

Chronic Wasting Disease in North Carolina

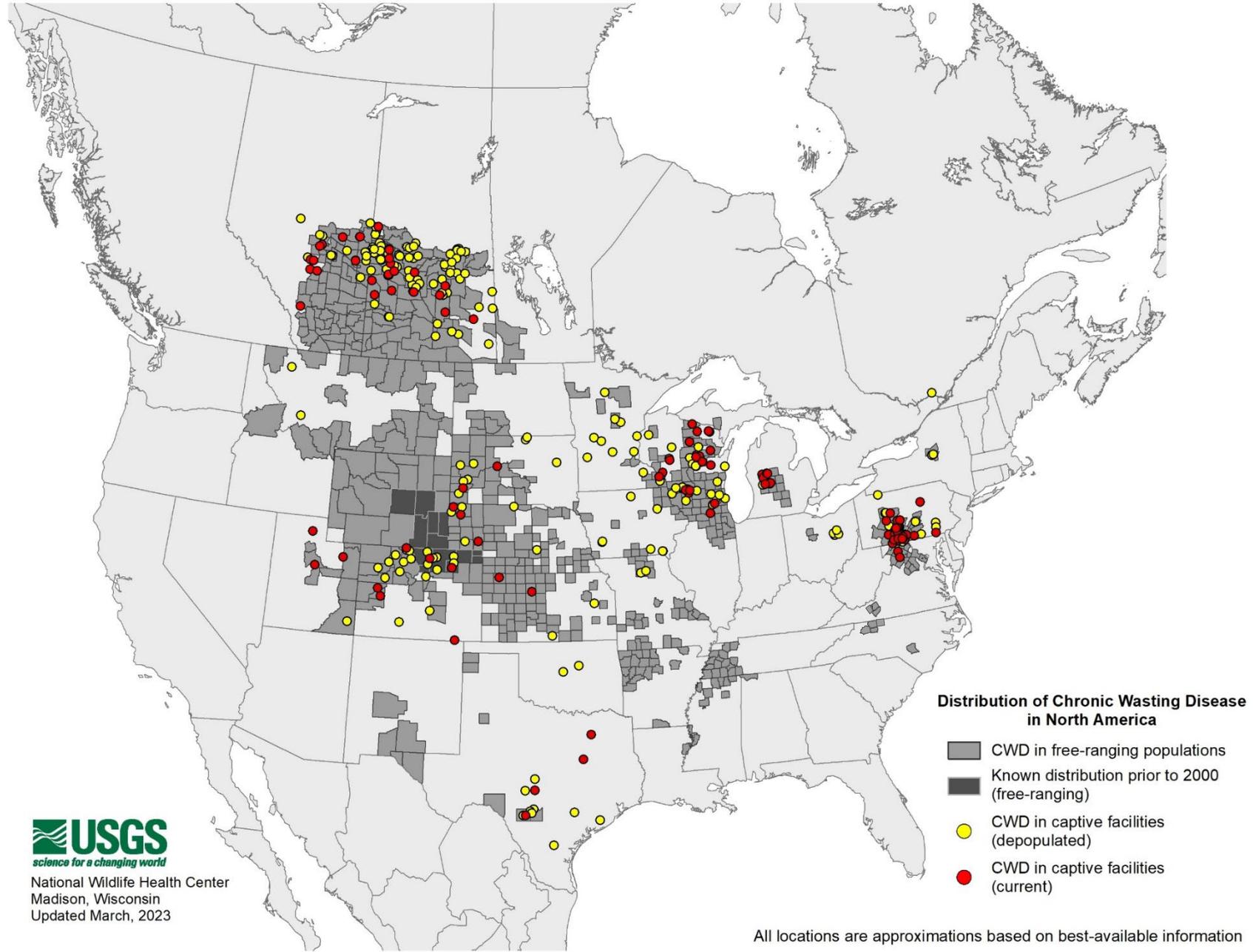


What it means for our future

Moriah Boggess, Deer Biologist

KNOW CWD

Current Known CWD Distribution



National Wildlife Health Center
Madison, Wisconsin
Updated March, 2023

All locations are approximations based on best-available information

Hemorrhagic Disease

EHD & Blue Tongue

VS.

CWD

- Virus
- Endemic to the Southeast
- Cyclical outbreaks
- Some deer survive with immunity
- Populations rebound quickly

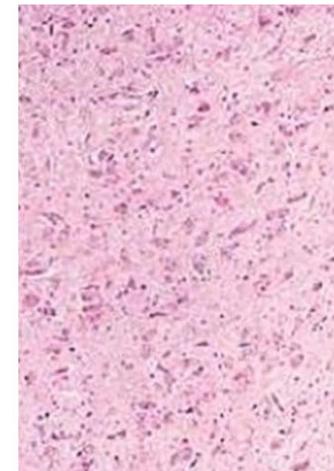
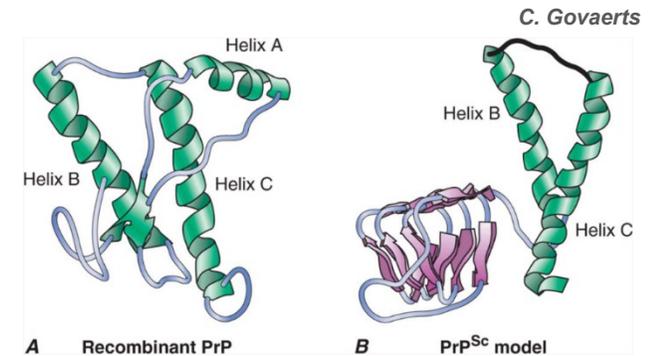


- Prion
- Spreading across country
- Constant drain on population
- 100% mortality rate
- Populations slowly decline

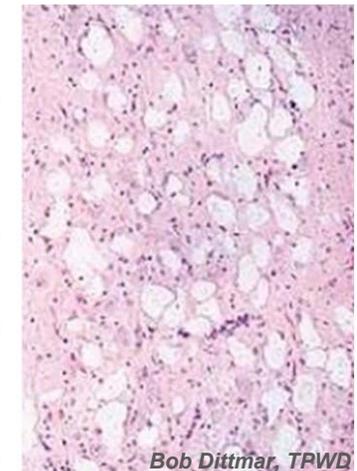


Infectious Agent - Prion^{CWD}

- No treatment
- Nonliving material – cannot be killed
- Persists in environment
- Accumulates over time on landscape



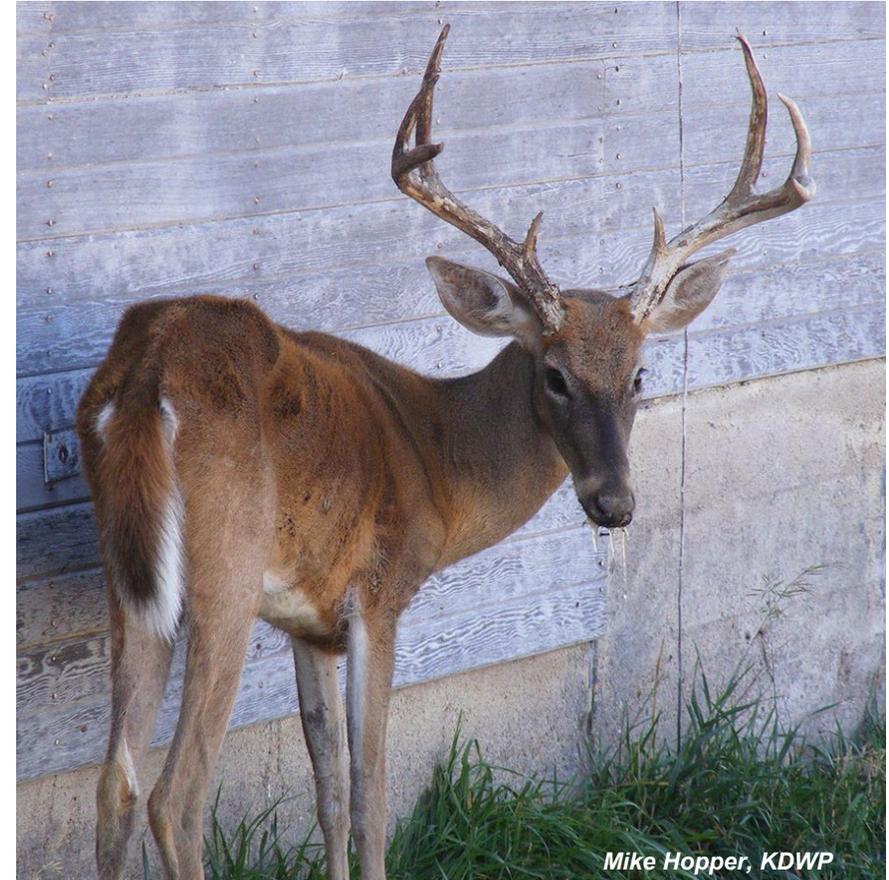
Healthy

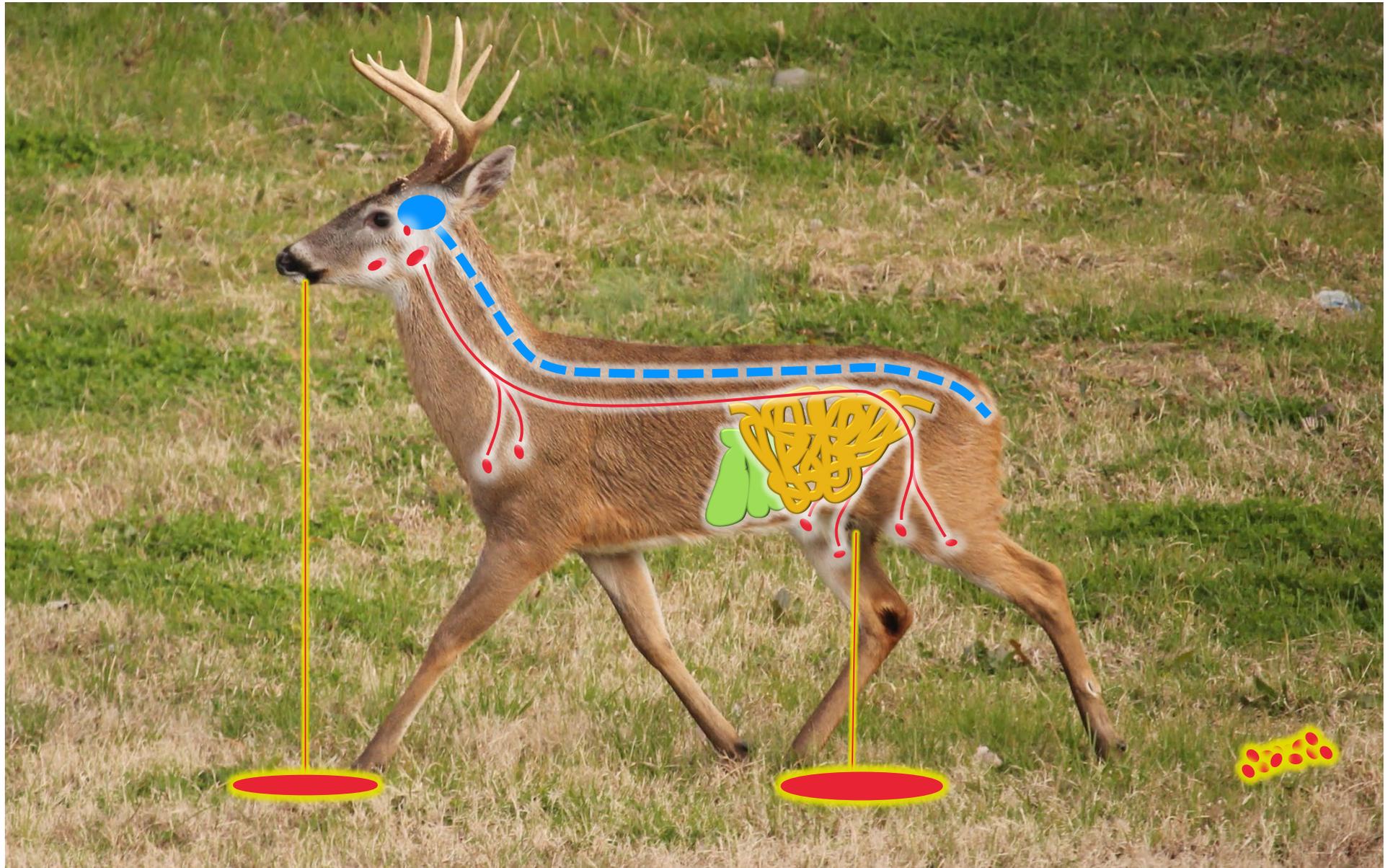


Infected

Bob Dittmar, TPWD

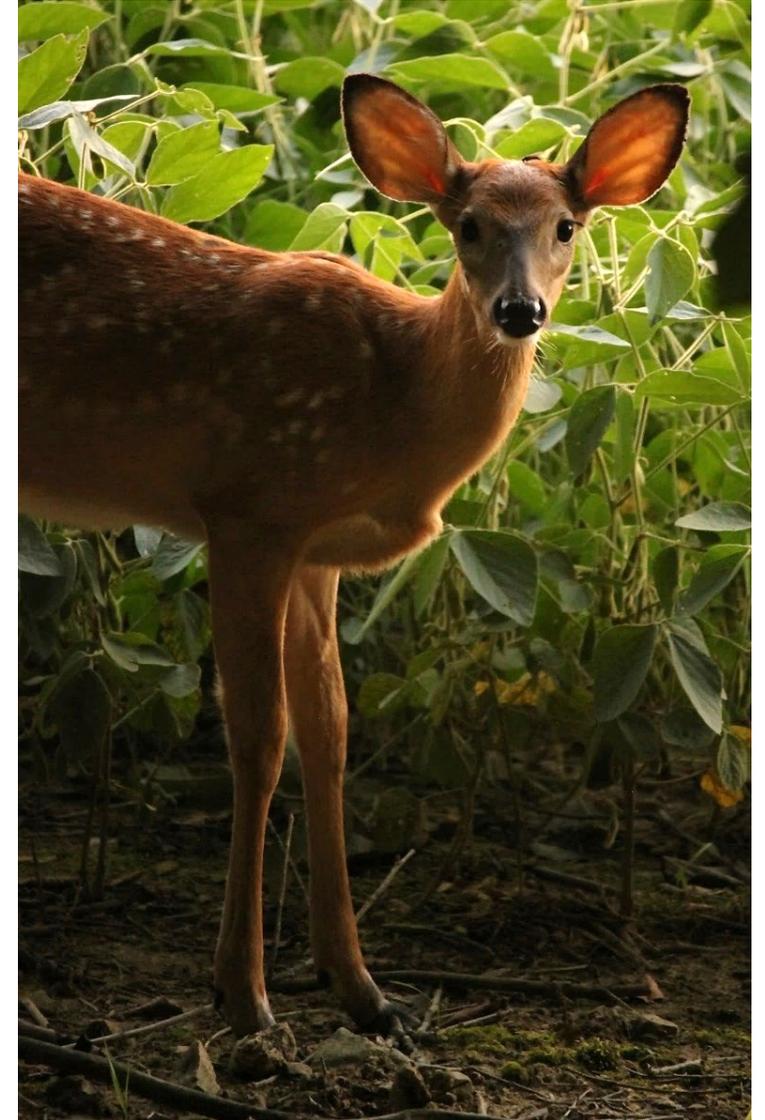
What Does CWD Look Like?





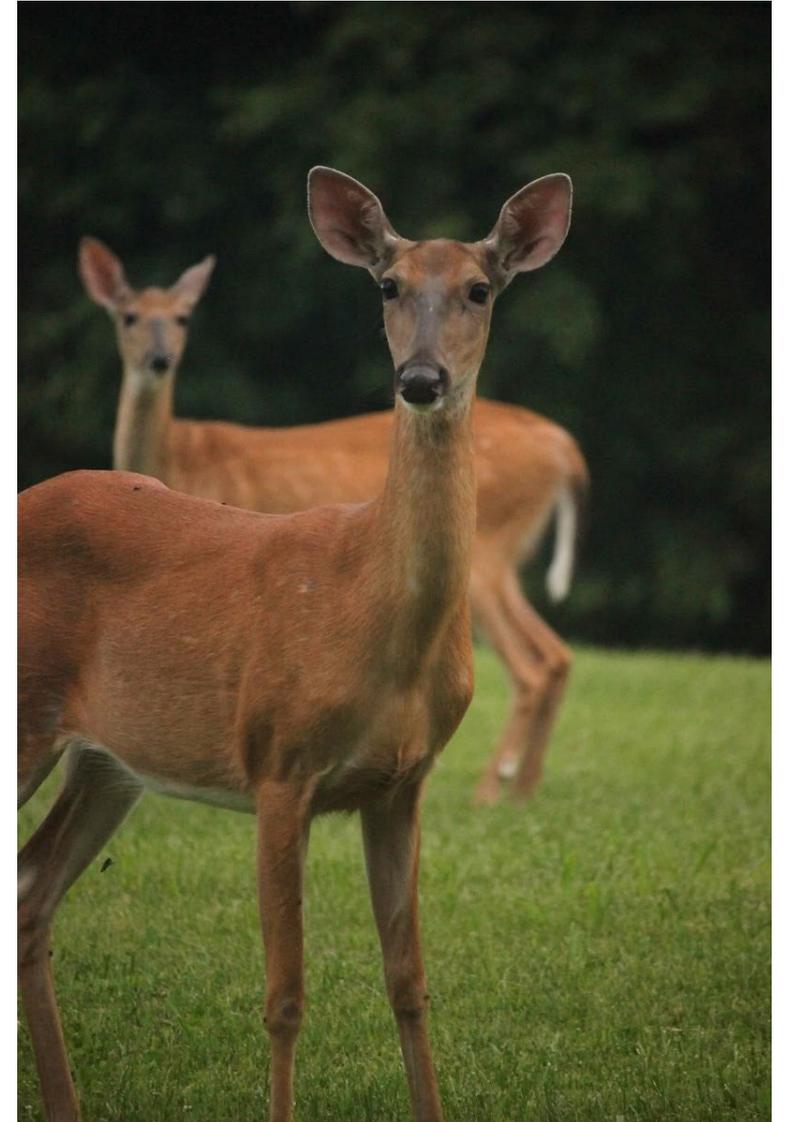
Why Does CWD Matter?

- CWD is a slow, permanent disease
- CWD prevalence will increase
- Deer lifespans will be shortened
- Future deer populations will change



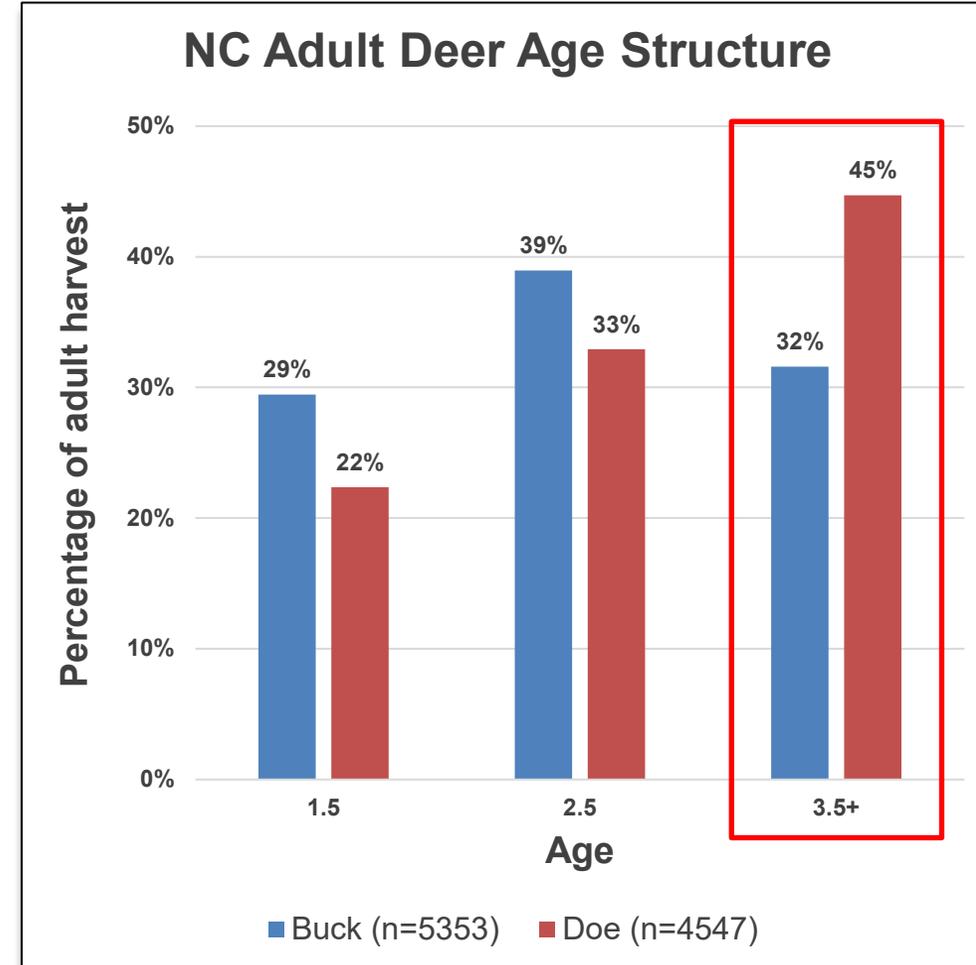
Future Population Effects

- **Average fawn recruitment rate ~50%**
- **It takes at least 2 years for a doe to replace herself (minimum)**
- **Shorter lifespan = less reproduction**



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CWD in North Carolina

- **NC has surveilled for CWD since 1999**
- **Detected in Northwestern zone in 2022**
 - **9 additional detections during 2022-23 season, including Cumberland County**

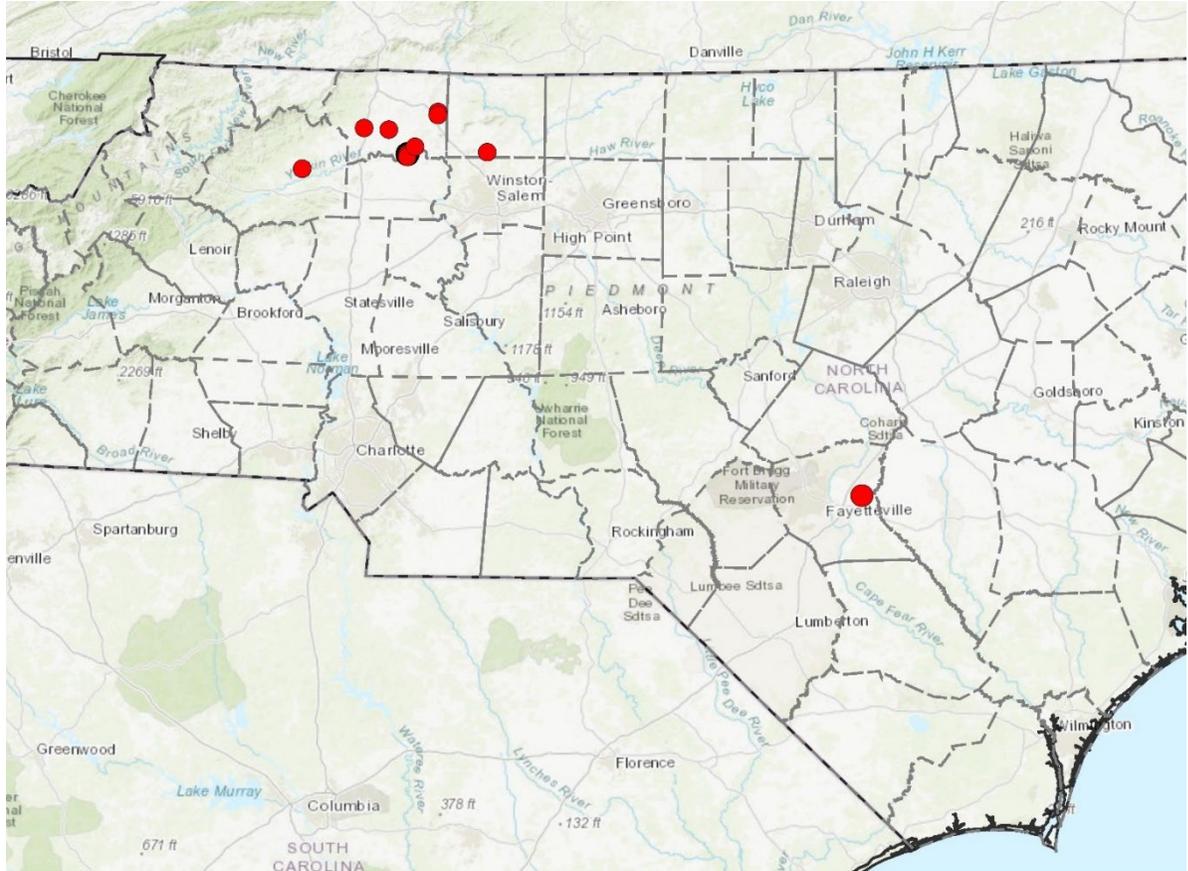


CWD Positive Deer Detections

Counties

- Cumberland 1
- Stokes 1
- Surry 5
- Wilkes 1
- Yadkin 2

****as of 05/15/23****



Cumberland County CWD Detection

- Harvested during rifle season
- Tested by Cervid Health Cooperator taxidermist
- DNA confirmation matched
- First detection in coastal plain



What Can Be Done?

- 1. Know where it is**
 - Test, test, test
- 2. Don't give it a ride!**
 - Live deer
 - Dead deer
- 3. Slow transmission rates**
 - Avoid unnecessarily congregating deer

