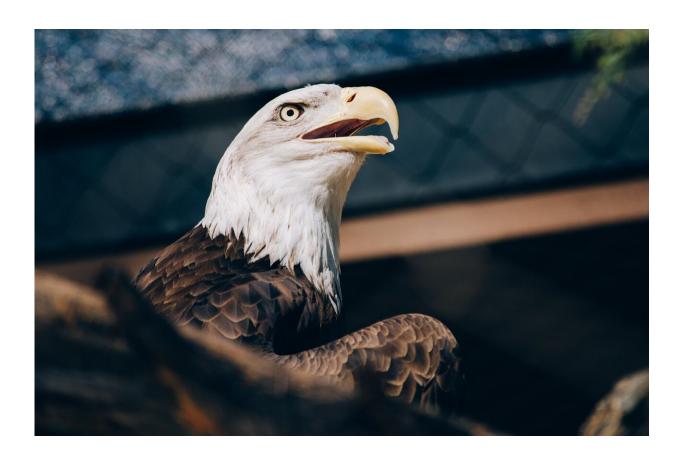


## Bald eagle rebound stunted by poisoning from lead ammunition

January 13 2022



Credit: CC0 Public Domain

Bald eagle populations have slowly recovered from near devastation after the government banned DDT in 1972, but another ongoing issue has weakened that rebound—lead poisoning from gunshot ammunition.



A new study, published in the *Journal of Wildlife Management*, finds that despite increasing numbers of bald eagles, poisoning from eating dead carcasses or parts contaminated by <u>lead shot</u> has reduced <u>population growth</u> by 4% to 6% annually in the Northeast.

The results could help educate and inform policy on ammunition choices for hunters, as copper-based ammunition exists—though supplies of all ammunitions have been low lately.

"Hopefully, this report will add information that compels hunters, as conservationists, to think about their ammunition choices," said Krysten Schuler, assistant research professor in the Department of Public and Ecosystem Health at Cornell University and senior author on the study.

The diminished growth rates have the potential to erase cushions that protect populations against unforeseen events.

"Even though the population seems like it's recovered, some perturbation could come along that could cause eagles to decline again," Schuler said.

Habitat loss, <u>climate change</u>, West Nile virus and other <u>infectious</u> <u>diseases</u> are all threats that could affect bald eagles' resilience and lead to population declines, Schuler said.

While bald eagle numbers in the lower 48 states quadrupled between 2009 and 2021 to more than 316,000, according to a 2021 U.S. Fish and Wildlife Service report, the current findings on impacts of lead to the eagles point to potential negative outcomes for other species.

Human health can be affected when bullets fragment inside game species and are then consumed.

Many hunters 'field dress' a deer they shot with lead ammunition, leaving



contaminated organs where the animal fell. Bald eagles are known to scavenge such carcasses, but they are not the only animals to do so. Trail cameras have shown that owls and crows, as well mammalian species including coyotes, foxes, fisher and bears also scavenge remains left by hunters.

"We haven't collected data on these other species in the same way that we pay attention to eagles," Schuler said. "We're putting eagles out there as a poster species for this issue, but they're not the only ones being impacted."

Even though total eagle numbers increased across the Northeast between 1990 and 2018, the researchers' modeling estimated that deaths from ingesting lead depressed the growth rate of bald <u>eagle</u> populations by 4.2% (for females) and 6.3% (for males).

The study's authors have made public the software from their novel methodology, so others can use it to analyze similar <u>population</u>-scale data for other species, Schuler said.

**More information:** *Journal of Wildlife Management* (2022). <u>DOI:</u> 10.1002/jwmg.22177

Software: ecommons.cornell.edu/handle/1813/69419.2

## Provided by Cornell University

Citation: Bald eagle rebound stunted by poisoning from lead ammunition (2022, January 13) retrieved 27 April 2024 from

https://phys.org/news/2022-01-bald-eagle-rebound-stunted-poisoning.html



This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.