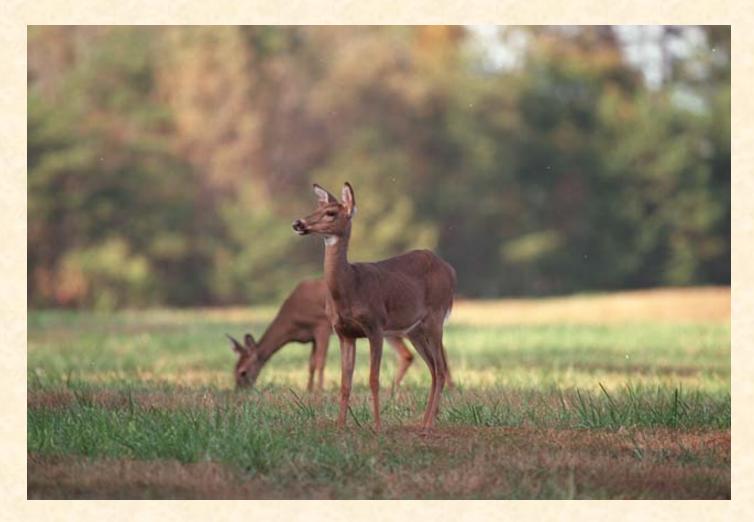
Wildlife Management Activities on the Oak Ridge Reservation (ORR)



Neil Giffen ORR Wildlife Management Coordinator September 2006

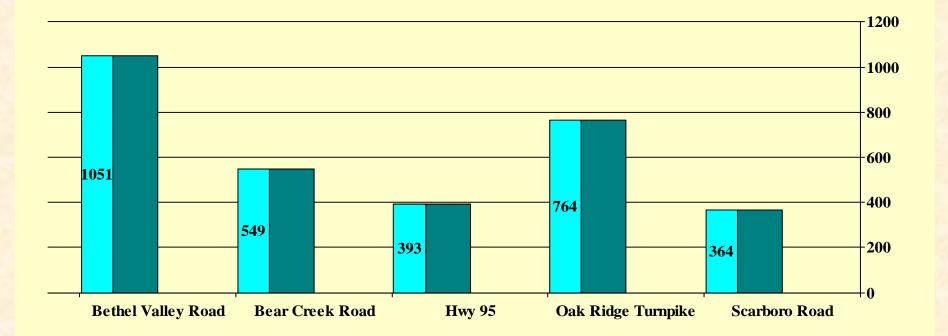


White-tailed Deer Hunt





Deer-Vehicle Collisions on the ORR by Road (1975 – 2005)





Hunts on the ORR, 1985-present

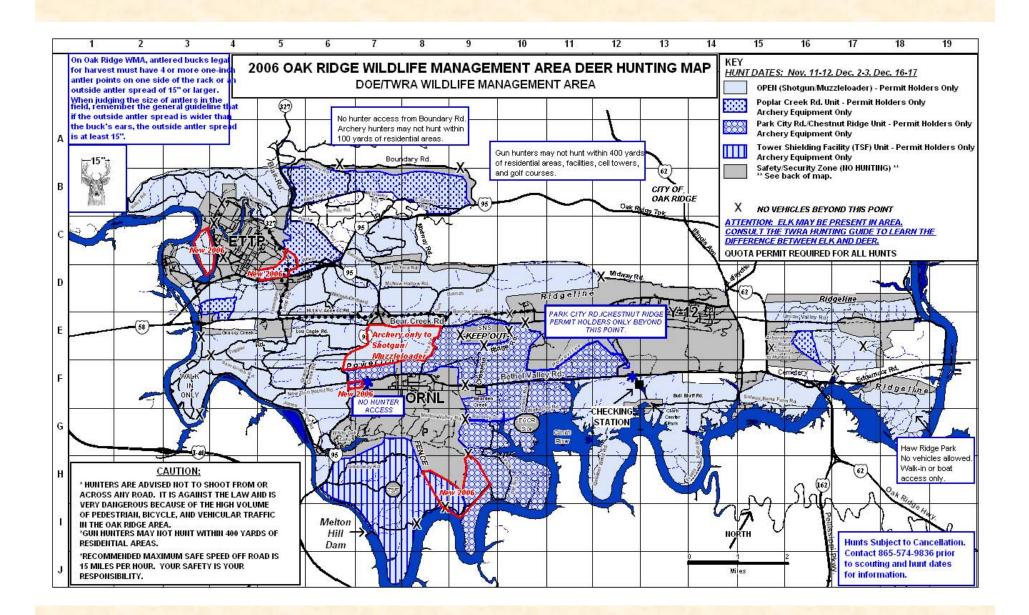
Bucks	5154	55.9%
Does	4061	44.1%
Total	9215	
Retained	183; 1.99%	
Heaviest	218lbs, 1998	
Most points	22	
Avg. Weight	85.6 Lbs.	
Eldest	12 years	
Avg. age	1.9 years	107



Deer Hunt Changes for the 2006 Season

- Hunting Acreage
 - Converted approximately 300 acres from archery to shotgun/muzzleloader.
 - Converted approximately 75 acres from no hunting to shotgun/muzzleloader.
 - Converted approximately 150 acres from no hunting to archery.
- Allowable Take
 - Increased archery take to 3 deer (no more than one antlered).
- Number of Hunters
 - Increased number of hunters for archery hunts.







Wild Turkey Management

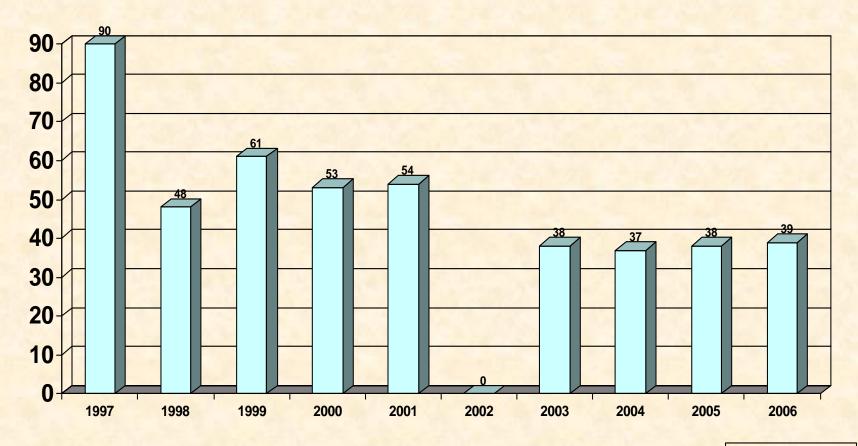


photo by Curtis Boles

- The wild turkey population on the ORR is managed through yearly spring hunts.
- Turkey hunts were initiated in 1997 as a means of managing the increasing population on the reservation. Between 1997 and 2006, 458 turkeys were harvested off the reservation.



ORR TURKEY HARVEST BY YEAR



□ Harvested Turkeys



Canada Geese on the ORR

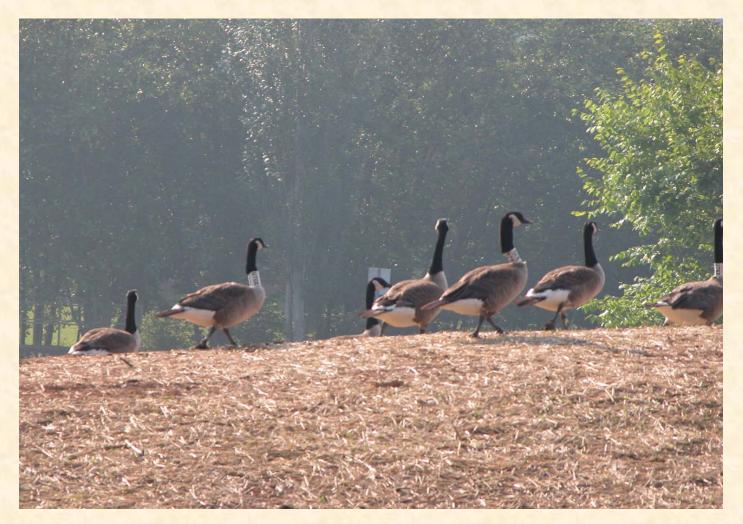


photo by Pat Parr



The Problem with Canada Geese

- Large non-migratory flocks have developed in the past two decades.
 - Canada geese are now nesting in areas where they once only wintered.
 - Over-abundant local goose populations can create social and health problems in urban and suburban areas where they nest, feed and leave droppings.
- The high numbers of Canada geese on the ORR present two main nuisance problems:
 - propensity to leave droppings on sidewalks and parking lots.
 - sometimes aggressive behavior, especially during nesting.



Canada Goose Management on the ORR

- Management techniques used on the ORR to address goose nuisance problems:
 - Addling/oiling eggs to limit nesting success.
 - Addled 60 eggs in 2005.
 - Addled 67 eggs in 2006.
 - Relocation of geese to other areas in east Tennessee. Geese are collected for relocation in yearly round ups during their summer flightless period.
 - Relocated 117 geese in 2005.
 - Relocated 200 geese in 2006.



























Canada Goose Management on the ORR (cont.)

- "No Feeding" Policy artificial feeding tends to congregate geese and other wildlife in a small area where there may be more contact with people, resulting in more aggressive encounters. This also results in concentration of droppings, that can cause aesthetic and potential health concerns.
- Hunting a pilot hunt was initiated in September 2006 at Freels and Solway Bends.
 - Hunting was allowed on two Saturday mornings.
 - Hunters used mainly boat access.
 - Accounted for approximately 12 geese and 6 wood ducks harvested by hunters from DOE property.



Canada Goose Management on the ORR (cont.)

- Habitat modification
 - Reduction in preferred habitat for geese; preferred habitat is large, unobstructed lawn area close to open water.
 - Elimination of islands in ponds; these serve as prime nesting sites for geese.
 - Modification of uninterrupted shorelines using shrubs or boulders.
 - Establishment of vegetative barriers (shrubs, prairie grasses) that will block pathways or obstruct line of sight making areas less attractive to geese.
 - Reduction in mowing of grass areas; geese prefer young grass shoots; they have more difficulty locating new shoots in taller grass (more than 6 inches).
 - Establishment of habitat in natural areas of the reservation (e.g., Three Bends Area).



Canada Goose Management on the ORR (cont.)

Other potential tools currently used by others:

- Use of dogs for harassment some entities have used trained border collies or other breeds to flush geese away from unsuitable areas; dogs must be extensively trained and used on a regular basis in combination with other techniques in order to be successful.
- Use of radio-controlled boats to flush geese from ponds.



Bat Surveys on the ORR





Survey Methods Used on the ORR

- Anabat Acoustic Bat Identification System
- Mist Netting
- Cave Surveys



Recent Survey Results

- Survey of 5 sites, July 21-27, 2003.
 - Anabat Surveys.
 - Freels Bend big brown bat, eastern pipistrelle, eastern red bat, gray bat
 - East Walker Branch eastern pipistrelle, eastern red bat
 - Bear Creek near Hwy 95 big brown bat, eastern pipistrelle, eastern red bat
 - McNew Hollow near Hwy 95 big brown bat, eastern pipistrelle, eastern red bat
 - Mist Netting.
 - Bear Creek near Hwy 95 big brown bat
 - McNew Hollow near Hwy 95 big brown bat, eastern red bat
 - East Fork Poplar Creek near Scarboro Rd big brown bat, eastern pipistrelle, eastern red bat
- Survey of Pond K1007 P1, ETTP, August 14-16, 2004.
 - Anabat Surveys
 - big brown bat, eastern pipistrelle, eastern red bat, gray bat



Recent Surveys (cont.)

- Survey of 4 Caves at ORNL, July 24-28, 2006.
 - Cave surveys
 - Big Turtle Cave one unidentified bat
 - Mist netting at cave entrances
 - Big Turtle Cave eastern pipistrelle, northern long-eared bat
 - Little Turtle Cave eastern pipistrelle, little brown bat, northern longeared bat, seminole bat, gray bat
 - Copper Ridge Cave little brown bat, northern long-eared bat
 - Pinnacle Cave big brown bat







Significant Findings of Recent Bat Work

- Two bat species not previously reported for the ORR were captured in 2006.
 - Little brown bat, which is relatively common in the region.
 - Seminole bat, for which there are few records in Tennessee.
- Gray bats (federally endangered)
 - Recorded on the ORR using the Anabat system.
 - Freels Bend in 2003.
 - K1007 P1 Pond, ETTP in 2004.
 - Captured in mist nets.
 - Little Turtle Cave in 2006.
 - Because gray bats roost in caves during both summer and winter, bats detected and captured recently were probably from a gray bat summer roost.
 - Because two of the bats captured in 2006 were newly volant young, their summer roost is very likely in close proximity to Little Turtle Cave.
 - ORR studies show presence only along major watercourses and in areas with significant cave systems.



Nuisance Wildlife Management



•Adaptable wildlife, such as raccoons, opossums, and skunks, can cause nuisance problems when they enter buildings to find den sites and frequent open dumpsters in search of food.

•Wildlife managers on the ORR encourage good building maintenance and closure of dumpsters to discourage entrance by these animals. Animals that do become a nuisance are trapped and removed from the area.



Nuisance Wildlife Management



•Nuisance birds, such as starlings, house sparrows and pigeons, can cause concerns with their propensity to nest and roost in buildings. ORR wildlife managers encourage good building maintenance and keeping other points of entry (e.g. doors and windows) closed wherever possible. Keeping outdoor eating areas clean of food scraps is also important in keeping these birds away.





