

USDA-APHIS-WILDLIFE SERVICES PROJECT SUMMARY REPORT

2025 City of Syracuse White-tailed Deer Damage Management Program

Cooperators

City of Syracuse

USDA-APHIS-Wildlife Services
5757 Sneller Rd
Brewerton, NY 13029

Effective Date

01/01/2025

Completion Date

03/30/2025

Background

The city of Syracuse is approximately 25.6 square miles in size and has approximately 411 miles of maintained paved surface streets. The city is comprised of highly developed urban areas, residences interspersed with dense wooded areas, as well as numerous parks and greenspaces. Many of the homes feature landscaping, with ornamental plantings throughout. These factors along with native food resources and bedding areas create an ideal habitat for white-tailed deer (*Odocoileus virginianus*).

Despite residents using best management practices to defend against deer damage, the deer herd continues to damage the local flora. Ornamental plants and shrubbery have been heavily browsed, causing residents an inordinate amount of economic damage. There is a visible browse line and little understory in the native foliage. In addition to the damage to vegetation, the abundant deer population also poses a threat to human safety in the form of vehicle collisions and tick borne diseases.

Objectives and Expected Results

The city of Syracuse has agreed to work together with Wildlife Services and private property owners to reduce the local white-tailed deer herd. The expected results are decreases in damage to private property and natural resources by browsing deer. Another expected benefit would be a reduction in danger of deer-vehicle collisions and tick borne diseases (Kilpatrick et al. 2014).

Methods

Properties belonging to the city of Syracuse and residents of the city were surveyed for use by deer and evaluated for safety of firearms use. Once suitable properties were identified, bait (kernel corn and apples) was placed in safe shooting zones. Deer were removed in the evening and night using suppressed, center-fire rifles with frangible ammunition with the aid of Forward Looking Infrared (FLIR) devices and spotlights. At locations not suitable to discharge a firearm, deer were removed using clover traps and were humanely euthanized once captured.

Results

During the months January, February and March, over a 16-night period, 82 white-tailed deer were removed with firearms. An additional 55 deer were removed with clover traps over a 9-night period (Table 1). This resulted in an average of 5.6 deer removed per night. After processing, approximately 4,096 pounds of venison were delivered for donation which provided 12,288 meals to the local community.

Table 1. City of Syracuse Deer Management Summary 2020-2025.

Method	2020	2021	2022	2023	2024	2025		Total
	Firearms	Firearms	Firearms	Firearms	Firearms	Firearms	Trapping	
Deer Removed	159	65	92	79	109	82	55	641

Summary

The 2025 white-tailed deer damage management program in the city of Syracuse was successful and resulted in minimal conflicts with neighboring property owners or the general public. Overall, the removal of 137 deer this year and an additional 504 deer from 2020 through 2024 aided in reducing a portion of the deer population in the city of Syracuse.

Recommendations

Due to the large number of deer observed and removed from the properties within a three-month period, WS recommends that the city of Syracuse continue the firearm and trapping programs. WS recommends the city of Syracuse continues adding additional properties to both programs as they become available. The additional access would increase the number of deer removed and in turn lower the amount of damage that is being incurred by the residents of the city of Syracuse.

Wildlife Services also recommends that the city of Syracuse continue tracking damage that is being inflicted by white-tailed deer. Types of damage such as deer/vehicle collisions, the number of phone calls received from the town residents concerning deer damage and the number of deer carcasses removed from roadways can be easily tracked. Tracking damage caused by white-tailed deer can help provide valuable data to the DEC to help determine the reasoning behind a deer damage management program, as well as the overall success of the program.

Literature Cited

Kilpatrick, H. J., A. M. LaBonte, and K. C. Stafford, III. 2014. The relationship between deer density, tick abundance, and human cases of Lyme disease in a residential community. *Journal of Medical Entomology* 51:777-784.