

Montgomery County Deer Management Program



Annual Report and Recommendations FY 2010

Prepared by
Montgomery County Deer Management Work Group
Rob Gibbs, Chair
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The Montgomery County Deer Management Work Group

Maryland Department of Natural Resources Wildlife and Heritage Service,
M-NCPPC, Montgomery County Department of Parks
Montgomery County Cooperative Extension
Montgomery County Police Department
USGS, Biological Services Division, Patuxent Wildlife Research Station
U. S. National Park Service
Washington Suburban Sanitary Commission

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Introduction

The Comprehensive Management Plan For White-tailed Deer in Montgomery County, MD, (Montgomery County Deer Management Work Group, 1995) calls for the Montgomery County Deer Management Work Group (DMWG), on an annual basis, to review deer-impact data and present a list of recommendations for the upcoming year. Recommendations are submitted to and implemented by County and State agencies and private landowners as appropriate.

This report briefly reviews the current status of the County's Deer Management Program, makes recommendations for FY 2010 (July 1, 2009 to June 30, 2010) and describes the rationale upon which these recommendations are based.

Information on all aspects of the County's Deer Management Program is available on the Internet at www.parksdeermanagement.org. The website includes data from the past 14 years on deer-vehicle collisions, impacts to natural ecosystems, damage to agricultural crops, local deer populations and other pertinent information about the program including locations and application procedures for managed hunts on County Parkland. Comments and specific questions regarding this report can be addressed to Rob Gibbs at rob.gibbs@montgomeryparks.org or 301-949-2909.

Citizen Notification and Comment Periods for Proposed Managed Hunts on County Parkland

A new method of notifying citizens about M-NCPPC managed hunts and receiving public comments was initiated 2005 and will be continued. Instead of holding public meetings, which had very low attendance in previous years, M-NCPPC will publicize this information through press releases to local newspapers, planning board agendas, and the Internet. Following these public announcements there will be a comment period during which citizens can submit comments through the mail, e-mail, or by telephone. It is felt that this will provide greater and more convenient opportunities for citizens to learn about and comment on deer population management actions that are proposed on parkland throughout the county. Information will be provided at www.parksdeermanagement.org.

Goal and Objectives

The goal of Montgomery County's deer management program is to reduce deer-human conflicts to a level that is compatible with human priorities and land uses. The deer management plan lists four objectives for attaining this goal.

1. Reduce, on a countywide basis, the number of deer-vehicle collisions (DVCs).
2. Reduce depredation on agricultural crops and home landscapes to levels acceptable to county residents.
3. Reduce negative impacts of deer on natural communities to preserve native plant and animal diversity.
4. Continue a countywide education program to provide residents with information on deer, deer problems and how to minimize or prevent deer-human conflicts.

Overview of Deer Management Program

The Deer Management Program has been in operation since 1995. During the past 14 years many deer management actions have been implemented in the county and progress has been made in addressing many of the negative impacts associated with high deer populations. The following sections outline the actions and accomplishments of the program to date and the current status of the various deer impacts including the progress we have made and problems that still need attention. For those interested in additional data related to the program visit www.parksdeermanagement.org and click on "Deer Data 1996-2007", under quick links.

Deer Program Accomplishments

FY2009

- In response to recommendations from last year's report, the Montgomery County Division of Solid Waste Services (DSWS) began the process of implementing deer population management on the approximately 800 acres of County owned property that they manage in the Dickerson area between Martinsburg and Wasche Roads. The goal of this effort is to help reduce impacts to agriculture in the area.
- In response to recommendations from last year's report The Montgomery County Revenue Authority (MCRA) began the process to re-implement deer population management on the Northwest Branch Golf Course in cooperation with M-NCPPC's deer management program.
- The M-NCPPC continued its deer population management program in 19 parks covering over 15,000 acres.
- Significant efforts were made to publicize the changes to the County Weapons Law that were completed in 2007 (see section below for more information) to insure better public awareness of the current regulations related to hunting; especially in the urban zone.
- Seneca Creek State Park re-implemented management in the day-use area of the park.
- The website and brochure titled, "Living with White-tailed Deer in Montgomery County Maryland" were reviewed and updated.

Other Deer Management Actions Implemented to Date

- A comprehensive educational program on deer, their impacts and remedial methods including: informational brochures and publications, library materials, phone numbers for help, the seasonal use of Public Service Announcements about deer-vehicle collisions, local Cable TV Programs on deer management in the county, programs on deer through County nature centers.
- The DMWG working with other local government agencies through the Council of Governments (COG) completed and released an educational video on preventing Deer-vehicle collisions. This program began being aired on Montgomery Cable TV during the peak seasons for deer vehicle collisions and is available for use in local government and private driver education programs.
- County deer information Internet web page (www.parksdeermanagement.org) with educational information, phone numbers for reporting deer damage and receiving helpful information (301-949-2909/4149 or 1-877-463-6497).
- An extremely successful program of workshops for homeowners on protecting their property from deer damage. Well over 1600 county residents and landscape professionals have attended. Community groups can schedule a program by calling 301-590-2809 or 301-949-2909.
- Wildlife reflector systems and experimental warning signs were tested at eight locations along County roads identified as having high numbers of deer-vehicle collisions. These signs have proven to have no effect in reducing DVCs and are no longer being employed.
- Improved data collection for deer-vehicle collisions and other impacts using GIS system mapping.
- Program to identify and monitor impacts to natural vegetation on County Parkland.
- Cooperative effort with County and State road agencies to better address deer-vehicle collisions (DVCs) through roadway design.
- Cooperative effort with M-NCPPC Transportation Planning Office to review projects that include

bridges that cross wildlife corridors in order to allow for safe passage of wildlife under roadways.

- Cooperative effort with Washington area Council of Governments (COG) to reduce DVCs regionally.
- Cooperative effort with County and State park officials to initiate deer population management in parks where high deer populations were contributing to high numbers of DVCs, and other impacts.
- Cooperative effort with MD Department of Natural Resources to adjust hunting regulations to help increase antlerless deer harvest in order to reduce deer populations in areas open to hunting.
- Changes were made to County Code in early 2003 to allow for use of 8-foot deer fencing in residential side and backyards and all types of fencing on agricultural properties.
- The Department of Economic Development (DED), working closely with the DMWG, conducted a successful workshop for Agricultural growers in 2004 on implementing effective deer population management program. DED continues to work with farmers to reduce deer damage to crops
- The DED, working closely with area farmers, has established two refrigerated storage facilities – one in Poolesville and the other near Laytonsville - to facilitate the ability of farmers to better manage deer on their property and donate the meat to charity. Several local farmers coordinate the program.
- M-NCPPC initiated a workshop in 2007 of local and regional government agencies and wildlife experts, who are currently conducting deer population management in this and other regions, to assess the state of the art of this work and develop new strategies for addressing non-traditional deer population management in suburban settings.
- In late 2007 changes were made to County Code firearms regulations related to hunting to better match state regulations and facilitate deer management on private land.
- A Lyme Disease Awareness Task Force in 2008 developed a citizen awareness program to promote better understand of the disease, its causes and prevention. The effort included new educational materials, a website, and educational signage in park areas.

Deer-vehicle Collisions

Deer-vehicle Collisions (DVCs) countywide (see table 1 and figure 1) have leveled off to a slight downward trend since 2000 after rising much more steeply through the mid-1990s. Last year’s count of 1,841 DVCs was slightly lower than the previous year (1867). This is the sixth year in a row for such a decline. This is a positive sign especially given that population has increased by over 10%, since 2000 and total vehicle miles traveled in the County increased by approximately 11% between 2000 and 2006.

Table 1. Deer-vehicle Collision Data 1994 - 2008

Source	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
MCPD^a	1,343	1,244	1,776	1,705	1,774	1,891	2,033	2,003	2,127	2,047	1,997	1,969	1,951	1,867	1,841
Animal Control^b	447	509	521	547	631	1,059	1,112	1,123	1,194	1,180	1,086	1,340	1,347	1,407	1,169
SHA^c	211	192	200	390	608	572	675	713	NA	341	NA	756 ^c	780	311	NA

a - Montgomery County Police Department – This is the most comprehensive and systematically collected data set and the one used as the “official” number for deer-vehicle collisions in the County.

b – Montgomery Police Animal Control. This data set provides the best location data for mapping.

c - State Highway Administration (new methodology begun in 2005 may have resulted in increased reporting)

NA = Data Not Available

Several approaches have been taken to reduce DVCs countywide including education, use of signage, structural design (e.g. designing bridges and fencing where possible to keep deer off roadways; see “Deer

Program Accomplishments” above) and Deer Population Management (see that section below).

Between 1996 and 2002, Montgomery County Police analyzed DVC data on roads surrounding several parks where management was conducted. In each case, data showed a significant and sometimes dramatic decline in DVCs as deer populations were reduced. More recent DVC data strongly suggest that this is the case at most deer population management sites.

While accidents have declined around parks where population management has been employed, other areas have seen an increase. These are mostly more urban/suburban areas where conducting deer population management is more problematic and limited. See the sections below titled “Deer Population Management” and “Education” for more discussion on how these efforts impact DVCs.

Agricultural Damage

In 2004 the County’s agricultural community declared that deer overpopulation was the number-one threat to farming in the County. Consequently, agricultural damage has been a particular focus of the DMWG’s recommendations for the past several years and continues to be an important concern. The nationally acclaimed Agricultural Preserve is an important component of the County’s General Plan. It helps maintain open space and contributes significantly to the county’s character and quality of life. The existence of the Agricultural Preserve depends on the continued viability of agriculture.

A 2004 survey of County farmers indicated significant losses to agricultural crops due to deer browse. Thirty-six (36) farmers reported losses on corn, soybeans, wheat and hay. Thirty-four (34) producers reported losses on tree fruit, small fruit or vegetables. Twenty-seven (27) producers suffered losses on nursery, Christmas trees, grapes and other agricultural crops. In all, over 2000 acres of agricultural land has been removed from production due to deer crop damage and 2/3 of survey respondents believe crop damage from deer is on the increase.

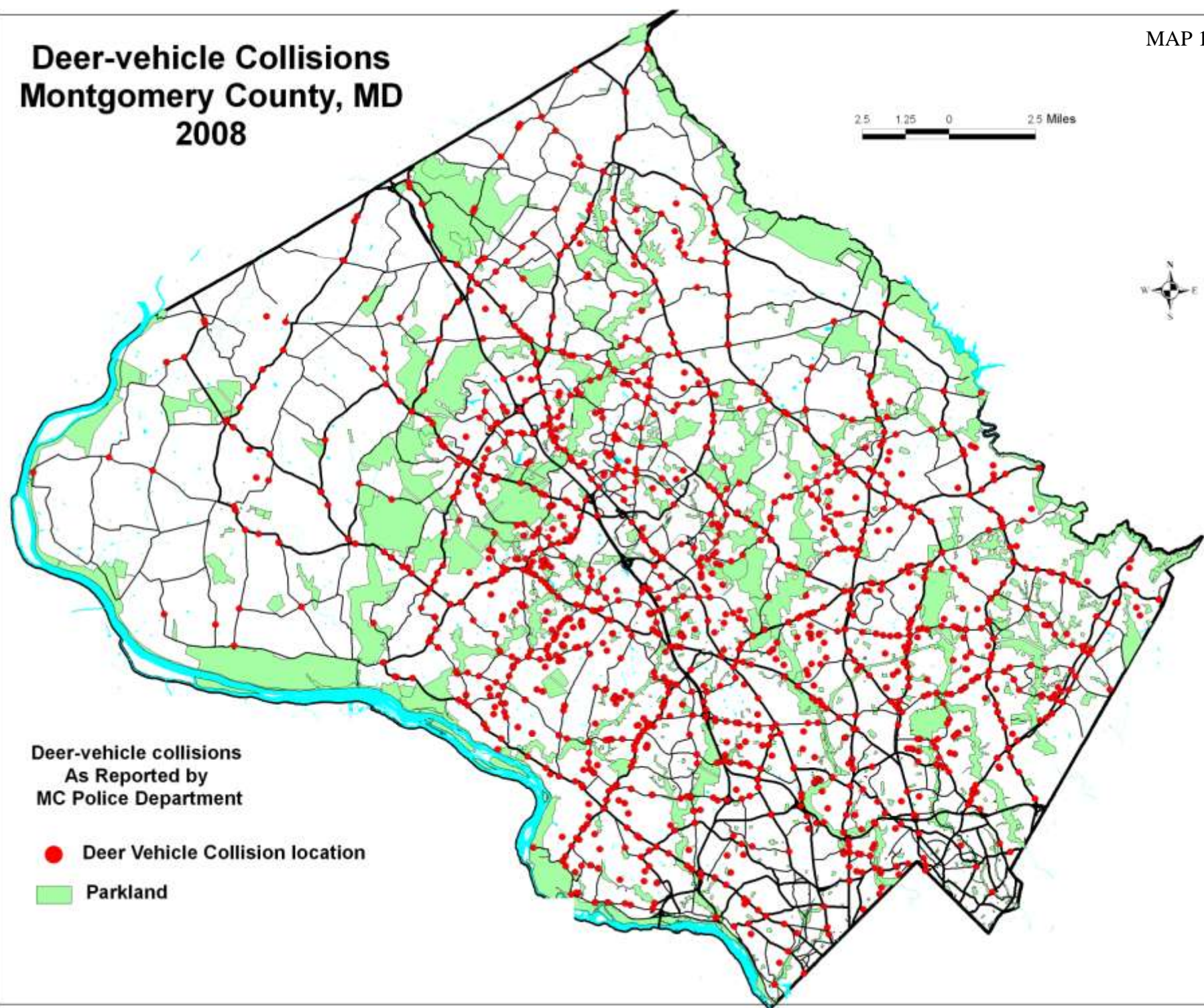
Farmers are using a variety of strategies to attempt to minimize damage to their crops. Thirty-seven (37) have used fencing and/or cages around tree trunks to prevent rubbing damage. The farmers generally report that fencing as being effective in limiting damage to crops but at a significant cost to the individual farmer. Thirty-two (32) reported using deer repellents with very limited success. Nine (9) farmers were using scare tactics other than having dogs (i.e. noisemaking devises, motion activated lights, etc.). Forty-seven (47) have used dogs as deterrent with most indicating some success with this method. Deer control methods that rely on live dogs or noise making devices can be bothersome to neighbors. Possible effects on neighboring properties must be considered when considering options for deer management.

Over 100 landowners allowed hunting and/or used crop damage permits in an effort to control deer populations. Many feel higher deer harvest will help limit crop damage.

The 2007 Wildlife Damage Survey conducted by Maryland Agricultural Statistics indicated central Maryland farmers had sustained losses of over \$2.6 million due to deer browse. The central Maryland area includes Montgomery, Baltimore, Carroll, Frederick, Harford, Howard and Washington Counties. Damage in the central Maryland region is reported to be much higher than in other areas. Higher crop prices in 2007, 2008 and 2009 have contributed to increased economic losses. Crop damage losses on corn and soybeans will exceed \$800,000 in 2009 with just a 5% crop loss across the entire crop. Field losses can range as high as 50 % in some areas. Some deer damage occurs in almost every field and on almost every crop. Overall, deer damage does not appear to have declined significantly despite more aggressive population control measures on both public and private land.

Many changes have been made to State and local regulations and educational programs in recent years aimed at helping the agricultural community reduce deer damage to their products. These efforts have made an impact but crop damage by deer remains a problem for local farmers.

Deer-vehicle Collisions Montgomery County, MD 2008



Deer-vehicle collisions
As Reported by
MC Police Department

- Deer Vehicle Collision location
- Parkland

Impacts to Home Gardens and Landscaping

Many residents are still experiencing impacts to home gardens and landscaping. Though much work remains to be done, many citizens are taking advantage of the educational materials, workshops, and regulation changes that have been made to help them reduce impacts to their home landscapes.

Complaint calls have increased in the past year coming mostly from more urban areas in the County including: lower Rock Creek Stream Valley, Sligo Creek Stream Valley, the Paint Branch - Colesville area, Potomac, Rockville and Olney. Most come from fairly densely populated areas surrounding narrow strips of parkland or in some cases areas with few parks but where well forested housing lots provide habitat for deer herds. As mentioned elsewhere in this report, these areas pose a real challenge to safe deer population management. Various options are being explored.

Homeowners experiencing deer damage can call for information and register their complaint at 301-949-2909/4149. Homeowner or Community Associations that would like a free workshop on controlling deer damage around the home can call 301-590-9650 or 301-949-2909. The Maryland Department of Natural Resources webpage at www.dnr.state.md.us/wildlife/ddmtintro.asp lists various deer management options available to homeowners and communities.

Impacts to Natural Communities

An overabundance of deer can have a profound impact on native vegetation and habitat for other wildlife. Park studies and observations have shown that where deer populations are high forest trees are not reproducing, the park understory of shrubs and wildflowers is being destroyed and rare plants are declining and in many parks have disappeared due to deer feeding habits. The only way to reduce damage to natural communities is to reduce deer populations within park areas. The Department has undertaken an aggressive program of deer population management – see section below titled “Deer population Management” for more details on this effort.

Even after deer populations have been reduced, recovery of vegetation may occur slowly over many years. Current staffing and funding has not permitted detailed studies to quantify the extent of vegetative recovery in parks where management is taking place. However, general observation by long-time naturalists and other qualitative information strongly suggest that understory vegetation and tree survival is increasing where deer populations have been reduced. A number of species, especially orchids and lilies that had not been seen for years are now blooming again as well, though in limited numbers. As discussed below under “Deer Population Management,” deer reductions are fairly local and new management techniques will be required to address impacts to the smaller, more urban park areas in the County.

Educational Program

Education is a cornerstone of the Countywide Deer Management Program. In order to achieve the deer plan’s goal of reducing deer impacts to acceptable levels, two things must happen, 1) Deer populations must be managed – see more on this throughout this report and 2) just as importantly, County residents must become educated in how to live with deer and how to minimize their negative impacts. A long list of educational efforts is described under “Deer Program Accomplishments” and includes: homeowner workshops, brochures, educational programs at Nature Centers and on County Cable Television, a new DVD on avoiding deer-vehicle collisions, regular public service announcements and talks for local citizen groups. As citizens become more educated on ways to reduce deer impacts and begin to put this education into practice (e.g. adopt driving habits that help avoid deer-vehicle collisions, or use different methods to protect their home landscaping or farm crops) they will lower deer impacts and raise their tolerance for deer in the landscape.

Lyme Disease

Lyme Disease is a bacterial illness transmitted through the bite of the Black-legged Tick. Early symptoms range from flu-like headache, fever, and general fatigue to joint and muscle pain. A circular rash may occur in 70-90% of individuals. If left untreated, the disease can become chronic and debilitating. Lyme Disease continues to be a growing concern in the county.

Over the winter of 2007/2008, the County Executive established a Task Force on Lyme Disease Awareness, chaired by The Montgomery County Department of Health and Human Services (HHS), and declared May 2008 to be Lyme Disease Awareness Month. The County has developed a new brochure and website with the latest information on Lyme Disease and its prevention. Warning signs have also been posted in park areas and on trails to remind users of the problem. The Task Force continues to meet periodically.

While Lyme Disease is often linked to deer management in the mind of the public because it is transferred through the bite of the so-called deer tick (the new accepted name is the black-legged tick), it is widely accepted that reducing deer numbers cannot effectively control the spread of the disease. Black-legged ticks feed on many species of mammals and birds and most often pick up the disease by feeding on infected mice and chipmunks, not deer. For these reasons, Lyme Disease is best viewed as a public health issue.

The Montgomery County Department of Health and Human Services (HHS) tracks cases of Lyme Disease and provides education for the public and health professionals. Increased surveillance by HHS beginning in 2005 resulted in a dramatic increase in cases from 39 in 2004 to 216. Cases in 2006 and 2007 were 228 and 238 respectively. In 2008, the CDC changed the case definition for a Lyme disease case. The number of cases was expected to drop based on the new case definition. In 2008, the number of cases of Lyme disease reported to Montgomery County was 247 (confirmed and probable), with an additional 210 "suspect" cases. Whether the increase over the past few years is actual or reflects continued improvement and fine tuning of data collection efforts is unclear. Several more years of data are needed at this new effort to fully evaluate any trends. It should be noted however, that even with the jump in reported cases resulting from better surveillance, case rates per 100,000 residents in Montgomery County (46.1) are lower than most other counties and about average for the State (see chart 1).

Part of the increased effort to track Lyme Disease is resulting in increased feedback and education to the medical community. Each doctor who has a patient with a positive test for Lyme Disease receives surveillance materials including information on detection and treatment. This is important for a number of reasons. When caught early Lyme Disease is usually easily treated with antibiotics. The disease, however, can be difficult to diagnose because many tests are unreliable and the symptoms resemble those of other ailments including the flu and arthritis. Left untreated Lyme Disease can become chronic resulting in long-lasting and debilitating health problems. This most often results when it is not diagnosed and treatment is delayed for an extended period of time. The increased education efforts directed at the public and doctors should help ensure that the disease is detected and treated more quickly. Over 1600 letters were sent to providers in 2008.

Additional efforts by the Department of Health and Human Services to address Lyme Disease include:

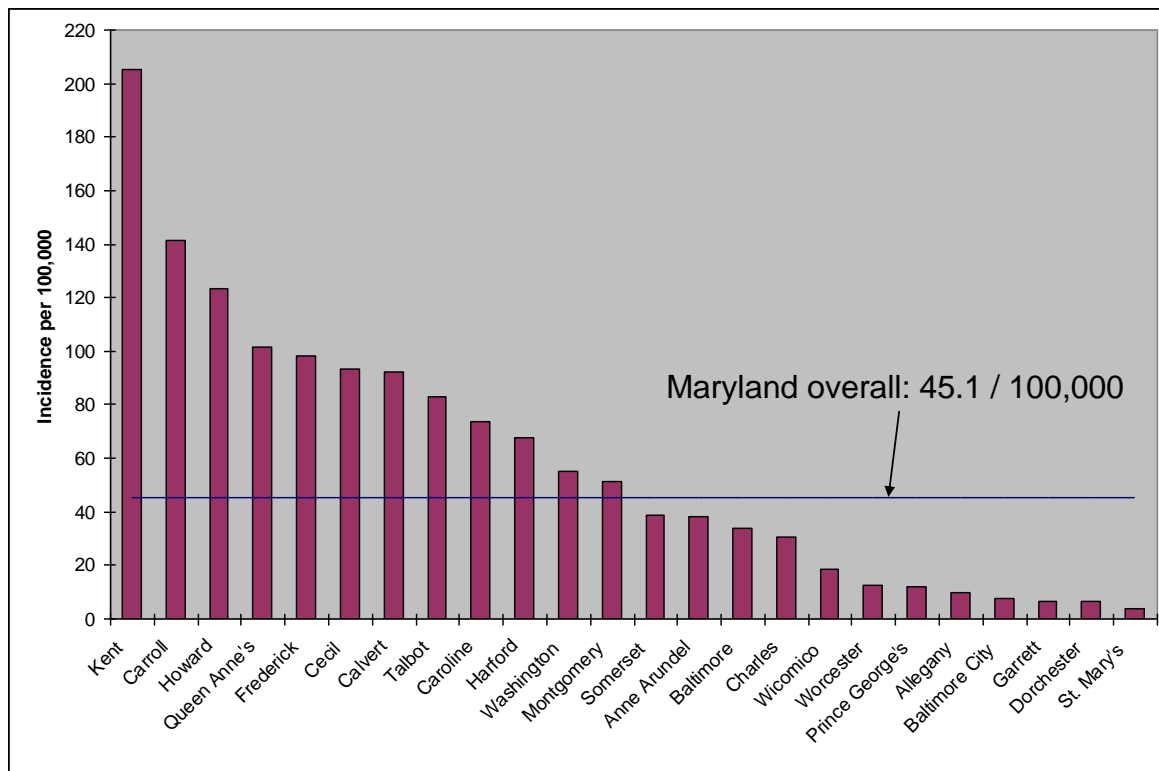
- Presentations in the community
- Distribution of literature on Lyme Disease prevention
- Counseling of individual patients on prevention
- Surveillance on +lab slips to identify true cases
- Referrals to physicians for diagnosis and treatment
- Education of community physicians on Lyme Disease diagnosis and treatment

Montgomery County promotes personal protection from ticks and awareness of the symptoms of the illness as the best defense against Lyme Disease. General information is available at:

- The Montgomery County Department of Health and Human Services - www.montgomerycountymd.gov/lymedisease or 240-777-1755
- The Centers for Disease Control – www.cdc.gov.
- The Lyme Disease Foundation - www.lyme.org; 24 hour information line at 800-886-5963.
- The National Capital Lyme and Tick-Borne Disease Association has information and offers local support groups - www.natcaplyme.org or (703) 821-8833.
- The American Lyme Disease Foundation, www.aldf.com/fourPoster.shtml - has information on a product to help reduce the number of ticks in an area called the four poster feeder.

Chart 1 Lyme Disease Case Rates by Select Jurisdictions, Calendar Year 2007

Lyme Disease Incidence, Maryland, 2007



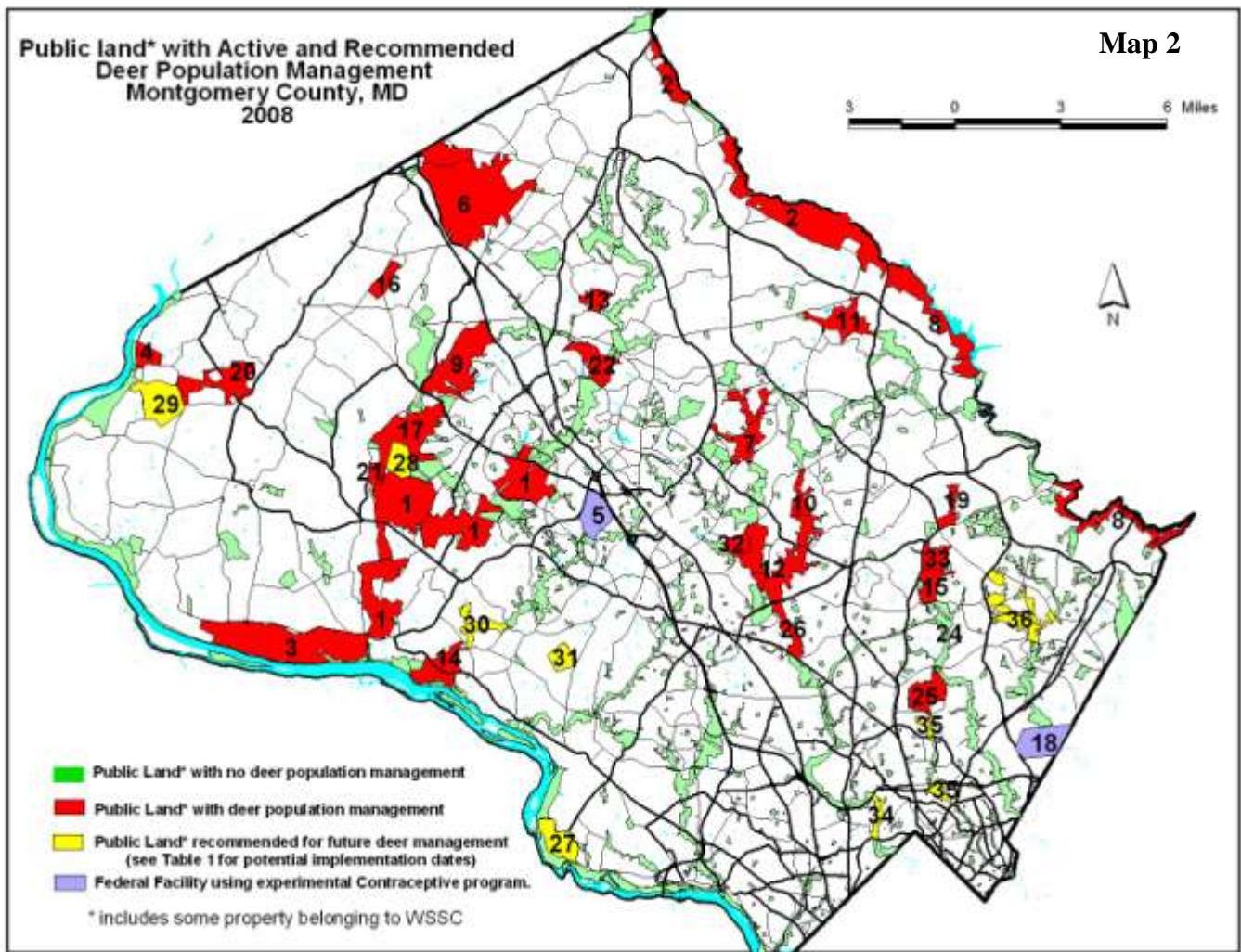
Deer Population Management

Based on trends in deer hunting harvest data for the county, DNR believes that deer populations are stable or declining within areas of the county where hunting occurs. DNR has significantly liberalized antlerless bag limits during the past decade that promote the harvest of female deer which effectively limits population growth. However, as urbanization of the county continues, regulating the deer population will become even more difficult, as lethal management via hunting often is not an option in urban and suburban settings.

Several strategies have been taken over the past 14 years to help reduce deer populations in areas where

traditional hunting is limited including parkland and suburban/urban areas. These include managed hunts on State and County parkland and property managed by the Washington Suburban Sanitary Commission (WSSC). Sharpshooting (shooting of deer at night by specially trained marksman under very safe conditions) is being employed in some county parks where hunting is not an option. Regulation changes to facilitate population management on private properties include, changes to County weapons laws as well as State hunting regulations.

Deer population management was conducted on 25 parcels of public land in FY09 totaling over 27,000 acres. These included 19 County parks, 3 state park/wildlife management areas, 2 federal facilities, and WSSC property. Population management efforts are now in place on most large parcels of public parkland in the county (see figure 2 and table 1). Populations are being reduced and associated deer impacts are declining. However, due to the small home range of deer, the effects of these efforts remain localized. Outside of these areas deer populations remain high or are increasing due to lack of population controls and as a result of continued development forcing deer into smaller and smaller areas.



Many acres of parkland in narrow stream valleys, small local parks, and in highly populated areas are not currently being managed. Effective deer population management in these smaller urban areas can be very difficult, costly, and in some cases not feasible at all. Efforts are underway to explore new methods to address these locations. Contraception, while favored by many as a potential method to reduce deer numbers, is still very much in the experimental stages and not available for use in free ranging deer at

this time.

Due to budget shortfalls associated with the current recession, no additional funding for deer population management has been appropriated for fiscal year 2010 (July 1, 2009 to June 31, 2010). Therefore, it is expected that no additional County parklands will be identified for implementation of deer management this year. All currently running programs (areas in red on Map 2) will be continued.

Deer population management on private properties continues to be an important part of countywide management efforts. However, despite liberalized bag limits and regulations that have increased the hunting of antlerless deer, many parcels of privately owned land are not being hunted efficiently enough to significantly reduce deer numbers. Educational efforts targeting both landowners and hunters in more effective management techniques will be continued and expanded. As already mentioned, population management becomes more difficult as you move from rural to more suburban and urban parts of the county. Nevertheless, there are opportunities for some communities to manage deer populations within their neighborhoods where the community can reach agreement on the methods. For assistance in developing community deer management plans contact the DMWG at 301-949-2909/4149 or Maryland Department of Natural Resources at 301-432-4307.

Table 1 Public Land with current and proposed deer population management programs – See Map 2

	Park Area	FY initiated	Recommended Action
1	Seneca Creek State Park	1997	Continue population mgt
2	Patuxent River State Park	Prior to 1994	Continue population mgt
3	McKee-beshers Wildlife Mgt Area	Prior to 1994	Continue population mgt
4	Dickerson Conservation Park	Prior to 1994	Continue population mgt
5	Nat Institute of Standards and Tech.	1994	Continue population mgt
6	Little Bennett Reg. Park	1997	Continue population mgt
7	Ag/History Farm Park	1997	Continue population mgt
8	WSSC Reservoirs	1999	Continue population mgt
9	Black Hill Regional Park	2001	Continue population mgt
10	Northbranch SVP	2001	Continue population mgt
11	Rachel Carson Cons. Park	2002	Continue population mgt
12	Rock Creek Regional Park	2002	Continue population mgt
13	Goshen Recreational Park	2002	Continue population mgt
14	Blockhouse Point Cons. Park	2003	Continue population mgt
15	NW Branch Recreation Park	2004	Continue population mgt
16	Bucklodge Forest Cons Park	2004	Continue population mgt
17	Hoyles Mill Cons. Park	2004	Continue population mgt
18	White Oak Federal Facility	2004	Continue population mgt
19	Woodlawn Special Park	2004	Continue population mgt
20	Woodstock Special Park	2005	Continue population mgt
21	Little Seneca SVP unit 1	2005	Continue population mgt
22	Germantown Greenway Park	2006	Continue population mgt
23	Great Seneca Stream Valley Unit 2	2006	Continue population mgt
25	Wheaton Regional Park	2006	Continue population mgt
26	Rock Creek Stream Valley Unit 7	2008	Continue population mgt
27	C&O Canal National Historical Park Goldmine Tract	Future	Investigate future mgt
28	SHA purchase future Hoyles Mill CP	Future	Investigate mgt for FY09
29	DPWT Property in Dickerson	Future	Investigate future mgt
30	Muddy Branch Stream Valley Park	Future	Investigate mgt for FY09
31	Serpentine Barrens Conservation Park	Future	Investigate mgt for FY09
32	Rock Creek Golf Course	2002	Continue mgt begun in 2002
33	Northwest Branch Golf Course	2004	Continue mgt begun in 2004
34	Rock Creek Stream Valley Unit 2	Future	Investigate future mgt
35	Sligo Creek Stream Valley Unit 4,5	Future	Investigate mgt for FY09
36	Upper Paint Branch Stream Valley Pk	Future	Investigate mgt of Countryside area for FY09

Deer Management Recommendations for FY 2010

In accordance with the Comprehensive Management Plan for White-tailed deer in Montgomery County, Maryland, the DMWG recommends the following actions for FY 2010. Agencies that should take lead responsibility for each recommendation are listed in parenthesis after that action. The final decision to proceed with any recommendation is up to the lead agency or agencies and it is expected that appropriate public input will be considered.

Many recommendations are on-going or require multiple-years to be fully implemented thus there is considerable overlap in recommendations from year to year. It is expected that all actions will be done in cooperation with the DMWG.

- 1. Continue public education efforts.** This includes educating the public about deer issues, particularly on available non-lethal methods to reduce deer damage to personal property.
 - a. Continue the very successful Homeowner Workshop Program. Update program and publicize better to increase number of programs. Coordinate workshops with DNR education efforts. (MNCPPC, Montgomery County Cooperative Extension [MCE])
 - b. Continue efforts to expand educational efforts via the Internet, Educational DVDs the County Fair and County Cable TV. (MCE, County Cable Montgomery [CCM], M-NCPPC)
 - c. The County Department of Health and Human Services (HHS) should continue their increased efforts to enhance surveillance, educate the public and doctors on the prevention, early detection and treatment of Lyme Disease. A concerted effort to get educational materials to all doctors should be a priority. (HHS)

- 2. Continue efforts to improve road fencing, signage and design to reduce deer-vehicle collisions.**
 - a. DPWT and SHA, in coordination with the DMWG, should continue to evaluate roadway hotspots and examine accident mitigation methods. (DMWG, Montgomery County Department of Public Works and Transportation (DPWT), Maryland State Highway Administration (SHA))
 - b. SHA should implement a program to inspect and repair the wildlife fencing along the entire length of 270, 495 and other fenced roads, at least once per year. Fences with holes can create a situation where deer that happen to wander through the hole become trapped on the road. (SHA)
 - c. DPWT should install wildlife fencing along Shady Grove Road in the vicinity of where the Inter County Connector (ICC) will cross it to reduce the potential for Deer Vehicle Collisions. (DPWT, DMWG)
 - d. Keep current and, where possible, cooperate with other studies that investigate methods of reducing deer-vehicle collisions. (DPWT, M-NCPPC, SHA, DNR,)
 - e. Continue to work with appropriate agencies on new and retrofit road projects to better design roadways and bridges for wildlife passage (DPWT, SHA, M-NCPPC)

- 3. Continue to monitor progress in the use of contraception to regulate deer populations.**
 - a. Continue to monitor on-going efforts at the National Institute of Standards and Technology (NIST) being conducted by The Humane Society of the U.S. as well as other study sites around the country; review the final report for the deer reduction and contraception project completed in 2007 at the White Oak Federal Center by the United States Department of Agriculture/Animal Plant Health Inspection Service. (USDA) (DNR, DMWG, USDA)

- b. Continue to monitor progress in approval process of drugs by FDA. (DNR, DMWG, USDA)

4. Continue to encourage more community involvement in deer management efforts.

In many cases it is incumbent upon a community to work together and address community concerns regarding deer. Several approaches to reducing deer damage to home landscaping and gardens may have a greater effect when applied on a community level. Neighbors or communities can work together in their use of fencing, vegetation management, and repellents. Adjustments to community covenants that reduce fencing restrictions or enactment of “no deer feeding” policies are examples of cooperative efforts. Communities, in many cases, may be better able than the county or state to fund and/or implement other local management efforts such as installation of fencing, localized efforts to reduce tick populations to prevent Lyme disease or even a community based managed hunting program on private lands. Any of these efforts will involve a high level of cooperation, organization and communication within the community as well as coordination with appropriate county or state agencies.

- a. The County and State should continue to provide information and assistance to communities that express a desire to address local deer impacts. These might include local public meetings, educational workshops, literature and recommendations on specific management efforts that could be undertaken by the community. MD-DNR provides technical advice for communities on deer management issues. (M-NCPPC, DNR, MCE)
- b. Continue to promote the MD-DNR website for available community-based deer management options at - www.dnr.state.md.us/wildlife/ddmtintro.asp (MCE, M-NCPPC, DNR)

5. Continue to encourage effective deer population management on private properties.

The vast majority of land in the County is private and any effort to manage deer populations on these lands can only be undertaken by the landowners. Managing deer impacts countywide requires the cooperation of county agencies and private landowners. Parcels of land that are forested, in agriculture or slated for development all need to be managed.

Many landowners that do allow hunting on their property are not doing it effectively and would benefit greatly from reviewing the DNR publication, “Deer Hunting - a Valuable Deer Management Tool for Private Landowners”.

- a. The Department of Economic Development (DED) should continue and improve as needed their cooperative cooler box program to assist farmers in storing, transporting, processing and donating to charity, deer harvested from agricultural lands. (DED)
- b. Promote Quality Deer Management (QDM) as a philosophy and information source to encourage landowners and hunters to better manage deer herds on private property. More information is available at www.qdma.com and www.marylandqdma.com.
- c. DED, the DMWG, and the Firearms Safety Committee (FSC) should continue to work with appropriate staff to publicize the changes to the County Weapons Law that were completed in 2007. (DED, DMWG, FSC)
- d. M-NCPPC should continue to offer to work with landowners growing crops on private land adjacent to parkland where deer management is being conducted, to coordinate their management efforts. Landowners should contact M-NCPPC at 301-949-4149 for this program. (M-NCPPC)

6. Continue and expand population reduction programs on select State and County lands.

Table 1 lists public land on which deer population management is currently being conducted and land on which the DMWG recommends deer management in the future. Decisions as to the type of population management implemented, the duration of the operation, and annual harvest goals should be decided by the appropriate agencies and DNR. The timing of implementation is subject to the resources and budget of the agency managing the property. Tight budgets for FY10 will most likely limit which of the following recommendations can be implemented in the upcoming year.

- a. The National Park Service should consider addressing deer management needs in the Goldmine Tract of the C&O Canal Historic Park in Potomac. (NPS)
- b. The Montgomery County Division of Solid Waste Services (DSWS) should continue with efforts begun last year to implement deer population management on the approximately 800 acres of County owned property that they manage in the Dickerson area to help reduce impacts to agriculture in the area. Maryland Department of Natural Resources and the Deer Management Work Group will continue to provide assistance in developing a program. (DSWS)
- c. The Montgomery County Revenue Authority (MCRA) should continue to pursue the re-implement deer population management on the Golf Courses that they operate in the County that was begun by M-NCPPC prior to transfer of the courses to MCRA. This would most easily be done in cooperation with M-NCPPC's deer management program. (Map 2 and Table 1, #32 & 33) (MCRA, M-NCPPC)
- d. M-NCPPC Montgomery Parks should continue ongoing deer population management programs adjusting methods and harvest goals as needed and continue to expand these efforts, as budgets and staffing allow, into new areas in order to reduce deer impacts to park resources and adjacent property. (M-NCPPC)
- e. The Washington Suburban Sanitary Commission (WSSC) should continue current deer population management programs on their lands and continue to expand these efforts, as required to protect WSSC resources and adjacent property. (WSSC)
- f. Continue to investigate methods that are appropriate for managing deer populations in smaller more urban parks that provide the level of control and safety required. (DMWG, M-NCPPC)