



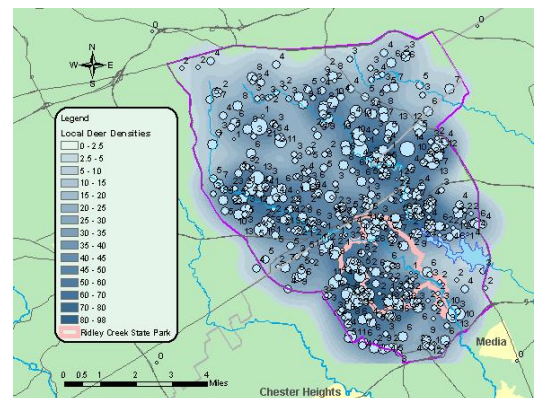
Full Spectrum Deer Management Services



Wildlife Specialists, LLC, offers full spectrum custom deer management services designed to meet the specific project goals of our clients from individual landowners to entire communities. We help select and conduct the appropriate surveys, generate GIS maps, hold public meetings, design habitat enhancements, assess management options, and develop site-specific plans. All of our recommendations are based on the principles of Quality Deer Management.

Our experts have coordinated some of the largest-scale surveys in the history of deer and habitat management. Specifically, we have designed and implemented aerial FLIR surveys and habitat browsing surveys. To date, our experts have developed the protocols considered state-of-the-art in deer density estimation by the pellet group technique and in habitat browsing and regeneration surveys. In addition, we have co-authored numerous reports and publications on deer management.

Deer Management Services Include:

- **Facilitated Private and Public Meetings** to discuss deer management options and develop consensus within the community
- **Develop and use educational and informational products**
 - Reports
 - Fact Sheets and Brochures
 - Presentations
 - Web page content
 - Deer enclosures and interpretive signage
- **Deer Density Surveys** to obtain baseline local deer population information
 - Distance Sampling (Spotlight or Daylight)
 - Pellet Group Surveys

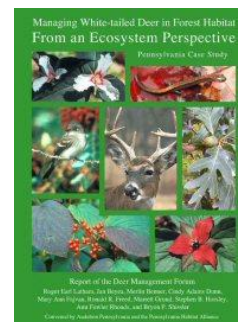


- Browsing and Habitat Surveys – Impact Analysis
 - Baited Camera Surveys
 - Aerial Surveys for deer using daytime or infrared technologies
 - Deer Condition Assessments from Check Stations
 - Deer Aging
 - Combinations of the above techniques designed to specifically suit the client’s needs and goals
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- **Deer Browsing/Forest Regeneration Vegetation Monitoring Survey**
 - **Deer Damage Assessment**
 - Public Opinion Surveys
 - Tracking of Statistics on deer-vehicle collisions, incidence of Lyme disease, agricultural and landscape damage, and others variables
 - **Generate GIS maps** of properties to aid in planning and display results
 - **Develop Localized Deer Management Plans** incorporating deer population parameters, goals and objectives, ecosystem characteristics, damage management, and other issues
 - **Design Habitat Enhancements** to meet management objectives
 - **Deer Deterrent Fencing**
 - **Deer Tick Reduction Programs**
 - **Training of Local Groups of “Qualified Hunters”**
 - **Obtaining Special Deer Management Permits**
 - Deer Management Assistance Program (DMAP)
 - Nuisance Deer Control Permits
 - **Deer Population Control**
 - Expert Sharpshooting (conducted February 1-September 30 in Pennsylvania)
 - Controlled Hunting
 - Trap and Euthanasia
 - (meat from deer is processed and donated to food banks or needy families)
 - **Radio-telemetry studies** to assess deer movements and habitat use
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Staff Deer Research, Survey, and Management Experience:

Merlin Benner:

- Deer Research in Maine on wintering areas, use of trees for rubbing, and density estimation
- Deer Research on proximate mortality factors
- Conducted Deer Research on contaminant uptake by deer in South Carolina, including the use of Deer Sharpshooting
- Assisted with Deer Sharpshooting in Tennessee State Parks
- Developed a Deer Management Plan for the PA DCNR's State Forests
<http://www.dcnr.state.pa.us/forestry/deer/index.aspx>
- Deer Aerial Surveys for PA DCNR – multi-year, hundreds of thousands of acres
- Deer Density and Browsing Surveys for PA DCNR – multi-year, largest in history to date, covering 2.1 million acres of state forests
- Coordinated Deer Management activities for PA DCNR, including public communications, survey and monitoring activities, research, and implementation of Deer Management Assistance Program
- Aged Deer and Collected Biological Data at Deer Check Stations in several state parks
- Coordinated the Quality Hunting Ecology program for PA DCNR in Cooperation with the Sand County Foundation
- Served on Deer, Forests, and Farms Committee
- Conducted landowner workshops on the use of the Pellet Group Technique for Deer Density Estimation
- Represented PA DCNR testifying numerous times before the PA Game Commission and the PA Legislature
- Worked with managed deer hunting in PA State Parks
- Presented numerous informational talks to the public for organizations and seminars
- Working on Deer Management Planning for several private landowners and commercial forest management companies in Pennsylvania, Maine, and Quebec
- Participated in the Deer Management Forum of the PA Audubon
http://pa.audubon.org/deer_report.html



Chris Voorhees:

- Conducted Human Dimensions in Wildlife research on Deer Hunting Participation
- Conducted Human Dimensions in Wildlife research on Landowner Attitudes related to Deer
- Conducted Human Dimensions in Wildlife research on The Future of Hunting in PA

Jon Felton:

- Managing three properties of 125 (IN), 210 (NY), and 500 (PA) acres using Quality Deer Management principles
- Obtained certification as a Deer Steward I & II through the Quality Deer Management Association
- Presented findings on QDM strategies to the public in several meetings
- President of the local chapter of the Quality Deer Management Association
- Conducted Deer Density and Population Surveys using Baited Infrared Surveys
- Collected Deer Age and Weight Data from harvested deer
- Collected Deer Visual Observations

Tom Swimley:

- Working on Deer Management Planning for several private landowners and commercial forest management companies in Pennsylvania, Maine, and Quebec
- Conducted Deer Density Surveys using Pellet Group Technique, Browsing Surveys, and Baited Cameras
- Collected Deer Age, Reproductive Condition, and Weight Data from Harvested Deer
- Treasurer/Executive Board Member of local Quality Deer Management Association chapter

Cumulative total of greater than 120 years of experience in Quality Deer Management on local properties (Individual projects sizes of 125, 210, 500, 750, 14,000, 35,000, and 55,000 acres).

Brian Benner:

- Wildlife Pest Control Operator
- Nuisance Deer Control Operator

Special Qualifications:

2 Certified Wildlife Biologists ® - The Wildlife Society
1 Associate Wildlife Biologist – The Wildlife Society
1 Nuisance Deer Control Operator - Pennsylvania Game Commission
Deer Steward I & II – Quality Deer Management Association
4 Members of Quality Deer Management Association



Deer Publications and Citations:

Latham, R. E., J. Beyea, M. Benner, C. A. Dunn, M. A. Fajvan, R. R. Freed, M. Grund, S. B. Horsley, A. F. Rhoads, and B. P. Shissler. 2005. *Managing deer from an ecosystem perspective: Pennsylvania case study*. Report by the Deer Management Forum for Audubon Pennsylvania and Pennsylvania Habitat Alliance, Harrisburg, Pennsylvania.

Benner, J. M., and R. T. Bowyer. 1988. Selection of trees for rubs by white-tailed deer in Maine. *J. Mammal.* 69(3):624-627.

Voorhees, C. S. (2007). *A Mixed-Method Examination of Factors Related to Hunting Participation*. Dissertation, The Pennsylvania State University, University Park PA.

Voorhees, C. S. (2002). *An Assessment of Landowner Attitudes Toward Deer in Milford, Pennsylvania*. Unpublished master's thesis. The Pennsylvania State University, University Park PA.

Wickham, T., Mueller, T. Karnash, P., Zinn, H., and Voorhees, C. 2005. *The Future of Hunting in Pennsylvania: Final Report*. Center for Rural Pennsylvania.

Zinn, H.C., Voorhees, C.S., & Shen, S.X. *Social assessment for the Allegheny National Forest*. USDA Forest Service Project Report, Allegheny National Forest. University Park, PA: The Pennsylvania State University, Department of Recreation, Park & Tourism Management.

Professional Deer Presentations:

Deer and Pennsylvania's forests - a historical perspective. Pennsylvania Recreation and Parks Society Conference, State College, PA. March 1996.

Proximate mortality in non-hunted white-tailed deer populations. 68th Annual Meeting of the American Society of Mammalogists, Clemson University. June 1988. (With W. P. Smith).

White-tailed deer use of forest openings in Maine. 12th Maine Biological and Medical Sciences Symposium, Westbrook College. 1986. (With R. T. Bowyer and D. R. Shoemaker).

The Future of Hunting in Pennsylvania: Analysis of Participation. The Wildlife Society, September 2005.

The Future of Hunting in Pennsylvania: A Preliminary Analysis of Hunting Participation. Northeast Fish and Wildlife Conference, April 2005.

An Assessment of Landowner Attitudes Toward White-tailed Deer in Milford, Pennsylvania. International Symposium for Society and Natural Resources, June 2004.

Presentations to the Pennsylvania Game Commission at the Seasons and Bag Limits Hearings several years.

Presentations to the House Game and Fisheries Committee, the Pennsylvania Federation of Sportsman's Clubs, the Pennsylvania State Forest Leased Camp Owners Association, the Pennsylvania Recreation and Parks Society, local Audubon Chapters and hunting clubs, and the Governor's Sportsman's Advisory Council on the results of the Deer Density and Browsing Surveys of the State Forests and the Aerial Deer Surveys of the State Forests.

