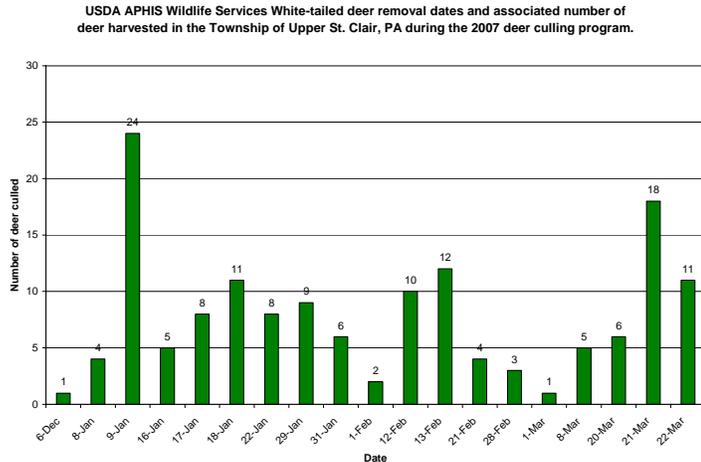


**USDA APHIS WILDLIFE SERVICES
ACTIVITIES SUMMARY REPORT
2007 WHITE-TAILED DEER MANAGEMENT PROGRAM
TOWNSHIP OF UPPER ST. CLAIR
(JULY 2007)**

USDA APHIS Wildlife Services (WS) was requested by the Township of Upper St. Clair (TOWNSHIP) to conduct white-tailed deer culling throughout the Township and on designated private properties. An operational control program was first implemented in 2005 and has been continued in subsequent years to reduce deer densities. The objective of this culling effort is to manage the deer population at or near 5-8 deer per square mile, as recommended by the Pennsylvania Game Commission (PGC). In addition, removal operations were conducted to decrease the vehicle/deer collisions throughout the TOWNSHIP, but especially along the State Route 19 corridor (SR 19). WS conducted operations under a PGC Special Use Permit issued to the TOWNSHIP to remove no more than 200 deer from within the Township limits. The following report includes program methodology, results, analysis, and recommendations.

WHITE-TAILED DEER MANAGEMENT METHODS

WS conducted deer removal activities according to the work plan established in the Cooperative Service Agreement with the collaborative effort of the TOWNSHIP and PGC. Removal operations consisted of multiple nights of activity throughout the Township from December 6th, 2006 – March 22nd, 2007. Deer were removed from stationary locations, elevated stands, and mobile units. Bait sites were strategically placed to draw deer out of dense cover and to position them for safe shooting. Shooting was conducted with suppressed rifles of two different calibers (.223 and .243).



Deer observed were removed on a first opportunity basis provided safe shots could be taken. Adult does were targeted first when more than one deer was observed in a safe shooting location. Antlered deer were targeted for removal after antlerless deer had been safely removed. Selective removal allows for the removal of breeding individuals first, which also aids in the safe removal of juvenile deer at the same time or on subsequent nights. Deer were only targeted for removal on predetermined TOWNSHIP and private properties.

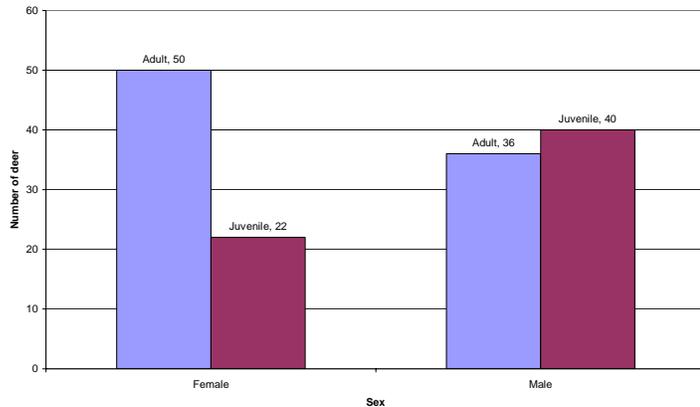
Removal activities, including biological data from the deer harvested were recorded on data sheets. Information collected from harvested deer included gender, relative age, tag number, and location (Appendix A).

Forward Looking Infrared (FLIR) technology was used during removal operations as well as night vision and spotlights with red filters. WS utilized a hand-held FLIR unit to locate and observe deer in complete darkness. These capabilities also further enhanced WS' ability to ensure safe removal operations by detecting human activity on TOWNSHIP property from greater distances after hours. The use of night vision and spotlights is necessary to identify possible obstructions (i.e., branches, debris, etc.) in the line of fire. All deer removed by shooting were taken with the aid of spotlights.

RESULTS

WS removed a total of 148 deer from within the Township. Of those 148 deer, 63 were juveniles and 85 were adults. The majority of the deer culled during 2007 were not able to be utilized for PGC's fetus study; however, Wildlife Services personnel and the meat processor removed 100 fetuses from harvested does.

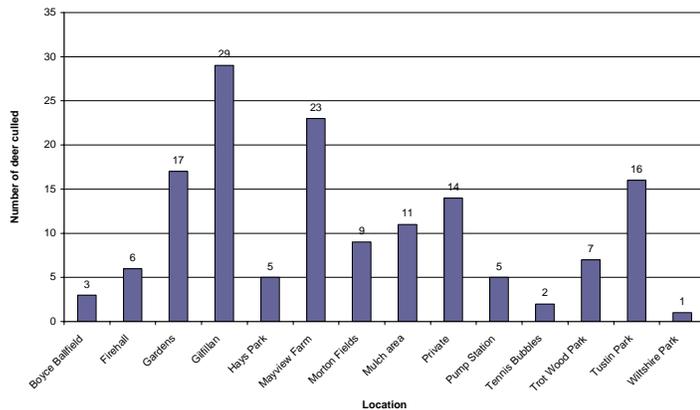
Relative age and sex distribution of deer harvested by USDA APHIS Wildlife Services in the Township of Upper St. Clair, PA during the 2007 deer culling program.



Several areas were identified by the TOWNSHIP as priority locations due to their proximity to SR 19. The areas of special concern were Gilfillan Park, the 3-hole golf course/tennis bubbles, Wiltshire Park, Township pump station, Boyce ball field, fire station and several private properties which were strategically located near SR 19. WS was able to remove 60 deer (40%) from those locations alone.

WS noted several interesting observations regarding herd health. Overall, culled deer appeared to have prime over-wintering weight and thick coats. During culling operations, WS removed six deer with broken legs and obvious signs of vehicle collisions. Several deer had multiple fractures and were extremely thin due to their injuries. WS removed all of the injured deer observed provided safe shots could be taken. WS also observed at least 6 mature bucks of at least 10 points or greater; these bucks were not harvested as part of this project.

Distribution of deer harvested by USDA APHIS Wildlife Services in the Township of Upper St. Clair, PA during the 2007 deer culling program.



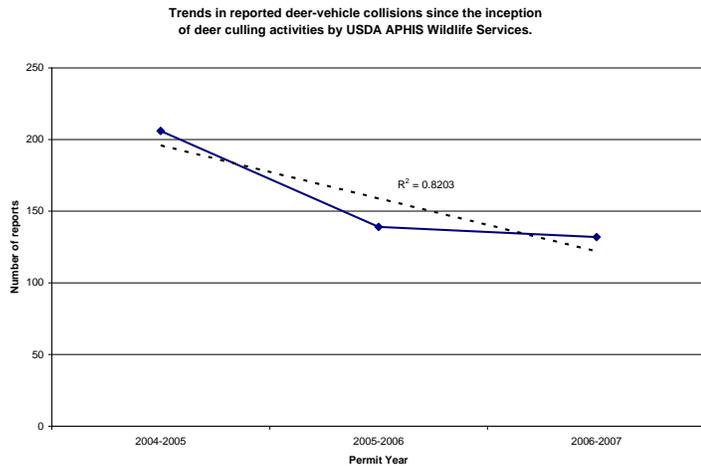
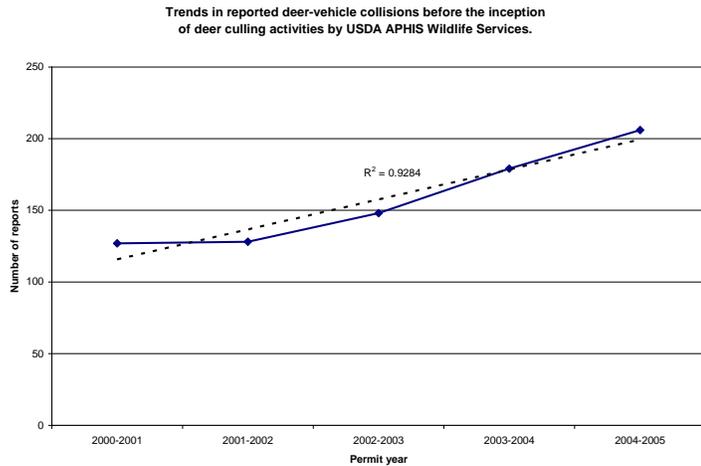
Venison from culled deer was distributed at soup kitchens and shelters in Western Pennsylvania. The Pennsylvania Game Commission also helped distribute venison to families in need. Thirteen deer were retained by the Pennsylvania Game Commission. Overall, 5,975 pounds of venison was distributed to needy citizens in Western Pennsylvania.

ANALYSIS

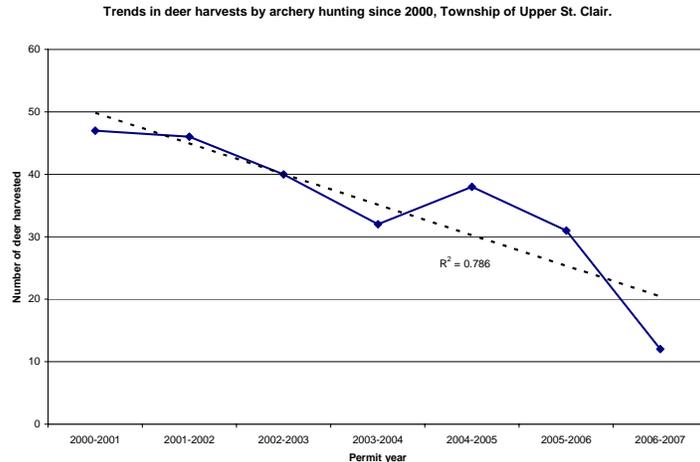
Wildlife Services has culled 411 deer from the Township since the inception of the culling program in 2005; an additional 306 fetuses have been removed from pregnant does. Of those 411 deer, 239 were adults and 172 were juveniles. WS intentionally targets adult females first when safe shooting opportunities are available. The successes experienced to date are largely due to an expansive baiting program and increased private property access for culling operations.

A comprehensive and extensive analysis of the problems associated with deer within the Township has been ongoing for numerous years. WS analyzed deer vehicle collision trends prior to culling. That research suggests that collisions would have likely continued to increase without a culling program. Archery hunting as the only management tool was not able to successfully reduce the population. The relatively recent implementation of culling is also well documented. Since culling activities began in Upper St. Clair, deer vehicle collisions have declined. A trend analysis suggests that this decline is likely to continue assuming that population growth is controlled. The trend analysis clearly demonstrates that the culling program has successfully reduced deer vehicle collisions despite poor archery success and increased traffic volume.

Archery hunting has historically played an important role in the management of White-tailed deer in the Township. From 2000-2003, archery hunters harvested more than 40 deer each year. Since that time, harvests have been less than desirable with an all time low of



12 last season. Archery hunting is not only an important recreation opportunity for hunters in Allegheny County, but also the most cost-effective management tool. If current hunting trends continue, archery hunting will have no impact on the deer population or deer vehicle collision rates in the TOWNSHIP.



It is extremely difficult to determine the exact population size within the Township without extensive scientific research. However, WS has the ability to provide a FLIR/spotlight survey which can provide the TOWNSHIP with an estimated deer density. This deer density estimate can be used in comparative analysis for future management. Without such a density estimate, visual observations, damage complaints, and reported deer vehicle collisions are the only statistics available to measure successes or failures of current management approaches. Although this information is important, the TOWNSHIP will not know when they have met the goal of 5-8 deer per square mile without periodic density estimates. Deer surveys will also be critical to determine the number of deer that must be removed to maintain a desirable population size once the damage has been reduced to an acceptable amount.

Based on an analysis of deer accident statistics provided by the TOWNSHIP coupled with trend analysis and general observations, WS can say with reasonable certainty that culling operations have resulted in a decrease in the deer population. Despite unknown rates of immigration and emigration, there is evidence to demonstrate the effectiveness of culling in Upper St. Clair. Continued culling activities utilizing sharp shooting and hunting will be necessary in future years to ensure the long-term reduction of the number of deer vehicle collisions. More intensive management (i.e., harvesting) may be required to reach recommended population density goals.

RECOMMENDATIONS

WS recommends a continuing deer removal program each year to establish and maintain deer densities near or at 5-8 deer per square mile. After reviewing trends in the data, WS recommends that the TOWNSHIP increase culling operations in 2008. Removal efforts should consist of at least fifteen nights, targeting 200 or more deer. However, the number of nights allocated to culling should incorporate the following factors: (1) nightly mobile unit observations of deer sightings; (2) weather events; (3) vehicle/deer collision rates and; (4) impacts of over-abundant deer on local environments. Increased access to TOWNSHIP and private properties will be essential to obtaining these harvest goals.

WS recommends that the TOWNSHIP conduct a deer population survey (i.e., density estimate) before initiating culling activities in 2007-2008. Relative deer density information is a critical component in determining the overall effectiveness of deer culling operations. This information should be used in conjunction with field observations and collision data to evaluate the current program. As a result of these surveys, the culling program should be modified (if necessary) to achieve the desired deer density throughout the Township.

ACKNOWLEDGEMENTS

Wildlife Services would especially like to thank Walter Jarosh for his continued cooperation with this project. Walter's professionalism and attention to detail were essential to the safe and efficient removal of deer within the Township. Walter has spent countless hours baiting numerous sites. He has also assisted WS with securing access to private properties. Walter is an invaluable partner without whom the culling program would not be as successful.

Wildlife Services would also like to thank our private cooperators, Mark Mansfield, and the entire Upper St. Clair Police Department for their outstanding contributions to a safe and efficient culling program. We would also like to thank the local Wildlife Conservation Officer, Gary Fajak and his deputies for their support of the removal operations. They should be commended for their willingness to support the culling program and helping the TOWNSHIP resolve its over-abundant deer problem.