

Hopewell Township Deer Management Advisory Committee

Working to achieve a balance in our community

Annual Report July 25, 2013



A herd of deer feeding in a backyard, a common sight in Hopewell Township (Photo courtesy of Chuck Noona)

Hopewell Township Deer Management Advisory Committee Information

Committee members are appointed by the mayor for terms lasting three years or less. There are seven regular members, two alternate members, one township administrative officer, and one township committee liaison. The committee currently has two co-chairpersons and one secretary who are elected annually. The committee is required to have at least one hunter, one farmer, and one master gardener as members.

Michael Bellaus - Alternate #2, Hunter
James Burd, Township Committee Liaison
William Cane, Co-Chair
James Gambino, Secretary
Robert Miller, Administrative Officer
Denise Moser, Co-Chair
John Piepszak, Master Gardener
Michael Serbin
Michael Van Clef
David Van Selous, Hunter
Vacant - Alternate #1, Farmer

Meetings

Regular meetings are held on the fourth Wednesday each month in the Township's municipal building auditorium located at 201 Washington Crossing Pennington Road, Titusville, NJ 08560. All meetings are audio-recorded and open to the public. Note: The Committee also held two special meetings during summer 2012. If you have questions or comments about information contained in this report, or about our deer management program, please write to us at: deermanagement@hopewelltp.org. For general information, such as meeting minutes, Program documents, or news articles, please visit us at: http://www.hopewelltp.org/deer_mgmt_comm_main.html

Background/History

This is the first annual report prepared by the Hopewell Township Deer Management Advisory Committee and covers activities from June 2011 through June 2013. The committee was preceded by the Hopewell Valley Deer Management Task Force, which formed in 2009 and produced a community questionnaire and the Hopewell Valley Deer Management Plan, before disbanding in December 2010. Many task force members serve on the current Committee. The Committee was officially formed in June 2011 by township ordinance and spent the entire first year developing the Municipal Deer Management Ordinance. The ordinance was passed by the Township Committee in June 2012. Among other things, this law allowed for the Committee to appoint a program director to manage the Township's municipal deer management program.

Acknowledgement

The Deer Management Advisory Committee would like to expressly thank the Hopewell Township Committee for their continuing and unwavering support of our work, and also Township Staff, Police and Publics Works department for their dependable help and assistance with the deer management program.

This report is dedicated in memory of our colleague Mort Rosenthal, who passed away in January 2013. Mort was a current advisory committee member, and an original deer task force member, who contributed to many of our successes through his calmness and wisdom. He will be greatly missed.

Executive Summary

This is the first annual report prepared by the Hopewell Township Deer Management Advisory Committee (Committee) covering activities from the Committee's inception through June 2013. The report is organized in the format of the Hopewell Valley Deer Management Plan (September 2010) and describes past, continuing and future activities along with revised summaries of deer impacts.

Past activities include:

- Regular meetings were held on the fourth Wednesday of each month.
- Conducted Hopewell Valley deer population survey in March 2012.
- A deer management ordinance became law in June 2012, establishing the township's deer management program ("Program"). The Program's first season began September 8, 2012 and ended February 16, 2013. Fifty-five hunters were permitted to harvest deer on 13 township-owned parcels totaling 548 acres. The antlerless deer harvest goal was 155 and 108 were actually harvested (70% of the goal).
 - Produced various program documents including hunter/parcel resolution, hunter application and Deer Tracker spreadsheet.
 - Purchased signage and posted all parcel boundaries, improved parking access
 - Active communications with hunters and the public including two pre-season hunter safety training workshops and end-of-season Q&A meeting. Held meetings to resolve neighbor concerns as necessary.
- Printed, distributed and posted signage to reduce Lyme disease at seven locations.
- Communications with public land managers to encourage improved hunting access.

Continuing activities and new initiatives include:

- Strategy Sets #1 and #2 (Improvement of Hunting Access and Efficacy):
 - Planning and continued implementation of the Township deer management program
 - Encouraging improved access and efficacy on public and private lands
 - Supporting establishment of local venison donation service with Hunters Helping the Hungry
 - Facilitate a meeting of public and non-profit land managers to discuss strategies
- Strategy Set #3 (Avoidance of Deer Impacts):
 - Spatial mapping of deer-vehicle collisions to determine avoidance strategies (e.g., warning signage, deer deterrents)
 - Perform outreach on Lyme disease prevention and use of deer resistant landscaping
- The next deer count and public questionnaire will be performed in 2015.

Summary of Updated Deer Population Size and Impact Reduction Goals:

- The 2010 and 2012 deer population surveys suggest a relatively stable density of approximately 40 deer per square mile.
- Goal #1 (Reduce Lyme Disease): Cannot be determined. See report text for details.
- Goal #2 (Reduce Deer-Vehicle Collisions): In 2012 (468 collisions), there was a 23% reduction since the peak in 2009 (612 collisions).
- Goal #3 (Reduce Agricultural Losses): No updates since the 2010 public questionnaire.
- Goal #4 (Reduce Landscape Planting Losses): No updates since the 2010 public questionnaire.
- Goal #5 (Reduce Ecological Damage): At eleven sites with repeated measurements between 2007 and 2013 (sites with active deer management programs), there was a 52% decrease in tree seedling browse. However, there was a 7% decrease in native woody cover and a 43% increase in non-native woody cover (primarily multiflora rose).

Summary of Goals and Strategies from the Hopewell Valley Deer Management Plan (2010)

Goal #1: Reduce Lyme Disease Cases

There has been an annual average of 170 reportable cases of Lyme disease from 2007-2009. The Plan recommended a 25% reduction goal by 2013 (128 cases) and a 75% reduction goal by 2019 (43 cases). [See discussion in this report for utilization of CDRSS confirmed cases only and modification of reduction goals.]

Goal #2: Reduce Deer Vehicle Collisions

There has been an annual average of 567 deer-vehicle collisions from 2007-2009. The Plan recommended a 25% reduction goal by 2013 (425 collisions) and a 75% reduction goal by 2019 (142 collisions).

Goal #3: Reduce Agricultural Losses

The public questionnaire results suggested that 27% of respondents had crop losses exceeding \$5,000 per year. The Plan recommended a 25% reduction goal by 2013 (20% of respondents) and a 75% reduction goal by 2019 (7% of respondents).

Goal #4: Reduce Landscape Planting Losses

The public questionnaire results suggested that 55% of respondents had severe or moderate landscape damage. The Plan recommended a 25% reduction goal by 2013 (41% of respondents) and a 75% reduction goal by 2019 (14% of respondents).

Goal #5: Reduce Ecological Damage

Local forest health has been monitored through two science-based protocols called ‘sentinel seedlings’ (measuring deer browse on planted tree seedlings) and ‘forest secchi’ (measuring the density of forest understory vegetation). The average browse on planted tree seedlings has been 59% from 2006 - 2009. The average amount of native understory vegetation has been 21%. The Plan recommended a 25% improvement by 2013 (44% browse on planted seedlings & 26% native understory cover) and a 75% improvement by 2019 (14% browse on planted seedlings & 37% native understory cover).

The Plan recommended three sets of strategies to obtain these stated goals (See Section V for details):

Strategy Set #1: Improvement of Hunting Access

- 1A) Encourage and facilitate hunting access on public and private lands
- 1B) Develop strategies to access “pocket deer” in residential areas

Strategy Set #2: Improvement of Hunting Efficacy

- 2A) Encourage and facilitate coordinated hunting activities among neighboring landowners
- 2B) Encourage and facilitate use of Agricultural Depredation Permits by farmers
- 2C) Encourage and facilitate Deer Management Programs that focus harvests on female deer
- 2D) Encourage and facilitate program for venison donation to local food banks
- 2E) Consult with the NJ Division of Fish & Wildlife and other wildlife professionals to facilitate strategies 1A through 2D

Strategy Set #3: Avoidance of Deer Impacts

- 3A) Improve awareness of methods that reduce Deer Vehicle Collisions
- 3B) Improve awareness of methods that reduce Lyme disease
- 3C) Improve awareness of methods that reduce landscape damage
- 3D) Discourage the intentional feeding of deer in non-hunting situations

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I. Introduction

This is the first annual report prepared by the Hopewell Township Deer Management Advisory Committee (Committee). The Committee was officially formed in June 2011 by township ordinance. The Committee was preceded by the Hopewell Valley Deer Management Task Force, which formed in 2009. Many task force members serve on the current Committee.

This annual report is organized in the format of the Hopewell Valley Deer Management Plan (September 2010) and describes past, current and future activities of the Committee along with revised summaries of deer impacts. This report covers activities from the Committee's inception through June 2013.

II. Strategy Implementation Efforts

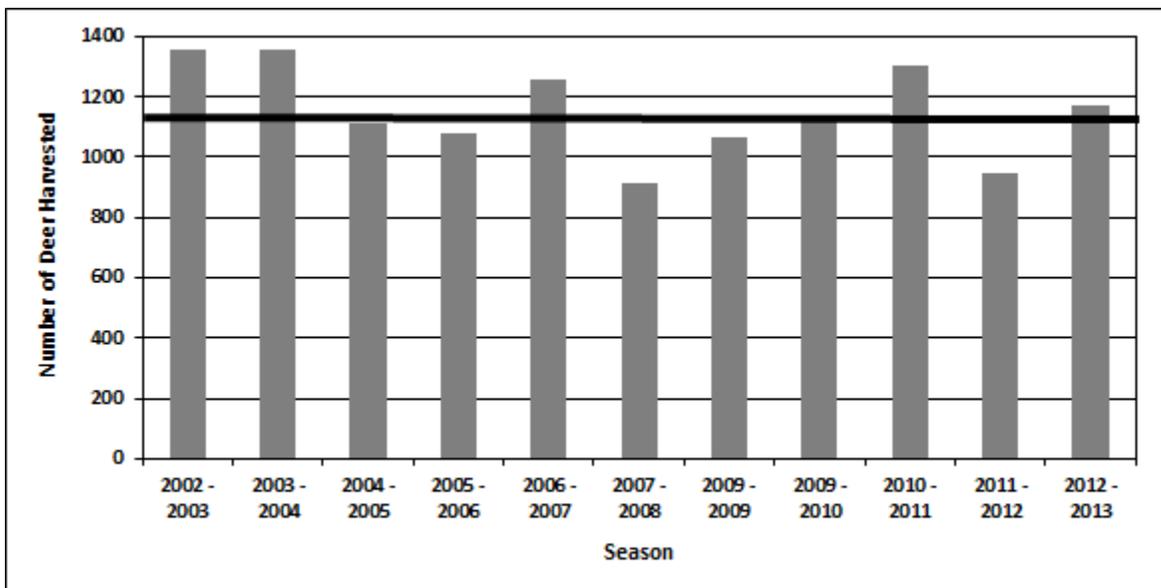
Introduction

This section describes strategy implementation efforts since the inception of the Committee. Efforts of Hopewell Township, along with other land managers in the Hopewell Valley, are included in this section.

All deer harvested within the Hopewell Valley are tracked annually by the NJDEP - Division of Fish & Wildlife (see Figure 1). The annual average total harvest (1,153 deer) is shown as a black line and represents approximately double the average number of deer struck by vehicles in the Township. Harvest numbers have been relatively stable over the last decade. Antlerless deer harvests have accounted for approximately 70% of the total harvests over the last three hunting seasons (data is not available prior to the 2010-2011 season).

The most productive deer seasons include Fall Bow (24% of total harvests) and Permit Shotgun (38%) with the other four major hunting seasons accounting for the remaining harvests (Winter Bow is the least productive season and accounts for less than 2% of annual harvests).

Figure 1. Hopewell Valley Deer Harvest Totals (2002 - 2012)
Source: New Jersey Division of Fish & Wildlife (J. Powers, personal communication)



Strategy Sets #1 & #2 - Improvement of Hunting Access and Efficacy

The improvement of hunting access and efficacy is a critical strategy to reach stated goals. Efforts by individual land managing entities are described below.

Hopewell Township

The Committee produced a deer management ordinance, which became law in June 2012. This law allowed for the Committee to appoint a program director to manage the Township’s deer management program (Program). The Program’s first season began September 8, 2012 and ended February 16, 2013. Program-related documents are located in Appendix D.

Fifty-five hunters were permitted to harvest deer on 13 township-owned parcels totaling 548 acres. The Program quota of two antlerless deer for Bow Only parcels, and three for Firearm/Bow parcels was met or exceeded by 44% of hunters. For hunters reporting both hours in the field and harvest totals, the average was 34 hours per single deer harvest.

The antlerless deer harvest goal was 155 or 1.4 deer per 5 acres of hunted land. Overall, 121 deer were harvested (108 antlerless and 13 antlered deer, See Table 1 below for harvest information by parcel). The antlerless deer harvest represented 89% of the total harvest, 78% of the anticipated harvest, and corresponds to 1.0 antlerless deer per 5 acres of hunted land. Eighty percent of the antlerless deer harvested were female and the remaining deer were young bucks without antlers.

Table 1. Hopewell Township Deer Management Program - Harvest Data by Parcel

Parcel #	Site Name	Acres	Allowable Sporting Arm	Number of Permitted Hunters	Anticipated Harvest Total (*)	Total Number of Deer Harvested	Number of Antlerless Deer Harvested (**)	Number of Antlered Deer Harvested
1	Stony Brook Rd	13	Bow & Firearm	2	6	4	3	1
2	Gomez Preserve	57	Bow & Firearm	5	15	17	15	2
3	Harbourton-Woodville Rd	12	Bow & Firearm	2	6	0	0	0
4	Vogler Preserve	11	Bow Only	2	4	7	7	0
5	Vales Preserve	6	Bow Only	2	4	10	10	0
6	Else	67	Bow & Firearm	6	18	12	10	2
7	Penn-Rocky Hill Rd	5	Bow Only	2	4	4	4	0
8	Bayberry Rd	86	Bow & Firearm	8	24	14	12	2
9	Pennington Point	39	Bow Only	3	6	2	2	0
10	Alliger Park	166	Bow & Firearm	11	33	29	26	3
11	Scotch Rd	31	Bow & Firearm	6	18	12	11	1
12	Reed Rd	3	Bow Only	1	2	4	2	2
13	Weidel	52	Bow & Firearm	5	15	6	6	0
		548	TOTALS	55	155	121	108	13
					<i>per cent of Totals</i>	78%	89%	11%

Bow Only Properties	Expected Harvest Total for Bow Only	20	27	Total for Bow Only Properties
Bow & Firearm Properties	Expected Harvest Total for Bow & Firearm	135	94	Total for Bow & Firearm Properties
	Expected Program Harvest Total	155	121	Actual Program Harvest Total

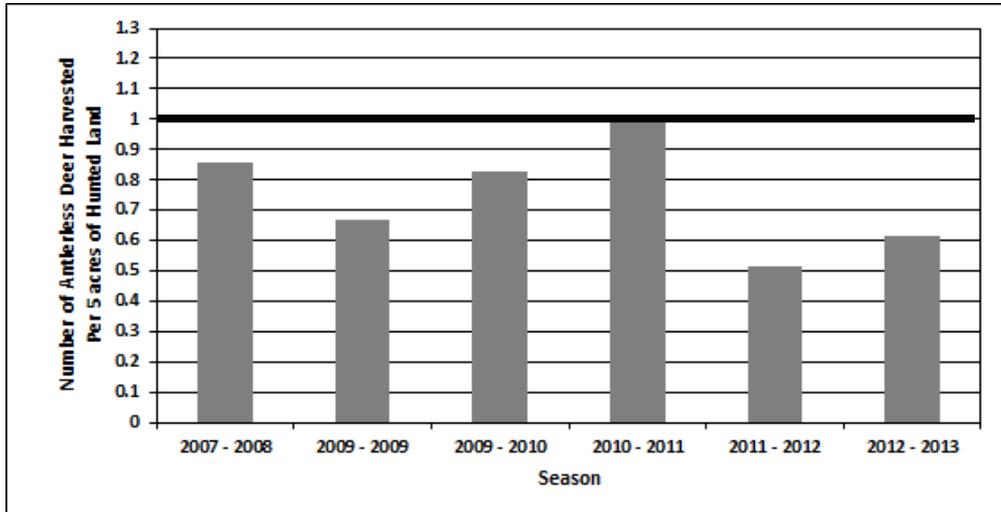
(*) Anticipated Harvest = 2 antlerless deer per hunter for Bow Only properties, and 3 antlerless deer per hunter for Bow & Firearm properties
 (**) Note: shed bucks, button bucks and deer with spikes < 3 inches are considered antlerless deer as per NJ Fish & Wildlife rules.
 Comments are welcome and may be e-mailed to the Program Director at: deermanagement@hopewelltpw.org

Non-Profit Organizations

The Friends of Hopewell Valley Open Space (FoHVOS) have been conducting a Deer Management Program since 2007. Antlerless harvest goals have been set at 1 per 5 acres of hunted land (shown as black line on Figure 2). Hunted acreage has risen from 392 acres in 2007 to 499 acres in 2012, which represents the maximum of huntable preserves where FoHVOS leads deer management efforts

(approximately 8 acres of FoHVOS preserves are not huntable). Reduced harvests in the last two years have precipitated significant program changes for the upcoming season.

Figure 2. FoHVOS Antlerless Deer Harvests Per Five Acres of Hunted Land (2007 – 2012)



Other non-profit organizations with active deer management programs on lands in the Hopewell Valley include the D&R Greenway Land Trust (multiple preserves), Stony Brook - Millstone Watershed Association (874 acres) and New Jersey Conservation Foundation (Honeystone Preserve, 50 acres). A map of non-profit lands is located in Appendix A.

D&R Greenway reported 61 harvested deer (includes antlerless and antlered) in Hopewell Township during the 2012/2013 hunting season. This included ten preserves totaling 753 acres for an average of 0.4 deer per five hunted acres (approximately 89 acres of D&R lands are not hunted). Preserves included Beidler (14 acres), Belotti (26 acres), Carter (62 acres), Cedar Ridge (122 acres), Hillman (72 acres), Olcott (86 acres), Pennington View Heights (41 acres), Stephens (77 acres), St. Michaels (222 acres) and Woods Brook (31 acres).

State and County Lands

The New Jersey Department of Environmental Protection (including the Division of Parks and Forestry, Division of Fish & Wildlife and New Jersey Natural Lands Trust) manage 3,400 acres in Hopewell Township (See Appendix B). Currently, the state has recreational hunting opportunities on approximately 60 acres (former Blackwell Farm), but there are no state managed lands within the Township with specific deer management programs aimed at reducing the size of the deer herd. There are approximately 1,750 acres of state land in Hopewell Township with no hunting access. Members of the Committee met with Neal Ferrari (Washington Crossing State Park Superintendent) in March 2013. This was followed by a letter drafted by Mayor Sandom offering Committee assistance to improve deer management on state lands within the Township.

Mercer County manages 4,246 acres in Hopewell Township and immediately adjacent areas (See Appendix C). The Ted Stiles Preserve at Baldpate Mountain (approximately 1,350 acres) has had an exemplary deer management program for approximately fifteen years. The Howell Living History Farm (approximately 200 acres) has allowed limited recreational hunting opportunities. Another small County-owned parcel (approximately 17 acres) is part of the FoHVOS Heritage Preserve deer management program. In 2012, Mercer Meadows (approximately 810 acres) was added to the Counties deer

management program (bow hunting only). There are approximately 2,420 acres of County land in Hopewell Township with no hunting access.

Private Lands

Private lands account for nearly 70% of the land area in the Hopewell Valley. Recreational hunting occurs on much of the land without safety zone restrictions, but deer management programs on private lands remain uncommon. FoHVOS, through its Private Lands Stewardship Program (current membership is approximately 50 landowners), discusses deer management strategies and has encouraged increased antlerless harvests on several properties in 2012.

Strategy Set #3 - Avoidance of Deer Impacts

Hopewell Township purchased and distributed tick awareness signage. Signs were placed at seven preserves managed by the Friends of Hopewell Valley Open Space and additional signs will be placed at each Township parcel that is part of the deer management program. The Committee is also in the process of creating a map depicting deer-vehicle collision 'hot spots' that will be posted on the Township website. This information may be utilized to guide future placement of warning signage or deer deterrents. These and other avoidance strategies should improve driver awareness and roadway safety by educating drivers of methods that reduce deer-vehicle collisions.

III. Evaluation of Impact Reduction Goals

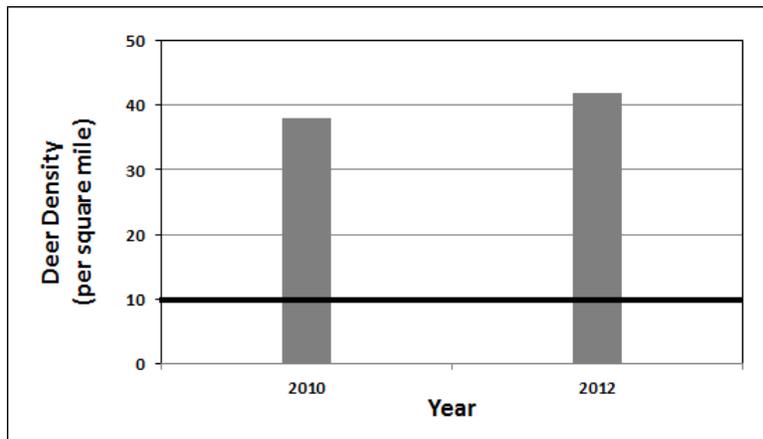
Introduction

The intention of all strategy implementation efforts is the reduction of deer impacts. Goals from the Hopewell Valley Deer Management Plan are provided on Page iv.

Deer Population Estimates

While not an impact reduction goal, estimates of the deer herd size may be utilized to determine the relationship between population levels and measured impacts. Distance sampling was performed by the Committee in late March/early April in 2010 and 2012. Figure 3 depicts survey results as deer per square mile throughout the Hopewell Valley (See Appendix E for maps showing deer observations). For reference, wildlife researchers have estimated that deer densities of 10 per square mile (black line on chart) were typical prior to European colonization of the United States (McCabe and McCabe 1984). Impacts to forest health have been shown to occur above this level (deCalesta 1994, deCalesta 1997). Additionally, 10 deer per square mile represents the upper threshold that supports the Lyme disease cycle (Stafford 2007).

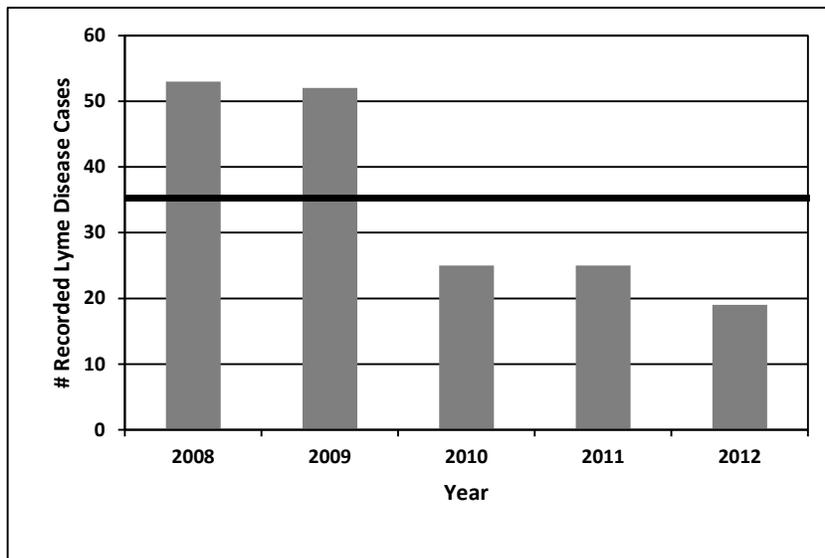
Figure 3. Hopewell Valley Deer Population Estimates



Goal #1: Reduce Lyme Disease Cases

Hopewell Valley Lyme Disease data is reported in Figure 4. This data has been corrected from the 2010 report to reflect only confirmed cases through the Communicable Disease Reporting and Surveillance System (CDRSS) and confirmed by the New Jersey Department of Health and Human Services. These cases include all residents from Hopewell Township that were diagnosed with Lyme disease by their physician (and formally confirmed through blood testing). It is important to note that many cases are unreported or unconfirmed because physicians often diagnose and treat the disease without the blood testing required for formal tracking purposes. The average number of annual cases since 2008 was 35 (black line on chart). Future reduction goals should be based upon a 75% reduction of cases based upon the average number of cases since 2008. Therefore, the ultimate goal is 9 cases per year by 2019.

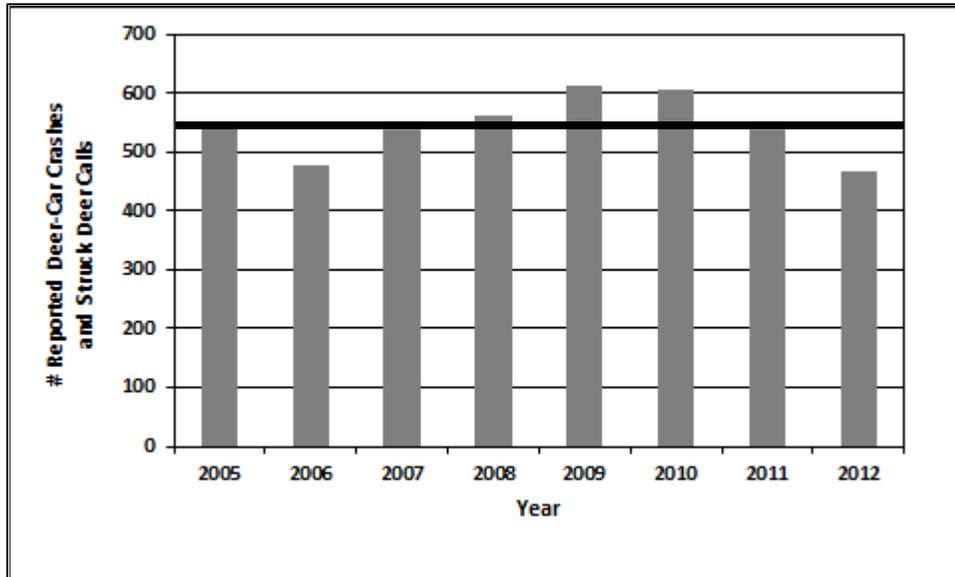
Figure 4. Lyme Disease Cases for the Hopewell Valley
Black line represents the average from 2005 through 2012.



Goal #2: Reduce Deer Vehicle Collisions

Hopewell Township tracks Deer-Vehicle Collisions (DVC's) through two methods – reported deer-car crashes and struck deer calls (see 2010 Deer Management Task Force Report for a detailed explanation). The combined average is 543 DVC's per year since 2005 (see Figure 5, black line on chart). There has been a downward trend since 2010 (604 collisions) to 2012 (468 collisions), representing a 23% reduction since a peak in 2009.

**Figure 5. Deer Vehicle Collisions for Hopewell Township
Black line represents the average from 2005 through 2012.**



Goal #3: Reduce Agricultural Losses

There have been no measurements conducted since the public questionnaire was performed in 2010. From the 2010 report: “Crop losses from deer were common (52%). The majority of damage was less than \$5,000 per year (73%). Nineteen percent of damage cost between \$5,000 and \$25,000 per year. Approximately 8% of damage was greater than \$25,000 per year. Other impacts included stopping the production of particular crops due to deer damage (37%), planting of sacrificial crops that are used to deter deer from feeding on higher value crops (8%), and utilization of fencing (51% of responding farmers).”

Goal #4: Reduce Landscape Planting Losses

There have been no measurements conducted since the public questionnaire was performed in 2010. From the 2010 report, landscape damage was reported as severe (24% of respondents) or moderate (31%).



“A Delicate Balance” – Artwork by Canie Constantine, HVCHS, Grade 10

Goal #5: Reduce Ecological Impacts

The Friends of Hopewell Valley Open Space have been measuring forest health at their preserves and other private and public properties since 2007. Measurements include the ‘Sentinel Seedling Protocol’ that determines the percentage of browse on planted tree seedlings and the ‘Forest Secchi Protocol’ that measures existing cover of native and non-native woody plants within the deer browse zone (typically from 1 to 4.5 above ground). Data presented below represents various sites for particular seasons (See Figure 6). This data should be interpreted with caution because each site, which is variable in deer density and other factors that affect forest health, was measured in a particular season and may cloud overall trends within the entirety of the Hopewell Valley (e.g., the site with the lowest deer browse and highest native cover was measured in the 2008-2009 season). Overall, seedling browse on planted seedlings appears to be trending lower. Changes in native cover and non-native cover do not show strong trends over time.

Figure 6. Forest Health Measurements by Season (2007 – 2013)

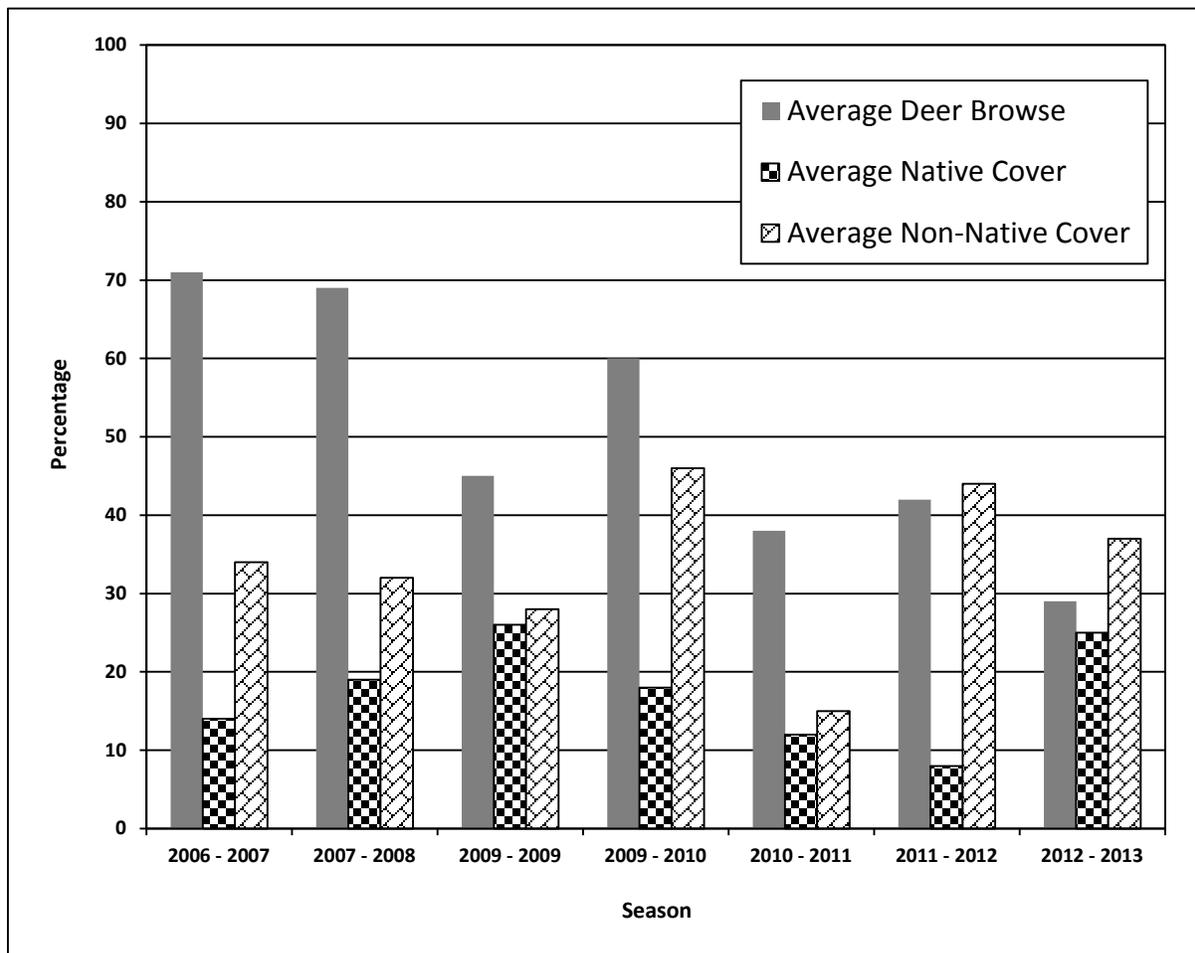
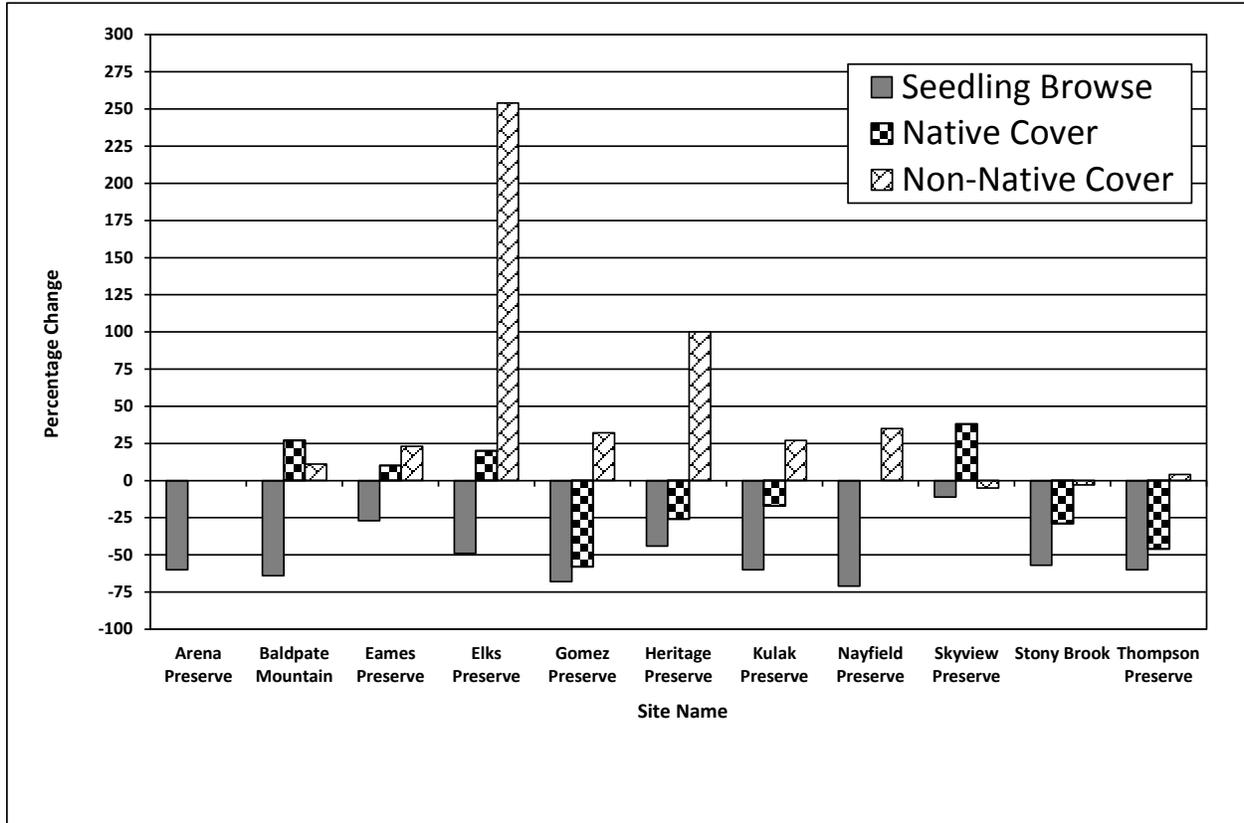


Figure 7 shows eleven sites with active deer management programs where forest health measurements have been performed twice between 2007 and 2013. Each site shows a decrease in deer browse on planted seedlings (average percent decrease of 52%). Native cover appears to be increasing at four of eleven sites, but there is an average 7% reduction across all sites. Non-native cover appears to be increasing at six of eleven sites. Non-native cover appears to be increasing primarily through the

expansion of multiflora rose, which typically receives mild deer browse (M. Van Clef, personal observation). A review of these results is beyond the scope of this document and requires continuing monitoring and analyses.

Figure 7. Forest Health Changes by Site



IV. Planned Activities

Introduction

This section contains a brief overview of planned activities from July 2013 through June 2014.

Measurement of Goals

The Hopewell Township Police Department continually tracks deer-vehicle collisions and the Township Health Department tracks Lyme disease cases. Forest health measurements (Sentinel Seedling and Forest Secchi) will be conducted at multiple sites by FoHVOS staff and volunteers.

Strategy Sets #1 & #2 - Improvement of Hunting Access and Efficacy

Hopewell Township

The Township plans to continue implementation of its deer management program. For the 2013/2014 season, 14 sites totaling 623 acres are planned to be included in the program. The Zaitz-Hutcheson site

(75 acres) will be included in the program along with each of the 13 sites from the 2012/2013 season. The Committee will conduct an ongoing review Township land holdings for potential additions to the deer management program.

Non-Profit Organizations

Each of the four non-profit land managers in Hopewell Township (FoHVOS, D&R Greenway Land Trust, Stony Brook - Millstone Watershed Association and the New Jersey Conservation Foundation) will continue their deer management efforts. The Committee will encourage increased collaboration between these groups by inviting them to discuss their program successes and challenges along with the potential to form partnerships with DMAC and/or other governmental entities.

State and County Lands

The Committee will continue to serve as a resource for increasing hunting access and efficacy on state and county lands. In some cases, the Township might consider direct management of programs on state lands through the existing Township program.

Private Lands

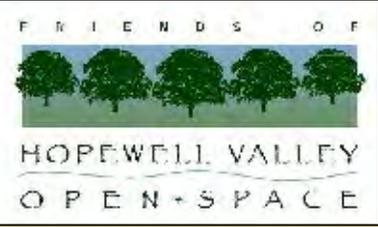
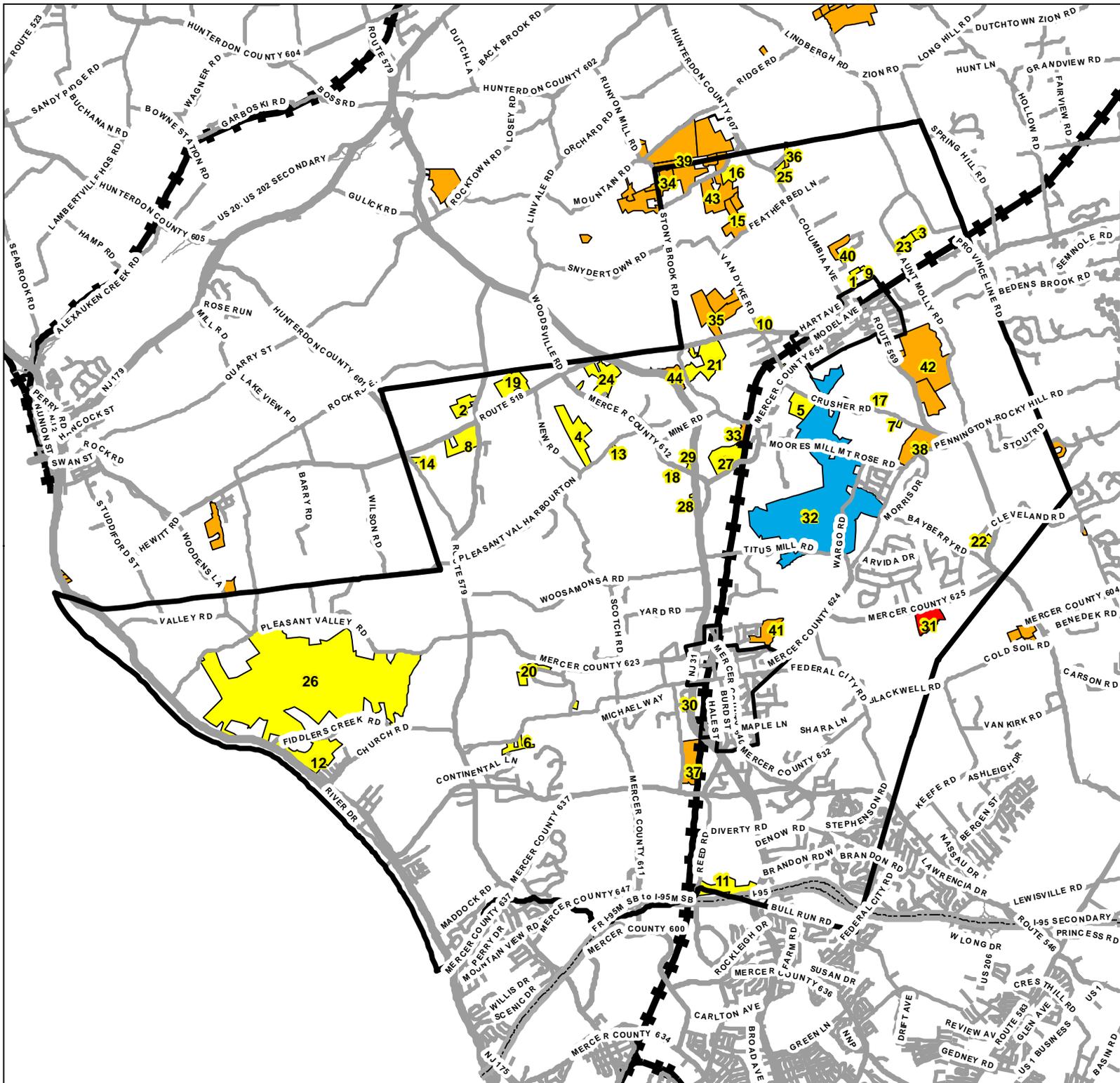
FoHVOS will continue to work with private land owners on stewardship efforts, including increasing hunting access and efficacy and promoting native deer resistant landscape plantings. The Sourlands Conservancy is currently developing a program to link hunters with private landowners interested in deer management on their properties within all Sourland municipalities. The Committee will support this effort within the Township.

Strategy Set #3 - Avoidance of Deer Impacts

The Committee will complete the conversion of tabular data from the Hopewell Township Police Department to spatial mapping of deer vehicle collisions. This will allow production of a map displaying 'hot spots' for the public. This information will also allow implementation of avoidance strategies, which may include roadside warning signage, vegetation management, and/or visual/auditory deer deterrents.

The Township will post Lyme disease awareness signage at all parcels where hunting occurs on their lands.

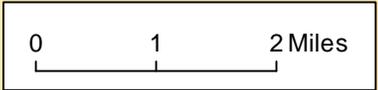
Appendix A



**Non-Profit
Lands Within
Hopewell Township**

Legend

- D&R Greenway Preserves
- FoHVOS Preserves
- Stony Brook Reserve
- NJCF Preserves

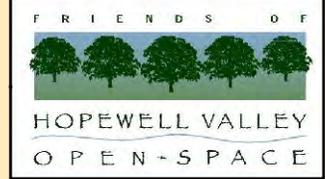


Appendix A.

Non-Profit Lands in Hopewell Township

Map ID	Site Name	Acres	Manager	Current Deer Management Status	Hopewell Township
1	Albahary	7.054	FoHVOS	FoHVOS DMP	Yes
2	Arena	28.11	FoHVOS	FoHVOS DMP	Yes
3	Arno	5.692	FoHVOS	FoHVOS DMP	Yes
4	Eames	75.96	FoHVOS/NJDEP	FoHVOS DMP	Yes
5	Elks	42.1	FoHVOS	FoHVOS DMP	Yes
6	Franz	19.89	FoHVOS	FoHVOS DMP	Yes
7	Genovesi	3.162	FoHVOS	FoHVOS DMP	Yes
8	Gomez	58.48	FoHVOS/Hopewell	HT DMP	Yes
9	Grossman	1.154	FoHVOS	FoHVOS DMP	Yes
10	Guastella	0.525	FoHVOS	No Hunting	Yes
11	Heritage	64.05	FoHVOS	FoHVOS DMP	Yes
12	Hollystone	107.7	FoHVOS/Mercer	Mercer DMP	Yes
13	Huber	0.993	FoHVOS	No Hunting	Yes
14	Krech	4.569	FoHVOS	FoHVOS DMP	Yes
15	Kulak	56.62	FoHVOS/DRG	DRG DMP	Yes
16	Lawrence	13.86	FoHVOS	FoHVOS DMP	Yes
17	LippLewellen	4.482	FoHVOS	No Hunting	Yes
18	Mount	0.078	FoHVOS	No Hunting	Yes
19	Nayfield	56.88	FoHVOS/NJDEP	FoHVOS DMP	Yes
20	Nexus	23.98	FoHVOS	FoHVOS DMP	Yes
21	Olcott	86.26	FoHVOS/DRG	DRG DMP	Yes
22	Perkins	4.994	FoHVOS	FoHVOS DMP	Yes
23	Pogorzelski	8.618	FoHVOS	FoHVOS DMP	Yes
24	Skyview	76.44	FoHVOS/NJDEP	FoHVOS DMP	Yes
25	Stephens	5.065	FoHVOS	FoHVOS DMP	Yes
26	Ted Stiles Preserve at Baldpate Mountain	1352	FoHVOS/Mercer/HT/NJDEP	Mercer DMP	Yes
27	Thompson	56.98	FoHVOS	FoHVOS DMP	Yes
28	Vales	6.047	FoHVOS/Hopewell	HT DMP	Yes
29	Vogler	10.33	FoHVOS/Hopewell	HT DMP	Yes
30	Weidel	1.637	FoHVOS	No Hunting	Yes
31	Honestone	50	NJCF	NJCF DMP	Yes
32	Stony Brook Reserve	874	SBMWA	SBMWA DMP	Yes
33	Beidler	14	DRG	DRG DMP	Yes
34	Belotti	26	DRG	DRG DMP	Yes
35	Cedar Ridge	122	DRG	DRG DMP	Yes
36	Emrich	7	DRG	No Hunting	Yes
37	Goldman	63	DRG	No Hunting	Yes
38	Hillman	72	DRG	DRG DMP	Yes
39	McBurney Woods	226	DRG	DRG DMP	Partial
40	Olukuton	19	DRG	No Hunting	Yes
41	Pennington View Heights	41	DRG	DRG DMP	Yes
42	St. Michaels	222	DRG	DRG DMP	Yes
43	Stephens	77	DRG	DRG DMP	Yes
44	Woods Brook	31	DRG	DRG DMP	Yes
Totals		4,028			

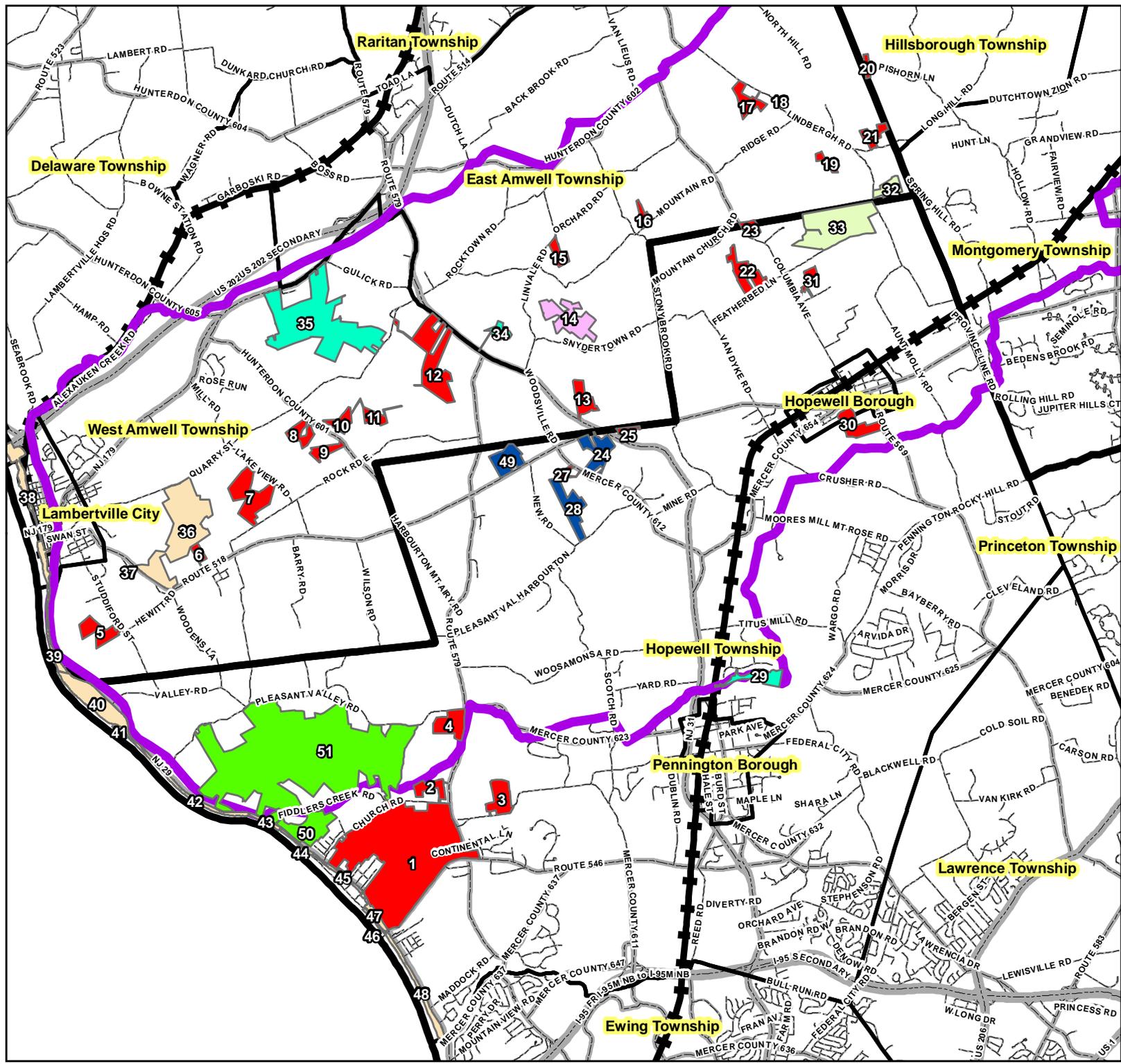
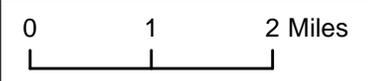
Appendix B



State Lands Within Hopewell Township and the Sourlands



- Legend**
- SPC Project Boundary
 - State Lands**
 - WCSP
 - FoHVOS/WCSP
 - Mercer/FoHVOS/NJDEP/Hopewell
 - Crossroads
 - D&R Canal
 - Fish & Wildlife
 - Natural Lands Trust

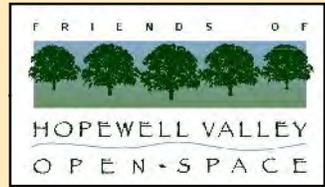
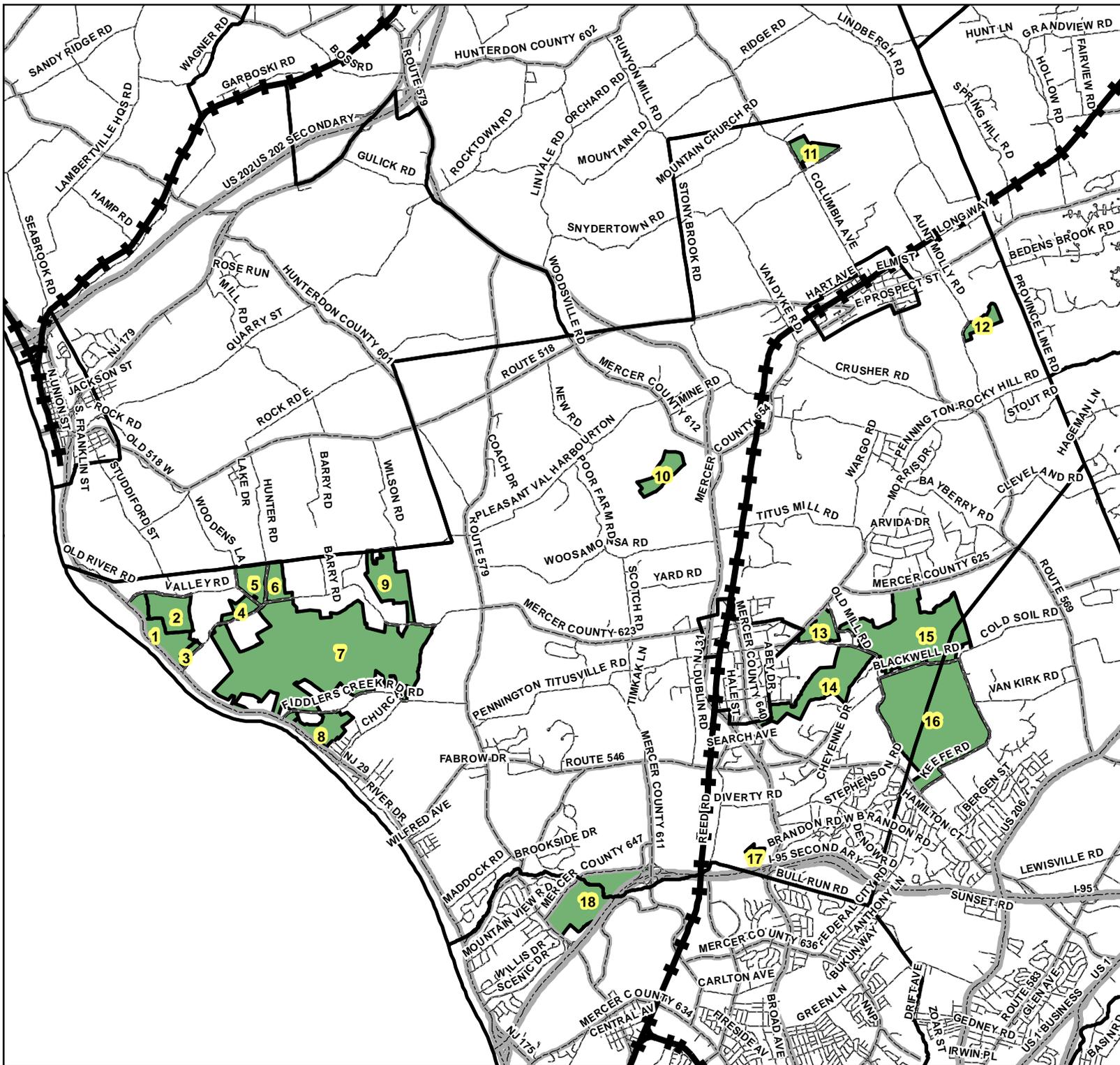


Appendix B.

State Lands in Hopewell Township and the Sourlands

Map ID	Site Name	Acres	Manager	Current Deer Management Status	Hopewell Township
1	Washington Crossing SP	864	Division of Parks and Forestry	No Hunting	Yes
2	Washington Crossing SP	33	Division of Parks and Forestry	No Hunting	Yes
3	Washington Crossing SP	59	Division of Parks and Forestry	No Hunting	Yes
4	Washington Crossing SP - Blackwell Farm	61	Division of Parks and Forestry	Recreational	Yes
5	Washington Crossing SP - Goat Hill	54	Division of Parks and Forestry	Recreational	No
6	Washington Crossing SP	15	Division of Parks and Forestry	No Hunting	No
7	Washington Crossing SP	114	Division of Parks and Forestry	Recreational	No
8	Washington Crossing SP	37	Division of Parks and Forestry	No Hunting	No
9	Washington Crossing SP	27	Division of Parks and Forestry	No Hunting	No
10	Washington Crossing SP	29	Division of Parks and Forestry	No Hunting	No
11	Washington Crossing SP	26	Division of Parks and Forestry	No Hunting	No
12	Washington Crossing SP	168	Division of Parks and Forestry	No Hunting	No
13	Washington Crossing SP	43	Division of Parks and Forestry	No Hunting	No
14	Washington Crossing SP	111	Division of Parks and Forestry	No Hunting	No
15	Washington Crossing SP	24	Division of Parks and Forestry	No Hunting	No
16	Washington Crossing SP	15	Division of Parks and Forestry	No Hunting	No
17	Washington Crossing SP	44	Division of Parks and Forestry	No Hunting	No
18	Washington Crossing SP	2	Division of Parks and Forestry	No Hunting	No
19	Washington Crossing SP	15	Division of Parks and Forestry	No Hunting	No
20	Washington Crossing SP	10	Division of Parks and Forestry	No Hunting	No
21	Washington Crossing SP	30	Division of Parks and Forestry	No Hunting	No
22	Washington Crossing SP	77	Division of Parks and Forestry	No Hunting	Yes
23	Washington Crossing SP	21	Division of Parks and Forestry	No Hunting	Yes
24	Skyview Preserve	72	FoHVOS/WCSP	DMP	Yes
25	Washington Crossing SP	19	Division of Parks and Forestry	No Hunting	Yes
26	Washington Crossing SP	0	Division of Parks and Forestry	No Hunting	No
27	Washington Crossing SP	10	Division of Parks and Forestry	No Hunting	Yes
28	Eames Preserve	76	FoHVOS/WCSP	DMP	Yes
29	Baldwin Lake WMA	47	Division of Fish & Wildlife	No Hunting	Yes
30	Washington Crossing SP	59	Division of Parks and Forestry	No Hunting	Yes
31	Washington Crossing SP	21	Division of Parks and Forestry	No Hunting	Yes
32	Highfields	31	NJ Natural Lands Trust	No Hunting	No
33	Highfields	222	NJ Natural Lands Trust	No Hunting	Yes
34	Amwell Lake WMA	23	Division of Fish & Wildlife	No Hunting	No
35	Alexauken Creek WMA	425	Alexauken Creek F&W	Recreational	No
36	D&R Canal SP	290	Division of Parks and Forestry	No Hunting	No
37	D&R Canal SP	5	Division of Parks and Forestry	No Hunting	No
38	D&R Canal SP	70	Division of Parks and Forestry	No Hunting	No
39	D&R Canal SP	22	Division of Parks and Forestry	No Hunting	No
40	D&R Canal SP	120	Division of Parks and Forestry	No Hunting	Yes
41	D&R Canal SP	4	Division of Parks and Forestry	No Hunting	Yes
42	D&R Canal SP	34	Division of Parks and Forestry	No Hunting	Yes
43	D&R Canal SP	9	Division of Parks and Forestry	No Hunting	Yes
44	D&R Canal SP	9	Division of Parks and Forestry	No Hunting	Yes
45	D&R Canal SP	11	Division of Parks and Forestry	No Hunting	Yes
46	D&R Canal SP	4	Division of Parks and Forestry	No Hunting	Yes
47	D&R Canal SP	19	Division of Parks and Forestry	No Hunting	Yes
48	D&R Canal SP	43	Division of Parks and Forestry	No Hunting	Yes
49	Nayfield Preserve	57	FoHVOS/WCSP	DMP	Yes
50	Baldpate Mountain	108	Mercer/FoHVOS/NJDEP/Hopewell	DMP	Yes
51	Baldpate Mountain	1352	Mercer/FoHVOS/NJDEP/Hopewell	DMP	Yes
Totals		5045			

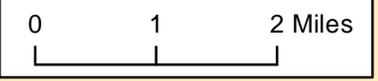
Appendix C



Mercer County Lands Within Hopewell Township

Legend

- Mercer County Lands



Appendix C.

County Lands in Hopewell Township

Map ID	Site Name	Acres	Manager	Current Deer Management Status	Hopewell Township
1	Wildlife Center and Correction Center	141	Mercer County / Mercer County Park Commission	No Hunting	Yes
2	Belle Mountain	125	Mercer County Park Commission	No Hunting	Yes
3	Trap Rock Lease Property?	20	Mercer County Park Commission	No Hunting	Yes
4	Howell Living History Farm	46	Mercer County Park Commission	Recreational	Yes
5	Howell Living History Farm	85	Mercer County Park Commission	Recreational	Yes
6	Howell Living History Farm	64	Mercer County Park Commission	Recreational	Yes
7	Ted Stiles Preserve at Baldpate Mountain	1,352	Mercer County Park Commission	DMP (Baldpate)	Yes
8	Hollystone Preserve	107	Mercer County Park Commission	DMP (Baldpate)	Yes
9	Baldpate North'	157	Mercer County Park Commission	DMP (Baldpate)	Yes
10	Pennington Mountain	78	Mercer County Park Commission	No Hunting	Yes
11	Featherbed Lane	67	Mercer County Park Commission	No Hunting	Yes
12	Aunt Molly Road	46	Mercer County Park Commission	No Hunting	Yes
13	Mercer Meadows - Rosedale Woods	78	Mercer County Park Commission	No Hunting	Yes
14	Mercer Meadows - Curlis Lake Woods	241	Mercer County Park Commission	No Hunting	Yes
15	Mercer Meadows - Rosedale Woods	535	Mercer County Park Commission	No Hunting	Yes
16	Mercer Meadows - Pole Farm	812	Mercer County Park Commission	DMP	Partial
17	Reed Road (Formerly Weidel)	17	Mercer County Park Commission	DMP (FoHVOS)	Yes
18	Mountain View Golf Course	275	Mercer County Park Commission	No Hunting	Partial
Totals		4,246			

Appendix D



For Official Use: *ID # A _____
*Assign sequential ID # from application log sheet

Hopewell Township Municipal Deer Management Program

Permit Application

Must be submitted in person to Hopewell Twp Police Department at
201 Washington Crossing – Pennington Rd. Titusville, NJ 08560
and signed in the presence of an Officer

1. Name: _____

One person per application

2. Address: _____

Street name and number, no PO boxes

Town, State, Zip Code

E-mail (Primary Contact): _____

Phone Number (Secondary Contact): home _____

cell _____

required if no home phone

Emergency Contact: Name _____

home phone _____

cell _____

required if no home phone

4. Date of Birth: (mm/dd/yyyy) _____

Note: All applicants must be 14 years or older when applying.

5. Social Security Number: _____ - _____ - _____

6. Hunting Vehicle #1 License Plate Number: _____ Year: _____

Make & Model _____ Color: _____

Hunting Vehicle #2 License Plate Number: _____ Year: _____

(backup, as needed)

Make & Model _____ Color: _____

7. New Jersey Conservation Identification Number (CID): _____

or proof of participation in a NJ State Hunter Education Course (attach copy of card to application)

8. I will apply for all applicable seasonal hunting State Permits and supply copies of the same to the Deer Management Program Director: ____ yes, ____ no

9. I have attached a copy of a current certificate of insurance confirming general liability insurance with combined single limits coverage for bodily injury and property damage of at least one million (\$1,000,000.00) dollars per single occurrence and one million (\$1,000,000.00) dollars annual aggregate: _____ yes, _____ no

10. I have enclosed a \$25 non-refundable processing fee check or money order made payable to: **Township of Hopewell** and agree to pay \$75 more if and when I am notified that my application has been approved for a permit: _____ yes, _____ no

11. My top five preferred hunting areas are indicated below with 1 being the highest choice and 5 the lowest. Note: numbers in () correspond to the property ID numbers on the maps.

- | | | |
|-----------------------------------|------------------------------------|----------------------|
| _____ Stony Brook Rd (1) | _____ Else (6) | _____ Scotch Rd (11) |
| _____ Gomez Preserve (2) | _____ Pennington-Rocky Hill Rd (7) | _____ Reed Rd (12) |
| _____ Harborton-Woodsville Rd (3) | _____ Bayberry Rd (8) | _____ Weidel (13) |
| _____ Vogler Preserve (4) | _____ Pennington Point (9) | |
| _____ Vales Preserve (5) | _____ Alliger Park (10) | |

12. My choice for the Township’s required hunter orientation course is indicated below.
Note: you are required to attend only one of these two dates. Do not submit an application if you can not attend either date.
No permit will be issued unless you complete this course.

_____ Wednesday, August 15, 2012 at 7pm _____ Wednesday, August 22, 2012 at 7pm

13. I hereby **certify** that I have not been convicted of any felonies, nor am I prohibited by law from possessing a firearm; I further **authorize** Hopewell Township to conduct a background check for violations of the New Jersey Fish and Game Code, N.J.A.C. 7:25-5 et seq. and NJSA Title 23, and for violations of any local regulations pertaining to parks or hunting; and I have also read, understand and **agree** to abide by the rules and regulations set forth in section 2.33.16 of the Hopewell Township Code.

Applicant Signature required here in presence of Officer

Date

witnessing officer’s signature or initials

End

For Official Use:

Hopewell Township Municipal Deer Management Program

Step 1 – Application (to be completed now by receiving officer)

Application received on: (mm/dd/yyyy) _____ *ID # A _____

\$25 non-refundable processing fee, Check or Money Order Number: _____

Hunting License or NJ State Hunter Education Course (copy attached): ____ yes, ____ no

Insurance Certificate (copy attached): ____ yes, ____ no

Drivers License (make copy and attach - check box): ____ yes

Issued receipt to applicant: ____ yes Processing Officer's initials _____

Note: Begin background check only if / when all above materials are received

Step 2 – Background Checks (submit list of names to NJ Fish & Wildlife)

New Jersey Fish and Game Code, N.J.A.C. 7:25-5 Background Check Violations: ____ yes, ____ no

Violations of local regulations pertaining to parks or to hunting: ____ yes, ____ no

Processing Officer's initials _____

Note: Forward entire application to Chief of Police

Step 3 – Assign Permits (to be completed only if and when issuing Hunting Permit and Parking Permit)

Permit Number: _____

(Note: the same number must appear on both the Hunting Permit and Parking Permit)

Date Issued: (mm/dd/yyyy) _____

Completed Hunting Permit (copy attached): ____ yes, ____ no

Completed Parking Permit (copy attached): ____ yes, ____ no

Processing Officer's initials: _____

Step 4 – Issue Permits

Forward completed hunting and parking permits to Twp Clerk who will issue same to applicant.

Hopewell Township
Municipal Deer Management Program

News Brief

Hunting Permit Application Notice

Hopewell Township is now accepting individual permit applications for the township's municipal deer management program for the 2012-2013 hunting season. All applicants must be fourteen (14) years or older and have a valid New Jersey hunting license. There is a \$25 non-refundable application fee. Permitted hunters will be selected by lottery process. Once notified, successful applicants are required to participate in a site-specific hunter orientation course and pay an additional \$75 to receive their hunting and parking permits. Permits will be valid for the entire hunting season; September 8, 2012 – February 16, 2013.

Licensed hunters who are interested in participating in the program should visit www.hopewelltp.org for an application form, parcel location maps/number of hunters/permitted weapons, rules and regulations, township ordinance for Deer Management and authorizing Resolution. Paper copies of these documents are available in the township's municipal building lobby. All applications, additional forms and releases must be submitted in person by the applicant to the Hopewell Township Police Department, 201 Washington Crossing – Pennington Rd, Titusville, NJ 08650. Applications will only be accepted from 8am-4pm, Monday-Friday's. The application deadline is Friday, July 27, 2012 at 4pm. Only completed applications will be processed.



TOWNSHIP OF HOPEWELL MERCER COUNTY

201 Washington Crossing Pennington Road
Titusville, New Jersey 08560-1410

Notice

Hopewell Township recently adopted a deer management program which permits hunting on certain municipal owned properties. You are receiving this notice because your property is located within 200 feet of a municipal owned property upon which hunting will be permitted.

The 2012-2013 hunting season begins September 8, 2012 and lasts through February 16, 2013. Only New Jersey licensed hunters who pass a background check will be permitted to hunt designated municipally owned properties.

All municipally owned properties upon which hunting will occur may be found on the Township website at:

http://www.hopewelltpw.org/deer_mgmt_hunting/HTDMP_Property_Maps_2012_07_09.pdf

There are Safety zones identified on each property where hunting will be permitted. These safety zones will be enforced by the Township.

There is a webpage devoted to the Deer Management Program on the Township. There you will find a complete list of properties upon which hunting will be permitted; parcel & parking location maps, number of hunters, permitted weapons, rules and regulations, and township ordinance for Deer Management:

http://www.hopewelltpw.org/deer_mgmt_permit_application.html

Paper copies of any documents are available at the Hopewell Township Municipal Building located at 201 Washington Crossing – Pennington Rd, Titusville, NJ 08650.

Please direct any questions or concerns to Robert Miller, Zoning Officer at 609-737-0605 ext. 643. Thank you.

**Hopewell Township
Municipal Deer Management Program**

RULES AND REGULATIONS

2012-2013 Season

All State and local regulations pertaining to parks and to hunting apply, including specific season dates and bag limits for white-tailed deer as established or amended by the New Jersey Division of Fish & Wildlife for management zones 12, 14 and 41. In addition, the following special regulations apply:

1. Only permitted hunters are allowed to participate in this program.
2. In order to obtain a permit, all prospective hunters are required to submit an application.
3. Only completed applications submitted in person by New Jersey licensed hunters who are fourteen (14) years of age or older, together with proof of \$1 million general liability insurance, who are not prohibited by law from possessing a firearm, have not been convicted of a felony, have no significant state or local background check violations within the past ten (10) years, and who submit a \$25 non-refundable fee, shall be eligible for a municipal deer management permit.
4. Applications and other pertinent information will be available in the lobby of the Township Municipal Building at 201 Washington Crossing – Pennington Rd, Titusville, NJ 08650, or may be downloaded from the Township’s web site at www.hopewelltp.org beginning July 10, 2012.
5. Applications will only be accepted at the Township Police Station, 201 Washington Crossing – Pennington Rd, Titusville, NJ 08650, Monday – Friday’s from 8am-4pm.
6. You must indicate on the application form, which property you are applying for.
7. The application deadline is 4pm Friday, July 27, 2012.
8. Successful applicants will be notified by the Program Director.
9. Successful applicants are required to complete the Township’s site-specific hunter orientation course being held at 7pm in the Municipal Building Auditorium at on the following dates:
Wednesday, August 15, 2012 and Wednesday, August 22, 2012
Note: you are required to attend only one of these two dates. Do not submit an application if you can not attend either date. No permit will be issued unless you complete this course.
10. Following successful completion of the hunter orientation course, and payment of the remaining \$75 fee, the Municipal Clerk shall issue a site-specific hunting permit, parking permit and property map to each permittee.
11. Only one hunting permit and one parking permit per applicant will be issued.
12. All permits are non-transferable.
13. Hunters are only authorized to be on the property for which they have been issued a permit, and are responsible for knowing where they are at all times.
14. Each hunter’s permit must be prominently displayed whenever the hunter is on the property.
15. Motorized vehicles are restricted to public roads and designated parking areas.
16. Prior to any hunting activities taking place, permittees shall post hunting notice signs along the boundaries of the properties for which they have received a permit (boundary hunting notice signs will be provided by the Township).
17. Hunting will be allowed only in elevated stands.

18. Only portable stands that do not harm trees are allowed.
19. Only one tree stand is allowed per hunter.
20. Each tree stand must be visibly marked with the last two digits of the hunter's permit number (unmarked stands will be removed).
21. All tree stands shall be removed no later than fifteen (15) days following the end of the NJ deer hunting seasons, or as required by the Program Director.
22. Target practice is strictly prohibited. Discharge of a crossbow prior to transporting is not considered target practice. A field target, such as the Rinehart RFT, is recommended to discharge crossbows.
23. Hunters are not permitted to hunt or possess a loaded firearm within 450 feet of any building or school playground.
24. Hunting may begin one half hour before sunrise and must end one half hour after sunset.
25. Hunting is not permitted on Sundays.
26. Only white-tailed deer may be hunted; the hunting, shooting, killing, pursuit or removal of any other wildlife is strictly prohibited.
27. Deer drives are allowed only by permittees.
28. No person shall carry a sporting arm of any kind while driving deer.
29. All deer must be checked in using the New Jersey Division of Fish and Wildlife's automated deer check system.
30. Hunters shall provide check-in details to the Program Director for each deer culled by them.
31. Use or possession of alcoholic beverages while on the property is prohibited.
32. Littering is prohibited.
33. Violation of any special condition or any applicable State law or local regulation will result in the immediate loss of hunting privileges on the property and will also subject the hunter to any applicable penalties.



Hopewell Township
Municipal Deer Management Program
2012-13 Season

Parking Permit (*)

Number 2012-13/_____/_____
parcel # ID #

(*) Must be properly displayed on the front left dashboard at all times while on property.
Unauthorized vehicles are subject to towing at owner's expense.

The following vehicle(s) are officially registered with the Hopewell Township Municipal Deer Management Program and have permission to park at this designated location during the subject hunting season.

Vehicle #1 License Plate Number: _____ Year: _____
Make & Model _____ Color: _____

Vehicle #2 License Plate Number: _____ Year: _____
(backup, as needed) Make & Model _____ Color: _____

Date issued: _____
Chief of Police Signature

cut line -----



Hopewell Township
Municipal Deer Management Program
2012-13 Season

Hunting Permit (*)

Number 2012-13/_____/_____
parcel # ID #

*Must be carried together with personal hunting license and presented upon request.

The hunter whose name appears below is officially registered with the Hopewell Township Municipal Deer Management Program and has permission to hunt at this designated location during the subject hunting season.

Name(printed): _____

Date issued: _____
Chief of Police Signature

Hopewell Township Deer Management Program

Property Map

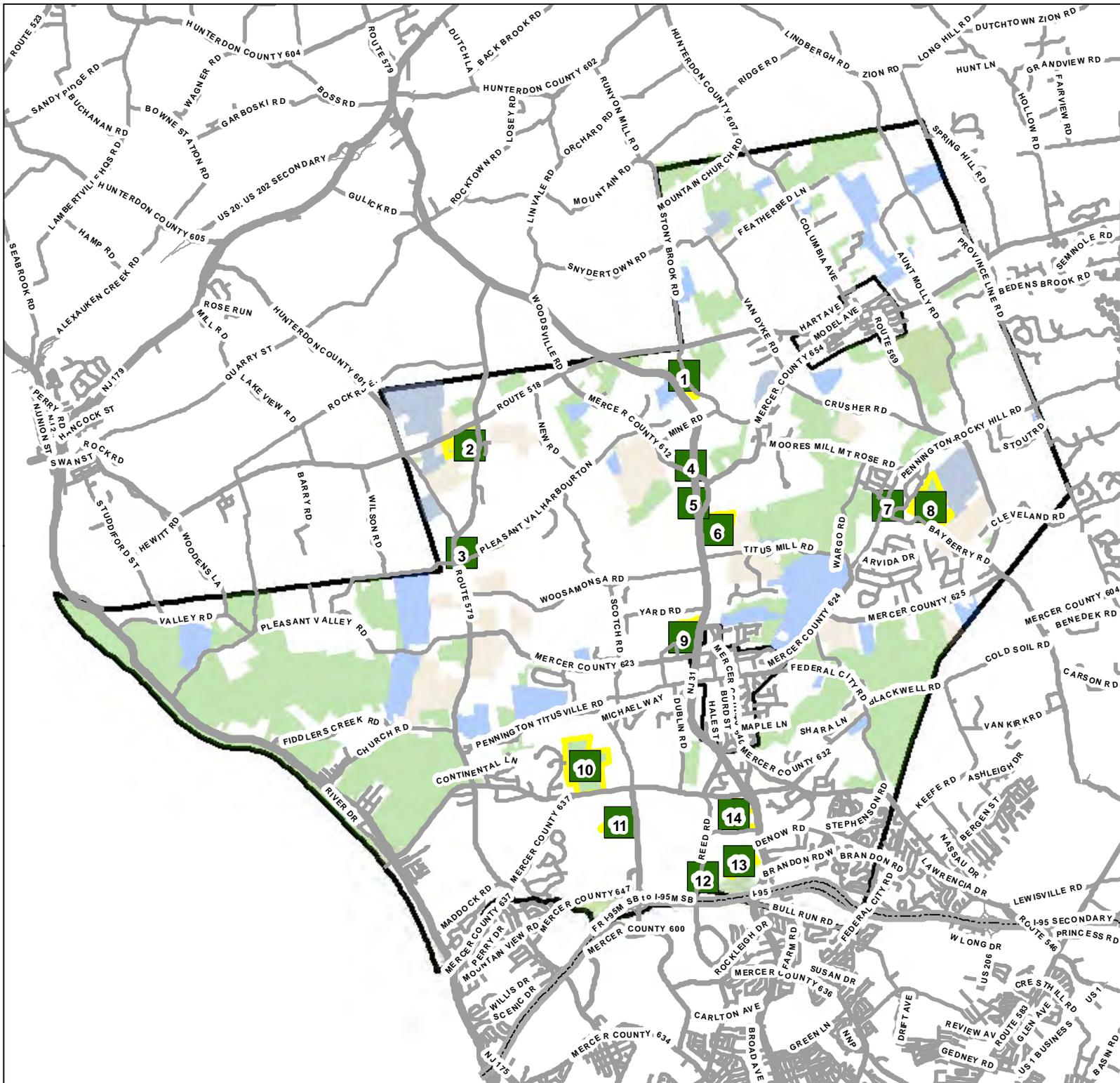
Site ID, Site Name

1. Stony Brook Road
2. Gomez Preserve
3. Harbourton-Woodville Road
4. Vogler Preserve
5. Vales Preserve
6. Else
7. Pennington-Rocky Hill
8. Bayberry Road
9. Pennington Point
10. Alliger Park
11. Scotch Road
12. Reed Road
13. Weidel
14. Zaitz-Hutcheson



Legend

- DMP Property Locations
- Property Boundary
- Preserved Farmland
- Protected Open Space
- Private Easements



Hopewell Twp Municipal Deer Management Program

Hunter's End-of-Season Questionnaire

Results as of June 13, 2013

Number of Hunters: 55 Number of Respondents (89% participation)

by Deer E-mail Jim's E-mail by Regular mail or hand-in

1. **Parcel Name & Number** (type X in one box below):

Stony Brook Rd (1) Gomez Preserve (2) Harbourton-Woodsville Rd (3) Vogler Preserve (4)

Vales Preserve (5) Else (6) Pennington-Rocky Hill Rd (7) Bayberry Rd (8)

Pennington Point (9) Alliger Park (10) Scotch Rd (11) Reed Rd (12) Weidel (13)

2. **Hunting Experience: How long have you been a hunter?**

0-1 year 2-5 years 5-10 years 11+ years

3. **How much total time did you spend at your hunting parcel this season?**

(i.e. boundary posting, scouting, removing trash, baiting, and hunting)

0-10 hours 11-50 hours 51-100 hours >100 hours

4. **Hunting Success: Did you meet the required quota?**

Yes No **Note: some Yes hunters also checked factors below.**

If no, "what factors limited your deer harvest?" (check all that apply)

Quota was not fair Not enough time to hunt Not enough deer on the parcel

Too many rules Butchering/meat storage was difficult and/or expensive

Could not access portions of the parcel that had a lot of deer

My parcel has too much hunting pressure or other issues from neighboring properties

5. **Hunting Parcel (size vs. number of hunters):**

My parcel was too small for the number of hunters.

My parcel was the right size for the number of hunters.

My parcel was too big and has room for additional hunters next season.

6. Hunter Relations with Co-Hunters:

No problem

I prefer to be with a different group of hunters next season.

Not Applicable

7. Hunting Program:

The program is fine The program needs improvement (see my comments below)

8. Hunting Season: Are you interested in participating in the 2013-2014 season?

Yes No Maybe

9. Hunting Issues / Program Comments / Suggestions: (type your message in text box below)

(Briefly explain any unusual sightings or other issues that you feel need to be addressed – ex. existing tree stands, trash piles / unusual items, parking problems, signs, neighbors, other hunters, etc.)

46 respondents submitted comments

Note: 3 hunters who responded to the questionnaire did not provide comments.

Thank you.

When finished, please save the completed form, attach it to an e-mail and send it to: deermanagement@hopewelltp.org

Or you may hand deliver or mail a photo copy to:
Deer Management Advisory Committee
201 Washington Crossing Pennington Road
Titusville, NJ 08560

Or you may hand in a copy at our end-of-season meeting to be held April 24, 2013.

Appendix E

**Hopewell Valley
Deer Management
Task Force**

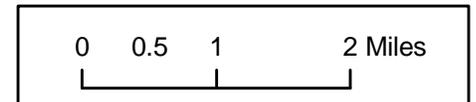
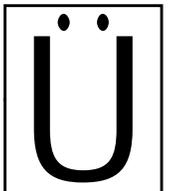
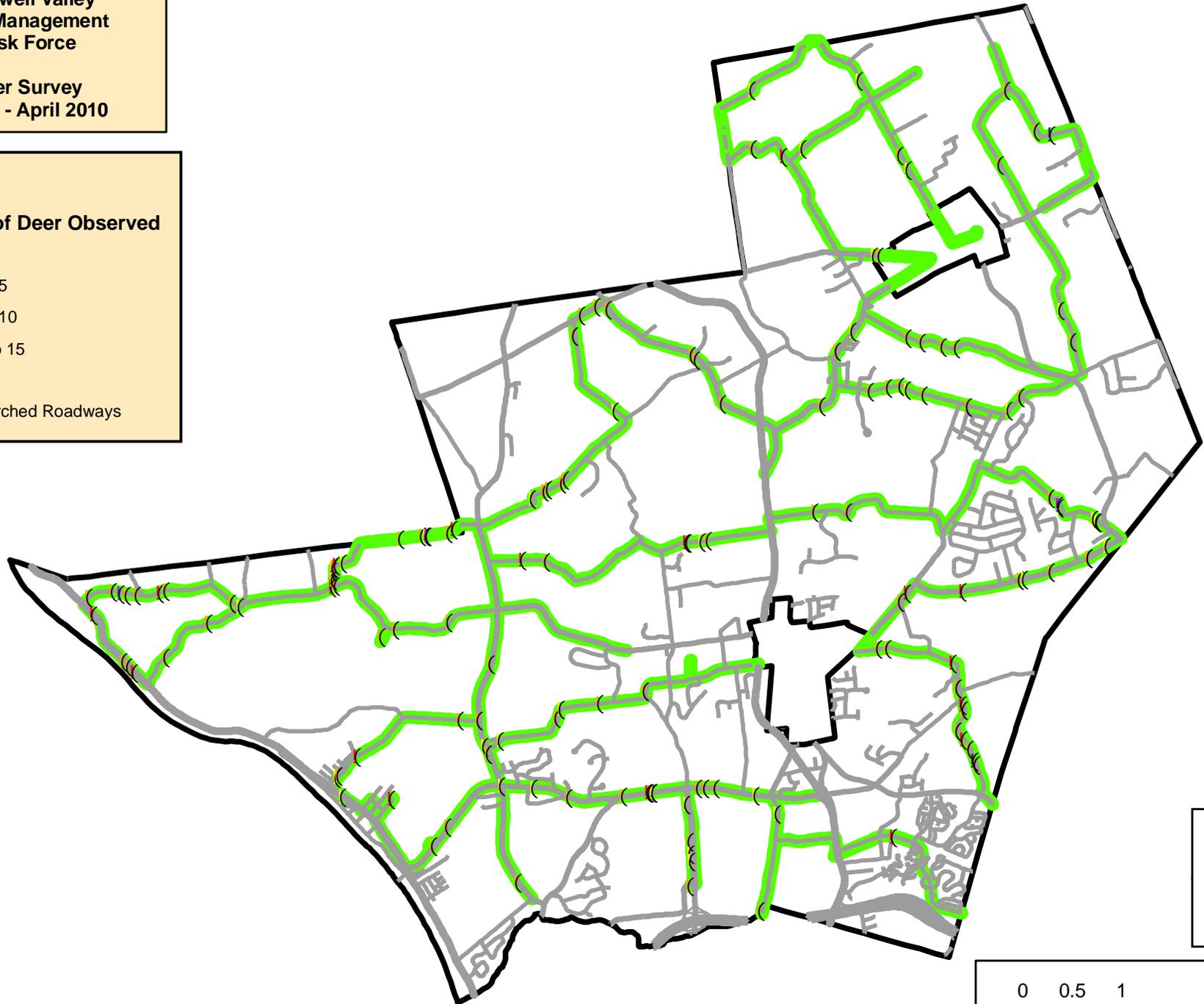
**Deer Survey
March - April 2010**

Legend

Number of Deer Observed

- (1
- (2 to 5
- (6 to 10
- (11 to 15
- (> 15

 Searched Roadways



**Hopewell Township
Deer Management
Advisory Committee**

**Deer Population Survey
March 2012**

Legend

Number of Deer Observed

- 1
- 2 to 5
- 6 to 10

— Survey Route

