



New Turkey Management Units*





* Management Units are the hunting units

New Turkey (& Deer) Management Approach

- Phase II Develop an adaptive management framework
 - Value-based objectives
 - Acceptable suite of regulation packages
 - Identify regulation package that best meets objectives



Turkey Management Objectives

- Maximize the abundance of turkeys in appropriate habitat
- Maximize management within budget
- Maximize stakeholder satisfaction



Turkey Package Highlights - 4 Packages

• **Start date:** Saturday closest to April 7 (April 4 - April 10)

• Season length: 6 weeks in Liberal Package to 3 weeks in Restricted

• Bag limit: 3 bearded birds in Liberal to 1 bearded bird in

Restricted

Jake Harvest and Fall Season

- No clear consensus from public; No biological impacts
- Focused on opportunity and reduced complexity

• Jake Harvest: Allowed; except Restricted Package

- Fall Season: Open; except Restricted Package
 - 1 bearded turkey statewide; 6 weeks archery, 2 weeks shotgun



Turkey Season Packages

Package	Start Date	Season Length	Spring Bag Limit	Jakes Allowed	Fall Season	
1. Restrictive	Saturday closest to April 7	3 weeks	1 bearded turkey	Youth Only	Closed	
2. Conservative	Saturday	4 weeks	1 bearded turkey		Open*	
3. Moderate	closest to April 7	6 weeks	2 bearded turkeys	Yes		
4. Liberal		6 weeks	3 bearded turkeys			

* Fall Season Framework:

Archery

Gun

Fall Bag Limit

6 weeks

2 weeks

1 bearded turkey <u>statewide</u>

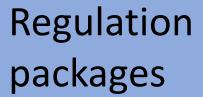


Objectives

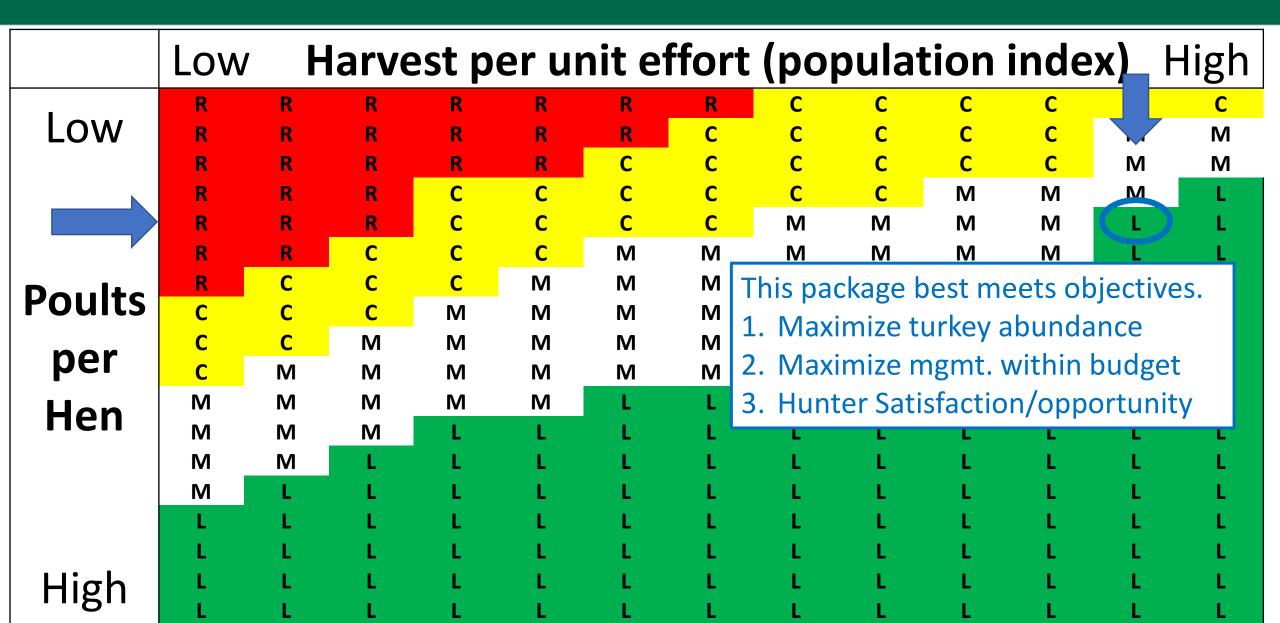
How predicted impacts meet objectives



Predict harvest and impacts to population for all packages



Example Turkey "Tool"



Objectives

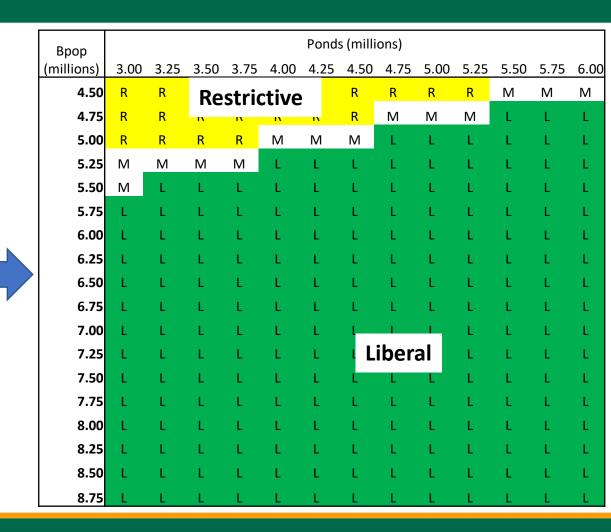
How predicted impacts meet Annual data objectives **Compare predicted Predict harvest and impacts** impact with observed data to population for all packages

Regulation packages

Adjust!

Adjusting over time – Duck example

Врор	Ponds (millions)												
(millions)	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00
4.50	С	С	С	С	С	С	С	С	С	С	С	С	С
4.75	R	R	R	R	R	R	R	R	R	R	R	R	R
5.00	R	R	R	R	R	R	R	R	R	R	R	R	R
5.25	R	R	R	R	Res	Restrictive R					R	R	R
5.50	R	R	R	R	R	R	R	R	R	R	R	R	R
5.75	R	R	R	R	R	R	R	R	R	R	R	R	R
6.00	R	R	R	R	R	R	R	R	R	R	R	R	R
6.25	R	R	R	R	R	R	R	R	R	R	R	R	R
6.50	R	R	R	R	R	R	R	R	R	R	М	L	L
6.75	R	R	R	R	R	R	R	М	L	L	L	L	L
7.00	R	R	R	R	М	L	L	L	L	L	L	L	L
7.25	R	R	М	L	L	L	L	L	L	L	L	L	L
7.50	L	L	L	L	L	L	L	L	L	L	L	L	L
7.75	L	L	L	L	L	رطانا		L	L	L	L	L	L
8.00	L	L	L	L	L	Libe	erai	L	L	L	L	L	L
8.25	L	L	L	L	L	L	L	L	L	L	L	L	L
8.50	L	L	L	L	L	L	L	L	L	L	L	L	L
8.75	L	L	L	L	L	L	L	L	L	L	L	L	L





Next Steps for AHM

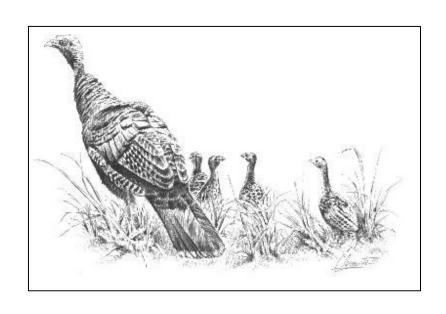
- TTU and TWRA finish and review models
- Add annual data
- Use "Decision tool" for each unit to determine season
- Season recommendations previewed in March 2024



2023 Summer Wild Turkey Survey

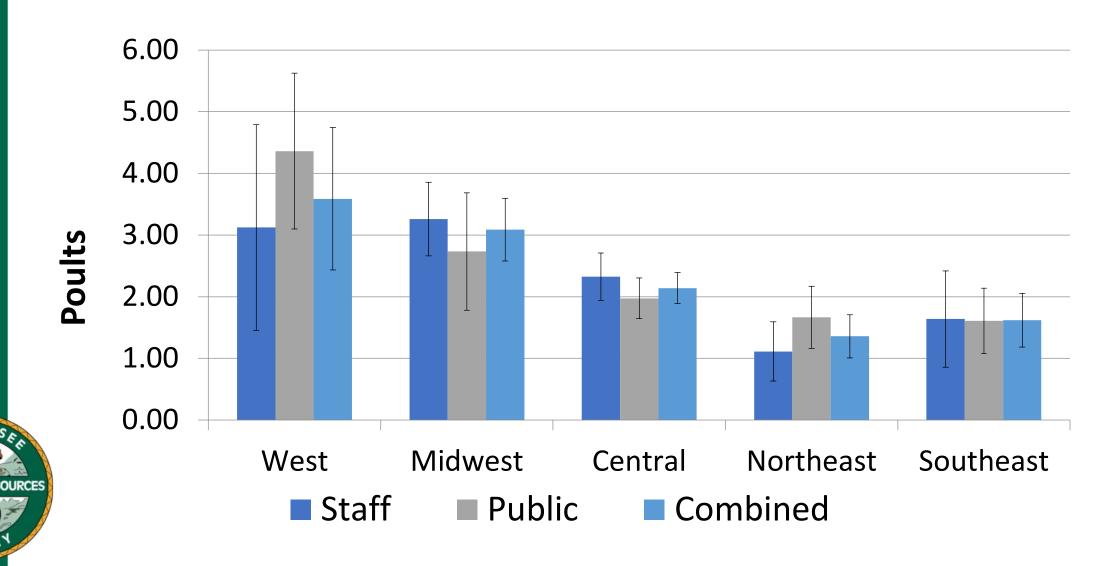
- Public participation down
 - ~742 unique public observers (vs 2,786 in 2022)
 - 1,333 observations (vs 4,217 in 2022)
 - From 92 counties
- Staff
 - ~158 unique observers
 - 1,331 observations
 - From 85 counties
- Estimates* quite similar



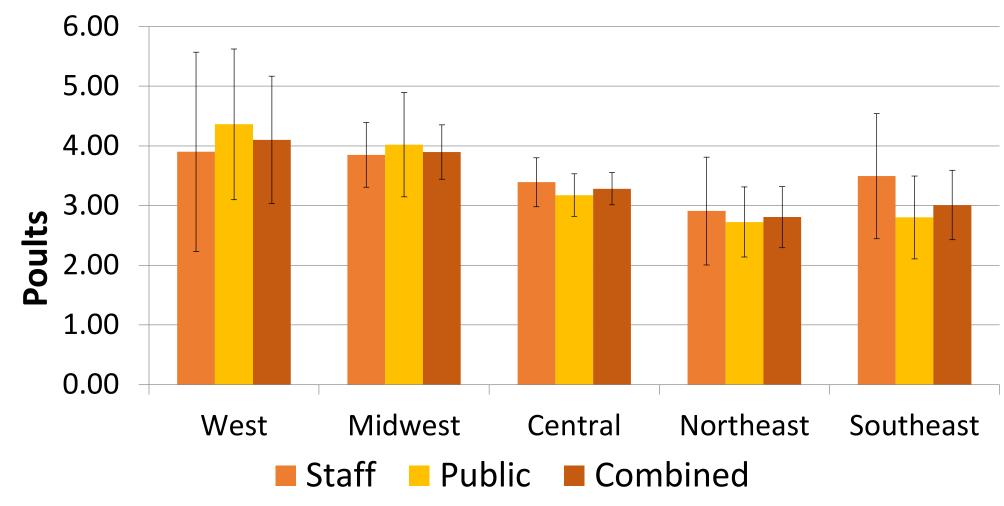


^{*}Based on new calculation method

Regional PPH Ratio, 2023



Regional PPB Ratio, 2023





2023 Statewide Wild Turkey Productivity

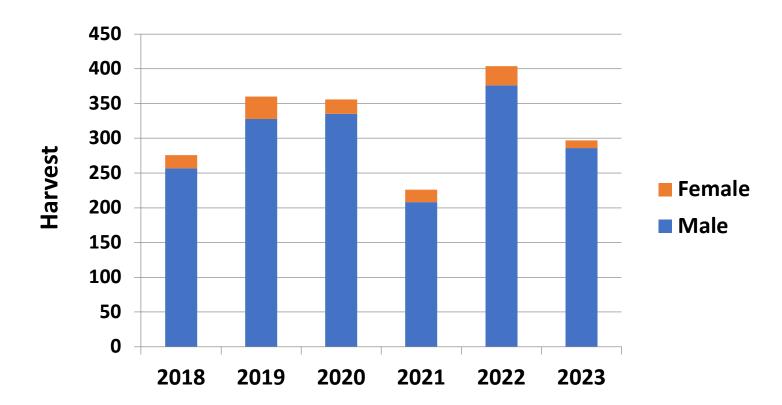
- Overall not a great year; some areas good
 - 2.1 PPH*
 - 3.3 poults per brood*
 - 59% of hens with broods
- Big regional disparity
 - West TN particularly good
 - Northeast TN quite low





Fall Turkey Harvest 2023

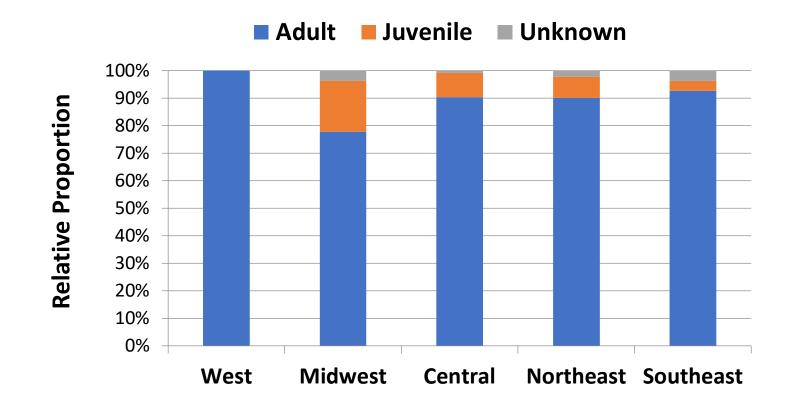
- 297 birds; down 26% from 2022
- Only 11 (3%) hens





Fall Turkey Harvest 2023

Jakes were 8% of gobbler harvest



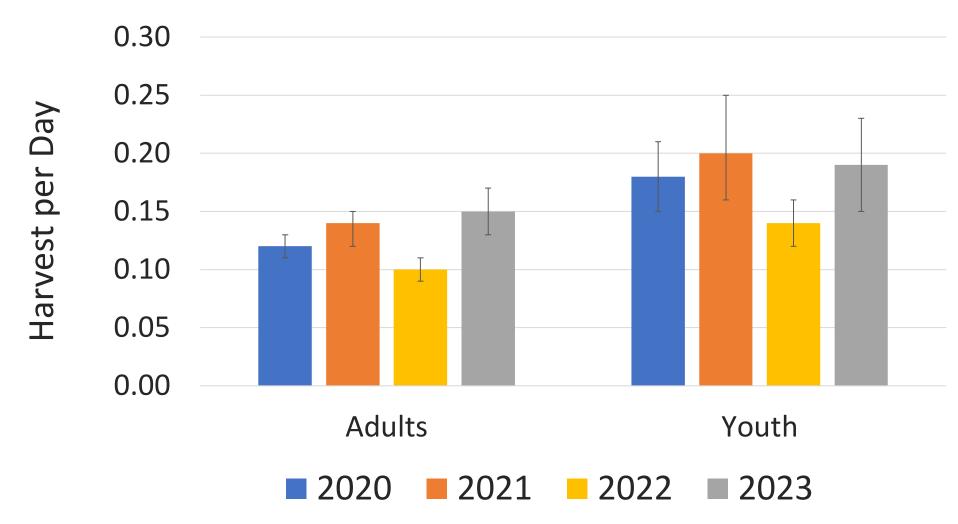


Post-season Hunter Harvest Survey, 2023

- 4,045 responses
- Overall, 52% of adults and 41% of youth harvested ≥1 turkey
- Average days afield down from prior years
 - Days afield averaged 7.8 (adults) and 4.3 (youth)
- Harvest <u>rate</u> increased considerably
 - 0.15 birds/day for adult hunters; 0.19 for youth
- >50% perceive turkey populations as stable or increasing

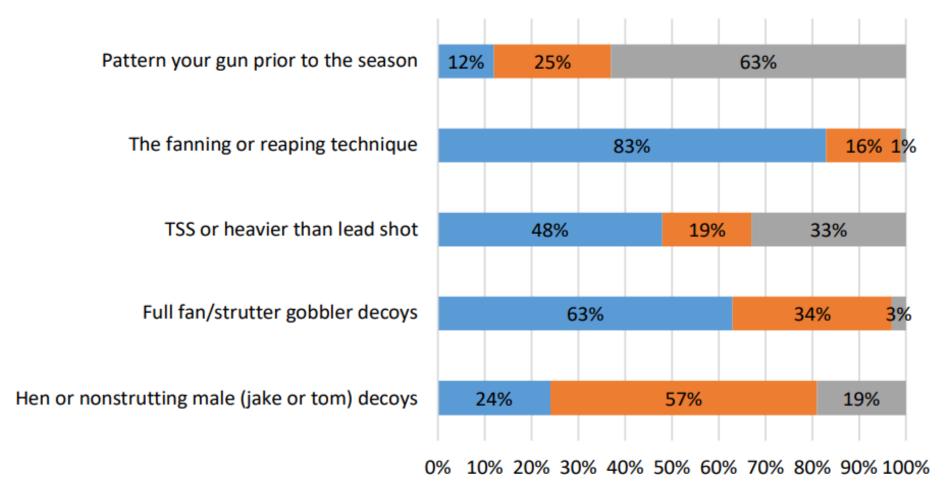


Harvest Rate, 2020-2023





Post-season Hunter Harvest Survey – Use of Various Techniques and Technologies



Sometimes

■ Always

Never

Post-season Hunter Harvest Survey – Other New Questions

- Gauge of shotgun used most often 12-ga (82%)
- Farthest distance feel comfortable shooting
 - 43 yrds on averge (40-50 yards most commonly reported)
- Satisfaction with the timing of the season
 - 33% satisfied; 47% dissatisfied; 21% indifferent



Middle TN Wild Turkey Research Project









- Investigation of season timing impacts completed
 - Found <u>no effect</u> on reproduction
 - Effects on hunting <u>mixed</u>
 - Improved hunting success
 - Less gobbling heard
- Investigating whether reproductive rates are density related
- One more year for looking at connection between predator abundance and survival (turkeys and nests)





Questions