RESPONSIVE MANAGEMENT™

PENNSYLVANIA RESIDENTS’ OPINIONS ON
AND ATTITUDES TOWARD DEER AND
DEER MANAGEMENT

Conducted for the Pennsylvania Game Commission

by Responsive Management

2012
Acknowledgments

Responsive Management would like to thank Coren Jagnow, Chris Rosenberry, Joseph Neville, and Cal DuBrock of the Pennsylvania Game Commission for their input, support, and guidance on this project.
EXECUTIVE SUMMARY

INTRODUCTION AND METHODOLOGY

This study was conducted for the Pennsylvania Game Commission (PGC) to determine Pennsylvania residents’ opinions on and attitudes toward deer and deer management, including their participation in deer-related and other wildlife-related activities, their opinions on management efforts and management goals, their opinions on methods for managing deer, and their concerns about deer nuisance problems. The study entailed a telephone survey of Pennsylvania residents 18 years old and older.

For the survey, telephones were selected as the preferred sampling medium because of the almost universal ownership of telephones among Pennsylvania residents (both landlines and cell phones were called). Additionally, telephone surveys, relative to mail or Internet surveys, allow for more scientific sampling and data collection, provide higher quality data, obtain higher response rates, are more timely, and are more cost-effective. Telephone surveys also have fewer negative effects on the environment than do mail surveys because of reduced use of paper and reduced energy consumption for delivering and returning the questionnaires.

The telephone survey questionnaire was developed cooperatively by Responsive Management and the PGC. Responsive Management conducted pre-tests of the questionnaire to ensure proper wording, flow, and logic in the survey.

The sample of Pennsylvania residents was obtained from SSI and Database 101, firms that specialize in providing scientific survey samples. A sample of at least 400 completed interviews was obtained for each of the 22 Wildlife Management Units (WMUs) in Pennsylvania so that results would be statistically valid within each WMU. Although the lowest geographical unit for analysis was the WMU, the sampling within the WMUs was obtained on a census block level so that the sample of each WMU would exactly match that WMU’s actual population. Each WMU was divided into 12 age/gender categories, and each of those categories were weighted within the WMU. While the unweighted sample that was obtained for each WMU closely matched the actual population, the internal weighting within each WMU simply ensured that the sample would exactly match the actual population.
Because the WMU boundaries cross county lines and cross, in many places, zip code boundary lines, a Geographic Information System (GIS) specialist properly categorized each sample telephone number into its proper WMU. This GIS matching was done to both landlines and cell phones and accounted for the fact that cell phones may have area codes that do not match residency (because cell phones’ area codes are based on location of purchase, not location of residency of the owner).

For statewide results when the 9,212 completed interviews from all 22 WMUs were put together, the WMUs were weighted so that they would be in their proper proportions based on the overall state population. The overall sample thereby obtained was representative of all Pennsylvania residents 18 years old and older.

Telephone surveying times are Monday through Friday from 9:00 a.m. to 9:00 p.m., Saturday from noon to 5:00 p.m., and Sunday from 5:00 p.m. to 9:00 p.m., local time. The survey was conducted in November and December 2011. The software used for data collection was Questionnaire Programming Language (QPL). The survey questionnaire was programmed so that QPL branched, coded, and substituted phrases in the survey based on previous responses to ensure the integrity and consistency of the data collection. Responsive Management obtained a total of 9,212 completed interviews among the 22 WMUs.

The analysis of data was performed using Statistical Package for the Social Sciences as well as proprietary software developed by Responsive Management. The results were weighted by demographic characteristics within each WMU so that the sample was representative of residents of that WMU as a whole, based on 12 categories of age/gender. In addition, the WMUs were weighted when statewide data were shown so that each WMU properly represented its share of the state’s total population of residents 18 years old and older.

Throughout this report, findings of the telephone survey are reported at a 95% confidence interval (or higher). For the entire sample of Pennsylvania residents 18 years old and older, the sampling error is at most plus or minus 1.02 percentage points. Sampling error was calculated
PARTICIPATION IN VIEWING DEER

- A majority of Pennsylvania residents (56%) spent time viewing or watching deer around their home in the past 12 months. Additionally, 22% of Pennsylvania residents took a trip of at least 1 mile to view deer.
  - Of those who took a deer viewing trip, about a third used a spotlight to view the deer at night.

- Satisfaction is high with opportunities to view or watch deer in Pennsylvania: 66% say that they are somewhat or very satisfied, while 10% say that they are very or somewhat dissatisfied; the remainder are neutral.

OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- In general, Pennsylvania residents’ feelings about deer are positive: 49% say (without any caveats) that they like having deer around, and another 28% say that they like having deer around even though they worry about problems that the deer may cause. Only 6% say that they generally regard deer as a nuisance.

- In general, deer-related issues are not within the top half of the rating scale among Pennsylvania residents. On a scale of 0 to 10, with 0 being not at all important and 10 being extremely important, the mean rating among Pennsylvania residents is 4.09, and the median rating is “4.”

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The first question asked about respondents’ concerns about the quality of deer habitat in Pennsylvania, and the mean rating (5.85) and median rating (6) are above the midpoint. The second question asked about respondents’ concerns about the health of the deer population,
with even greater concern than the previous question: the mean rating (6.23) and the median rating (7) are both well above the midpoint.

- A majority of Pennsylvania residents (54%) say the deer population in their area is just right. Otherwise, they are fairly evenly split, with 20% saying the deer population is too high, and 18% saying it is too low.

OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 91% agree with managing for healthy and sustainable deer populations, 89% agree with managing the deer for a healthy and sustainable forest habitat, and 84% agree with managing for safe, acceptable levels of deer-human conflicts. The ecological goals are both slightly higher than the human-centered goal.

- Pennsylvania residents who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. A relatively large percentage of respondents to this question did not know what a reasonable time would be: 34% indicated “don’t know.” Otherwise, the most common answer is 5 years (21% gave this answer). The mean is 4.77 years, and the median is 4 years.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just over half of Pennsylvania residents (53%) indicated that they would be willing to wait that long. However, 42% indicated an unwillingness to wait that long.
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- Just under two-thirds of Pennsylvania residents (63%) support lethal methods to manage deer populations in Pennsylvania (38% strongly support, and 25% moderately support); nonetheless, 29% oppose (20% strongly oppose, and 9% moderately oppose).

  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (85% of respondents support this method, while 12% oppose), distantly followed by fertility/birth control (46% support, 45% oppose), professionals or sharpshooters (39% support, 54% oppose), and trapping and killing (24% support, 72% oppose). In each case, the remainder are neutral or do not know.

- Pennsylvania residents who live in a single-family home were asked if they personally hunt on their property: 10% indicate that they do. Additionally, 15% allow others to hunt on their property. In total, 17% hunt on their property and/or allow others to do so (it is not simply a sum because some did both).

  - Those who live in a single-family home but who do not allow hunting were asked for their reasons for prohibiting hunting. Most commonly, they say it is because their property is too small/too near neighbors (48% of these respondents) and/or that they live in an urban or suburban neighborhood where hunting is not feasible (also 48%). These top two reasons are distantly followed by concerns about safety (10%) and a general opposition to hunting (9%).

  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (94%), and another 2% say somewhat unlikely. They were then asked if there is anything that would make them more likely to allow deer hunting; an overwhelming majority (97%) say that there is nothing that would make them more likely to allow deer hunting.

    o Follow-up questions were given to those respondents who do not allow hunting on their property but who indicated that there might be something that would encourage them to allow hunting. They were first asked in an open-ended question what would make them more likely to allow deer hunting on their property. The top two
responses were if the hunter followed specific instructions and restrictions and if the homeowner had more land or lived in a more rural area.

- Along with that open-ended follow-up question, a series of questions were also asked of these same respondents wherein four items were read to these respondents to see if any of the four items would make them more likely to allow hunting. The top items are if those who hunted on the property followed specific instructions and restrictions (interestingly, similar to the open-ended responses) and if those who hunted the property had completed an advanced hunter safety course.

CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for tick-borne diseases (mean rating of 7.4) and deer-vehicle accidents (7.0), followed by two more whose means are just under those top two: the health of the deer population (6.2) and the quality of deer habitat (5.9).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.9) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.5) and deer droppings in the yard (1.7).

- Just under two-thirds of Pennsylvania residents (61%) have seen deer on their property in the past 12 months, with a quarter of residents (26%) saying that they saw them frequently.

- The survey asked about specific nuisance problems with deer that Pennsylvania residents may have experienced, and 12% indicated that they experienced problems with deer at their primary place of residence in the past 12 months. Another question asked about deer-vehicle collisions, and 13% indicated that they or another household member had been in a vehicle collision with a deer (only about 1 in 20 respondents to this question indicated that either the driver or passengers were injured). Finally, 4% indicated that they or a household member had been diagnosed with a tick-borne disease.
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Among Pennsylvania residents overall, 8% fed deer or put out attractants, 10% indicated that neighbors had done so, and just under half (44%) fed birds.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks and corn (just under half of those who put out feed/attractants put out these), with apples put out by 18% of these respondents.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 44% agree that this is okay, but a similar percentage (47%) disagree. The rest are neutral. While the agree responses are about evenly divided between strong and moderate agreement, most of the disagreement is strong disagreement.

- A quarter of Pennsylvania residents (25%) consider themselves to be a hunter (even though not all of them hunt every year), about three-fourths of whom have a 2011 Pennsylvania hunting license.
  - Among Pennsylvania residents whose primary place of residence is a single-family home, 10% indicated that they personally hunt on their property.
  - Just under three-fourths of Pennsylvania residents (72%) have family members or friends who hunt.

SOURCES OF INFORMATION

- Most commonly, Pennsylvania residents say that the best way to provide them with information about deer in Pennsylvania is through direct mail (39% gave this response). This is distantly followed by four other sources: email (17%), newspaper (16%), the Internet (14% saying an Internet site other than the PGC and 4% saying the agency website; note that some said both), and TV (11%).

- Just under half of Pennsylvania residents (45%) use social media such as Facebook (the most common of the social media), YouTube, or Twitter.
# TABLE OF CONTENTS

Introduction and Methodology ................................................................. 1  
  Use of Telephones for the Survey .......................................................... 1  
  Questionnaire Design ........................................................................... 1  
  Survey Sample ..................................................................................... 1  
  Telephone Interviewing Facilities ......................................................... 3  
  Interviewing Dates and Times .............................................................. 3  
  Telephone Survey Data Collection and Quality Control ....................... 3  
  Data Analysis ..................................................................................... 4  
  Nonparametric Analysis ..................................................................... 5  
  Interpreting the Nonparametric Analysis Results ............................... 9  
  Sampling Error .................................................................................. 11  
  Additional Information About the Presentation of Results in the Report ... 12  

Statewide Results ................................................................................. 14  
  Participation in Viewing Deer ............................................................. 14  
  Opinions on Deer in General and the Size and Health of the Deer Herd ... 35  
  Opinions on Management Efforts and Management Goals .................. 61  
  Opinions on Methods for Managing Deer, Including Hunting .............. 76  
  Concerns About Deer and Deer Nuisance Problems ............................. 122  
  Feeding Wildlife and Hunting Deer ..................................................... 172  
  Sources of Information ...................................................................... 197  
  Demographic Data ............................................................................ 208  

Results for WMU 1A ............................................................................. 229  
  Participation in Viewing Deer ............................................................. 230  
  Opinions on Deer in General and the Size and Health of the Deer Herd ... 235  
  Opinions on Management Efforts and Management Goals .................. 243  
  Opinions on Methods for Managing Deer, Including Hunting .............. 247  
  Concerns About Deer and Deer Nuisance Problems ............................. 261  
  Feeding Wildlife and Hunting Deer ..................................................... 274  
  Sources of Information ...................................................................... 282  

Results for WMU 1B ............................................................................. 286  
  Participation in Viewing Deer ............................................................. 287  
  Opinions on Deer in General and the Size and Health of the Deer Herd ... 292  
  Opinions on Management Efforts and Management Goals .................. 300  
  Opinions on Methods for Managing Deer, Including Hunting .............. 304  
  Concerns About Deer and Deer Nuisance Problems ............................. 318  
  Feeding Wildlife and Hunting Deer ..................................................... 331  
  Sources of Information ...................................................................... 339
TABLE OF CONTENTS (continued)

Results for WMU 2A ........................................................................................................................................343
  Participation in Viewing Deer ..................................................................................................................344
  Opinions on Deer in General and the Size and Health of the Deer Herd ...........................................349
  Opinions on Management Efforts and Management Goals ...............................................................357
  Opinions on Methods for Managing Deer, Including Hunting ............................................................361
  Concerns About Deer and Deer Nuisance Problems ...........................................................................375
  Feeding Wildlife and Hunting Deer ....................................................................................................388
  Sources of Information ..........................................................................................................................396

Results for WMU 2B ........................................................................................................................................400
  Participation in Viewing Deer ................................................................................................................402
  Opinions on Deer in General and the Size and Health of the Deer Herd ...........................................407
  Opinions on Management Efforts and Management Goals ...............................................................415
  Opinions on Methods for Managing Deer, Including Hunting ............................................................419
  Concerns About Deer and Deer Nuisance Problems ...........................................................................433
  Feeding Wildlife and Hunting Deer ....................................................................................................446
  Sources of Information ..........................................................................................................................454

Results for WMU 2C ........................................................................................................................................458
  Participation in Viewing Deer ................................................................................................................459
  Opinions on Deer in General and the Size and Health of the Deer Herd ...........................................464
  Opinions on Management Efforts and Management Goals ...............................................................472
  Opinions on Methods for Managing Deer, Including Hunting ............................................................476
  Concerns About Deer and Deer Nuisance Problems ...........................................................................490
  Feeding Wildlife and Hunting Deer ....................................................................................................503
  Sources of Information ..........................................................................................................................511

Results for WMU 2D ........................................................................................................................................515
  Participation in Viewing Deer ................................................................................................................516
  Opinions on Deer in General and the Size and Health of the Deer Herd ...........................................521
  Opinions on Management Efforts and Management Goals ...............................................................529
  Opinions on Methods for Managing Deer, Including Hunting ............................................................533
  Concerns About Deer and Deer Nuisance Problems ...........................................................................547
  Feeding Wildlife and Hunting Deer ....................................................................................................560
  Sources of Information ..........................................................................................................................568

Results for WMU 2E ........................................................................................................................................572
  Participation in Viewing Deer ................................................................................................................573
  Opinions on Deer in General and the Size and Health of the Deer Herd ...........................................578
  Opinions on Management Efforts and Management Goals ...............................................................586
  Opinions on Methods for Managing Deer, Including Hunting ............................................................590
  Concerns About Deer and Deer Nuisance Problems ...........................................................................604
  Feeding Wildlife and Hunting Deer ....................................................................................................617
  Sources of Information ..........................................................................................................................625
# TABLE OF CONTENTS (continued)

Results for WMU 2F .............................................................................................................629
- Participation in Viewing Deer .........................................................................................630
- Opinions on Deer in General and the Size and Health of the Deer Herd .....................635
- Opinions on Management Efforts and Management Goals ........................................643
- Opinions on Methods for Managing Deer, Including Hunting ................................... 647
- Concerns About Deer and Deer Nuisance Problems .................................................. 661
- Feeding Wildlife and Hunting Deer ............................................................................. 674
- Sources of Information ................................................................................................. 682

Results for WMU 2G .............................................................................................................686
- Participation in Viewing Deer .........................................................................................688
- Opinions on Deer in General and the Size and Health of the Deer Herd .....................693
- Opinions on Management Efforts and Management Goals ........................................701
- Opinions on Methods for Managing Deer, Including Hunting ................................... 705
- Concerns About Deer and Deer Nuisance Problems .................................................. 719
- Feeding Wildlife and Hunting Deer ............................................................................. 732
- Sources of Information ................................................................................................. 740

Results for WMU 3A .............................................................................................................744
- Participation in Viewing Deer .........................................................................................746
- Opinions on Deer in General and the Size and Health of the Deer Herd .....................751
- Opinions on Management Efforts and Management Goals ........................................759
- Opinions on Methods for Managing Deer, Including Hunting ................................... 763
- Concerns About Deer and Deer Nuisance Problems .................................................. 777
- Feeding Wildlife and Hunting Deer ............................................................................. 790
- Sources of Information ................................................................................................. 798

Results for WMU 3B .............................................................................................................802
- Participation in Viewing Deer .........................................................................................804
- Opinions on Deer in General and the Size and Health of the Deer Herd .....................809
- Opinions on Management Efforts and Management Goals ........................................817
- Opinions on Methods for Managing Deer, Including Hunting ................................... 821
- Concerns About Deer and Deer Nuisance Problems .................................................. 835
- Feeding Wildlife and Hunting Deer ............................................................................. 848
- Sources of Information ................................................................................................. 856

Results for WMU 3C .............................................................................................................860
- Participation in Viewing Deer .........................................................................................861
- Opinions on Deer in General and the Size and Health of the Deer Herd .....................866
- Opinions on Management Efforts and Management Goals ........................................874
- Opinions on Methods for Managing Deer, Including Hunting ................................... 878
- Concerns About Deer and Deer Nuisance Problems .................................................. 892
- Feeding Wildlife and Hunting Deer ............................................................................. 905
- Sources of Information ................................................................................................. 913
TABLE OF CONTENTS (continued)

Results for WMU 3D .................................................................................................................................................. 917
  Participation in Viewing Deer ................................................................................................................................. 918
  Opinions on Deer in General and the Size and Health of the Deer Herd ............................................................. 923
  Opinions on Management Efforts and Management Goals .................................................................................. 931
  Opinions on Methods for Managing Deer, Including Hunting ........................................................................... 935
  Concerns About Deer and Deer Nuisance Problems ......................................................................................... 949
  Feeding Wildlife and Hunting Deer .................................................................................................................... 962
  Sources of Information ......................................................................................................................................... 970

Results for WMU 4A ................................................................................................................................................... 974
  Participation in Viewing Deer ................................................................................................................................. 975
  Opinions on Deer in General and the Size and Health of the Deer Herd ............................................................. 980
  Opinions on Management Efforts and Management Goals .................................................................................. 988
  Opinions on Methods for Managing Deer, Including Hunting ........................................................................... 992
  Concerns About Deer and Deer Nuisance Problems ......................................................................................... 1006
  Feeding Wildlife and Hunting Deer .................................................................................................................... 1019
  Sources of Information ......................................................................................................................................... 1027

Results for WMU 4B ................................................................................................................................................... 1031
  Participation in Viewing Deer ................................................................................................................................. 1033
  Opinions on Deer in General and the Size and Health of the Deer Herd ............................................................. 1038
  Opinions on Management Efforts and Management Goals .................................................................................. 1046
  Opinions on Methods for Managing Deer, Including Hunting ........................................................................... 1050
  Concerns About Deer and Deer Nuisance Problems ......................................................................................... 1064
  Feeding Wildlife and Hunting Deer .................................................................................................................... 1077
  Sources of Information ......................................................................................................................................... 1085

Results for WMU 4C ................................................................................................................................................... 1089
  Participation in Viewing Deer ................................................................................................................................. 1090
  Opinions on Deer in General and the Size and Health of the Deer Herd ............................................................. 1095
  Opinions on Management Efforts and Management Goals .................................................................................. 1103
  Opinions on Methods for Managing Deer, Including Hunting ........................................................................... 1107
  Concerns About Deer and Deer Nuisance Problems ......................................................................................... 1121
  Feeding Wildlife and Hunting Deer .................................................................................................................... 1134
  Sources of Information ......................................................................................................................................... 1142

Results for WMU 4D ................................................................................................................................................... 1146
  Participation in Viewing Deer ................................................................................................................................. 1147
  Opinions on Deer in General and the Size and Health of the Deer Herd ............................................................. 1152
  Opinions on Management Efforts and Management Goals .................................................................................. 1160
  Opinions on Methods for Managing Deer, Including Hunting ........................................................................... 1164
  Concerns About Deer and Deer Nuisance Problems ......................................................................................... 1178
  Feeding Wildlife and Hunting Deer .................................................................................................................... 1191
  Sources of Information ......................................................................................................................................... 1199
<table>
<thead>
<tr>
<th>TABLE OF CONTENTS (continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Results for WMU 4E ..........................</td>
</tr>
<tr>
<td>Participation in Viewing Deer .................................................</td>
</tr>
<tr>
<td>Opinions on Deer in General and the Size and Health of the Deer Herd ................................</td>
</tr>
<tr>
<td>Opinions on Management Efforts and Management Goals ..................................</td>
</tr>
<tr>
<td>Opinions on Methods for Managing Deer, Including Hunting ..................................</td>
</tr>
<tr>
<td>Concerns About Deer and Deer Nuisance Problems ........................................</td>
</tr>
<tr>
<td>Feeding Wildlife and Hunting Deer ....................................................................</td>
</tr>
<tr>
<td>Sources of Information .................................................................................</td>
</tr>
<tr>
<td>Results for WMU 5A .................................................................</td>
</tr>
<tr>
<td>Participation in Viewing Deer ..........................................................</td>
</tr>
<tr>
<td>Opinions on Deer in General and the Size and Health of the Deer Herd ................................</td>
</tr>
<tr>
<td>Opinions on Management Efforts and Management Goals ..................................</td>
</tr>
<tr>
<td>Opinions on Methods for Managing Deer, Including Hunting ..................................</td>
</tr>
<tr>
<td>Concerns About Deer and Deer Nuisance Problems ........................................</td>
</tr>
<tr>
<td>Feeding Wildlife and Hunting Deer ....................................................................</td>
</tr>
<tr>
<td>Sources of Information .................................................................................</td>
</tr>
<tr>
<td>Results for WMU 5B .................................................................</td>
</tr>
<tr>
<td>Participation in Viewing Deer ..........................................................</td>
</tr>
<tr>
<td>Opinions on Deer in General and the Size and Health of the Deer Herd ................................</td>
</tr>
<tr>
<td>Opinions on Management Efforts and Management Goals ..................................</td>
</tr>
<tr>
<td>Opinions on Methods for Managing Deer, Including Hunting ..................................</td>
</tr>
<tr>
<td>Concerns About Deer and Deer Nuisance Problems ........................................</td>
</tr>
<tr>
<td>Feeding Wildlife and Hunting Deer ....................................................................</td>
</tr>
<tr>
<td>Sources of Information .................................................................................</td>
</tr>
<tr>
<td>Results for WMU 5C .................................................................</td>
</tr>
<tr>
<td>Participation in Viewing Deer ..........................................................</td>
</tr>
<tr>
<td>Opinions on Deer in General and the Size and Health of the Deer Herd ................................</td>
</tr>
<tr>
<td>Opinions on Management Efforts and Management Goals ..................................</td>
</tr>
<tr>
<td>Opinions on Methods for Managing Deer, Including Hunting ..................................</td>
</tr>
<tr>
<td>Concerns About Deer and Deer Nuisance Problems ........................................</td>
</tr>
<tr>
<td>Feeding Wildlife and Hunting Deer ....................................................................</td>
</tr>
<tr>
<td>Sources of Information .................................................................................</td>
</tr>
<tr>
<td>Results for WMU 5D .................................................................</td>
</tr>
<tr>
<td>Participation in Viewing Deer ..........................................................</td>
</tr>
<tr>
<td>Opinions on Deer in General and the Size and Health of the Deer Herd ................................</td>
</tr>
<tr>
<td>Opinions on Management Efforts and Management Goals ..................................</td>
</tr>
<tr>
<td>Opinions on Methods for Managing Deer, Including Hunting ..................................</td>
</tr>
<tr>
<td>Concerns About Deer and Deer Nuisance Problems ........................................</td>
</tr>
<tr>
<td>Feeding Wildlife and Hunting Deer ....................................................................</td>
</tr>
<tr>
<td>Sources of Information .................................................................................</td>
</tr>
<tr>
<td>About Responsive Management .............................................................</td>
</tr>
</tbody>
</table>
INTRODUCTION AND METHODOLOGY

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USE OF TELEPHONES FOR THE SURVEY

For the survey, telephones were selected as the preferred sampling medium because of the almost universal ownership of telephones among Pennsylvania residents (both landlines and cell phones were called). Additionally, telephone surveys, relative to mail or Internet surveys, allow for more scientific sampling and data collection, provide higher quality data, obtain higher response rates, are more timely, and are more cost-effective. Telephone surveys also have fewer negative effects on the environment than do mail surveys because of reduced use of paper and reduced energy consumption for delivering and returning the questionnaires.

QUESTIONNAIRE DESIGN

The telephone survey questionnaire was developed cooperatively by Responsive Management and the PGC, based on the research team’s familiarity with deer management issues, as well as natural resources and outdoor recreation in general. Responsive Management conducted pre-tests of the questionnaire to ensure proper wording, flow, and logic in the survey.

SURVEY SAMPLE

The sample of Pennsylvania residents was obtained from SSI and Database 101, firms that specialize in providing scientific survey samples. A sample of at least 400 completed interviews was obtained for each of the 22 Wildlife Management Units (WMUs) in Pennsylvania so that results would be statistically valid within each WMU (see WMU map that follows). Although the lowest geographical unit for analysis was the WMU, the sampling within the WMUs was obtained on a census block level so that the sample of each WMU would exactly match that
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TELEPHONE INTERVIEWING FACILITIES

A central polling site at the Responsive Management office allowed for rigorous quality control over the interviews and data collection. Responsive Management maintains its own in-house telephone interviewing facilities. These facilities are staffed by interviewers with experience conducting computer-assisted telephone interviews on the subjects of outdoor recreation and natural resources.

To ensure the integrity of the telephone survey data, Responsive Management has interviewers who have been trained according to the standards established by the Council of American Survey Research Organizations. Methods of instruction included lecture and role-playing. The Survey Center Managers and other professional staff conducted a project briefing with the interviewers prior to the administration of this survey. Interviewers were instructed on type of study, study goals and objectives, handling of survey questions, interview length, termination points and qualifiers for participation, interviewer instructions within the survey questionnaire, reading of the survey questions, skip patterns, and probing and clarifying techniques necessary for specific questions on the survey questionnaire.

INTERVIEWING DATES AND TIMES

Telephone surveying times are Monday through Friday from 9:00 a.m. to 9:00 p.m., Saturday from noon to 5:00 p.m., and Sunday from 5:00 p.m. to 9:00 p.m., local time. A five-callback design was used to maintain the representativeness of the sample, to avoid bias toward people easy to reach by telephone, and to provide an equal opportunity for all to participate. When a respondent could not be reached on the first call, subsequent calls were placed on different days of the week and at different times of the day. The survey was conducted in November and December 2011.

TELEPHONE SURVEY DATA COLLECTION AND QUALITY CONTROL

The software used for data collection was Questionnaire Programming Language (QPL). The survey data were entered into the computer as each interview was being conducted, eliminating manual data entry after the completion of the survey and the concomitant data entry errors that may occur with manual data entry. The survey questionnaire was programmed so that QPL
branched, coded, and substituted phrases in the survey based on previous responses to ensure the integrity and consistency of the data collection.

The Survey Center Managers and statisticians monitored the data collection, including monitoring of the actual telephone interviews without the interviewers’ knowledge, to evaluate the performance of each interviewer and ensure the integrity of the data. The survey questionnaire itself contains error checkers and computation statements to ensure quality and consistent data. After the surveys were obtained by the interviewers, the Survey Center Managers and/or statisticians checked each completed survey to ensure clarity and completeness. Responsive Management obtained a total of 9,212 completed interviews among the 22 WMUs; a tabulation that follows shows the number of completed interviews in each WMU. This tabulation also shows the WMU weighting factors for statewide data, which are discussed in the next section.

### Completed Interviews and Weighting Factors for Each WMU

<table>
<thead>
<tr>
<th>WMU</th>
<th>Number of Completed Interviews</th>
<th>Weighting</th>
<th>Weighted % of Sample</th>
<th>WMU</th>
<th>Number of Completed Interviews</th>
<th>Weighting</th>
<th>Weighted % of Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>430</td>
<td>662.86</td>
<td>2.8</td>
<td>3C</td>
<td>434</td>
<td>352.23</td>
<td>1.5</td>
</tr>
<tr>
<td>1B</td>
<td>411</td>
<td>730.28</td>
<td>3.0</td>
<td>3D</td>
<td>415</td>
<td>674.95</td>
<td>2.8</td>
</tr>
<tr>
<td>2A</td>
<td>415</td>
<td>541.75</td>
<td>2.2</td>
<td>4A</td>
<td>424</td>
<td>186.66</td>
<td>0.8</td>
</tr>
<tr>
<td>2B</td>
<td>429</td>
<td>3067.24</td>
<td>13.0</td>
<td>4B</td>
<td>413</td>
<td>288.12</td>
<td>1.2</td>
</tr>
<tr>
<td>2C</td>
<td>411</td>
<td>868.57</td>
<td>3.5</td>
<td>4C</td>
<td>416</td>
<td>665.15</td>
<td>2.7</td>
</tr>
<tr>
<td>2D</td>
<td>405</td>
<td>598.59</td>
<td>2.4</td>
<td>4D</td>
<td>414</td>
<td>777.14</td>
<td>3.2</td>
</tr>
<tr>
<td>2E</td>
<td>406</td>
<td>237.06</td>
<td>1.0</td>
<td>4E</td>
<td>422</td>
<td>544.88</td>
<td>2.3</td>
</tr>
<tr>
<td>2F</td>
<td>405</td>
<td>221.65</td>
<td>0.9</td>
<td>5A</td>
<td>407</td>
<td>762.24</td>
<td>3.1</td>
</tr>
<tr>
<td>2G</td>
<td>428</td>
<td>248.97</td>
<td>1.1</td>
<td>5B</td>
<td>429</td>
<td>2572.85</td>
<td>10.9</td>
</tr>
<tr>
<td>3A</td>
<td>416</td>
<td>119.96</td>
<td>0.5</td>
<td>5C</td>
<td>435</td>
<td>3342.43</td>
<td>14.4</td>
</tr>
<tr>
<td>3B</td>
<td>407</td>
<td>835.39</td>
<td>3.4</td>
<td>5D</td>
<td>440</td>
<td>5353.40</td>
<td>23.3</td>
</tr>
</tbody>
</table>

Total Number of Completed Interviews = 9,212
Weighting Produces a Total of 10,090,675 to Match State Population (18 Years and Older)

## DATA ANALYSIS

The analysis of data was performed using Statistical Package for the Social Sciences as well as proprietary software developed by Responsive Management. The results were weighted by demographic characteristics within each WMU so that the sample was representative of residents of that WMU as a whole, based on 12 categories of age/gender. In addition, the WMUs were
weighted when statewide data were shown so that each WMU properly represented its share of the state’s total population of residents 18 years old and older. The WMU weighting factor and the weighted percentage that each WMU made up of the total statewide sample is shown in the above tabulation for each WMU. A tabulation showing all WMU results together is presented after each graph in the statewide section of this report. Following the statewide section of the report, each WMU is presented in its own section.

On questions that asked respondents to provide a number (e.g., number of years), the graphs may show ranges of numbers rather than the precise numbers. Nonetheless, in the survey each respondent provided a precise number, and the dataset includes this precise number, even if the graphs only show ranges of numbers. Note that the calculation of means and medians used the precise numbers that the respondents provided.

**NONPARAMETRIC ANALYSIS**

For this report, a nonparametric analysis conducted on the statewide data as a whole examined how the various responses related to behavioral, participatory, and demographic characteristics. Responses for selected questions were tested by means of z-scores for relationships to various characteristics (i.e., the characteristics as revealed by responses to other questions, including a series of demographic questions). A positive z-score means that the response and characteristic are positively related; a negative z-score means that the response and characteristic are negatively related.

The z-score shows the strength of the relationship between the characteristic and the response to the question. Those z-scores that have an absolute value of 3.30 or greater indicate a relationship that is so strong that it would happen by chance only 1 out of 1,000 times \( (p \leq 0.001) \). Those z-scores that have an absolute value of 2.58 to 3.29 indicate a relationship that is so strong that it would happen by chance only 1 out of 100 times \( (p \leq 0.01) \). Finally, those z-scores that have an absolute value of 1.96 to 2.57 indicate a relationship that is so strong that it would happen by chance only 5 out of 100 times \( (p \leq 0.05) \).
The z-scores were calculated as shown in the formula below.

\[ z = \frac{(p_1 - p_2)}{\sqrt{p(1-p)\left[\frac{1}{n_1} + \frac{1}{n_2}\right]}} \]

where:

- \( n_1 \) represents the number of observations in Group 1.
- \( n_2 \) represents the number of observations in Group 2.
- \( p_1 = \frac{a}{a+b} = \frac{a}{n_1} \) and represents the proportion of observations in Group 1 that falls in Cell \( a \).
  It is employed to estimate the population proportion \( \Pi_1 \) (% of Group 1 who had specific characteristic).
- \( p_2 = \frac{c}{c+d} = \frac{c}{n_2} \) and represents the proportion of observations in Group 2 that falls in Cell \( c \).
  It is employed to estimate the population proportion \( \Pi_2 \) (% of Group 2 who had specific characteristic).
- \( p = \frac{a+c}{n_1 + n_2} = \frac{a+c}{n} \) and is a pooled estimate of the proportion of respondents who had specific characteristic in the underlying population.


The variables that were examined in the nonparametric analysis, also referred to as the z-score analysis, are categorized into eight broad themes, as shown in the tabulation below. A second tabulation that starts on the following page shows all the variables that were examined in the z-score analysis. Please see the section that follows for information on how to interpret the tabulated results of the nonparametric analysis.

**Categories of Variables in the Nonparametric Analysis**

| 1. Importance of Deer-Related Issues |
| 2. Presence of Deer on Property |
| 3. Participation in Wildlife-Associated Recreation |
| 4. Opinions on Deer Population and Control Options |
| 5. Opinions on Nuisance and Disease Concerns Regarding Deer |
| 6. Opinions on Deer Herd’s Effects on Ecosystem |
| 7. Information Sources: Social Media |
| 8. Demographic |
## Variables Run in the Nonparametric Analysis

| 1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life |
| 2. Has seen deer frequently on his/her property in the past 12 months |
| 3. Has spent time viewing or watching deer around home in the past 12 months |
| 3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months |
| 3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months |
| 3. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months |
| 3. Is very or somewhat satisfied with opportunities to view or watch deer in Pennsylvania |
| 3. Fed birds or made birdfeed available on his/her property in the past 12 months |
| 3. Fed deer intentionally or put out attractants in the past 12 months |
| 3. Has a valid 2011 Pennsylvania general hunting license |
| 3. Does not indicate having a valid 2011 Pennsylvania general hunting license |
| 3. Considers himself/herself to be a hunter |
| 3. Does not indicate considering himself/herself to be a hunter |
| 3. Indicates that he/she or a family member hunts |
| 3. Does not Indicate that he/she or any of his/her family members hunt |
| 3. Considers the deer population in his/her area to be too high |
| 3. Does not consider the deer population in his/her area to be too high |
| 4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat |
| 4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat |
| 4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations |
| 4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations |
| 4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts |
| 4. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts |
| 4. Strongly or moderately supports lethal methods to manage deer populations in Pennsylvania |
| 4. Does not strongly or moderately support lethal methods to manage deer populations in Pennsylvania |
| 4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in Pennsylvania |
| 4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in Pennsylvania |
| 4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in Pennsylvania |
| 4. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in Pennsylvania |
| 4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in Pennsylvania |
| 4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in Pennsylvania |
| 4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in Pennsylvania |
| 4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in Pennsylvania |
### Variables Run in the Nonparametric Analysis (continued)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td>Rates concern about tick-borne diseases in Pennsylvania as a 9 or a 10</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about tick-borne diseases in Pennsylvania as a 9 or a 10</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer droppings in their yard as a 9 or a 10</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer droppings in their yard as a 9 or a 10</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer-vehicle accidents in Pennsylvania as a 9 or 10</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer-vehicle accidents in Pennsylvania as a 9 or 10</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months</td>
</tr>
<tr>
<td>5.</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in Pennsylvania</td>
</tr>
<tr>
<td>5.</td>
<td>Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in Pennsylvania</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about deer impacts on the habitat and other wildlife in Pennsylvania as a 9 or 10</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in Pennsylvania as a 9 or 10</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about the quality of deer habitat in Pennsylvania as a 9 or 10</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about the quality of deer habitat in Pennsylvania as a 9 or 10</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about the health of the deer population in Pennsylvania as a 9 or 10</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about the health of the deer population in Pennsylvania as a 9 or 10</td>
</tr>
<tr>
<td>7.</td>
<td>Uses social media, such as Facebook, Twitter, or YouTube</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using Facebook (including not using any social media)</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is a single-family home</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home</td>
</tr>
<tr>
<td>8.</td>
<td>Has lived at his/her primary place of residence for more than the median number of years</td>
</tr>
<tr>
<td>8.</td>
<td>Has lived at his/her primary place of residence for the median number of years or less</td>
</tr>
<tr>
<td>8.</td>
<td>Considers place of residence to be an urban or suburban area</td>
</tr>
<tr>
<td>8.</td>
<td>Does not consider place of residence to be an urban or suburban area</td>
</tr>
<tr>
<td>8.</td>
<td>Has more than median number of people living in his/her household</td>
</tr>
<tr>
<td>8.</td>
<td>Has the median number or fewer people living in his/her household</td>
</tr>
<tr>
<td>8.</td>
<td>Is more than median age</td>
</tr>
<tr>
<td>8.</td>
<td>Is the median age or younger</td>
</tr>
<tr>
<td>8.</td>
<td>Is male</td>
</tr>
<tr>
<td>8.</td>
<td>Is female</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 1A</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 1B</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2A</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2B</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2C</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2D</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2E</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2F</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2G</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 3A</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 3B</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 3C</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 3D</td>
</tr>
</tbody>
</table>
Variables Run in the Nonparametric Analysis (continued)

<table>
<thead>
<tr>
<th>8. Lives in WMU 4A</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. Lives in WMU 4B</td>
</tr>
<tr>
<td>8. Lives in WMU 4C</td>
</tr>
<tr>
<td>8. Lives in WMU 4D</td>
</tr>
<tr>
<td>8. Lives in WMU 4E</td>
</tr>
<tr>
<td>8. Lives in WMU 5A</td>
</tr>
<tr>
<td>8. Lives in WMU 5B</td>
</tr>
<tr>
<td>8. Lives in WMU 5C</td>
</tr>
<tr>
<td>8. Lives in WMU 5D</td>
</tr>
</tbody>
</table>

INTERPRETING THE NONPARAMETRIC ANALYSIS RESULTS

The z-score analysis always looks at two groups: those with the characteristic compared to those without the characteristic. As an example, when the analysis is run on gender, it looks at males versus not males (i.e., females). When the analysis is run on a WMU, it looks at, for instance, those who live in WMU 1A versus those who do not live in WMU 1A (i.e., collectively those who live in any other WMU). It then does a like analysis on those who live in WMU 1B versus those who do not live in WMU 1B.

The first row in bold in each z-score tabulation is the characteristic under consideration. In the example that follows, “Being male” is the characteristic under consideration. The rows under the bold row are all the characteristics (i.e., the responses to questions) that are correlated with being male. Therefore, each row under the bold row are responses that males were more likely to give than were females. The following paragraphs more fully explain how to interpret the tabulations.

When examining the correlations that are found in the z-score tabulations, it is important to keep several points in mind. Most importantly, a correlation means simply that a response to a particular question is correlated to giving another response. For instance, based on the z-score tabulation on the following page that is presented as an example, being male is correlated with supporting lethal methods to manage deer populations in Pennsylvania (p ≤ 0.001) (see the italicized row in the example). This simply means that males are more likely to support lethal methods than are females. This does not mean that all males support lethal methods to manage deer, as some do not. Likewise, some females support lethal methods. The finding simply means that males are more likely to support lethal methods than are females.
## 8. Is male

<table>
<thead>
<tr>
<th>Z-SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.11</td>
</tr>
<tr>
<td>49.41</td>
</tr>
<tr>
<td>44.06</td>
</tr>
<tr>
<td>22.43</td>
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<td>7.32</td>
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<td>4.3</td>
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<td>2.46</td>
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<tr>
<td>14.56</td>
</tr>
<tr>
<td>11.07</td>
</tr>
<tr>
<td>4.41</td>
</tr>
<tr>
<td>2.19</td>
</tr>
</tbody>
</table>
Secondly, a finding that a characteristic is correlated to another response does not mean that a *majority* of those with that characteristic give that particular response; it simply means that those with that characteristic are *more likely* to give the particular response than are those without that characteristic (even in a situation where less than a majority of both groups give the particular response). For instance, being male is correlated with having a valid Pennsylvania hunting license (the third row below the bold header row). However, less than a majority of males have a hunting license. Indeed, less than a majority of both males and females have a hunting license. The finding, therefore, simply means that males are *more likely*, compared to females, to have a hunting license; it does not mean that a majority of males have a hunting license. Indeed, it would be incorrect to say, “Most males have a hunting license,” as that is *not* what the z-score tabulation shows.

The z-score tabulations are presented in the report following the graph of each pertinent question in the statewide results. Each tabulation has the variables grouped into the eight overall categories. Within each category, the variables are ranked according to the strength of the correlation.

**SAMPLING ERROR**

Throughout this report, findings of the telephone survey are reported at a 95% confidence interval (or higher). For the entire sample of Pennsylvania residents 18 years old and older, the sampling error is at most plus or minus 1.02 percentage points. This means that if the survey were conducted 100 times on different samples that were selected in the same way, the findings of 95 out of the 100 surveys would fall within plus or minus 1.02 percentage points of each other. Sampling error was calculated using the formula described on the following page, with a sample size of 9,212 and a population size of 10,090,675 residents 18 years old and older.
Sampling Error Equation

\[
B = \left( \frac{N_p(0.25)}{N_s} - 0.25 \right) \left( \frac{N_s}{N_p - 1} \right) (1.96)
\]

Where: 
- \( B \) = maximum sampling error (as decimal)
- \( N_p \) = population size (i.e., total number who could be surveyed)
- \( N_s \) = sample size (i.e., total number of respondents surveyed)


**Note:** This is a simplified version of the formula that calculates the maximum sampling error using a 50:50 split (the most conservative calculation because a 50:50 split would give maximum variation).

**ADDITIONAL INFORMATION ABOUT THE PRESENTATION OF RESULTS IN THE REPORT**

In examining the results, it is important to be aware that the questionnaire included several types of questions:

- Open-ended questions are those in which no answer set is read to the respondents; rather, they can respond with anything that comes to mind from the question.
- Closed-ended questions have an answer set from which to choose.
- Single or multiple response questions: Some questions allow only a single response, while other questions allow respondents to give more than one response or choose all that apply. Those that allow more than a single response are indicated on the graphs with the label, “Multiple Responses Allowed.”
- Scaled questions: Many closed-ended questions (but not all) are in a scale, such as excellent-good-fair-poor.
- Series questions: Many questions are part of a series, and the results are primarily intended to be examined relative to the other questions in that series (although results of the questions individually can also be valuable). Typically, results of questions in a series are shown on a single graph.

Some graphs show an average, either the mean or median (or both). The mean is simply the sum of all numbers divided by the number of respondents. Because outliers (extremely high or low numbers relative to most of the other responses) may skew the mean, the median may be shown. The median is the number at which half the sample is above and the other half is below. In other words, a median of 150 means that half the sample gave an answer of more than 150 and the other half gave an answer of less than 150.
Most graphs show results rounded to the nearest integer; however, all data are stored in decimal format, and all calculations are performed on unrounded numbers. For this reason, some results may not sum to exactly 100% because of this rounding on the graphs. Additionally, rounding may cause apparent discrepancies of 1 percentage point between the graphs and the reported results of combined responses (e.g., when “strongly support” and “moderately support” are summed to determine the total percentage in support).
STATEWIDE RESULTS

PARTICIPATION IN VIEWING DEER

- A majority of Pennsylvania residents (56%) spent time viewing or watching deer around their home in the past 12 months; this graph is accompanied by a map of the results by WMU, as well. Additionally, 22% of Pennsylvania residents took a trip of at least 1 mile to view deer.
  - Of those who took a deer viewing trip, about a third (32%) used a spotlight to view the deer at night.
  - A crosstabulation found that those who consider themselves to be a hunter, compared to those who do not, are more likely to have spent time viewing or watching deer around home in the past 12 months (73% of hunters versus 51% of non-hunters). Likewise, hunters are more likely than non-hunters to have taken a trip to view deer (54% to 11%).

- Satisfaction is high with opportunities to view or watch deer in Pennsylvania: 66% say that they are somewhat or very satisfied, while 10% say that they are very or somewhat dissatisfied; the remainder are neutral. A map is also included showing results regarding dissatisfaction by WMU.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- Yes: 56%
- No: 43%
- Don't know: Less than 1%
3. Has spent time viewing or watching deer around home in the past 12 months

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Considers himself/herself to be a hunter (p < 0.001).
4. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
5. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).
6. Has a valid 2011 PA general hunting license (p < 0.001).
7. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
8. Indicates that he/she or a family member hunts (p < 0.001).

4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p < 0.001).
5. Considers the deer population in his/her area to be too high (p < 0.001).
6. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
7. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.001).
8. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
9. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p < 0.05).
10. Strongly/moderately supports trapping and killing as a method of controlling deer populations in PA (p < 0.05).
11. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p < 0.001).
12. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p < 0.001).
13. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
14. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.001).
15. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).
16. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.01).
17. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.05).
18. Does not consider place of residence to be an urban or suburban area (p < 0.001).
19. Has lived at his/her primary place of residence for more than the median number of years (p < 0.001).
20. Is male (p < 0.001).
21. Lives in WMU 2A (p < 0.001).
22. Lives in WMU 3A (p < 0.001).
23. Lives in WMU 1A (p < 0.001).
24. Lives in WMU 1B (p < 0.01).
25. Lives in WMU 2C (p < 0.05).
26. Lives in WMU 2D (p < 0.001).
27. Lives in WMU 2F (p < 0.001).
28. Lives in WMU 2G (p < 0.001).
29. Lives in WMU 2B (p < 0.05).
30. Lives in WMU 1B (p < 0.01).
31. Lives in WMU 2C (p < 0.05).
32. Lives in WMU 2D (p < 0.001).
33. Lives in WMU 2F (p < 0.001).
34. Lives in WMU 2G (p < 0.001).
35. Lives in WMU 1A (p < 0.001).
36. Lives in WMU 1B (p < 0.01).
37. Lives in WMU 2C (p < 0.05).
38. Lives in WMU 2D (p < 0.001).
39. Lives in WMU 2F (p < 0.001).
40. Lives in WMU 2G (p < 0.001).
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42. Lives in WMU 1B (p < 0.01).
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69. Lives in WMU 2F (p < 0.001).
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72. Lives in WMU 1B (p < 0.01).
73. Lives in WMU 2C (p < 0.05).
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75. Lives in WMU 2F (p < 0.001).
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94. Lives in WMU 2G (p < 0.001).
95. Lives in WMU 1A (p < 0.001).
96. Lives in WMU 1B (p < 0.01).
97. Lives in WMU 2C (p < 0.05).
98. Lives in WMU 2D (p < 0.001).
99. Lives in WMU 2F (p < 0.001).
100. Lives in WMU 2G (p < 0.001).

See page 9 through 11 for explanation of how to interpret z-score tables.
Overall Results

<table>
<thead>
<tr>
<th>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
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</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
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</tr>
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</tr>
<tr>
<td>3. Does not indicate having fed birds/made birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
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<tr>
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</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>5. Rates concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>7. Uses Facebook (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 3B (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5D (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Is female (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Is the median age or younger (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5A (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5B (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 4D (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 3C (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Consider themselves a hunter (n=3285)

Do not consider themselves a hunter (n=5906)
<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Don't know</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>71</td>
<td>29</td>
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</tr>
<tr>
<td>1B</td>
<td>70</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>2A</td>
<td>81</td>
<td>19</td>
<td>0</td>
</tr>
<tr>
<td>2B</td>
<td>68</td>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>2C</td>
<td>68</td>
<td>31</td>
<td>Less than 1%</td>
</tr>
<tr>
<td>2D</td>
<td>72</td>
<td>28</td>
<td>0</td>
</tr>
<tr>
<td>2E</td>
<td>66</td>
<td>34</td>
<td>0</td>
</tr>
<tr>
<td>2F</td>
<td>71</td>
<td>29</td>
<td>0</td>
</tr>
<tr>
<td>2G</td>
<td>74</td>
<td>26</td>
<td>0</td>
</tr>
<tr>
<td>3A</td>
<td>70</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>3B</td>
<td>34</td>
<td>66</td>
<td>0</td>
</tr>
<tr>
<td>3C</td>
<td>57</td>
<td>43</td>
<td>0</td>
</tr>
<tr>
<td>3D</td>
<td>64</td>
<td>36</td>
<td>0</td>
</tr>
<tr>
<td>4A</td>
<td>65</td>
<td>35</td>
<td>0</td>
</tr>
<tr>
<td>4B</td>
<td>66</td>
<td>34</td>
<td>0</td>
</tr>
<tr>
<td>4C</td>
<td>59</td>
<td>41</td>
<td>0</td>
</tr>
<tr>
<td>4D</td>
<td>54</td>
<td>46</td>
<td>0</td>
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<tr>
<td>4E</td>
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<td>38</td>
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</tr>
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<td>5A</td>
<td>50</td>
<td>50</td>
<td>0</td>
</tr>
<tr>
<td>5B</td>
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<td>5C</td>
<td>59</td>
<td>41</td>
<td>0</td>
</tr>
<tr>
<td>5D</td>
<td>40</td>
<td>59</td>
<td>Less than 1%</td>
</tr>
<tr>
<td>Statewide</td>
<td>56</td>
<td>43</td>
<td>Less than 1%</td>
</tr>
</tbody>
</table>
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 22%
No: 78%

Percent (n=9212)
### 3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.001).</td>
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<td>3.</td>
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</tr>
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<td>3.</td>
<td>Fed birds or make bird feed available on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not consider the deer population in his/her area to be too high (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
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</tr>
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</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.01).</td>
</tr>
<tr>
<td>6.</td>
<td>Is male (p ≤ 0.001).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not consider place of residence to be an urban or suburban area (p ≤ 0.001).</td>
</tr>
<tr>
<td>6.</td>
<td>Is the median age or younger (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2G (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 3A (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Has more than median number of people living in his/her household (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 4B (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 4A (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2E (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2F (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
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</tbody>
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See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

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</tr>
<tr>
<td>4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p ≤ 0.01).</td>
</tr>
<tr>
<td>6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Is female (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Is more than median age (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5D (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2B (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Has the median number or fewer people living in his/her household (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5A (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Lives in WMU 3D (p ≤ 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- No: 88%
  - Consider themselves a hunter (n=3285): 46%
  - Do not consider themselves a hunter (n=5906): 54%
### Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

<table>
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<tr>
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<th>Yes</th>
<th>No</th>
<th>Don't know</th>
</tr>
</thead>
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</tr>
<tr>
<td>1B</td>
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<td>73</td>
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<tr>
<td>2C</td>
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<td>68</td>
<td>0</td>
</tr>
<tr>
<td>2D</td>
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<tr>
<td>2E</td>
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<td>2G</td>
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</tr>
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<td>57</td>
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</tr>
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<td>3B</td>
<td>23</td>
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<td>0</td>
</tr>
<tr>
<td>3C</td>
<td>20</td>
<td>79</td>
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<td>74</td>
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<td>5B</td>
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<td>5D</td>
<td>11</td>
<td>89</td>
<td>0</td>
</tr>
<tr>
<td><strong>Statewide</strong></td>
<td><strong>22</strong></td>
<td><strong>78</strong></td>
<td><strong>Less than 1%</strong></td>
</tr>
</tbody>
</table>
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent (%)</td>
<td>32</td>
<td>68</td>
</tr>
</tbody>
</table>
3. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).
3. Has spent time viewing or watching deer around home in the past 12 months (p < 0.001).
3. Indicates that he/she or a family member hunts (p < 0.001).
3. Considers himself/herself to be a hunter (p < 0.001).
3. Has a valid 2011 PA general hunting license (p < 0.001).
4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p < 0.001).
4. Does not consider the deer population in his/her area to be too high (p < 0.001).
4. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.001).
4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p < 0.05).
5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p < 0.001).
7. Uses Facebook (p < 0.001).
7. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.001).
8. Is the median age or younger (p < 0.001).
8. Has more than median number of people living in his/her household (p < 0.001).
8. Lives in WMU 1B (p < 0.001).
8. Does not consider place of residence to be an urban or suburban area (p < 0.001).
8. Has lived at his/her primary place of residence for the median number of years or less (p < 0.001).
8. Primary place of residence is not a single-family home (p < 0.001).
8. Lives in WMU 2G (p < 0.01).
8. Lives in WMU 1A (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months</strong></td>
<td></td>
</tr>
<tr>
<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Does not Indicate that he/she or any of his/her family members hunt (p ≤ 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Considers the deer population in his/her area to be too high (p ≤ 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p ≤ 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.05).</td>
<td></td>
</tr>
<tr>
<td>5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>7. Does not indicate using Facebook (including not using any social media) (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Is more than median age (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Has the median number or fewer people living in his/her household (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 3D (p ≤ 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 5A (p ≤ 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 5D (p &lt; 0.01).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 3B (p &lt; 0.01).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 2B (p &lt; 0.01).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 3C (p &lt; 0.01).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 4D (p &lt; 0.05).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 5C (p &lt; 0.05).</td>
<td></td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>47</td>
<td>53</td>
</tr>
<tr>
<td>1B</td>
<td>65</td>
<td>35</td>
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<tr>
<td>2A</td>
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</tr>
<tr>
<td>2B</td>
<td>22</td>
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<tr>
<td>2C</td>
<td>40</td>
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<td>2D</td>
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<td>2E</td>
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<td>56</td>
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<td>2F</td>
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<td>2G</td>
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<tr>
<td>3A</td>
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</tr>
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<td>3B</td>
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<td>75</td>
</tr>
<tr>
<td>5D</td>
<td>16</td>
<td>84</td>
</tr>
<tr>
<td>Statewide</td>
<td>32</td>
<td>68</td>
</tr>
</tbody>
</table>
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 41%
- Somewhat satisfied: 25%
- Neither satisfied nor dissatisfied: 20%
- Somewhat dissatisfied: 5%
- Very dissatisfied: 5%
- Don't know: 3%

(Percent n=9212)
Overall Results

3. Is very or somewhat satisfied with opportunities to view or watch deer in PA

<table>
<thead>
<tr>
<th>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Fed birds or make birdfeed available on his/her property in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Indicates that he/she or a family member hunts (p &lt; 0.01).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.01).</td>
</tr>
<tr>
<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>7. Uses Facebook (p &lt; 0.001).</td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Primary place of residence is not a single-family home (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Is female (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2A (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2D (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 4E (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 1A (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Lives in WMU 2C (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Lives in WMU 2E (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
3. **Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA**

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001).
2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p ≤ 0.001).
3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).
4. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p ≤ 0.001).
5. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p ≤ 0.001).
6. Does not indicate that he/she or any of his/her family members hunt (p ≤ 0.01).
7. Has a valid 2011 PA general hunting license (p ≤ 0.01).
8. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.05).

4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p ≤ 0.001).
5. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ≤ 0.001).
4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.001).
4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p ≤ 0.001).
4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p ≤ 0.001).
4. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001).
4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001).
4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.001).
5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.001).
6. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.05).
7. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.05).
7. Does not indicate using Facebook (including not using any social media) (p ≤ 0.001).
7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.001).
8. Lives in WMU 3A (p ≤ 0.001).
8. Primary place of residence is a single-family home (p ≤ 0.001).
8. Considers place of residence to be an urban or suburban area (p ≤ 0.001).
8. Lives in WMU 5D (p ≤ 0.001).
8. Is male (p ≤ 0.001).
8. Lives in WMU 3B (p ≤ 0.001).
8. Lives in WMU 2G (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

<table>
<thead>
<tr>
<th></th>
<th>Very satisfied</th>
<th>Somewhat satisfied</th>
<th>Neither satisfied nor dissatisfied</th>
<th>Somewhat dissatisfied</th>
<th>Very dissatisfied</th>
<th>Don't know</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4</td>
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<td>2B</td>
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<td>26</td>
<td>17</td>
<td>3</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>2C</td>
<td>50</td>
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Pennsylvania Wildlife Management Units

Dissatisfaction With Opportunities to View Deer

Percent Who Responded With "Somewhat Dissatisfied" or "Very Dissatisfied" Regarding Satisfaction With Deer Viewing Opportunities in Pennsylvania:

- Less than 10%
- 10% to 14%
- 15% or more
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- In general, Pennsylvania residents’ feelings about deer are positive: 49% say (without any caveats) that they like having deer around, and another 28% say that they like having deer around even though they worry about problems that the deer may cause. Only 6% say that they generally regard deer as a nuisance. The remainder are neutral. A map shows results by WMU for the response, “I like having deer around.”
  - Hunters, compared to non-hunters, have much more positive attitudes regarding deer: 73% of hunters like having deer around (with no caveats), compared to 41% of non-hunters.

- In general, deer-related issues are not within the top half of the rating scale among Pennsylvania residents. On a scale of 0 to 10, with 0 being not at all important and 10 being extremely important, the mean rating among Pennsylvania residents is 4.09, and the median rating is “4.” Note that one-fifth of Pennsylvania residents give a rating of “0” (20%), more than twice the percentage who give a rating of “10” (8%).
  - Hunters consider deer more important in their lives than do non-hunters, as shown in the graph of the crosstabulation.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The first question asked about respondents’ concerns about the quality of deer habitat in Pennsylvania, and the mean rating (5.85) and median rating (6) are above the midpoint. The second question asked about respondents’ concerns about the health of the deer population, with even greater concern than the previous question: the mean rating (6.23) and the median rating (7) are both well above the midpoint.
A majority of Pennsylvania residents (54%) say the deer population in their area is just right. Otherwise, they are fairly evenly split, with 20% saying the deer population is too high, and 18% saying it is too low. Two maps are included showing results by WMU for the responses “too high” and “too low.”

- Statewide, those Pennsylvania residents who own their home are slightly more likely to say that the deer population is too high, relative to those who do not own their home.
- Those Pennsylvania residents who consider themselves a hunter are far more likely to say that the deer population in their area is too low, compared to those who do not consider themselves to be a hunter.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 49%
- I like having deer around but worry about problems they cause: 28%
- I generally regard deer as a nuisance: 6%
- I have no particular feeling about deer: 16%
- Don't know: 1%

Percent (n=9212)
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 73% (Consider themselves a hunter, n=3285)
- I like having deer around but worry about problems they cause: 33% (Consider themselves a hunter, n=3285)
- I generally regard deer as a nuisance: 16% (Consider themselves a hunter, n=3285)
- I have no particular feeling about deer: 7% (Consider themselves a hunter, n=3285)
- Don't know: 1% (Consider themselves a hunter, n=3285)

- I like having deer around: 41% (Do not consider themselves a hunter, n=5906)
- I have no particular feeling about deer: 19% (Do not consider themselves a hunter, n=5906)
- Don't know: 1% (Do not consider themselves a hunter, n=5906)
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

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Pennsylvania Wildlife Management Units

Percent Who Chose Response: I like having deer around

Percent Who indicated "I like deer around" in the Question That Presented Three Tolerance Levels:

- Less than 65%
- 55% to 65%
- More than 65%
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Percent (n=9212)

Mean = 4.09
Median = 4
1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Considers himself/herself to be a hunter (p < 0.001).
4. Has a valid 2011 PA general hunting license (p < 0.001).
3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
3. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).
3. Has spent time viewing or watching deer around home in the past 12 months (p < 0.001).
3. Fed birds or make birdfeed available on his/her property in the past 12 months (p < 0.001).
3. Indicates that he/she or a family member hunts (p < 0.001).
3. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
3. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p < 0.001).
3. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
3. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
3. Does not consider the deer population in his/her area to be too high (p < 0.001).
3. Does not strongly or moderately support lethal methods to manage deer populations in PA (p < 0.001).
3. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
3. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.01).
3. Does not strongly or moderately support social media, such as Facebook, Twitter, or YouTube (p < 0.001).
3. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).
3. Does not strongly or moderately support management for deer-human conflicts (p < 0.01).
3. Does not strongly or moderately support management for healthy and sustainable deer populations (p < 0.001).
3. Does not indicate using Facebook (including not using any social media) (p < 0.001).
3. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001).
6. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p < 0.001).
6. Rates concern about the health of the deer population in PA as a 9 or 10 (p < 0.001).
6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
5. Rates concern about deer droppings in their yard as a 9 or a 10 (p < 0.05).
5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.05).
5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p < 0.05).
5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p < 0.01).
5. Does not indicate using Facebook (including not using any social media) (p < 0.001).
5. Does not indicate using Facebook (including not using any social media) (p < 0.001).
8. Is more than median age (p < 0.001).
8. Is male (p < 0.001).
8. Has lived at his/her primary place of residence for more than the median number of years (p < 0.001).
8. Does not consider place of residence to be an urban or suburban area (p < 0.001).
8. Lives in WMU 3A (p < 0.001).
8. Lives in WMU 4A (p < 0.001).
8. Lives in WMU 2E (p < 0.01).
8. Lives in WMU 2A (p < 0.05).
8. Primary place of residence is not a single-family home (p < 0.01).
8. Lives in WMU 2E (p < 0.01).
8. Has the median number or fewer people living in his/her household (p < 0.01).
8. Lives in WMU 2A (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life
2. Does not indicate having seen deer frequently on his/her property in the past 12 months ($p \leq 0.001$).
3. Does not indicate having a valid 2011 PA general hunting license ($p \leq 0.001$).
4. Does not indicate having spent time viewing or watching deer around home in the past 12 months ($p \leq 0.001$).
5. Does not Indicate that he/she or any of his/her family members hunt ($p \leq 0.001$).
6. Is very or somewhat satisfied with opportunities to view or watch deer in PA ($p \leq 0.001$).
7. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months ($p \leq 0.001$).
8. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months ($p \leq 0.001$).
9. Does not indicate considering himself/herself to be a hunter ($p \leq 0.001$).
10. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months ($p \leq 0.001$).
11. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat ($p \leq 0.001$).
12. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA ($p \leq 0.001$).
13. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA ($p \leq 0.001$).
14. Considers the deer population in his/her area to be too high ($p \leq 0.001$).
15. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts ($p \leq 0.001$).
16. Strongly or moderately supports lethal methods to manage deer populations in PA ($p \leq 0.001$).
17. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations ($p \leq 0.001$).
18. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA ($p \leq 0.01$).
19. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 ($p \leq 0.001$).
20. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA ($p \leq 0.001$).
21. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months ($p \leq 0.01$).
22. Does not rate concern about deer droppings in their yard as a 9 or a 10 ($p \leq 0.05$).
23. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 ($p \leq 0.05$).
24. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months ($p \leq 0.05$).
25. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 ($p \leq 0.001$).
26. Does not rate concern about the health of the deer population in PA as a 9 or 10 ($p \leq 0.001$).
27. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ($p \leq 0.001$).
28. Uses social media, such as Facebook, Twitter, or YouTube ($p \leq 0.001$).
29. Uses Facebook ($p \leq 0.001$).
30. Is the median age or younger ($p \leq 0.001$).
31. Is female ($p \leq 0.001$).
32. Considers place of residence to be an urban or suburban area ($p \leq 0.001$).
33. Has lived at his/her primary place of residence for the median number of years or less ($p \leq 0.001$).
34. Primary place of residence is a single-family home ($p \leq 0.001$).
35. Lives in WMU 5D ($p \leq 0.001$).
36. Lives in WMU 5B ($p \leq 0.01$).
37. Lives in WMU 3C ($p \leq 0.01$).
38. Lives in WMU 3B ($p \leq 0.05$).
39. Lives in WMU 5C ($p \leq 0.05$).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?
### Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

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Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.85
Median = 6
### 6. Rates concern about the quality of deer habitat in PA as a 9 or 10

| 1. | Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life \( (p < 0.001) \). |
| 2. | Has taken trip more than a mile from home for primary purpose of viewing deer in past 12 months \( (p < 0.001) \). |
| 3. | Considers himself/herself to be a hunter \( (p < 0.001) \). |
| 3. | Has a valid 2011 PA general hunting license \( (p < 0.001) \). |
| 3. | Fed birds or make birdfeed available on his/her property in past 12 months \( (p < 0.001) \). |
| 3. | Fed deer intentionally or put out attractants in the past 12 months \( (p < 0.001) \). |
| 3. | Has spent time viewing or watching deer around home in the past 12 months \( (p < 0.001) \). |
| 3. | Indicates that he/she or a family member hunts \( (p < 0.05) \). |
| 4. | Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA \( (p < 0.05) \). |
| 5. | Rates concern about tick-borne diseases in PA as a 9 or 10 \( (p < 0.001) \). |
| 5. | Rates concern about deer-vehicle accidents in PA as a 9 or 10 \( (p < 0.001) \). |
| 5. | Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 \( (p < 0.001) \). |
| 6. | Rates concern about the health of the deer population in PA as a 9 or 10 \( (p < 0.001) \). |
| 6. | Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 \( (p < 0.001) \). |
| 7. | Does not indicate using social media, such as Facebook, Twitter, or YouTube \( (p < 0.01) \). |
| 7. | Does not indicate using Facebook \( (p < 0.05) \). |
| 7. | Does not indicate using social media, such as Facebook \( (p < 0.01) \). |
| 7. | Does not indicate using Facebook \( (p < 0.05) \). |
| 7. | Does not indicate using Facebook \( (p < 0.01) \). |
| 7. | Does not indicate using Facebook \( (p < 0.05) \). |
| 8. | Is more than median age \( (p < 0.001) \). |
| 8. | Has lived at his/her primary place of residence for more than the median number of years \( (p < 0.001) \). |
| 8. | Lives in WMU 3D \( (p < 0.001) \). |
| 8. | Does not consider place of residence to be an urban or suburban area \( (p < 0.01) \). |
| 8. | Lives in WMU 3A \( (p < 0.05) \). |

### 6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10

| 1. | Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life \( (p < 0.001) \). |
| 2. | Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months \( (p < 0.001) \). |
| 3. | Does not indicate considering himself/herself to be a hunter \( (p < 0.001) \). |
| 3. | Does not indicate having a valid 2011 PA general hunting license \( (p < 0.001) \). |
| 3. | Does not indicate having fed birds/made birdfeed available on his/her property in past 12 months \( (p < 0.001) \). |
| 3. | Does not indicate having fed deer intentionally or having put out attractants in the past 12 months \( (p < 0.001) \). |
| 3. | Does not indicate having spent time viewing or watching deer around home in the past 12 months \( (p < 0.001) \). |
| 3. | Does not Indicate that he/she or any of his/her family members hunt \( (p < 0.05) \). |
| 4. | Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA \( (p < 0.05) \). |
| 5. | Does not rate concern about tick-borne diseases in PA as a 9 or 10 \( (p < 0.001) \). |
| 5. | Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 \( (p < 0.001) \). |
| 5. | Does not rate concern about deer droppings in their yard as a 9 or 10 \( (p < 0.001) \). |
| 5. | Does not rate concern about the health of the deer population in PA as a 9 or 10 \( (p < 0.001) \). |
| 6. | Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 \( (p < 0.001) \). |
| 7. | Uses social media, such as Facebook, Twitter, or YouTube \( (p < 0.01) \). |
| 7. | Uses Facebook \( (p < 0.05) \). |
| 7. | Uses Facebook \( (p < 0.05) \). |
| 8. | Is the median age or younger \( (p < 0.001) \). |
| 8. | Has lived at his/her primary place of residence for the median number of years or less \( (p < 0.001) \). |
| 8. | Is female \( (p < 0.001) \). |
| 8. | Considers place of residence to be an urban or suburban area \( (p < 0.01) \). |
| 8. | Lives in WMU 5C \( (p < 0.01) \). |
| 8. | Lives in WMU 2F \( (p < 0.05) \). |
| 8. | Primary place of residence is a single-family home \( (p < 0.05) \). |

See page 9 through 11 for explanation of how to interpret z-score tables.
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

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Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.23
Median = 7
6. Rates concern about the health of the deer population in PA as a 9 or 10

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p ≤ 0.01).
3. Considers himself/herself to be a hunter (p ≤ 0.001).
4. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).
5. Has a valid 2011 PA general hunting license (p ≤ 0.001).
6. Fed deer intentionally or put out attractants in the past 12 months (p ≤ 0.001).

7. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.001).
8. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).

9. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001).
10. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).
11. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.05).
12. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).

13. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.05).
14. Does not consider place of residence to be an urban or suburban area (p ≤ 0.001).
15. Has lived in WMU 2G (p ≤ 0.001).
16. Lives in WMU 2A (p ≤ 0.01).
17. Lives in WMU 3A (p ≤ 0.001).
18. Lives in WMU 3D (p ≤ 0.01).

19. Primary place of residence is not a single-family home (p ≤ 0.01).
20. Has more than median number of people living in his/her household (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
### 6. Does not rate concern about the health of the deer population in PA as a 9 or 10

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<td>2.</td>
<td>Does not indicate having seen deer frequently on his/her property in the past 12 months ( (p &lt; 0.01) ).</td>
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<td>Does not indicate having spent time viewing or watching deer around home in the past 12 months ( (p &lt; 0.001) ).</td>
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<td>3.</td>
<td>Does not indicate having fed birds or made bird feed available on his/her property in the past 12 months ( (p &lt; 0.01) ).</td>
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<td>Does not indicate that he/she or any of his/her family members hunt ( (p &lt; 0.05) ).</td>
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<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations ( (p &lt; 0.001) ).</td>
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<td>Considers the deer population in his/her area to be too high ( (p &lt; 0.01) ).</td>
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<td>Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA ( (p &lt; 0.05) ).</td>
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<td>Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA ( (p &lt; 0.05) ).</td>
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<td>6.</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ( (p &lt; 0.001) ).</td>
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<td>7.</td>
<td>Uses social media, such as Facebook, Twitter, or YouTube ( (p &lt; 0.05) ).</td>
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<td>Considers place of residence to be an urban or suburban area ( (p &lt; 0.001) ).</td>
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<td>Lives in WMU 5C ( (p &lt; 0.01) ).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2C ( (p &lt; 0.01) ).</td>
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<td>8.</td>
<td>Lives in WMU 2B ( (p &lt; 0.01) ).</td>
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<td>8.</td>
<td>Has the median number or fewer people living in his/her household ( (p &lt; 0.05) ).</td>
</tr>
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<td>8.</td>
<td>Lives in WMU 4D ( (p &lt; 0.05) ).</td>
</tr>
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</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned.)

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Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
### 4. Considers the deer population in his/her area to be too high

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<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate considering himself/herself to be a hunter ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having a valid 2011 PA general hunting license ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having fed deer intentionally or having put out attractants in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate that he/she or any of his/her family members hunt ($p &lt; 0.05$).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports lethal methods to manage deer populations in PA ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA ($p &lt; 0.01$).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations ($p &lt; 0.05$).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer-vehicle accidents in PA as a 9 or 10 ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer droppings in their yard as a 9 or a 10 ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about tick-borne diseases in PA as a 9 or a 10 ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 ($p &lt; 0.01$).</td>
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<tr>
<td>8.</td>
<td>Lives in WMU 2B ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5C ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>8.</td>
<td>Considers place of residence to be an urban or suburban area ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5D ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2A ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>8.</td>
<td>Is more than median age ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>8.</td>
<td>Is female ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2D ($p &lt; 0.001$).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home ($p &lt; 0.001$).</td>
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<tr>
<td>8.</td>
<td>Has lived at his/her primary place of residence for more than the median number of years ($p &lt; 0.001$).</td>
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<tr>
<td>8.</td>
<td>Lives in WMU 1A ($p &lt; 0.05$).</td>
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</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
4. Does not consider the deer population in his/her area to be too high

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<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>2.</td>
<td>Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Fed birds or make birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Indicates that he/she or a family member hunts (p &lt; 0.05).</td>
</tr>
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<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<td>4.</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<td>Does not strongly or moderately support lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
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<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.05).</td>
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<td>5.</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
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<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
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<td>5.</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
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<td>Does not rate concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.001).</td>
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<td>5.</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
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<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p &lt; 0.001).</td>
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<td>5.</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.001).</td>
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<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
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<td>6.</td>
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<td>Rates concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.01).</td>
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See page 9 through 11 for explanation of how to interpret z-score tables.
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

![Bar chart showing the percentage of people who think the deer population is too high, just right, too low, or don't know.](chart)

- Too high: 22% (7617 own home), 16% (589 do not own home)
- Just right: 53% (7617 own home), 56% (589 do not own home)
- Too low: 18% (7617 own home), 18% (589 do not own home)
- Don't know: 7% (7617 own home), 10% (589 do not own home)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 13 (Consider themselves a hunter) vs. 22 (Do not consider themselves a hunter)
- Just right: 46 (Consider themselves a hunter) vs. 57 (Do not consider themselves a hunter)
- Too low: 38 (Consider themselves a hunter) vs. 11 (Do not consider themselves a hunter)
- Don't know: 3 (Consider themselves a hunter) vs. 10 (Do not consider themselves a hunter)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

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<td>31</td>
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<tr>
<td>2F</td>
<td>10</td>
<td>39</td>
<td>42</td>
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<td>2G</td>
<td>3</td>
<td>39</td>
<td>55</td>
<td>3</td>
</tr>
<tr>
<td>3A</td>
<td>3</td>
<td>32</td>
<td>59</td>
<td>6</td>
</tr>
<tr>
<td>3B</td>
<td>7</td>
<td>59</td>
<td>24</td>
<td>10</td>
</tr>
<tr>
<td>3C</td>
<td>10</td>
<td>61</td>
<td>20</td>
<td>9</td>
</tr>
<tr>
<td>3D</td>
<td>13</td>
<td>57</td>
<td>24</td>
<td>6</td>
</tr>
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<td>4A</td>
<td>4</td>
<td>45</td>
<td>42</td>
<td>9</td>
</tr>
<tr>
<td>4B</td>
<td>6</td>
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<td>8</td>
</tr>
<tr>
<td>4C</td>
<td>7</td>
<td>56</td>
<td>26</td>
<td>11</td>
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<tr>
<td>4D</td>
<td>8</td>
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<td>38</td>
<td>8</td>
</tr>
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<td>4E</td>
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<td>5B</td>
<td>13</td>
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<td>8</td>
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<tr>
<td>5C</td>
<td>30</td>
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<td>7</td>
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<td>5D</td>
<td>25</td>
<td>55</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Statewide</td>
<td>20</td>
<td>54</td>
<td>18</td>
<td>8</td>
</tr>
</tbody>
</table>
Pennsylvania Wildlife Management Units

Percent Saying Deer Population in Their Area is Too High

Percent Saying the Deer Herd Is Too High:

- Less than 10%
- 10% to 19%
- 20% or more
Pennsylvania Wildlife Management Units

Percent Saying Deer Population in Their Area Is Too Low

Percent Saying the Deer Herd Is Too Low:

- Less than 20%
- 20% to 29%
- 30% or more
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 91% agree with managing for healthy and sustainable deer populations, 89% agree with managing the deer for a healthy and sustainable forest habitat, and 84% agree with managing for safe, acceptable levels of deer-human conflicts. The ecological goals are both slightly higher than the human-centered goal.

- Pennsylvania residents who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. A relatively large percentage of respondents to this question did not know what a reasonable time would be: 34% indicated “don’t know.” Otherwise, the most common answer is 5 years (21% gave this answer). The mean is 4.77 years, and the median is 4 years.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just over half of Pennsylvania residents (53%) indicated that they would be willing to wait that long. However, 42% indicated an unwillingness to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

<table>
<thead>
<tr>
<th>Agreeance</th>
<th>Healthy and sustainable forest habitat</th>
<th>Healthy and sustainable deer populations</th>
<th>Safe and acceptable levels of deer-human conflicts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>56</td>
<td>59</td>
<td>3</td>
</tr>
<tr>
<td>Moderately agree</td>
<td>33</td>
<td>32</td>
<td>4</td>
</tr>
<tr>
<td>Neither agree nor disagree</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Moderately disagree</td>
<td>3</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>3</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Don't know</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>
### Overall Results

<table>
<thead>
<tr>
<th>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>3. Is very or somewhat satisfied with opportunities to view or watch deer in PA $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>3. Indicates that he/she or a family member hunts $(p \leq 0.01)$.</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license $(p \leq 0.05)$.</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>4. Strongly or moderately supports lethal methods to manage deer populations in PA $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>4. Considers the deer population in his/her area to be too high $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>5. Rates concern about tick-borne diseases in PA as a 9 or a 10 $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>5. Rates concern about deer droppings in their yard as a 9 or a 10 $(p \leq 0.01)$.</td>
</tr>
<tr>
<td>5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 $(p \leq 0.05)$.</td>
</tr>
<tr>
<td>6. Rates concern about the health of the deer population in PA as a 9 or 10 $(p \leq 0.05)$.</td>
</tr>
<tr>
<td>6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 $(p \leq 0.05)$.</td>
</tr>
<tr>
<td>7. Uses Facebook $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>8. Is the median age or younger $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>8. Has more than median number of people living in his/her household $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>8. Primary place of residence is not a single-family home $(p \leq 0.001)$.</td>
</tr>
<tr>
<td>8. Lives in WMU 3B $(p \leq 0.01)$.</td>
</tr>
<tr>
<td>8. Lives in WMU 2A $(p \leq 0.05)$.</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
## 4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat

| 1. | Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001). |
| 3. | Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001). |
| 3. | Fed deer intentionally or put out attractants in the past 12 months (p < 0.001). |
| 3. | Does not Indicate that he/she or any of his/her family members hunt (p < 0.01). |
| 3. | Has a valid 2011 PA general hunting license (p < 0.05). |
| 4. | Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.001). |
| 4. | Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001). |
| 4. | Does not strongly or moderately support lethal methods to manage deer populations in PA (p < 0.001). |
| 4. | Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.001). |
| 4. | Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001). |
| 4. | Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.001). |
| 4. | Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.001). |
| 4. | Does not consider the deer population in his/her area to be too high (p < 0.001). |
| 5. | Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001). |
| 5. | Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001). |
| 5. | Does not rate concern about deer droppings in their yard as a 9 or a 10 (p < 0.01). |
| 5. | Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.05). |
| 6. | Does not rate concern about the health of the deer population in PA as a 9 or 10 (p < 0.05). |
| 6. | Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.05). |
| 7. | Does not indicate using Facebook (including not using any social media) (p < 0.001). |
| 7. | Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001). |
| 8. | Is more than median age (p < 0.001). |
| 8. | Lives in WMU 2G (p ≤ 0.001). |
| 8. | Lives in WMU 4D (p ≤ 0.001). |
| 8. | Has the median number or fewer people living in his/her household (p ≤ 0.001). |
| 8. | Lives in WMU 3A (p ≤ 0.001). |
| 8. | Primary place of residence is a single-family home (p ≤ 0.001). |
| 8. | Lives in WMU 1A (p < 0.05). |

See page 9 through 11 for explanation of how to interpret z-score tables.
Overall Results

4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
3. Indicates that he/she or a family member hunts (p < 0.001).
3. Considers himself/herself to be a hunter (p < 0.001).
3. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
3. Has a valid 2011 PA general hunting license (p < 0.001).
3. Has spent time viewing or watching deer around home in the past 12 months (p < 0.05).
4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p < 0.001).
4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p < 0.001).
4. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.001).
4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p < 0.001).
4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
4. Considers the deer population in his/her area to be too high (p < 0.05).
5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001).
5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.01).
6. Rates concern about the health of the deer population in PA as a 9 or 10 (p < 0.001).
7. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.001).
7. Uses Facebook (p < 0.001).
8. Is the median age or younger (p < 0.001).
8. Is male (p < 0.001).
8. Has more than median number of people living in his/her household (p < 0.001).
8. Primary place of residence is not a single-family home (p < 0.001).
8. Lives in WMU 4E (p < 0.01).
8. Lives in WMU 2F (p < 0.05).
8. Has lived at his/her primary place of residence for the median number of years or less (p < 0.05).
8. Lives in WMU 4A (p < 0.05).
8. Lives in WMU 2A (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>2.</td>
<td>Does not indicate that he/she or any of his/her family members hunt (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate considering himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>8.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
</tr>
<tr>
<td>9.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.001).</td>
</tr>
<tr>
<td>10.</td>
<td>Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>11.</td>
<td>Does not strongly or moderately support lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>12.</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>13.</td>
<td>Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>14.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>15.</td>
<td>Does not consider the deer population in his/her area to be too high (p &lt; 0.05).</td>
</tr>
<tr>
<td>16.</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>17.</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>18.</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>19.</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>20.</td>
<td>Does not indicate using Facebook (including not using any social media) (p &lt; 0.001).</td>
</tr>
<tr>
<td>21.</td>
<td>Is more than median age (p &lt; 0.001).</td>
</tr>
<tr>
<td>22.</td>
<td>Is female (p &lt; 0.001).</td>
</tr>
<tr>
<td>23.</td>
<td>Has the median number or fewer people living in his/her household (p &lt; 0.001).</td>
</tr>
<tr>
<td>24.</td>
<td>Lives in WMU 2C (p &lt; 0.001).</td>
</tr>
<tr>
<td>25.</td>
<td>Lives in WMU 3A (p &lt; 0.01).</td>
</tr>
<tr>
<td>26.</td>
<td>Lives in WMU 2D (p &lt; 0.05).</td>
</tr>
<tr>
<td>27.</td>
<td>Lives in WMU 5D (p &lt; 0.05).</td>
</tr>
<tr>
<td>28.</td>
<td>Primary place of residence is a single-family home (p &lt; 0.05).</td>
</tr>
<tr>
<td>29.</td>
<td>Lives in WMU 1A (p &lt; 0.05).</td>
</tr>
<tr>
<td>30.</td>
<td>Lives in WMU 5D (p &lt; 0.05).</td>
</tr>
<tr>
<td>31.</td>
<td>Has lived at his/her primary place of residence for more than the median number of years (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Overall Results

4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.01).
3. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
4. Does not indicate having a valid 2011 PA general hunting license (p < 0.001).
5. Does not consider himself/herself to be a hunter (p < 0.001).
6. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p < 0.001).
7. Considers the deer population in his/her area to be too high (p < 0.001).
8. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
9. Uses Facebook (p < 0.001).
10. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.01).
11. Primary place of residence is not a single-family home (p < 0.001).
12. Has more than median number of people living in his/her household (p < 0.001).
13. Lives in WMU 5C (p < 0.001).
14. Lives in WMU 2D (p < 0.001).
15. Lives in WMU 5A (p < 0.01).
16. Does not consider place of residence to be an urban or suburban area (p < 0.01).
17. Lives in WMU 2B (p < 0.01).
18. Lives in WMU 4E (p < 0.05).
19. Lives in WMU 5D (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
4. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>2.</td>
<td>Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not rate concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.05).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using Facebook (including not using any social media) (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is a single-family home (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Has the median number or fewer people living in his/her household (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2C (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2G (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 4D (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 3A (p ≤ 0.01).</td>
</tr>
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See page 9 through 11 for explanation of how to interpret z-score tables.
Q24. Deer populations should be managed for healthy and sustainable forest habitat. (Do you agree or disagree with this deer management goal?)

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### Q26. Deer populations should be managed for safe and acceptable levels of deer-human conflicts. (Do you agree or disagree with this deer management goal?)

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Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

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Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

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Percent (n=3811)
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

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<tr>
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OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

Just under two-thirds of Pennsylvania residents (63%) support lethal methods to manage deer populations in Pennsylvania (38% strongly support, and 25% moderately support); nonetheless, 29% oppose (20% strongly oppose, and 9% moderately oppose). Maps show results by WMU for total support and total opposition.

- Those who own their home, compared to those who do not, are more likely to strongly support, but they are less likely to moderately support, meaning that overall support is about the same.

- The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (85% of respondents support this method, while 12% oppose), distantly followed by fertility/birth control (46% support, 45% oppose), professionals or sharpshooters (39% support, 54% oppose), and trapping and killing (24% support, 72% oppose). In each case, the remainder are neutral or do not know.

Pennsylvania residents who live in a single-family home were asked if they personally hunt on their property: 10% indicate that they do. Additionally, 15% allow others to hunt on their property. In total, 17% hunt on their property and/or allow others to do so (it is not simply a sum because some did both).

- There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 4% either hunt on their own property or allow others to hunt on the property.

- Those who live in a single-family home but who do not allow hunting were asked for their reasons for prohibiting hunting. Most commonly, they say it is because their property is too small/too near neighbors (48% of these respondents) and/or that they live in an urban or suburban neighborhood where hunting is not feasible (also 48%). These top two reasons are distantly followed by concerns about safety (10%) and a general opposition to hunting (9%), with small percentages saying that there are not enough deer on their property, that they have liability concerns, that they want to save
the hunting opportunities for themselves or their families, that no one has asked for access, and that they are simply not interested in having people hunt on their property.

- Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (94%), and another 2% say somewhat unlikely. They were then asked if there is anything that would make them more likely to allow deer hunting; an overwhelming majority (97%) say that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, an overwhelming majority say that it is very unlikely that they would ever allow hunting (97%), and another 2% say that it is somewhat unlikely.

  o Follow-up questions were given to those respondents who do not allow hunting on their property but who indicated that there might be something that would encourage them to allow hunting. They were first asked in an open-ended question what would make them more likely to allow deer hunting on their property. The top two responses were if the hunter followed specific instructions and restrictions and if the homeowner had more land or lived in a more rural area. The graph shows the full range of responses given by small percentages.

  o Along with that open-ended follow-up question, a series of questions were also asked of these same respondents wherein four items were read to these respondents to see if any of the four items would make them more likely to allow hunting. The top items are if those who hunted on the property followed specific instructions and restrictions (interestingly, similar to the open-ended responses) and if those who hunted the property had completed an advanced hunter safety course.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 38%
- Moderately support: 25%
- Neither support nor oppose: 7%
- Moderately oppose: 9%
- Strongly oppose: 20%
- Don't know: 2%

(Percent based on n=9212)
### 4. Strongly or moderately supports lethal methods to manage deer populations in PA

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<th></th>
<th>Description</th>
<th>p-value</th>
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<tbody>
<tr>
<td>1.</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Indicates that he/she or a family member hunts</td>
<td>≤0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter</td>
<td>≤0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license</td>
<td>≤0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Is very or somewhat satisfied with opportunities to view or watch deer in PA</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months</td>
<td>&lt;0.001</td>
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<tr>
<td>3.</td>
<td>Considers the deer population in his/her area to be too high</td>
<td>&lt;0.001</td>
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<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations</td>
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<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts</td>
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<td>4.</td>
<td>Considers the deer population in his/her area to be too high</td>
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<td>4.</td>
<td>Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA</td>
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<tr>
<td>4.</td>
<td>Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA</td>
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<td>4.</td>
<td>Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA</td>
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<td>5.</td>
<td>Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months</td>
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<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months</td>
<td>&lt;0.001</td>
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<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months</td>
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<td>5.</td>
<td>Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10</td>
<td>&lt;0.01</td>
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<td>5.</td>
<td>Rates concern about tick-borne diseases in PA as a 9 or a 10</td>
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<td>Rates concern about deer droppings in their yard as a 9 or a 10</td>
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<td>5.</td>
<td>Rates concern about deer-vehicle accidents in PA as a 9 or 10</td>
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<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA</td>
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<td>6.</td>
<td>Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10</td>
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<td>Uses social media, such as Facebook, Twitter, or YouTube</td>
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<td>Has more than median number of people living in his/her household</td>
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<td>Primary place of residence is not a single-family home</td>
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<tr>
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See page 9 through 11 for explanation of how to interpret z-score tables.
4. Does not strongly or moderately support lethal methods to manage deer populations in PA

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Does not indicate that he/she or any of his/her family members hunt (p < 0.001).
4. Does not indicate considering himself/herself to be a hunter (p < 0.001).
5. Does not indicate having a valid 2011 PA general hunting license (p < 0.001).
6. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
7. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
8. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p < 0.001).
9. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).
10. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).
11. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
12. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p < 0.001).
13. Does not consider the deer population in his/her area to be too high (p < 0.001).
14. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.001).
15. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
16. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.001).
17. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p < 0.001).
18. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p < 0.001).
19. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.001).
20. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.01).
21. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.01).
22. Does not rate concern about deer droppings in their yard as a 9 or a 10 (p < 0.05).
23. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.05).
24. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p < 0.05).
25. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.05).
26. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
27. Does not indicate using Facebook (including not using any social media) (p < 0.001).
28. Is female (p < 0.001).
29. Is more than median age (p < 0.001).
30. Has the median number or fewer people living in his/her household (p < 0.001).
31. Has lived at his/her primary place of residence for more than the median number of years (p < 0.001).
32. Primary place of residence is a single-family home (p < 0.001).
33. Lives in WMU 5D (p < 0.05).
34. Lives in WMU 2G (p < 0.01).
35. Lives in WMU 2C (p < 0.01).
36. Lives in WMU 3A (p < 0.05).
37. Lives in WMU 4C (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

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Percent
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

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</tr>
<tr>
<td>5D</td>
<td>31</td>
<td>26</td>
<td>8</td>
<td>11</td>
<td>22</td>
<td>2</td>
</tr>
<tr>
<td>Statewide</td>
<td>38</td>
<td>25</td>
<td>7</td>
<td>9</td>
<td>20</td>
<td>2</td>
</tr>
</tbody>
</table>
Pennsylvania Wildlife Management Units
Opposition to Lethal Methods for Controlling Deer

Percent Who Responded With "Moderately Oppose" or "Strongly Oppose" Regarding Support/Opposition to Lethal Methods for Controlling Deer:

- 20% to 25%
- 26% to 30%
- More than 30%
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 66%
- Q33. Fertility or birth control: 25%
- Q31. Professionals or sharpshooters: 19%
- Q32. Trapping and killing: 11%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 85%
- Q33. Fertility or birth control: 46%
- Q31. Professionals or sharpshooters: 39%
- Q32. Trapping and killing: 24%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 12%
- Q31. Professionals or sharpshooters: 54%
- Q32. Trapping and killing: 72%
- Q33. Fertility or birth control: 45%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 8%
- Q31. Professionals or sharpshooters: 40%
- Q32. Trapping and killing: 57%
- Q33. Fertility or birth control: 33%
### 4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.01).</td>
</tr>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Indicates that he/she or a family member hunts (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
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<td>3.</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Is very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Fed birds or make birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.01).</td>
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<tr>
<td>3.</td>
<td>Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.001).</td>
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<td>Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
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<td>4.</td>
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</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Considers the deer population in his/her area to be too high (p &lt; 0.01).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>5.</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.05).</td>
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<td>6.</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>8.</td>
<td>Is male (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 4A (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2F (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 1A (p &lt; 0.01).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 1B (p &lt; 0.01).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5A (p &lt; 0.05).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2D (p &lt; 0.05).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 4B (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
<table>
<thead>
<tr>
<th>4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA</th>
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<tbody>
<tr>
<td>1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.01).</td>
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<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p ≤ 0.001).</td>
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<td>3. Does not indicate that he/she or any of his/her family members hunt (p ≤ 0.001).</td>
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<td>3. Does not indicate considering himself/herself to be a hunter (p ≤ 0.001).</td>
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<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
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<td>3. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.001).</td>
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<td>3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p ≤ 0.001).</td>
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<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p &lt; 0.01).</td>
</tr>
<tr>
<td>5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>6. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.05).</td>
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<tr>
<td>6. Rates concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Lives in WMU 5D (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Is female (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5C (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 3B (p ≤ 0.01).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

<table>
<thead>
<tr>
<th>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p \leq 0.001).</td>
</tr>
<tr>
<td>3. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p \leq 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p \leq 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p \leq 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p \leq 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter (p \leq 0.01).</td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p \leq 0.01).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p \leq 0.001).</td>
</tr>
<tr>
<td>4. Agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p \leq 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p \leq 0.001).</td>
</tr>
<tr>
<td>5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p \leq 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p \leq 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p \leq 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer droppings in their yard as a 9 or a 10 (p \leq 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p \leq 0.001).</td>
</tr>
<tr>
<td>5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p \leq 0.01).</td>
</tr>
<tr>
<td>6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p \leq 0.001).</td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p \leq 0.001).</td>
</tr>
<tr>
<td>7. Uses Facebook (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Is the median age or younger (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5D (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5C (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Is male (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Has more than median number of people living in his/her household (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2B (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less (p \leq 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2D (p \leq 0.01).</td>
</tr>
<tr>
<td>8. Lives in WMU 4D (p \leq 0.01).</td>
</tr>
<tr>
<td>8. Primary place of residence is not a single-family home (p \leq 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
4. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
4. Has a valid 2011 PA general hunting license (p < 0.001).
5. Has spent time viewing or watching deer around home in the past 12 months (p < 0.01).
6. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
7. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).
8. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.001).

5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p < 0.001).
6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
8. Is female (p < 0.001).
9. Has the median number or fewer people living in his/her household (p < 0.001).
10. Lives in WMU 3A (p < 0.001).
11. Lives in WMU 3B (p < 0.05).
12. Lives in WMU 2G (p < 0.05).
13. Lives in WMU 4B (p < 0.05).
14. Lives in WMU 3C (p < 0.05).
15. Primary place of residence is a single-family home (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Has seen deer frequently on his/her property in the past 12 months (p ≤ 0.01).</td>
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</tr>
<tr>
<td>3. Considers himself/herself to be a hunter (p ≤ 0.001).</td>
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<tr>
<td>3. Has a valid 2011 PA general hunting license (p ≤ 0.001).</td>
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<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).</td>
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<td>3. Indicates that he/she or a family member hunts (p ≤ 0.001).</td>
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<td>3. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001).</td>
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<td>3. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.001).</td>
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<td>3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p ≤ 0.01).</td>
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<td>3. Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.05).</td>
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<tr>
<td>4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.001).</td>
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<tr>
<td>4. Considers the deer population in his/her area to be too high (p ≤ 0.001).</td>
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<td>5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p ≤ 0.001).</td>
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<td>5. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001).</td>
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<td></td>
</tr>
<tr>
<td>5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.001).</td>
<td></td>
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<tr>
<td>5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.01).</td>
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<tr>
<td>8. Lives in WMU 2D (p ≤ 0.001).</td>
<td></td>
<td></td>
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<tr>
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<td></td>
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</tr>
</tbody>
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See page 9 through 11 for explanation of how to interpret z-score tables.
4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA

2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p < 0.01).
3. Does not indicate considering himself/herself to be a hunter (p < 0.001).
3. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.001).
3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).
3. Does not indicate that he/she or any of his/her family members hunt (p ≤ 0.001).
3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001).
3. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.001).
3. Fed birds or make birdfeed available on his/her property in the past 12 months (p < 0.01).
3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p < 0.05).
4. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001).
4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p ≤ 0.001).
4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.001).
4. Does not consider the deer population in his/her area to be too high (p < 0.001).
4. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p < 0.001).
4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).
5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p < 0.001).
5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p < 0.001).
5. Does not rate concern about deer droppings in their yard as a 9 or a 10 (p < 0.001).
5. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.001).
5. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.01).
5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.01).
6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).
7. Does not indicate using Facebook (including not using any social media) (p ≤ 0.001).
7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
8. Is more than median age (p < 0.001).
8. Is female (p ≤ 0.001).
8. Has the median number or fewer people living in his/her household (p < 0.001).
8. Primary place of residence is a single-family home (p < 0.001).
8. Lives in WMU 3B (p ≤ 0.01).
8. Lives in WMU 3C (p ≤ 0.01).
8. Lives in WMU 5A (p ≤ 0.05).
8. Lives in WMU 4C (p ≤ 0.05).
8. Lives in WMU 3D (p ≤ 0.05).
8. Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Does not indicate having a valid 2011 PA general hunting license (p < 0.001).
3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
4. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
5. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).
6. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p < 0.001).
7. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p < 0.001).
8. Does not indicate considering himself/herself to be a hunter (p < 0.001).

4. Considers the deer population in his/her area to be too high (p < 0.001).
4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p < 0.001).
4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p < 0.001).
4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.001).
4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).
5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
5. Rates concern about deer droppings in their yard as a 9 or 10 (p < 0.001).
5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).
5. Rates concern about tick-borne diseases in PA as a 9 or 10 (p < 0.001).
5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p < 0.001).
6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
7. Uses Facebook (p < 0.001).
7. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.001).
8. Is female (p < 0.001).
8. Lives in WMU 5D (p < 0.001).
8. Considers place of residence to be an urban or suburban area (p < 0.001).
8. Lives in WMU 2B (p < 0.001).
8. Lives in WMU 5C (p < 0.001).
8. Is more than median age (p < 0.001).
8. Has the median number or fewer people living in his/her household (p < 0.001).
8. Lives in WMU 5B (p < 0.01).
8. Primary place of residence is a single-family home (p < 0.01).
8. Has lived at his/her primary place of residence for more than the median number of years (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
### 4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Considers himself/herself to be a hunter (p < 0.001).
3. Has a valid 2011 PA general hunting license (p ≤ 0.001).
4. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).
5. Indicates that he/she or a family member hunts (p < 0.001).
6. Has spent time viewing or watching deer around home in the past 12 months (p < 0.001).
7. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).
8. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).
9. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
10. Does not consider the deer population in his/her area to be too high (p < 0.001).
11. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
12. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p < 0.001).
13. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.001).
14. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).
15. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
16. Does not rate concern about deer droppings in their yard as a 9 or 10 (p < 0.001).
17. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).
18. Does not rate concern about tick-borne diseases in PA as a 9 or 10 (p < 0.001).
19. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
20. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p < 0.001).
21. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
22. Does not indicate using Facebook (including not using any social media) (p < 0.001).
23. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
24. Is male (p < 0.001).
25. Does not consider place of residence to be an urban or suburban area (p < 0.001).
26. Lives in WMU 2G (p < 0.001).
27. Lives in WMU 4A (p < 0.001).
28. Lives in WMU 3A (p < 0.001).
29. Lives in WMU 2F (p < 0.001).
30. Has more than median number of people living in his/her household (p < 0.001).
31. Lives in WMU 1B (p ≤ 0.01).
32. Lives in WMU 3C (p < 0.05).
33. Lives in WMU 2E (p < 0.05).
34. Primary place of residence is not a single-family home (p < 0.05).
35. Lives in WMU 4E (p < 0.05).
36. Has lived at his/her primary place of residence for the median number of years or less (p < 0.05).
37. Lives in WMU 4B (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q30. How about legal, regulated hunting? (Do you support or oppose this method of controlling deer populations in Pennsylvania?)

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Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 17
- No: 82
- Don't know: Less than 1%

Percent (n=8206)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=3435)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

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Q60. Do you allow others to hunt deer with permission on your property? (Asked of those whose primary place of residence is a single-family home.)

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Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

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Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 48%
- Live in residential neighborhood / suburban or urban area: 48%
- Concerned about safety: 10%
- Oppose hunting in general: 9%
- Not enough deer on property / not enough habitat: 2%
- Liability: 2%
- Want to save hunting opportunities for self / family: 1%
- No one has asked for hunting access: 1%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%
- Don't know: 1%

Multiple Responses Allowed

Percent (n=6399)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.) (Multiple Responses Allowed)

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Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

![Bar chart showing responses to Q65]

- Very likely: 1
- Somewhat likely: 2
- Neither likely nor unlikely: 0
- Somewhat unlikely: 2
- Very unlikely: 94

Percent (n=6400)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

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Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

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Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

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Q69. What would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property but who say that there is something that would make them more likely to allow deer hunting on their property.)

- If hunter followed specific instructions and restrictions: 45%
- If had more land / lived in a more rural area: 32%
- If regulations were lessened: 8%
- If neighbors would agree / cooperate with us to allow hunting in area / neighborhood: 5%
- If received compensation for allowing others to hunt on land: 3%
- If hunter demonstrated hunting proficiency: 3%
- If hunter completed an advanced hunter safety course: 2%
- If hunter had minimum level of hunting experience: 2%
- Other: 2%
- Don't know: 1%

Percent (n=158)
Q73-Q76. Percent who say the following would make them very likely to allow hunting on their property:

- Q74. Those who hunted on your property completed an advanced hunter safety course: 51%
- Q76. Those who hunted on your property followed your specific instructions and restrictions about how and when hunting is permitted on your property: 48%
- Q73. Those who hunted on your property demonstrated shooting proficiency: 45%
- Q75. Those who hunted on your property had a minimum level of hunting experience: 27%
Q73-Q76. Percent who say the following would make them very or somewhat likely to allow hunting on their property:

- Q76. Those who hunted on your property followed your specific instructions and restrictions about how and when hunting is permitted on your property: 74%
- Q74. Those who hunted on your property completed an advanced hunter safety course: 67%
- Q73. Those who hunted on your property demonstrated shooting proficiency: 64%
- Q75. Those who hunted on your property had a minimum level of hunting experience: 54%
Q73-Q76. Percent who say the following would make them somewhat or very unlikely to allow hunting on their property:

Q73. Those who hunted on your property demonstrated shooting proficiency

Q74. Those who hunted on your property completed an advanced hunter safety course

Q75. Those who hunted on your property had a minimum level of hunting experience

Q76. Those who hunted on your property followed your specific instructions and restrictions about how and when hunting is permitted on your property
Q73-Q76. Percent who say the following would make them very unlikely to allow hunting on their property:

- Q75. Those who hunted on your property had a minimum level of hunting experience
  - Percent: 37

- Q73. Those who hunted on your property demonstrated shooting proficiency
  - Percent: 27

- Q74. Those who hunted on your property completed an advanced hunter safety course
  - Percent: 23

- Q76. Those who hunted on your property followed your specific instructions and restrictions about how and when hunting is permitted on your property
  - Percent: 19
Q73. How about if those who hunted on your property demonstrated shooting proficiency, such as the ability to consistently hit a target from 20 yards? (How likely would you be to allow deer hunting on your property if this requirement was met?) (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

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Q74. How about if those who hunted on your property completed an advanced hunter safety course? (How likely would you be to allow deer hunting on your property if this requirement was met?) (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

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Q75. How about if those who hunted on your property had a minimum level of hunting experience, such as 5 years of hunting experience? (How likely would you be to allow deer hunting on your property if this requirement was met?) (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

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Q76. How about if those who hunted on your property followed your specific instructions and restrictions about how and when hunting is permitted on your property? (How likely would you be to allow deer hunting on your property if this requirement was met?) (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

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CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.4) and deer-vehicle accidents (7.0), followed by two more whose means are just under those top two: the health of the deer population (6.2) and the quality of deer habitat (5.9).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.9) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.5) and deer droppings in the yard (1.7).
  - Another graph shows the percentages giving ratings of “9” or “10.” This gives an idea of the percentage who feel strongly about the issues. The ranking is the same, with tick-borne diseases (46% gave a high rating) and deer-vehicle accidents (45% gave a high rating) at the top.

Just under two-thirds of Pennsylvania residents (61%) have seen deer on their property in the past 12 months, with a quarter of residents (26%) saying that they saw them frequently. A map shows the results by WMU for seeing deer “frequently.”

- Those who fed birds, compared to those who did not, were more likely to see deer (67% of those who fed birds, and 56% of those who did not). Also, those who fed deer or put out attractants, compared to those who did not, were much more likely to see deer (89% compared to 59%). Finally, those who said that they were aware of neighbors feeding deer or putting out attractants, compared to those who were not, were also much more likely to see deer (90% compared to 58%).
The survey asked about specific nuisance problems with deer that Pennsylvania residents may have experienced, and 12% indicated that they experienced problems with deer at their primary place of residence in the past 12 months (a map shows results by WMU for this question). Another question asked about deer-vehicle collisions, and 13% indicated that they or another household member had been in a vehicle collision with a deer (only about 1 in 20 respondents to this question indicated that either the driver or passengers were injured). Finally, 4% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Those who fed birds were about the same as those who did not regarding experiencing deer problems at their residence. However, those who indicated that their neighbors fed deer or put out attractants, compared to those who did not, were about twice as likely to say that they experienced deer problems in the past 12 months.
Q36-Q42. Mean rating of their concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.4
- Q40. Deer-vehicle accidents in Pennsylvania: 7.0
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.2
- Q41. The quality of deer habitat in Pennsylvania: 5.9
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.9
- Q38. Deer damage to plants and landscaping in his/her yard: 2.5
- Q37. Deer droppings in his/her yard: 1.7
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania

Q40. Deer-vehicle accidents in Pennsylvania

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania

Q41. The quality of deer habitat in Pennsylvania

Q38. Deer damage to plants and landscaping in his/her yard

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania

Q37. Deer droppings in his/her yard
5. **Rates concern about tick-borne diseases in PA as a 9 or a 10**

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<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months</td>
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<td>Does not indicate having a valid 2011 PA general hunting license</td>
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<td>Does not indicate considering himself/herself to be a hunter</td>
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<td>3.</td>
<td>Is very or somewhat satisfied with opportunities to view or watch deer in PA</td>
<td>(p ≤ 0.05).</td>
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<td>Considers the deer population in his/her area to be too high</td>
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<td>Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts</td>
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<td>Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA</td>
<td>(p ≤ 0.001).</td>
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<td>Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA</td>
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<td>Strongly or moderately supports lethal methods to manage deer populations in PA</td>
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<td>4.</td>
<td>Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA</td>
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<td>Rates concern about deer droppings in their yard as a 9 or 10</td>
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<td>Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months</td>
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<td>Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA</td>
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<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months</td>
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See page 9 through 11 for explanation of how to interpret z-score tables.
## Overall Results

- **Does not rate concern about tick-borne diseases in PA as a 9 or a 10**
  1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ($p < 0.001$).
  2. Does not indicate having seen deer frequently on his/her property in the past 12 months ($p < 0.001$).
  3. Has a valid 2011 PA general hunting license ($p < 0.001$).
  4. Considers himself/herself to be a hunter ($p < 0.001$).
  5. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts ($p < 0.001$).
  6. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA ($p < 0.001$).
  7. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA ($p < 0.001$).
  8. Does not strongly or moderately support lethal methods to manage deer populations in PA ($p < 0.01$).
  9. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA ($p < 0.01$).

- **Does not rate concern about deer-vehicle accidents in PA as a 9 or 10**
  1. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 ($p < 0.001$).
  2. Does not rate concern about deer droppings in their yard as a 9 or a 10 ($p < 0.001$).
  3. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA ($p < 0.05$).
  4. Does not consider the deer population in his/her area to be too high ($p < 0.001$).
  5. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations ($p < 0.001$).
  6. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat ($p < 0.001$).
  7. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA ($p < 0.01$).

- **Does not rate concern about the health of the deer population in PA as a 9 or 10**
  1. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 ($p < 0.001$).
  2. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ($p < 0.001$).

- **Uses social media, such as Facebook, Twitter, or YouTube ($p < 0.05$).

- **Is the median age or younger ($p < 0.001$).

- **Has lived at his/her primary place of residence for the median number of years or less ($p < 0.001$).

- **Is male ($p < 0.001$).

- **Lives in WMU 3A ($p < 0.001$).

- **Lives in WMU 4D ($p < 0.01$).

- **Primary place of residence is a single-family home ($p < 0.01$).

- **Lives in WMU 1B ($p < 0.05$).

- **Lives in WMU 5B ($p < 0.05$).

See page 9 through 11 for explanation of how to interpret z-score tables.
5. Rates concern about deer droppings in their yard as a 9 or a 10

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.05).
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Does not indicate considering himself/herself to be a hunter (p ≤ 0.001).
4. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
5. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p < 0.001).
6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).

5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).
5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).
5. Rates concern about tick-borne diseases in PA as a 9 or 10 (p ≤ 0.001).
6. Rates concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.001).
6. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.001).

8. Is female (p ≤ 0.001).
8. Is more than median age (p ≤ 0.001).
8. Lives in WMU 5D (p ≤ 0.001).
8. Lives in WMU 2B (p ≤ 0.001).
8. Considers place of residence to be an urban or suburban area (p ≤ 0.001).
8. Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.001).
8. Has the median number or fewer people living in his/her household (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
5. Does not rate concern about deer droppings in their yard as a 9 or a 10

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.05).
2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Considers himself/herself to be a hunter (p ≤ 0.001).
4. Has a valid 2011 PA general hunting license (p < 0.001).
5. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
6. Fed birds or make birdfeed available on his/her property in the past 12 months (p < 0.001).
7. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).
8. Has spent time viewing or watching deer around home in the past 12 months (p < 0.05).
9. Does not consider the deer population in his/her area to be too high (p ≤ 0.001).
10. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
11. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
12. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
13. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.001).
14. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p < 0.01).
15. Does not strongly or moderately support lethal methods to manage deer populations in PA (p < 0.05).
16. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).
17. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).
18. Does not rate concern about tick-borne diseases in PA as a 9 or 10 (p < 0.001).
19. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p ≤ 0.001).
20. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
21. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with an accident involving a deer on PA’s roads or highways in the past 12 months (p < 0.01).
22. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
23. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p < 0.001).
24. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p < 0.001).

8. Is male (p < 0.001).

8. Is the median age or younger (p < 0.001).
8. Does not consider place of residence to be an urban or suburban area (p < 0.001).
8. Lives in WMU 4D (p < 0.001).
8. Lives in WMU 2G (p < 0.01).
8. Has more than median number of people living in his/her household (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
## 5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10

| 2. Has seen deer frequently on his/her property in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate considering himself/herself to be a hunter (p ≤ 0.001). |
| 3. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.001). |
| 3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate that he/she or any of his/her family members hunt (p ≤ 0.001). |
| 3. Does not indicate having put out attractants in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p ≤ 0.001). |
| 3. Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001). |
| 4. Considers the deer population in his/her area to be too high (p ≤ 0.001). |
| 4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.001). |
| 4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ≤ 0.001). |
| 4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001). |
| 4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001). |
| 4. Strongly or moderately supports lethal methods to manage deer populations in PA (p ≤ 0.01). |
| 4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p ≤ 0.05). |
| 5. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001). |
| 5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p ≤ 0.001). |
| 5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001). |
| 5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.001). |
| 5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.001). |
| 5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p ≤ 0.001). |
| 5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.001). |
| 6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001). |
| 6. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.001). |
| 6. Rates concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.001). |
| 7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001). |
| 7. Does not indicate using Facebook (including not using any social media) (p ≤ 0.01). |
| 8. Is more than median age (p ≤ 0.001). |
| 8. Is female (p ≤ 0.001). |
| 8. Lives in WMU 2B (p ≤ 0.001). |
| 8. Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.001). |
| 8. Has the median number or fewer people living in his/her household (p ≤ 0.001). |
| 8. Lives in WMU 3C (p ≤ 0.001). |
| 8. Considers place of residence to be an urban or suburban area (p ≤ 0.001). |
| 8. Lives in WMU 5D (p ≤ 0.001). |
| 8. Lives in WMU 5C (p ≤ 0.01). |
| 8. Lives in WMU 2D (p ≤ 0.05). |

See page 9 through 11 for explanation of how to interpret z-score tables.
Overall Results

<table>
<thead>
<tr>
<th>5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Considers himself/herself to be a hunter (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Has a valid 2011 PA general hunting license (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Indicates that he/she or a family member hunts (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Fed deer intentionally or put out attractants in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Fed birds or make birdfeed available on his/her property in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p ≤ 0.01).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p ≤ 0.05).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Does not rate concern about tick-borne diseases in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p ≤ 0.001).</td>
</tr>
<tr>
<td>7. Uses Facebook (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Is the median age or younger (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Is male (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Has more than median number of people living in his/her household (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 4D (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Does not consider place of residence to be an urban or suburban area (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 3A (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Lives in WMU 5A (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Lives in WMU 4B (p ≤ 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
## 6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months (p ( &lt; 0.001 )).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate that he/she or any of his/her family members hunt (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having a valid 2011 PA general hunting license (p ( &lt; 0.001 )).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate considering himself/herself to be a hunter (p ( &lt; 0.001 )).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p ( &lt; 0.001 )).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ( &lt; 0.01 )).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p ( &lt; 0.05 )).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p ( \leq 0.05 )).</td>
</tr>
<tr>
<td>4.</td>
<td>Considers the deer population in his/her area to be too high (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports lethal methods to manage deer populations in PA (p ( \leq 0.05 )).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p ( \leq 0.05 )).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about tick-borne diseases in PA as a 9 or a 10 (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer droppings in their yard as a 9 or a 10 (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about the quality of deer habitat in PA as a 9 or 10 (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about the health of the deer population in PA as a 9 or 10 (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using Facebook (including not using any social media) (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>8.</td>
<td>Is more than median age (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5D (p ( &lt; 0.001 )).</td>
</tr>
<tr>
<td>8.</td>
<td>Has lived at his/her primary place of residence for more than the median number of years (p ( \leq 0.001 )).</td>
</tr>
<tr>
<td>8.</td>
<td>Considers place of residence to be an urban or suburban area (p ( &lt; 0.01 )).</td>
</tr>
<tr>
<td>8.</td>
<td>Has the median number or fewer people living in his/her household (p ( \leq 0.01 )).</td>
</tr>
<tr>
<td>8.</td>
<td>Is female (p ( \leq 0.05 )).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 3D (p ( \leq 0.05 )).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Does not indicate having seen deer frequently on his/her property in the past 12 months ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Indicates that he/she or a family member hunts ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Has a valid 2011 PA general hunting license ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Considers himself/herself to be a hunter ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Fed deer intentionally or put out attractants in the past 12 months ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months ((p &lt; 0.01)).</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Is very or somewhat satisfied with opportunities to view or watch deer in PA ((p &lt; 0.05)).</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Fed birds or make birdfeed available on his/her property in the past 12 months ((p &lt; 0.05)).</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Does not consider the deer population in his/her area to be too high ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Does not strongly or moderately support lethal methods to manage deer populations in PA ((p &lt; 0.05)).</td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat ((p &lt; 0.05)).</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>18.</td>
<td>Does not rate concern about deer droppings in their yard as a 9 or 10 ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>20.</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or 10 ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>21.</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>22.</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>23.</td>
<td>Does not rate concern about the quality of deer habitat in PA as a 9 or 10 ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>24.</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>Uses social media, such as Facebook, Twitter, or YouTube ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>26.</td>
<td>Uses Facebook ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>27.</td>
<td>Is the median age or younger ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>28.</td>
<td>Has lived at his/her primary place of residence for the median number of years or less ((p &lt; 0.001)).</td>
<td></td>
</tr>
<tr>
<td>29.</td>
<td>Lives in WMU 4D ((p &lt; 0.01)).</td>
<td></td>
</tr>
<tr>
<td>30.</td>
<td>Does not consider place of residence to be an urban or suburban area ((p &lt; 0.01)).</td>
<td></td>
</tr>
<tr>
<td>31.</td>
<td>Has more than median number of people living in his/her household ((p &lt; 0.01)).</td>
<td></td>
</tr>
<tr>
<td>32.</td>
<td>Is male ((p &lt; 0.05)).</td>
<td></td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
## 5. Rates concern about deer-vehicle accidents in PA as a 9 or 10

<table>
<thead>
<tr>
<th>Description</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.05).</td>
<td></td>
</tr>
<tr>
<td>2. Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.01).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.01).</td>
<td></td>
</tr>
<tr>
<td>5. Rates concern about tick-borne diseases in PA as a 9 or 10 (p &lt; 0.05).</td>
<td></td>
</tr>
<tr>
<td>6. Rates concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p &lt; 0.05).</td>
<td></td>
</tr>
<tr>
<td>8. Is female (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>9. Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>10. Lives in WMU 2B (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>11. Lives in WMU 2A (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>12. Lives in WMU 5D (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>13. Has lived at his/her primary place of residence for more than the median number of years (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>14. Lives in WMU 5C (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>15. Has the median number or fewer people living in his/her household (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>16. Lives in WMU 2D (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>17. Primary place of residence is a single-family home (p &lt; 0.001).</td>
<td></td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
## Pennsylvania Residents’ Opinions on and Attitudes Toward Deer and Deer Management

### Overall Results

5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Does not consider deer-related issues as 9 or 10 in importance as compared to other issues in life (p &lt; 0.05).</td>
</tr>
<tr>
<td>2</td>
<td>Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>3</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>4</td>
<td>Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>5</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3</td>
<td>Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3</td>
<td>Indicates that he/she or a family member hunts (p &lt; 0.001).</td>
</tr>
<tr>
<td>3</td>
<td>Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>4</td>
<td>Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4</td>
<td>Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.001).</td>
</tr>
<tr>
<td>4</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
</tr>
<tr>
<td>4</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.01).</td>
</tr>
<tr>
<td>4</td>
<td>Does not strongly/moderately support trapping/killing as method of controlling deer populations in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>5</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5</td>
<td>Does not rate concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5</td>
<td>Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>6</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6</td>
<td>Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>7</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube (p &lt; 0.05).</td>
</tr>
<tr>
<td>7</td>
<td>Does not indicate using Facebook (including not using any social media) (p &lt; 0.05).</td>
</tr>
<tr>
<td>8</td>
<td>Is male (p &lt; 0.001).</td>
</tr>
<tr>
<td>8</td>
<td>Is the median age or younger (p &lt; 0.001).</td>
</tr>
<tr>
<td>8</td>
<td>Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8</td>
<td>Lives in WMU 2G (p &lt; 0.001).</td>
</tr>
<tr>
<td>8</td>
<td>Lives at his/her primary place of residence for the median number of years or less (p &lt; 0.001).</td>
</tr>
<tr>
<td>8</td>
<td>Lives in WMU 4A (p &lt; 0.001).</td>
</tr>
<tr>
<td>8</td>
<td>Lives in WMU 3A (p &lt; 0.001).</td>
</tr>
<tr>
<td>8</td>
<td>Has more than median number of people living in his/her household (p &lt; 0.001).</td>
</tr>
<tr>
<td>8</td>
<td>Primary place of residence not a single-family home (p &lt; 0.01).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
6. Rates concern about the quality of deer habitat in PA as a 9 or 10

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
3. Considers himself/herself to be a hunter (p < 0.001).
3. Has a valid 2011 PA general hunting license (p < 0.001).
3. Fed birds or make birdfeed available on his/her property in the past 12 months (p < 0.001).
3. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).
3. Has spent time viewing or watching deer around home in the past 12 months (p < 0.001).
3. Indicates that he/she or a family member hunts (p < 0.05).
4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.05).
5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001).
5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
5. Rates concern about deer droppings in their yard as a 9 or a 10 (p < 0.001).
5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).
6. Rates concern about the health of the deer population in PA as a 9 or 10 (p < 0.001).
6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.01).
7. Does not indicate using Facebook (including not using any social media) (p < 0.05).
8. Is more than median age (p < 0.001).
8. Is male (p < 0.001).
8. Has lived at his/her primary place of residence for more than the median number of years (p < 0.001).
8. Lives in WMU 3D (p < 0.001).
8. Does not consider place of residence to be an urban or suburban area (p < 0.01).
8. Lives in WMU 3A (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

<table>
<thead>
<tr>
<th>6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>3. Does not indicate that he/she or any of his/her family members hunt ($p &lt; 0.05$).</td>
<td></td>
</tr>
<tr>
<td>4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA ($p &lt; 0.05$).</td>
<td></td>
</tr>
<tr>
<td>5. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>5. Does not rate concern about deer droppings in their yard as a 9 or a 10 ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube ($p &lt; 0.01$).</td>
<td></td>
</tr>
<tr>
<td>7. Uses Facebook ($p &lt; 0.05$).</td>
<td></td>
</tr>
<tr>
<td>8. Is the median age or younger ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>8. Is female ($p &lt; 0.001$).</td>
<td></td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area ($p &lt; 0.01$).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 5C ($p &lt; 0.01$).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 2F ($p &lt; 0.05$).</td>
<td></td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home ($p &lt; 0.05$).</td>
<td></td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
6. Rates concern about the health of the deer population in PA as a 9 or 10

<table>
<thead>
<tr>
<th>1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001).</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Has seen deer frequently on his/her property in the past 12 months (p ≤ 0.01).</td>
</tr>
<tr>
<td>3. Considers himself/herself to be a hunter (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Has a valid 2011 PA general hunting license (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Fed deer intentionally or put out attractants in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Fed birds or make birdfeed available on his/her property in the past 12 months (p ≤ 0.01).</td>
</tr>
<tr>
<td>3. Indicates that he/she or a family member hunts (p ≤ 0.05).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p ≤ 0.01).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p ≤ 0.05).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.05).</td>
</tr>
<tr>
<td>5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.05).</td>
</tr>
<tr>
<td>6. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.05).</td>
</tr>
<tr>
<td>8. Does not consider place of residence to be an urban or suburban area (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2G (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Is male (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Is more than median age (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 3A (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Lives in WMU 3D (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Primary place of residence is not a single-family home (p ≤ 0.01).</td>
</tr>
<tr>
<td>8. Has more than median number of people living in his/her household (p ≤ 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
6. Does not rate concern about the health of the deer population in PA as a 9 or 10

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life
   \( (p < 0.001) \).

2. Does not indicate having seen deer frequently on his/her property in the past 12 months \( (p < 0.01) \).

3. Does not indicate considering himself/herself to be a hunter \( (p < 0.001) \).

3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or
   watching deer in the past 12 months \( (p < 0.001) \).

3. Does not indicate having a valid 2011 PA general hunting license \( (p < 0.001) \).

3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months \( (p < 0.001) \).

3. Does not indicate having spent time viewing or watching deer around home in the past 12 months
   \( (p < 0.001) \).

3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months
   \( (p < 0.01) \).

3. Does not indicate that he/she or any of his/her family members hunt \( (p < 0.05) \).

4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable
deer populations \( (p < 0.001) \).

4. Considers the deer population in his/her area to be too high \( (p < 0.01) \).

4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest
   habitat \( (p < 0.05) \).

4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA
   \( (p < 0.05) \).

5. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 \( (p < 0.001) \).

5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 \( (p < 0.001) \).

5. Does not rate concern about deer droppings in their yard as a 9 or a 10 \( (p < 0.001) \).

5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 \( (p < 0.001) \).

5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA \( (p < 0.05) \).

6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 \( (p < 0.001) \).

6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 \( (p < 0.001) \).

7. Uses social media, such as Facebook, Twitter, or YouTube \( (p < 0.05) \).

8. Considers place of residence to be an urban or suburban area \( (p < 0.001) \).

8. Has lived at his/her primary place of residence for the median number of years or less \( (p < 0.001) \).

8. Is the median age or younger \( (p < 0.001) \).

8. Is female \( (p < 0.001) \).

8. Primary place of residence is a single-family home \( (p < 0.001) \).

8. Lives in WMU 5C \( (p < 0.01) \).

8. Lives in WMU 2C \( (p < 0.01) \).

8. Lives in WMU 2B \( (p < 0.01) \).

8. Has the median number or fewer people living in his/her household \( (p < 0.05) \).

8. Lives in WMU 4D \( (p < 0.05) \).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q36. How about tick-borne diseases, such as Lyme disease, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

<table>
<thead>
<tr>
<th></th>
<th>10</th>
<th>9</th>
<th>8</th>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
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<tbody>
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Q39. How about deer impacts on the habitat and other wildlife in Pennsylvania, such as overeating specific plants that are also a food source for other wildlife? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned.)

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Q40. How about deer-vehicle accidents in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

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Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

|    | 1A | 1B | 2A | 2B | 2C | 2D | 2E | 2F | 2G | 2H | 3A | 3B | 3C | 3D | 4A | 4B | 4C | 4D | 4E | 5A | 5B | 5C | 5D | Statewide |
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| 8  | 17 | 16 | 14 | 11 | 9  | 11 | 16 | 16 | 18 | 15 | 10 | 12 | 10 | 10 | 12 | 10 | 10 | 10 | 10 | 14 | 14 |
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| 6  | 10 | 7  | 19 | 22 | 22 | 21 | 21 | 21 | 21 | 20 | 20 | 26 | 20 | 20 | 18 | 20 | 20 | 20 | 20 | 18 |
| 5  | 21 | 3  | 3  | 3  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
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**Overall Results**
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned.)

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</tbody>
</table>
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 26%
- Sometimes: 16%
- Rarely: 19%
- Never: 39%

Percent (n=9212)
2. Has seen deer frequently on his/her property in the past 12 months

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).
4. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
5. Indicates that he/she or a family member hunts (p < 0.001).
6. Has a valid 2011 PA general hunting license (p < 0.001).
7. Considers himself/herself to be a hunter (p < 0.001).
8. Fed birds or make birdfeed available on his/her property in the past 12 months (p < 0.001).
9. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).
10. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).

4. Considers the deer population in his/her area to be too high (p < 0.001).
5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).
6. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p < 0.001).
7. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.001).
8. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001).
9. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
10. Rates concern about deer droppings in their yard as a 9 or a 10 (p < 0.001).
11. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.01).
12. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
13. Rates concern about the health of the deer population in PA as a 9 or 10 (p < 0.01).
14. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.01).
15. Does not indicate using Facebook (including not using any social media) (p < 0.05).
16. Primary place of residence is not a single-family home (p < 0.001).
17. Lives in WMU 2A (p < 0.001).
18. Lives in WMU 2G (p < 0.001).
19. Lives in WMU 1A (p < 0.001).
20. Lives in WMU 2B (p < 0.01).
21. Lives in WMU 3D (p < 0.01).
22. Lives in WMU 2D (p < 0.01).
23. Lives in WMU 1B (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
Overall Results

2. Does not indicate having seen deer frequently on his/her property in the past 12 months

<p>| | |</p>
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<thead>
<tr>
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</tr>
</thead>
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<tr>
<td>1.</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not Indicate that he/she or any of his/her family members hunt (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate considering himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.01).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>5.</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.001).</td>
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<tr>
<td>5.</td>
<td>Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
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<td>5.</td>
<td>Does not rate concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.001).</td>
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<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.01).</td>
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<tr>
<td>6.</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.001).</td>
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<td>6.</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.01).</td>
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<td>7.</td>
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<td>Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
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<td>Lives in WMU 5D (p &lt; 0.001).</td>
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<td>Has lived at his/her primary place of residence for the median number of years or less (p &lt; 0.001).</td>
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<td>8.</td>
<td>Lives in WMU 3C (p &lt; 0.05).</td>
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</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 30, 24
- Sometimes: 17, 14
- Rarely: 20, 18
- Never: 33, 44

Fed birds on his/her property in the past 12 months (n=4496)
Did not feed birds on his/her property in the past 12 months (n=4708)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 57 respondents
- Sometimes: 20 respondents
- Rarely: 12 respondents
- Never: 11 respondents

Has fed deer or put out attractants in the past 12 months (n=1132)
Has not fed deer or put out attractants in the past 12 months (n=8072)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 23
- Sometimes: 15
- Rarely: 20
- Never: 10

Is aware of neighbors feeding deer or putting out attractants (n=1226)
Is not aware of neighbors feeding deer or putting out attractants (n=7836)
**Q49. How often have you seen deer on your property in the past 12 months?**

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Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months

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<tbody>
<tr>
<td>1.</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.01).</td>
</tr>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate considering himself/herself to be a hunter (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>4.</td>
<td>Considers the deer population in his/her area to be too high (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports lethal methods to manage deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Is more than median age (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Has lived at his/her primary place of residence for more than the median number of years (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2B (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5C (p ≤ 0.001).</td>
</tr>
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</tr>
<tr>
<td>8.</td>
<td>Is female (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2A (p ≤ 0.01).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ($p < 0.01$).
2. Does not indicate having seen deer frequently on his/her property in the past 12 months ($p < 0.001$).
3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months ($p < 0.001$).
4. Has a valid 2011 PA general hunting license ($p < 0.001$).
5. Fed deer intentionally or put out attractants in the past 12 months ($p < 0.01$).
6. Does not consider the deer population in his/her area to be too high ($p < 0.001$).
7. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA ($p < 0.001$).
8. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA ($p < 0.001$).
9. Does not strongly or moderately support lethal methods to manage deer populations in PA ($p < 0.001$).
10. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA ($p < 0.001$).
5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 ($p < 0.001$).
6. Does not rate concern about deer droppings in their yard as a 9 or 10 ($p < 0.001$).
7. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months ($p < 0.001$).
8. Does not rate concern about tick-borne diseases in PA as a 9 or 10 ($p < 0.001$).
9. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months ($p < 0.001$).
10. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ($p < 0.001$).
11. Is the median age or younger ($p < 0.001$).
12. Primary place of residence is a single-family home ($p < 0.001$).
13. Has lived at his/her primary place of residence for the median number of years or less ($p < 0.001$).
14. Lives in WMU 3B ($p < 0.001$).
15. Lives in WMU 5A ($p < 0.001$).
16. Is male ($p < 0.001$).
17. Lives in WMU 3A ($p < 0.001$).
18. Lives in WMU 4B ($p < 0.001$).
19. Lives in WMU 4D ($p < 0.01$).
20. Lives in WMU 4A ($p < 0.01$).
21. Lives in WMU 5B ($p < 0.05$).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is aware of neighbors feeding deer or putting out attractants (n=1226)</td>
<td>21</td>
</tr>
<tr>
<td>Is not aware of neighbors feeding deer or putting out attractants (n=7836)</td>
<td>11</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Percent</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
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<tr>
<td>80</td>
</tr>
<tr>
<td>100</td>
</tr>
</tbody>
</table>

Percentages: 21% for Yes, 89% for No.
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

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</tr>
<tr>
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<td>91</td>
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<td>4B</td>
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<td>4C</td>
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<td>88</td>
</tr>
<tr>
<td>Statewide</td>
<td>12</td>
<td>88</td>
</tr>
</tbody>
</table>
Pennsylvania Residents’ Opinions on and Attitudes Toward Deer and Deer Management

Overall Results

Pennsylvania Wildlife Management Units

Nuisance Problems on Property

Percent Who Had Deer Problems at Their Primary Residence in Past 12 Months:

- Less than 10%
- 10% to 14%
- 15% or more
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

Yes: 13
No: 87

Percent (n=9212)
## Overall Results

5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.05).

2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).

3. Has spent time viewing or watching deer around home in the past 12 months (p < 0.001).

3. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001).

3. Indicates that he/she or a family member hunts (p < 0.001).

3. Considers himself/herself to be a hunter (p < 0.01).

3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.01).

4. Considers the deer population in his/her area to be too high (p < 0.001).

4. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.001).

4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p < 0.001).

4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p < 0.01).

4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.01).

5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).

5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p < 0.001).

5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).

5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.001).

5. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.01).

6. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.05).

7. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.001).

7. Uses Facebook (p < 0.001).

8. Has more than median number of people living in his/her household (p < 0.001).

8. Is the median age or younger (p < 0.001).

8. Lives in WMU 2A (p ≤ 0.001).

8. Lives in WMU 2E (p ≤ 0.001).

8. Lives in WMU 2F (p ≤ 0.001).

8. Lives in WMU 2C (p ≤ 0.01).

8. Does not consider place of residence to be an urban or suburban area (p ≤ 0.01).

8. Lives in WMU 2D (p ≤ 0.05).

8. Is male (p ≤ 0.05).

8. Lives in WMU 1B (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.05).</td>
</tr>
<tr>
<td>2</td>
<td>Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3</td>
<td>Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>4</td>
<td>Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5</td>
<td>Does not indicate having used spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>6</td>
<td>Does not Indicate that he/she or any of his/her family members hunt (p &lt; 0.001).</td>
</tr>
<tr>
<td>7</td>
<td>Does not indicate considering himself/herself to be a hunter (p &lt; 0.01).</td>
</tr>
<tr>
<td>8</td>
<td>Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>9</td>
<td>Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>10</td>
<td>Does not strongly or moderately support lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>11</td>
<td>Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>12</td>
<td>Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>13</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>14</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>15</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>16</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>17</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>18</td>
<td>Does not indicate concerning himself/herself to be a hunter (p &lt; 0.01).</td>
</tr>
<tr>
<td>19</td>
<td>Does not indicate having used spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>20</td>
<td>Does not consider using social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>21</td>
<td>Does not indicate using Facebook (including not using any social media) (p &lt; 0.001).</td>
</tr>
<tr>
<td>22</td>
<td>Has the median number or fewer people living in his/her household (p &lt; 0.001).</td>
</tr>
<tr>
<td>23</td>
<td>Is more than median age (p &lt; 0.001).</td>
</tr>
<tr>
<td>24</td>
<td>Lives in WMU 4C (p &lt; 0.001).</td>
</tr>
<tr>
<td>25</td>
<td>Lives in WMU 5D (p &lt; 0.001).</td>
</tr>
<tr>
<td>26</td>
<td>Lives in WMU 5A (p &lt; 0.001).</td>
</tr>
<tr>
<td>27</td>
<td>Lives in WMU 3B (p &lt; 0.001).</td>
</tr>
<tr>
<td>28</td>
<td>Lives in WMU 4B (p &lt; 0.001).</td>
</tr>
<tr>
<td>29</td>
<td>Lives in WMU 5B (p &lt; 0.01).</td>
</tr>
<tr>
<td>30</td>
<td>Considers place of residence to be an urban or suburban area (p &lt; 0.01).</td>
</tr>
<tr>
<td>31</td>
<td>Lives in WMU 3D (p &lt; 0.01).</td>
</tr>
<tr>
<td>32</td>
<td>Is female (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania’s roads or highways?

<table>
<thead>
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<th>Yes</th>
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<td>91</td>
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</tr>
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</tr>
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<td>Statewide</td>
<td>13</td>
<td>87</td>
<td>Less than 1%</td>
</tr>
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</table>
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes  6

No  94

Percent (n=1426)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
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<tr>
<td>Statewide</td>
<td>6</td>
<td>94</td>
</tr>
</tbody>
</table>
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?
5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months

2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.001).
3. Indicates that he/she or a family member hunts (p < 0.001).
3. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p < 0.001).
4. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.001).
4. Considers the deer population in his/her area to be too high (p < 0.001).
4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p < 0.001).
4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.05).
5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001).
5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p < 0.001).
5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).
5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.05).
7. Uses Facebook (p < 0.01).
7. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.05).
8. Lives in WMU 5C (p < 0.001).
8. Lives in WMU 2E (p < 0.001).
8. Does not consider place of residence to be an urban or suburban area (p < 0.001).
8. Lives in WMU 2D (p < 0.01).
8. Lives in WMU 5A (p < 0.01).
8. Primary place of residence is not a single-family home (p < 0.01).
8. Has lived at his/her primary place of residence for more than the median number of years (p < 0.01).
8. Is female (p < 0.05).
8. Has more than median number of people living in his/her household (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
<table>
<thead>
<tr>
<th>5. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate that he/she or any of his/her family members hunt (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.05).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.05).</td>
</tr>
<tr>
<td>5. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>7. Does not indicate using Facebook (including not using any social media) (p &lt; 0.01).</td>
</tr>
<tr>
<td>7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Lives in WMU 2A (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2C (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 1B (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2B (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home (p &lt; 0.01).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less (p &lt; 0.01).</td>
</tr>
<tr>
<td>8. Lives in WMU 1A (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Is male (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Has the median number or fewer people living in his/her household (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

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<td>4E</td>
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<tr>
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</table>
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Among Pennsylvanians overall, 8% fed deer or put out attractants, 10% indicated that neighbors had done so, and just over half (44%) fed birds.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks and corn (just under half of those who put out feed/attractants put out these), with apples put out by 18% of these respondents.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 44% agree that this is okay, but a similar percentage (47%) disagree. The rest are neutral. While the agree responses are about evenly divided between strong and moderate agreement, most of the disagreement is strong disagreement. A map shows the results regarding disagreement for each WMU.

- Those who own their home, compared to those who do not, are not markedly different regarding whether they think it is okay or not for private citizens to feed or attract deer.

A quarter of Pennsylvanians (25%) consider themselves to be a hunter (even though not all of them hunt every year), about three-fourths of whom have a 2011 Pennsylvania hunting license.

- Among Pennsylvanians whose primary place of residence is a single-family home, 10% indicated that they personally hunt on their property.
- Just under three-fourths of Pennsylvania residents (72%) have family members or friends who hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 8

No: 92
### 3. Fed deer intentionally or put out attractants in the past 12 months

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p ≤ 0.001).
3. Has a valid 2011 PA general hunting license (p ≤ 0.001).
4. Considers himself/herself to be a hunter (p ≤ 0.001).
5. Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).
6. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).
7. Fed birds or make birdfeed available on his/her property in the past 12 months (p ≤ 0.001).
8. Indicates that he/she or a family member hunts (p ≤ 0.001).
9. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001).
10. Does not consider the deer population in his/her area to be too high (p ≤ 0.001).
11. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001).
12. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.001).
13. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p ≤ 0.001).
14. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ≤ 0.001).
15. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.01).
16. Rates concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.001).
17. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.001).
18. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).
19. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.01).
20. Does not indicate using Facebook (including not using any social media) (p ≤ 0.05).
21. Does not consider place of residence to be an urban or suburban area (p ≤ 0.001).
22. Primary place of residence is not a single-family home (p ≤ 0.001).
23. Is male (p ≤ 0.001).
24. Lives in WMU 2G (p ≤ 0.001).
25. Is the median age or younger (p ≤ 0.001).
26. Has more than median number of people living in his/her household (p ≤ 0.001).
27. Lives in WMU 4B (p ≤ 0.001).
28. Lives in WMU 2A (p ≤ 0.001).
29. Lives in WMU 4A (p ≤ 0.01).
30. Lives in WMU 1A (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
<table>
<thead>
<tr>
<th>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate that he/she or any of his/her family members hunt (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Considers the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.001).</td>
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<tr>
<td>4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p &lt; 0.01).</td>
</tr>
<tr>
<td>7. Uses Facebook (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Is female (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5D (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Is more than median age (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Has the median number or fewer people living in his/her household (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5B (p &lt; 0.001).</td>
</tr>
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<td>8. Lives in WMU 3C (p &lt; 0.001).</td>
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<tr>
<td>8. Lives in WMU 5C (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2B (p &lt; 0.01).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for more than the median number of years (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Lives in WMU 3B (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Don't know</th>
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</thead>
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<tr>
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</table>
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

<table>
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</table>
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 44
No: 56

Percent (n=9212)
### Overall Results

3. Fed birds or make birdfeed available on his/her property in the past 12 months

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Fed deer intentionally or put out attractants in the past 12 months (p ≤ 0.001).
4. Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).
5. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).
6. Indicates that he/she or a family member hunts (p < 0.001).
7. Considers himself/herself to be a hunter (p < 0.001).
8. Has a valid 2011 PA general hunting license (p < 0.001).
9. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.001).
10. Does not consider the deer population in his/her area to be too high (p ≤ 0.001).
11. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.001).
12. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.01).
13. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
14. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
15. Does not rate concern about deer droppings in their yard as a 9 or 10 (p < 0.001).
16. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).
17. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.001).
18. Rates concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.01).
19. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.05).
20. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
21. Primary place of residence is not a single-family home (p < 0.001).
22. Is more than median age (p < 0.001).
23. Does not consider place of residence to be an urban or suburban area (p < 0.001).
24. Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.001).
25. Lives in WMU 4B (p ≤ 0.001).
26. Lives in WMU 1B (p ≤ 0.001).
27. Lives in WMU 2G (p < 0.05).
28. Has the median number or fewer people living in his/her household (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
## Overall Results

### 3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ($p \leq 0.001$).

2. Does not indicate having seen deer frequently on his/her property in the past 12 months ($p \leq 0.001$).

3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months ($p \leq 0.001$).

4. Does not indicate having spent time viewing or watching deer around home in the past 12 months ($p \leq 0.001$).

5. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months ($p \leq 0.001$).

6. Does not indicate that he/she or any of his/her family members hunt ($p \leq 0.001$).

7. Does not indicate considering himself/herself to be a hunter ($p \leq 0.001$).

8. Does not indicate having a valid 2011 PA general hunting license ($p \leq 0.001$).

9. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA ($p \leq 0.001$).

10. Considers the deer population in his/her area to be too high ($p \leq 0.001$).

11. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA ($p \leq 0.001$).

12. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA ($p \leq 0.01$).

13. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA ($p \leq 0.001$).

14. Rates concern about deer-vehicle accidents in PA as a 9 or 10 ($p \leq 0.001$).

15. Rates concern about deer dropping in their yard as a 9 or a 10 ($p \leq 0.001$).

16. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 ($p \leq 0.001$).

17. Does not rate concern about the health of the deer population in PA as a 9 or 10 ($p \leq 0.01$).

18. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ($p \leq 0.05$).

19. Uses social media, such as Facebook, Twitter, or YouTube ($p \leq 0.001$).

20. Primary place of residence is a single-family home ($p \leq 0.001$).

21. Is the median age or younger ($p \leq 0.001$).

22. Considers place of residence to be an urban or suburban area ($p \leq 0.001$).

23. Lives in WMU 5D ($p \leq 0.001$).

24. Has lived at his/her primary place of residence for the median number of years or less ($p \leq 0.001$).

25. Lives in WMU 2B ($p \leq 0.001$).

26. Has more than median number of people living in his/her household ($p \leq 0.05$).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

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<th>Yes</th>
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<tr>
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<td>56</td>
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</table>
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Salt / mineral block: 48%
- Corn: 44%
- Apples: 18%
- Pellets / commercial feed: 4%
- Other food products: 4%
- Birdseed: 3%
- Bread: 2%
- Hay: 2%
- Horse feed: 1%
- Don't know: 2%

Percent (n=1132)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.) (Multiple Responses Allowed)

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<th>Corn</th>
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<th>Pellets / commercial feed</th>
<th>Other food products</th>
<th>Birdseed</th>
<th>Bread</th>
<th>Hay</th>
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</tbody>
</table>
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 20%
- Moderately agree: 24%
- Neither agree nor disagree: 8%
- Moderately disagree: 15%
- Strongly disagree: 32%
- Don't know: 2%

Percent (n=9212)
5. **Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Fed deer intentionally or put out attractants in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Indicates that he/she or a family member hunts (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Fed birds or make birdfeed available on his/her property in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Is very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports lethal methods to manage deer populations in PA (p ≤ 0.05).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
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<td>6.</td>
<td>Rates concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.05).</td>
</tr>
<tr>
<td>7.</td>
<td>Uses Facebook (p ≤ 0.001).</td>
</tr>
<tr>
<td>7.</td>
<td>Uses social media, such as Facebook, Twitter, or YouTube (p ≤ 0.01).</td>
</tr>
<tr>
<td>8.</td>
<td>Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Is the median age or younger (p ≤ 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 2G (p ≤ 0.001).</td>
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<tr>
<td>8.</td>
<td>Is male (p ≤ 0.001).</td>
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<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home (p ≤ 0.001).</td>
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<td>Has lived at his/her primary place of residence for the median number of years or less (p ≤ 0.001).</td>
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<tr>
<td>8.</td>
<td>Lives in WMU 4A (p ≤ 0.001).</td>
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<td>8.</td>
<td>Has more than median number of people living in his/her household (p ≤ 0.001).</td>
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<tr>
<td>8.</td>
<td>Lives in WMU 4D (p ≤ 0.001).</td>
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<td>8.</td>
<td>Lives in WMU 2C (p ≤ 0.05).</td>
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</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA

| 1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001). |
| 2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p < 0.001). |
| 3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate considering himself/herself to be a hunter (p ≤ 0.001). |
| 3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.001). |
| 3. Does not Indicate that he/she or any of his/her family members hunt (p ≤ 0.001). |
| 3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001). |
| 4. Considers the deer population in his/her area to be too high (p < 0.001). |
| 4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.001). |
| 4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p < 0.001). |
| 4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.01). |
| 4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p < 0.05). |
| 5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001). |
| 5. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001). |
| 5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001). |
| 5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p ≤ 0.001). |
| 5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001). |
| 6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001). |
| 6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p < 0.05). |
| 7. Does not indicate using Facebook (including not using any social media) (p ≤ 0.001). |
| 7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.01). |
| 8. Considers place of residence to be an urban or suburban area (p ≤ 0.001). |
| 8. Is more than median age (p ≤ 0.001). |
| 8. Lives in WMU 5D (p < 0.001). |
| 8. Is female (p < 0.001). |
| 8. Lives in WMU 3C (p < 0.001). |
| 8. Primary place of residence is a single-family home (p ≤ 0.001). |
| 8. Lives in WMU 3D (p ≤ 0.001). |
| 8. Has lived at his/her primary place of residence for more than the median number of years (p < 0.001). |
| 8. Has the median number or fewer people living in his/her household (p < 0.001). |

See page 9 through 11 for explanation of how to interpret z-score tables.
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 21 (18)
- Moderately agree: 24 (22)
- Neither agree nor disagree: 7 (6)
- Moderately disagree: 15 (20)
- Strongly disagree: 31 (33)
- Don't know: 2 (1)

0 20 40 60 80 100

Percent

Owns home (n=7617)
Does not own home (n=589)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

<table>
<thead>
<tr>
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<th>Moderately agree</th>
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<th>Moderately disagree</th>
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</table>
Pennsylvania Wildlife Management Units

Opinion on Whether It Is Okay to Feed Deer

Percent Who Moderately or Strongly Disagree That It Is Okay to Feed Deer in Pennsylvania:

- 20% to 35%
- 36% to 45%
- More than 45%
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

- Yes: 10%
- No: 90%

Percent (n=8206)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

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<td>10</td>
<td>90</td>
<td>Less than 1%</td>
</tr>
</tbody>
</table>
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 72%
- No: 27%
- Don't know: 1%

Percent (n=9212)
### 3. Indicates that he/she or a family member hunts

<table>
<thead>
<tr>
<th>Indicates that he/she or a family member hunts</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>2. Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Considers himself/herself to be a hunter (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Fed birds or make birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>3. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.01).</td>
<td></td>
</tr>
<tr>
<td>4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Strongly or moderately supports lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p &lt; 0.05).</td>
<td></td>
</tr>
<tr>
<td>5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>5. Does not rate concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>6. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.05).</td>
<td></td>
</tr>
<tr>
<td>6. Rates concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.05).</td>
<td></td>
</tr>
<tr>
<td>7. Uses Facebook (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Is male (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Primary place of residence is not a single-family home (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Is the median age or younger (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Has more than median number of people living in his/her household (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 2E (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>8. Lives in WMU 2G (p &lt; 0.001).</td>
<td></td>
</tr>
<tr>
<td>See page 9 through 11 for explanation of how to interpret z-score tables.</td>
<td></td>
</tr>
</tbody>
</table>
Overall Results

3. Does not Indicate that he/she or any of his/her family members hunt

| 1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001). |
|---|---|
| 2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate considering himself/herself to be a hunter (p ≤ 0.001). |
| 3. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.001). |
| 3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001). |
| 3. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.01). |
| 4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.001). |
| 4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p ≤ 0.001). |
| 4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.001). |
| 4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p ≤ 0.001). |
| 4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001). |
| 4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p ≤ 0.01). |
| 4. Considers the deer population in his/her area to be too high (p ≤ 0.05). |
| 5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.001). |
| 5. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001). |
| 5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001). |
| 5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001). |
| 5. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.001). |
| 5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with an accident involving a deer on PA’s roads or highways in the past 12 months (p ≤ 0.001). |
| 6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p ≤ 0.001). |
| 6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.05). |
| 6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.05). |
| 7. Does not indicate using Facebook (including not using any social media) (p ≤ 0.001). |
| 7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.001). |
| 8. Lives in WMU 5D (p ≤ 0.001). |
| 8. Is female (p ≤ 0.001). |
| 8. Considers place of residence to be an urban or suburban area (p ≤ 0.001). |
| 8. Primary place of residence is a single-family home (p ≤ 0.001). |
| 8. Is more than median age (p ≤ 0.001). |
| 8. Has the median number or fewer people living in his/her household (p ≤ 0.001). |
| 8. Lives in WMU 5C (p ≤ 0.001). |
| 8. Lives in WMU 2B (p ≤ 0.001). |
| 8. Lives in WMU 3B (p ≤ 0.01). |
| 8. Lives in WMU 1A (p ≤ 0.01). |

See page 9 through 11 for explanation of how to interpret z-score tables.
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

<table>
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<tr>
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SOURCES OF INFORMATION

- Most commonly, Pennsylvania residents say that the best way to provide them with information about deer in Pennsylvania is through direct mail (39% gave this response). This is distantly followed by four other sources: email (17%), newspaper (16%), the Internet (14% saying an Internet site other than the PGC and 4% saying the agency website; note that some said both), and TV (11%).

- Just under half of Pennsylvania residents (45%) use social media such as Facebook (the most common of the social media), YouTube, or Twitter.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

Multiple Responses Allowed

- Direct mail: 39%
- Email: 17%
- Newspaper: 16%
- Internet / website other than PGC website: 14%
- TV: 11%
- PA Game Commission website: 4%
- Brochures or pamphlets: 3%
- Magazines: 3%
- Radio: 2%
- Telephone: 2%
- PA Hunting and Trapping Digest: 2%
- PA Game Commission offices: 1%
- Public presentations: 1%
- Social media: 1%
- Other: 1%
- Don't know: 9%

Percent (n=9211)
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest. (Multiple Responses Allowed)

<table>
<thead>
<tr>
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Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 45%
- No: 55%
- Don't know: 1%
### Overall Results

#### 7. Uses social media, such as Facebook, Twitter, or YouTube

<table>
<thead>
<tr>
<th>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ((p &lt; 0.001)).</th>
</tr>
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<tbody>
<tr>
<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months ((p &lt; 0.01)).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>3. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>3. Indicates that he/she or a family member hunts ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>3. Is very or somewhat satisfied with opportunities to view or watch deer in PA ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months ((p &lt; 0.01)).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA ((p &lt; 0.01)).</td>
</tr>
<tr>
<td>5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months ((p &lt; 0.05)).</td>
</tr>
<tr>
<td>6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 ((p &lt; 0.01)).</td>
</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 ((p &lt; 0.05)).</td>
</tr>
<tr>
<td>7. Uses Facebook ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>8. Is the median age or younger ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home ((p &lt; 0.001)).</td>
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<tr>
<td>8. Lives in WMU 2E ((p &lt; 0.001)).</td>
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<tr>
<td>8. Lives in WMU 5D ((p &lt; 0.001)).</td>
</tr>
<tr>
<td>8. Lives in WMU 3B ((p &lt; 0.05)).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

#### 7. Does not indicate using social media, such as Facebook, Twitter, or YouTube

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p ≤ 0.01).
3. Has a valid 2011 PA general hunting license (p ≤ 0.001).
4. Considers himself/herself to be a hunter (p ≤ 0.001).
5. Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).
6. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.01).
7. Does not Indicate that he/she or any of his/her family members hunt (p ≤ 0.001).
8. Fed birds or make birdfeed available on his/her property in the past 12 months (p ≤ 0.01).
9. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.05).
10. Rates concern about tick-borne diseases in PA as a 9 or 10 (p ≤ 0.05).
11. Does not indicate using Facebook (including not using any social media) (p ≤ 0.001).
12. Is more than median age (p ≤ 0.001).
13. Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.001).
14. Has the median number or fewer people living in his/her household (p ≤ 0.001).
15. Is male (p ≤ 0.001).
16. Does not consider place of residence to be an urban or suburban area (p ≤ 0.001).
17. Primary place of residence is not a single-family home (p ≤ 0.001).
18. Lives in WMU 3A (p ≤ 0.001).
19. Lives in WMU 4A (p ≤ 0.05).
20. Lives in WMU 1A (p ≤ 0.05).
21. Lives in WMU 2C (p ≤ 0.05).
22. Lives in WMU 4C (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
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Q85. Which social media site do you use most often? (Asked of those who use social media.)

Facebook: 86%
YouTube: 7%
Twitter: 5%
Other: 1%
Don't know: 1%
## Overall Results

7. Uses Facebook

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ($p < 0.001$).

2. Does not indicate having seen deer frequently on his/her property in the past 12 months ($p < 0.05$).

3. Does not indicate having a valid 2011 PA general hunting license ($p < 0.001$).

4. Does not indicate considering himself/herself to be a hunter ($p < 0.001$).

5. Indicates that he/she or a family member hunts ($p < 0.001$).

6. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months ($p < 0.001$).

7. Does not indicate having spent time viewing or watching deer around home in the past 12 months ($p < 0.001$).

8. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months ($p < 0.05$).

4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA ($p < 0.001$).

4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat ($p < 0.001$).

4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations ($p < 0.001$).

4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts ($p < 0.001$).

4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA ($p < 0.001$).

4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA ($p < 0.001$).

4. Strongly or moderately supports lethal methods to manage deer populations in PA ($p < 0.001$).

5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months ($p < 0.001$).

5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA ($p < 0.001$).

5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 ($p < 0.01$).

5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months ($p < 0.01$).

5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 ($p < 0.05$).

6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 ($p < 0.001$).

7. Uses social media, such as Facebook, Twitter, or YouTube ($p < 0.001$).

8. Has lived at his/her primary place of residence for the median number of years or less ($p < 0.001$).

8. Lives in WMU 2E ($p < 0.001$).

8. Considers place of residence to be an urban or suburban area ($p < 0.001$).

8. Lives in WMU 5D ($p < 0.05$).

8. Lives in WMU 3B ($p < 0.05$).

8. Lives in WMU 2F ($p < 0.05$).

8. Has more than median number of people living in his/her household ($p < 0.001$).

8. Is female ($p < 0.001$).

8. Is the median age or younger ($p < 0.001$).

See page 9 through 11 for explanation of how to interpret z-score tables.
7. Does not indicate using Facebook (including not using any social media)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<td>1.</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
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<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.05).</td>
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<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate that he/she or any of his/her family members hunt (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Is more than median age (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Has lived at his/her primary place of residence for more than the median number of years (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Is male (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Has the median number or fewer people living in his/her household (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 4C (p &lt; 0.01).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 3A (p &lt; 0.01).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 1A (p &lt; 0.05).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 4A (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q85. Which social media site do you use most often? (Asked of those who use social media.)

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<thead>
<tr>
<th></th>
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<th>Twitter</th>
<th>YouTube</th>
<th>Other</th>
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<tr>
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<td>1</td>
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</tbody>
</table>
DEMOGRAPHIC DATA

- The demographic data from the survey are shown below; note that the primary reason for asking these questions was for crosstabulations and the z-score analysis. The survey asked about the following:
  - Gender
  - Age
  - Years lived at primary residency
  - Number of people in household
  - Type of residential area (i.e., urban, suburban, or rural)
  - Type of housing
  - Acres of land (among those living in a single-family home)
  - Owning versus renting primary residence
Q105. Respondent's gender (observed by interviewer; not asked).

- Male: 48%
- Female: 52%

Percent (n=9212)
8. Is male

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (\( p \leq 0.001 \)).
2. Considers himself/herself to be a hunter (\( p \leq 0.001 \)).
3. Has a valid 2011 PA general hunting license (\( p \leq 0.001 \)).
4. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (\( p \leq 0.001 \)).
5. Indicates that he/she or a family member hunts (\( p \leq 0.001 \)).
6. Fed deer intentionally or put out attractants in the past 12 months (\( p \leq 0.001 \)).
7. Has spent time viewing or watching deer around home in the past 12 months (\( p \leq 0.001 \)).
8. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (\( p \leq 0.001 \)).
4. Strongly or moderately supports lethal methods to manage deer populations in PA (\( p \leq 0.001 \)).
5. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (\( p \leq 0.001 \)).
6. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (\( p \leq 0.001 \)).
7. Does not consider the deer population in his/her area to be too high (\( p \leq 0.001 \)).
8. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (\( p \leq 0.001 \)).
9. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (\( p \leq 0.001 \)).
10. Strongly or moderately supports that deer populations should be managed for healthy and sustainable deer populations (\( p \leq 0.001 \)).
11. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (\( p \leq 0.001 \)).
12. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (\( p \leq 0.001 \)).
13. Does not rate concern about deer droppings in their yard as a 9 or a 10  (\( p \leq 0.001 \)).
14. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (\( p \leq 0.001 \)).
15. Does not rate concern about tick-borne diseases in PA as a 9 or a 10  (\( p \leq 0.001 \)).
16. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (\( p \leq 0.001 \)).
8. Is female

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Does not indicate considering himself/herself to be a hunter (p < 0.001).
3. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.001).
4. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).
5. Does not indicate that he/she or any of his/her family members hunt (p ≤ 0.001).
6. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p < 0.001).
7. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
8. Does not strongly or moderately support lethal methods to manage deer populations in PA (p < 0.001).
9. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
10. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.001).
11. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.001).
12. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
13. Considers the deer population in his/her area to be too high (p < 0.001).
14. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).
15. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
16. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).
17. Rates concern about deer droppings in their yard as a 9 or a 10 (p < 0.001).
18. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
19. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001).
20. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p < 0.001).
21. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.05).
22. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p ≤ 0.05).
23. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p < 0.001).
24. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p < 0.001).
25. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.05).
26. Uses Facebook (p < 0.001).
27. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.001).
28. Has the median number or fewer people living in his/her household (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q98. Respondent's age.

- 65 years old or older: 19
- 55-64 years old: 16
- 45-54 years old: 19
- 35-44 years old: 15
- 25-34 years old: 15
- 18-24 years old: 12
- Don't know: 1
- Refused: 3

Mean = 47.24
Median = 49

(Note: mean and median are among those 18 years old and older.)
Overall Results

### 8. Is more than median age

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Has not indicated having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001).
4. Has not used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).
5. Has spent time viewing or watching deer around home in the past 12 months (p < 0.001).
6. Has not indicated having fed deer intentionally or having put out attractants in the past 12 months (p < 0.001).
7. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).
8. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p ≤ 0.001).
9. Does not indicate that he/she or any of his/her family members hunt (p < 0.001).
10. Does not indicate having a valid 2011 PA general hunting license (p < 0.001).
11. Has not indicated having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
12. Does not indicate considering himself/herself to be a hunter (p < 0.001).
13. Does not indicate that he/she or any of his/her family members hunt (p < 0.001).
14. Does not indicate having a valid 2011 PA general hunting license (p < 0.001).
15. Has not indicated having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
16. Does not indicate considering himself/herself to be a hunter (p < 0.001).
17. Does not indicate that he/she or any of his/her family members hunt (p < 0.001).
18. Does not indicate having a valid 2011 PA general hunting license (p < 0.001).
19. Has not indicated having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
20. Does not indicate considering himself/herself to be a hunter (p < 0.001).

See page 9 through 11 for explanation of how to interpret z-score tables.
8. Is the median age or younger

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).

2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p < 0.001).

3. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).

4. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p < 0.001).

5. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).

6. Considers himself/herself to be a hunter (p < 0.001).

7. Indicates that he/she or a family member hunts (p < 0.001).

8. Has a valid 2011 PA general hunting license (p < 0.001).

9. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p < 0.001).

10. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).

11. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).

12. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p < 0.001).

13. Does not consider the deer population in his/her area to be too high (p < 0.001).

14. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).

15. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.001).

16. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.001).

17. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p < 0.001).

18. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).

19. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001).

20. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).

21. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p < 0.001).

22. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p < 0.001).

23. Does not rate concern about deer droppings in their yard as a 9 or a 10 (p < 0.001).

24. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p < 0.001).

25. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).

26. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p < 0.001).

27. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.001).

28. Uses Facebook (p < 0.001).

29. Has lived at his/her primary place of residence for the median number of years or less (p < 0.001).

30. Has more than median number of people living in his/her household (p < 0.001).

31. Primary place of residence is a single-family home (p < 0.001).

32. Lives in WMU 4D (p < 0.001).

33. Considers place of residence to be an urban or suburban area (p < 0.001).

34. Lives in WMU 5D (p < 0.05).

35. Lives in WMU 5C (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q89. How many years have you lived at your primary place of residence?

- More than 50 years: 3
- 46-50 years: 2
- 41-45 years: 2
- 36-40 years: 4
- 31-35 years: 6
- 26-30 years: 8
- 21-25 years: 11
- 16-20 years: 11
- 11-15 years: 11
- 6-10 years: 17
- 5 years or less: 24
- Don't know: 1

Percent (n=9212)

Mean = 17.56
Median = 15
8. **Has lived at his/her primary place of residence for more than the median number of years**

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Has spent time viewing or watching deer around home in the past 12 months (p < 0.001).
4. Does not indicate having a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).
5. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p < 0.05).

4. **Considers deer damage to plants and landscaping in their yard as a 9 or 10** (p < 0.001).
5. Rates concern about tick-borne diseases in PA as a 9 or 10 (p < 0.001).
6. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
7. Rates concern about deer droppings in their yard as a 9 or a 10 (p < 0.001).
8. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
9. Does not indicate using Facebook (including not using any social media) (p < 0.001).
10. Considers the deer population in his/her area to be too high (p < 0.001).
11. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p < 0.05).
12. Does not strongly or moderately support lethal methods to manage deer populations in PA (p < 0.001).
13. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.05).
14. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
15. Does not strongly or moderately support reducing deer populations in PA (p < 0.05).
16. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.05).

5. **Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months** (p < 0.001).
6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
7. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p < 0.001).
8. Rates concern about the health of the deer population in PA as a 9 or 10 (p < 0.001).
9. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
10. Does not indicate using Facebook (including not using any social media) (p < 0.001).
11. Is more than median age (p < 0.001).
12. Primary place of residence is not a single-family home (p < 0.001).
13. Has the median number or fewer people living in his/her household (p < 0.001).
14. Does not consider place of residence to be an urban or suburban area (p < 0.001).
15. Lives in WMU 1B (p < 0.01).
16. Lives in WMU 2C (p < 0.01).
17. Lives in WMU 3D (p < 0.05).
18. Lives in WMU 4C (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

8. Has lived at his/her primary place of residence for the median number of years or less

<p>| | |</p>
<table>
<thead>
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<th></th>
<th></th>
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<tbody>
<tr>
<td>1.</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>2.</td>
<td>Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
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<td>3.</td>
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</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.05).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.05).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>7.</td>
<td>Uses social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>7.</td>
<td>Uses Facebook (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Is the median age or younger (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is a single-family home (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Has more than median number of people living in his/her household (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5A (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5C (p &lt; 0.001).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5B (p &lt; 0.01).</td>
</tr>
<tr>
<td>8.</td>
<td>Lives in WMU 5D (p &lt; 0.01).</td>
</tr>
<tr>
<td>8.</td>
<td>Is male (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q97. What is the total number of people, any age, living in your household, including yourself?

- More than 5 people: 6
- 5 people: 10
- 4 people: 24
- 3 people: 23
- 2 people: 28
- One person / lives alone: 7
- Don't know: 3

Percent (n=9212)
<table>
<thead>
<tr>
<th><strong>Overall Results</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8. Has more than median number of people living in his/her household</strong></td>
</tr>
<tr>
<td>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.01).</td>
</tr>
<tr>
<td>3. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Indicates that he/she or a family member hunts (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>3. Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports lethal methods to manage deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>6. Rates concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>7. Uses Facebook (p &lt; 0.001).</td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Is the median age or younger (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Primary place of residence is not a single-family home (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5C (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5D (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5B (p &lt; 0.01).</td>
</tr>
<tr>
<td>8. Lives in WMU 2E (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
### 8. Has the median number or fewer people living in his/her household

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.01).

2. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001).

3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p ≤ 0.001).

4. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.001).

5. Does not indicate considering himself/herself to be a hunter (p ≤ 0.001).

6. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.001).

7. Fed birds or make birdfeed available on his/her property in the past 12 months (p ≤ 0.05).

8. Does not indicate that he/she has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.05).

9. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p ≤ 0.001).

10. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001).

11. Does not strongly or moderately support lethal methods to manage deer populations in PA (p ≤ 0.001).

12. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p ≤ 0.001).

13. Rates concern about deer damage to plants and landscaping in their yard as 9 or 10 (p ≤ 0.001).

14. Rates concern about deer-vehicle accidents in PA as 9 or 10 (p ≤ 0.001).

15. Rates concern about deer droppings in their yard as 9 or 10 (p ≤ 0.01).

16. Is more than median age (p ≤ 0.001).

17. Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.001).

18. Lives in WMU 4B (p ≤ 0.001).

19. Lives in WMU 3A (p ≤ 0.05).

20. Lives in WMU 2G (p ≤ 0.05).

21. Is female (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q92. Do you consider your place of residence to be a large city or urban area, a suburban area, a small city or town, a rural area on a farm or ranch, or a rural area not on a farm or ranch?

- Large city or urban area: 12
- Suburban area: 32
- Small city or town: 24
- Rural area on a farm or ranch: 7
- Rural area not on a farm or ranch: 23
- Don't know: 1
- Refused: 1

Percent (n=9212)
<table>
<thead>
<tr>
<th>8. Considers place of residence to be an urban or suburban area</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.001).</td>
</tr>
<tr>
<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p ≤ 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Considers the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ≤ 0.01).</td>
</tr>
<tr>
<td>5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer droppings in their yard as a 9 or a 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household was in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p ≤ 0.01).</td>
</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.001).</td>
</tr>
<tr>
<td>6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p ≤ 0.01).</td>
</tr>
<tr>
<td>6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>7. Uses social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>7. Uses Facebook (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5D (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 2B (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5C (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 5B (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Is the median age or younger (p ≤ 0.001).</td>
</tr>
<tr>
<td>8. Lives in WMU 3B (p ≤ 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
### Overall Results

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>p Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.1</td>
<td>Does not consider place of residence to be an urban or suburban area</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.2</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.3</td>
<td>Indicates that he/she or a family member hunts</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.4</td>
<td>Has spent time viewing or watching deer around home in the past 12 months</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.5</td>
<td>Considers himself/herself to be a hunter</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.6</td>
<td>Has a valid 2011 PA general hunting license</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.7</td>
<td>Fed birds or make birdfeed available on his/her property in the past 12 months</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.8</td>
<td>Fed deer intentionally or put out attractants in the past 12 months</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.9</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.10</td>
<td>Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.11</td>
<td>Is very or somewhat satisfied with opportunities to view or watch deer in PA</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.12</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.13</td>
<td>Does not consider the deer population in his/her area to be too high</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.14</td>
<td>Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.15</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.16</td>
<td>Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts</td>
<td>(&lt; 0.01)</td>
</tr>
<tr>
<td>8.17</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.18</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.19</td>
<td>Does not rate concern about deer droppings in their yard as a 9 or a 10</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.20</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.21</td>
<td>Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.22</td>
<td>Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months</td>
<td>(&lt; 0.01)</td>
</tr>
<tr>
<td>8.23</td>
<td>Rates concern about the health of the deer population in PA as a 9 or 10</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.24</td>
<td>Rates concern about the quality of deer habitat in PA as a 9 or 10</td>
<td>(&lt; 0.01)</td>
</tr>
<tr>
<td>8.25</td>
<td>Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10</td>
<td>(&lt; 0.01)</td>
</tr>
<tr>
<td>8.26</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.27</td>
<td>Does not indicate using Facebook (including not using any social media)</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.28</td>
<td>Primary place of residence is not a single-family home</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.29</td>
<td>Lives in WMU 2G</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.30</td>
<td>Lives in WMU 3A</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.31</td>
<td>Lives in WMU 2E</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.32</td>
<td>Lives in WMU 4A</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.33</td>
<td>Lives in WMU 4E</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.34</td>
<td>Lives in WMU 2F</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.35</td>
<td>Lives in WMU 2D</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.36</td>
<td>Lives in WMU 2A</td>
<td>(&lt; 0.001)</td>
</tr>
<tr>
<td>8.37</td>
<td>Lives in WMU 4B</td>
<td>(&lt; 0.01)</td>
</tr>
<tr>
<td>8.38</td>
<td>Lives in WMU 1A</td>
<td>(&lt; 0.01)</td>
</tr>
<tr>
<td>8.39</td>
<td>Lives in WMU 2C</td>
<td>(&lt; 0.05)</td>
</tr>
<tr>
<td>8.40</td>
<td>Lives in WMU 4D</td>
<td>(&lt; 0.05)</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
Q57. What type of housing do you live in at your primary place of residence?

- Single family home: 82%
- Townhome / condo: 9%
- Duplex: 4%
- Apartment: 4%
- Don't know: 1%

(Percent n=9212)
8. Primary place of residence is a single-family home

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life ($p < 0.001$).
2. Does not indicate having seen deer frequently on his/her property in the past 12 months ($p < 0.001$).
3. Does not indicate having spent time viewing or watching deer around home in the past 12 months ($p < 0.001$).
4. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months ($p < 0.001$).
5. Does not indicate that he/she or any of his/her family members hunt ($p < 0.001$).
6. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months ($p < 0.001$).
7. Does not indicate having a valid 2011 PA general hunting license ($p < 0.001$).
8. Does not indicate considering himself/herself to be a hunter ($p < 0.001$).
9. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months ($p < 0.001$).
10. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA ($p < 0.001$).
11. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months ($p < 0.001$).
12. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts ($p < 0.001$).
13. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA ($p < 0.001$).
14. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA ($p < 0.001$).
15. Does not strongly or moderately support lethal methods to manage deer populations in PA ($p < 0.001$).
16. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat ($p < 0.001$).
17. Does not consider the deer population in his/her area to be too high ($p < 0.01$).
18. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA ($p < 0.01$).
19. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations ($p < 0.05$).
20. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA ($p < 0.05$).
21. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months ($p < 0.001$).
22. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA ($p < 0.001$).
23. Rates concern about deer-vehicle accidents in PA as a 9 or 10 ($p < 0.001$).
24. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months ($p < 0.01$).
25. Does not rate concern about tick-borne diseases in PA as a 9 or 10 ($p < 0.01$).
26. Does not rate concern about the health of the deer population in PA as a 9 or 10 ($p < 0.001$).
27. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 ($p < 0.05$).
28. Uses social media, such as Facebook, Twitter, or YouTube ($p < 0.001$).
29. Considers place of residence to be an urban or suburban area ($p < 0.001$).
30. Has lived at his/her primary place of residence for the median number of years or less ($p < 0.001$).
31. Lives in WMU 5D ($p < 0.001$).
32. Lives in WMU 5C ($p < 0.001$).
33. Lives in WMU 4B ($p < 0.01$).
34. Lives in WMU 2B ($p < 0.05$).

See page 9 through 11 for explanation of how to interpret z-score tables.
8. Primary place of residence is not a single-family home

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p ≤ 0.01).
2. Has seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Fed birds or make birdfeed available on his/her property in the past 12 months (p < 0.001).
4. Fed deer intentionally or put out attractants in the past 12 months (p < 0.001).
5. Indicates that he/she or a family member hunts (p < 0.001).
6. Has a valid 2011 PA general hunting license (p < 0.001).
7. Considers himself/herself to be a hunter (p < 0.001).
8. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
9. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.001).
10. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).
11. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
12. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.001).
13. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p ≤ 0.001).
14. Strongly or moderately supports lethal methods to manage deer populations in PA (p ≤ 0.001).
15. Considers the deer population in his/her area to be too high (p ≤ 0.001).
16. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p < 0.001).
17. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p < 0.001).
18. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.05).
19. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p ≤ 0.05).
20. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p < 0.001).
21. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.001).
22. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.01).
23. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.01).
24. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.01).
25. Rates concern about the health of the deer population in PA as a 9 or 10 (p < 0.01).
26. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p < 0.001).
27. Has lived at his/her primary place of residence for more than the median number of years (p < 0.001).
28. Has more than median number of people living in his/her household (p ≤ 0.001).
29. Lives in WMU 1B (p < 0.001).
30. Lives in WMU 2F (p < 0.01).
31. Lives in WMU 2E (p < 0.05).
32. Lives in WMU 2C (p < 0.05).
33. Lives in WMU 3A (p < 0.05).
34. Lives in WMU 1A (p < 0.05).
35. Lives in WMU 2G (p < 0.001).
36. Is more than median age (p ≤ 0.001).
37. Lives in WMU 2G (p < 0.001).
38. Does not consider place of residence to be an urban or suburban area (p < 0.001).

See page 9 through 11 for explanation of how to interpret z-score tables.
Q93. How many acres is your property at your primary place of residence? (Asked of those whose primary place of residence is a single family home.)

More than 100 acres: 2
51-100 acres: 2
41-50 acres: 0
31-40 acres: 1
21-30 acres: 1
11-20 acres: 2
6-10 acres: 4
5 acres: 2
4 acres: 2
3 acres: 4
2 acres: 9
1 acre: 32
Less than an acre: 34
Don't know: 5

Percent (n=8206)
Q96. Do you own your home or do you rent? (Asked of those whose primary place of residence is a single-family home.)

- Own: 92%
- Rent: 5%
- Don't know: 1%
- Refused: 1%

(Percent n=8206)
RESULTS FOR WMU 1A

Location: From Ohio/PA state line, US Rt. 6 east to US Rt. 322 at Conneaut Lake; US Rt. 322 east to PA Rt. 8 at Franklin; PA Rt. 8 south to PA Rt. 228 near Gibsonia; PA Rt. 228 west to I-76 (PA Turnpike) to I-376 near New Beaver; I-376 to Ohio River to Ohio/PA state line.

8. Lives in WMU 1A

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Is very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not Indicate that he/she or any of his/her family members hunt (p &lt; 0.01).</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.01).</td>
</tr>
<tr>
<td>3.</td>
<td>Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>3.</td>
<td>Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license (p &lt; 0.05).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.05).</td>
</tr>
<tr>
<td>4.</td>
<td>Considers the deer population in his/her area to be too high (p ≤ 0.05).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.05).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.05).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using Facebook (including not using any social media) (p ≤ 0.05).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.05).</td>
</tr>
<tr>
<td>8.</td>
<td>Does not consider place of residence to be an urban or suburban area (p &lt; 0.01).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home (p ≤ 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A large majority of residents of WMU 1A (71%) spent time viewing deer around their home in the past 12 months, and 30% took a trip of at least a mile to view deer.
  - About half of those who took a deer-viewing trip (47%) used a spotlight to view the deer at night.

- A large majority of residents of WMU 1A (75%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 9% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 71
No: 29

Percent (n=430)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 30
No: 70
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

<table>
<thead>
<tr>
<th>Yes</th>
<th>47</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>53</td>
</tr>
</tbody>
</table>

Percent (n=125)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 48
- Somewhat satisfied: 27
- Neither satisfied nor dissatisfied: 12
- Somewhat dissatisfied: 6
- Very dissatisfied: 3
- Don't know: 3
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 54% of residents of WMU 1A say with no caveats that they like having deer around, another 26% like having deer around but worry about the problems they may cause, and only 6% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 1A how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are the midpoint of “5” (23%), “0” (16%), and “10” (11%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “6” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 1A say that the herd size is just right (54%); otherwise, more say that it is too low (23%) than too high (16%).
  - Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is too high.
  - Those who consider themselves to be a hunter are much more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 54%
- I like having deer around but worry about problems they cause: 26%
- I generally regard deer as a nuisance: 6%
- I have no particular feeling about deer: 13%
- Don't know: 1%

(Percent n=430)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

- Mean = 4.61
- Median = 5

Don't know
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

<table>
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<tr>
<th>Rating</th>
<th>Frequency</th>
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<td>6</td>
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</table>

Mean = 5.78
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

<table>
<thead>
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<th>Response</th>
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<tr>
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<td>Don't know</td>
<td>7</td>
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<tr>
<td></td>
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</table>

Mean = 6.26
Median = 6

Percent (n=430)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

![Bar chart showing opinions on deer population]

- **Too high**: 5% of those who own homes and 20% of those who do not own homes.
- **Just right**: 53% of those who own homes and 57% of those who do not own homes.
- **Too low**: 17% of those who own homes and 18% of those who do not own homes.
- **Don't know**: 5% of those who own homes and 19% of those who do not own homes.
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

➢ The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 89% agree with managing for healthy and sustainable deer populations, 84% agree with managing the deer for a healthy and sustainable forest habitat, and 83% agree with managing for safe, acceptable levels of deer-human conflicts.

➢ Residents of WMU 1A who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 3.92 years. While 43% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

- Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just over half (52%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- Strongly agree: 57
- Moderately agree: 27
- Neither agree nor disagree: 4
- Moderately disagree: 2
- Strongly disagree: 6
- Don't know: 4

Categories:
- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts

Percentages:
- Healthy and sustainable forest habitat: 57%
- Healthy and sustainable deer populations: 25%
- Safe and acceptable levels of deer-human conflicts: 4%
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 0%
- 6-10 years: 5%
- 5 years: 17%
- 4 years: 6%
- 3 years: 12%
- 2 years: 8%
- 1 year: 6%
- Less than a year: 3%
- Don't know: 43%

Mean = 3.92
Median = 3
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 52%
- No: 38%
- Don't know: 9%

Percent (n=177)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- Just under two-thirds of residents of WMU 1A (63%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 25% oppose, mostly strong opposition.
  - Those residents of WMU 1A who live in a single-family home and own their home are slightly more likely to oppose lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (94% of respondents support this method), distantly followed by fertility/birth control (34%), trapping and killing (30%), and professionals or sharpshooters (28%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (18% do so) and the second regarding allowing others to hunt on their land (26% do so). In combining the results, 30% of residents of WMU 1A who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 10% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Other minor reasons are concerns about safety, a general opposition to hunting, and liability concerns.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (93%). They were then asked if there is
anything that would make them more likely to allow deer hunting; an overwhelming majority (92%) say that there is nothing that would make them more likely to allow deer hunting.

• The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, an overwhelming majority say that it is very unlikely that they would ever allow hunting.
  o Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 40%
- Moderately support: 23%
- Neither support nor oppose: 8%
- Moderately oppose: 6%
- Strongly oppose: 19%
- Don't know: 4%

(Percent (n=430))
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 75%
- Q32. Trapping and killing: 16%
- Q31. Professionals or sharpshooters: 15%
- Q33. Fertility or birth control: 19%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 94%
- Q33. Fertility or birth control: 34%
- Q32. Trapping and killing: 30%
- Q31. Professionals or sharpshooters: 28%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 4%
- Q31. Professionals or sharpshooters: 61%
- Q32. Trapping and killing: 66%
- Q33. Fertility or birth control: 52%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 3%
- Q31. Professionals or sharpshooters: 46%
- Q32. Trapping and killing: 55%
- Q33. Fertility or birth control: 40%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 30
- No: 69
- Don't know: 1

Percent (n=396)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 59%
- Live in residential neighborhood / suburban or urban area: 30%
- Concerned about safety: 7%
- Oppose hunting in general: 4%
- Liability: 4%
- Concerned about bad behavior by hunters: 1%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%
- Want to save hunting opportunities for self / family: 1%
- No one has asked for hunting access: 1%
- Not enough deer on property / not enough habitat: 1%
- Don't know: 1%

Percent (n=294)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1
- Somewhat likely: 3
- Neither likely nor unlikely: 0
- Somewhat unlikely: 2
- Very unlikely: 93
- Don't know: 1

Percent (n=294)
Q66. Is there anything that would make you more likely to allow deer hunting on your property?  
(Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Yes: 7

No: 92

Don't know: 1

Percent (n=294)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 2
- Somewhat likely: 0
- Neither likely nor unlikely: 1
- Somewhat unlikely: 2
- Very unlikely: 94
- Don’t know: 1

Lives in a single family home on 1 acre or less in an urban area, suburban area, or a small city/town (n=128)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.3), followed by three whose means are fairly close to one another: deer-vehicle accidents (6.8), the health of the deer population (6.3), and the quality of deer habitat (5.8).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.4) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.6) and deer droppings in the yard (1.7).

- Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 1A, 80% indicated that they saw deer on their property in the past 12 months, with 41% saying that they saw deer frequently.

- Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

The survey asked about specific nuisance problems with deer that residents of WMU 1A may have experienced: 12% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 19% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 2% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Crosstabulations show that those who fed birds were about the same as those who did not regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were more likely to experience deer problems, compared to those who did not indicate that neighbors had fed deer.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.3
- Q40. Deer-vehicle accidents in Pennsylvania: 6.8
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.3
- Q41. The quality of deer habitat in Pennsylvania: 5.8
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.4
- Q38. Deer damage to plants and landscaping in his/her yard: 2.6
- Q37. Deer droppings in his/her yard: 1.7
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania

Q40. Deer-vehicle accidents in Pennsylvania

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania

Q41. The quality of deer habitat in Pennsylvania

Q38. Deer damage to plants and landscaping in his/her yard

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania

Q37. Deer droppings in his/her yard
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 41
- Sometimes: 21
- Rarely: 17
- Never: 20

Percent (n=430)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 46
- Sometimes: 23
- Rarely: 18
- Never: 13

Fed birds on his/her property in the past 12 months (n=212)
Did not feed birds on his/her property in the past 12 months (n=218)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 63 (n=58)
- Sometimes: 23
- Rarely: 8
- Never: 6

- Has fed deer or put out attractants in the past 12 months (n=58)
- Has not fed deer or put out attractants in the past 12 months (n=371)
Q49. How often have you seen deer on your property in the past 12 months?

<table>
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<tr>
<th>Frequency</th>
<th>Number of Responses</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
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</tr>
<tr>
<td>Rarely</td>
<td>9</td>
</tr>
<tr>
<td>Never</td>
<td>8</td>
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</tbody>
</table>

- Is aware of neighbors feeding deer or putting out attractants in the past 12 months (n=72)  
- Is not aware of neighbors feeding deer or putting out attractants in the past 12 months (n=354)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Fed birds on his / her property in the past 12 months (n=212)

Did not feed birds on his / her property in the past 12 months (n=218)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

- Yes: 3
- No: 97

Percent (n=78)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 16% of residents of WMU 1A did this, and 15% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
- Feeding birds: 53% of residents of WMU 1A did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 50% agree that this is okay, but 37% disagree (the rest are neutral).

More than a third of residents of WMU 1A (39%) consider themselves to be a hunter, about three quarters of whom have a Pennsylvania hunting license.

- Among residents of WMU 1A who live in a single-family home, 18% personally hunt deer on their property.
- A large majority of residents of WMU 1A (76%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?
Q53. What type of feed or attractant did you use?  
(Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Salt / mineral block: 42
- Corn: 39
- Apples: 21
- Birdseed: 5
- Hay: 2
- Pellets / commercial feed: 1
- Don't know: 4

Percent (n=58)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 53%
No: 47%

Percent (n=430)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 28
- Moderately agree: 22
- Neither agree nor disagree: 10
- Moderately disagree: 11
- Strongly disagree: 26
- Don't know: 3

Percent (n=430)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

![Bar Chart]

<table>
<thead>
<tr>
<th>Response</th>
<th>Count</th>
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<tbody>
<tr>
<td>Yes</td>
<td>76</td>
</tr>
<tr>
<td>No</td>
<td>24</td>
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</table>

Percent (n=430)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 1A say that the best way to provide them with information about deer in Pennsylvania is through direct mail (45% gave this response), distantly followed by newspaper (21%), the Internet (15% saying an Internet site other than the PGC and 3% saying the agency website; note that some said both), and email (12%).

- Just over a third of residents of WMU 1A (37%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

Multiple Responses Allowed

- Direct mail: 45%
- Newspaper: 21%
- Internet / website other than PGC website: 15%
- Email: 12%
- TV: 9%
- Magazines: 8%
- Radio: 4%
- PA Game Commission website: 3%
- Brochures or pamphlets: 2%
- PA Game Commission offices: 2%
- PA Hunting and Trapping Digest: 1%
- Social media: 1%
- Public presentations: 1%
- Telephone: 1%

Percent (n=430)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

Yes: 37
No: 63

Percent (n=430)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 85
- Twitter: 3
- YouTube: 9
- Other: 2
- Don't know: 2

Percent (n=156)
RESULTS FOR WMU 1B

Location: From the New York/PA state line, US Rt. 62 south to US Rt. 6 near Warren; US Rt. 6 west to PA Rt. 27 at Pittsfield; PA Rt. 27 south to PA Rt. 8 at Titusville; PA Rt. 8 south to US Rt. 322 at Franklin; US Rt. 322 west to US Rt. 6 to Conneaut Lake; US Rt. 6 west to the Ohio/PA state line.

8. Lives in WMU 1B

1. Has seen deer frequently on his/her property in the past 12 months (p < 0.05).
2. Has used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.001).
3. Has spent time viewing or watching deer around home in the past 12 months (p < 0.01).
4. Indicates that he/she or a family member hunts (p < 0.05).
5. Has a valid 2011 PA general hunting license (p < 0.05).
6. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.01).
7. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.01).
8. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p < 0.01).
9. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.01).
10. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.05).
11. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p < 0.05).
12. Primary place of residence is not a single-family home (p < 0.001).
13. Has lived at his/her primary place of residence for more than the median number of years (p < 0.01).

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- More than two-thirds of residents of WMU 1B (70%) spent time viewing deer around their home in the past 12 months, and 27% took a trip of at least a mile to view deer.
  - About two-thirds of those who took a deer-viewing trip (65%) used a spotlight to view the deer at night.

- A majority of residents of WMU 1B (69%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 11% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

![Bar chart showing the results: 65% Yes, 35% No]
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 41
- Somewhat satisfied: 28
- Neither satisfied nor dissatisfied: 17
- Somewhat dissatisfied: 5
- Very dissatisfied: 6
- Don't know: 2

(Percent n=411)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 58% of residents of WMU 1B say with no caveats that they like having deer around, another 28% like having deer around but worry about the problems they may cause, and only 5% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 1B how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are the midpoint of “5” (21%) and “0” (14%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 1B say that the herd size is just right (56%); otherwise, more say that it is too low (26%) than too high (11%).
  - Those who own their home in WMU 1B are more likely, compared to those who do not own their home, to say that the deer population in their area is too low.
  - Those who consider themselves to be a hunter are much more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 58%
- I like having deer around but worry about problems they cause: 28%
- I generally regard deer as a nuisance: 5%
- I have no particular feeling about deer: 9%
- Don't know: 1%
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.66
Median = 5

Percent (n=411)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.98
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.15
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high:** 11
- **Just right:** 56
- **Too low:** 26
- **Don't know:** 8

Percent (n=411)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high
  - Owns home (n=361): 11
  - Does not own home (n=28): 12
- Just right
  - Owns home (n=361): 55
  - Does not own home (n=28): 63
- Too low
  - Owns home (n=361): 27
  - Does not own home (n=28): 17
- Don't know
  - Owns home (n=361): 7
  - Does not own home (n=28): 8
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

➢ The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 92% agree with managing for healthy and sustainable deer populations, 89% agree with managing the deer for a healthy and sustainable forest habitat, and 83% agree with managing for safe, acceptable levels of deer-human conflicts.

➢ Residents of WMU 1B who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 3.93 years. While 38% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

• Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: a majority (55%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- Strongly agree: 64%
- Moderately agree: 51%
- Neither agree nor disagree: 6%
- Moderately disagree: 4%
- Strongly disagree: 3%
- Don't know: 2%

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

Mean = 3.93
Median = 4
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

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</tr>
<tr>
<td>No</td>
<td>39</td>
</tr>
<tr>
<td>Don't know</td>
<td>6</td>
</tr>
</tbody>
</table>
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A large majority of residents of WMU 1B (70%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 21% oppose, mostly *strong* opposition.
  - Those residents of WMU 1B who live in a single-family home and own their home are much more likely to *strongly* support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (94% of respondents support this method), distantly followed by fertility/birth control (34%), trapping and killing (30%), and professionals or sharpshooters (28%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (21% do so) and the second regarding allowing others to hunt on their land (39% do so). In combining the results, 41% of residents of WMU 1B who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 9% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Other minor reasons are concerns about safety and a general opposition to hunting.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is *very* unlikely (89%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (96%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 46
- Moderately support: 24
- Neither support nor oppose: 7
- Moderately oppose: 6
- Strongly oppose: 15
- Don't know: 1

(Percent n=411)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 48
- Moderately support: 24
- Neither support nor oppose: 6
- Moderately oppose: 6
- Strongly oppose: 15
- Don't know: 1

OWNED HOME (n=361)

DOES NOT OWN HOME (n=28)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 75%
- Q33. Fertility or birth control: 19%
- Q32. Trapping and killing: 16%
- Q31. Professionals or sharpshooters: 15%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 94%
- Q33. Fertility or birth control: 34%
- Q32. Trapping and killing: 30%
- Q31. Professionals or sharpshooters: 28%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 4%
- Q31. Professionals or sharpshooters: 61%
- Q32. Trapping and killing: 66%
- Q33. Fertility or birth control: 52%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 3%
- **Q31. Professionals or sharpshooters**: 46%
- **Q32. Trapping and killing**: 55%
- **Q33. Fertility or birth control**: 40%
Q59/60. Deer hunts and/or allows others to deer hunt on property.
Q59/60. Deer hunts and/or allows others to deer hunt on property.

- Yes: 9 (%)
- No: 91 (%)

Lives in a single family home on 1 acre or less in an urban area, suburban area, or a small city/town (n=140)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 53%
- Live in residential neighborhood / suburban or urban area: 42%
- Concerned about safety: 9%
- Oppose hunting in general: 3%
- Not enough deer on property / not enough habitat: 3%
- Live on rented property: 2%
- Want to save hunting opportunities for self / family: 1%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%
- No one has asked for hunting access: 1%
- Don't know: 2%

Multiple Responses Allowed

Percent (n=233)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 2
- Somewhat likely: 5
- Somewhat unlikely: 2
- Very unlikely: 89
- Don't know: 2

Percent (n=233)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 1
- Somewhat unlikely: 2
- Very unlikely: 95
- Don't know: 2

Lives in a single family home on 1 acre or less in an urban area, suburban area, or a small city/town (n=129)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 6.9), followed by three whose means are fairly close to one another: deer-vehicle accidents (6.6), the health of the deer population (6.2), and the quality of deer habitat (6.0).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.5) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.3) and deer droppings in the yard (1.1).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 1B, 73% indicated that they saw deer on their property in the past 12 months.
- Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

The survey asked about specific nuisance problems with deer that residents of WMU 1B may have experienced: 9% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 19% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 1% indicated that they or a household member had been diagnosed with a tick-borne disease.
- Crosstabulations show that those who fed birds were about the same as those who did not regarding nuisance deer, but those who were aware of neighbors feeding deer or putting out attractants, compared to those who did not indicate that neighbors fed deer or put out attractants, were more likely to experience deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 6.9
- Q40. Deer-vehicle accidents in Pennsylvania: 6.6
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.2
- Q41. The quality of deer habitat in Pennsylvania: 6.0
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.5
- Q38. Deer damage to plants and landscaping in his/her yard: 2.3
- Q37. Deer droppings in his/her yard: 1.1
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania
  - Percent: 39
- Q40. Deer-vehicle accidents in Pennsylvania
  - Percent: 34
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
  - Percent: 24
- Q41. The quality of deer habitat in Pennsylvania
  - Percent: 16
- Q38. Deer damage to plants and landscaping in his/her yard
  - Percent: 7
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania
  - Percent: 4
- Q37. Deer droppings in his/her yard
  - Percent: 3
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 37
- Sometimes: 19
- Rarely: 17
- Never: 27
Q49. How often have you seen deer on your property in the past 12 months?
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 69 people
- Sometimes: 33 people
- Rarely: 12 people
- Never: 30 people

- Has fed deer or put out attractants in the past 12 months (n=50)
- Has not fed deer or put out attractants in the past 12 months (n=361)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 65
- Sometimes: 18
- Rarely: 2
- Never: 29

Is aware of neighbors feeding deer or putting out attractants in the past 12 months (n=65)

Is not aware of neighbors feeding deer or putting out attractants in the past 12 months (n=340)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 11% of residents of WMU 1B did this, and 15% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are corn, salt/mineral blocks, and apples.
- Feeding birds: 59% of residents of WMU 1B did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 53% agree that this is okay, but 35% disagree (the rest are neutral).

More than a third of residents of WMU 1B (36%) consider themselves to be a hunter, the majority of whom have a Pennsylvania hunting license.

- Among residents of WMU 1B who live in a single-family home, 21% personally hunt deer on their property.
- A large majority of residents of WMU 1B (85%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes 11

No 89

Percent (n=411)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 15
- No: 83
- Don't know: 2

Percent (n=411)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 45%
- Salt / mineral block: 41%
- Apples: 22%
- Other food products: 8%
- Pellets / commercial feed: 7%
- Horse feed: 3%
- Other: 1%

Multiple Responses Allowed

Percent (n=50)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 27
- Moderately agree: 26
- Neither agree nor disagree: 10
- Moderately disagree: 10
- Strongly disagree: 25
- Don't know: 3

Percent (n=411)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes: 21
No: 79

Percent (n=389)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?
SOURCES OF INFORMATION

- Most commonly, residents of WMU 1B say that the best way to provide them with information about deer in Pennsylvania is through direct mail (46% gave this response), followed by newspaper (23%), email (15%), the Internet (11% saying an Internet site other than the PGC and 3% saying the agency website; note that some said both).

- Just about two-fifths of residents of WMU 1B (42%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania?

- Direct mail: 46%
- Newspaper: 23%
- Email: 15%
- Internet / website other than PGC website: 11%
- TV: 11%
- Magazines: 6%
- Brochures or pamphlets: 4%
- PA Game Commission website: 3%
- Radio: 2%
- PA Game Commission offices: 1%
- Telephone: 1%
- Public presentations: 1%
- PA Hunting and Trapping Digest: 1%
- Social media: 1%
- Other: 1%
- Don't know: 5%
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 42
- No: 57
- Don't know: 1
Q85. Which social media site do you use most often? (Asked of those who use social media.)

Facebook: 92
YouTube: 5
Twitter: 1
Other: 1

Percent (n=164)
RESULTS FOR WMU 2A

Location: From the Ohio/PA state line, the Ohio River east to I-376 near Vanport; I-376 east to US Rt. 22 near Moon Run; US Rt. 22 west to PA Rt. 980 near Santiago; PA Rt. 980 south to I-79 to I-70 at Washington; I-70 east to US Rt. 119 near New Stanton; US Rt. 119 south to the West Virginia/PA state line.

8. Lives in WMU 2A

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.05).
2. Has seen deer frequently on his/her property in the past 12 months (p ≤ 0.001).
3. Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.001).
4. Indicates that he/she or a family member hunts (p < 0.05).
5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p ≤ 0.001).
6. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p < 0.001).
7. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.001).
8. Does not consider place of residence to be an urban or suburban area (p ≤ 0.001).

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A large majority of residents of WMU 2A (81%) spent time viewing deer around their home in the past 12 months, and 29% took a trip of at least a mile to view deer.
  - About two-fifths of those who took a deer-viewing trip (42%) used a spotlight to view the deer at night.

- A large majority of residents of WMU 2A (78%) are satisfied with opportunities to view deer in Pennsylvania; only 7% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- Yes: 81
- No: 19

Percent (n=415)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- Yes: 29
- No: 71

(Percent n=415)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 42%
No: 58%

Percent (n=122)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 51
- Somewhat satisfied: 27
- Neither satisfied nor dissatisfied: 11
- Somewhat dissatisfied: 4
- Very dissatisfied: 3
- Don't know: 4

(Percent n=415)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 48% of residents of WMU 2A say with no caveats that they like having deer around, another 30% like having deer around but worry about the problems they may cause, and only 7% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 2A how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are “0” (22%), the midpoint of “5” (19%), and “10” (14%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania. The ratings of the latter are mostly concentrated in the upper end of the scale.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 2A say that the herd size is just right (56%); otherwise, more say that it is too high (25%) than too low (13%).
  - Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is just right or too low; they are less likely to say that the deer population is too high.
  - Those who consider themselves to be a hunter are much more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 48%
- I like having deer around but worry about problems they cause: 30%
- I generally regard deer as a nuisance: 7%
- I have no particular feeling about deer: 15%
- Don't know: 1%

Percent (n=415)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.47  
Median = 5

Don't know
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.84
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.47
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 25
- Just right: 56
- Too low: 13
- Don't know: 7

Percent (n=415)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 25% (Owns home: 43%, Does not own home: 46%)
- Just right: 56% (Owns home: 46%, Does not own home: 46%)
- Too low: 15% (Owns home: 2%, Does not own home: 9%)
- Don't know: 4% (Owns home: 4%, Does not own home: 9%)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 28% (58 in 260), 19% (19 in 154)
- Just right: 58% (50 in 260), 0% (0 in 154)
- Too low: 9% (5 in 260), 27% (27 in 154)
- Don't know: 9% (3 in 260), 3% (3 in 154)

Consider themselves a hunter (n=154)
Do not consider themselves a hunter (n=260)
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 94% agree with managing for healthy and sustainable deer populations, 91% agree with managing the deer for a healthy and sustainable forest habitat, and 83% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 2A who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.00 years. While 34% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: a majority (56%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- Strongly agree: 61% (64 people)
- Moderately agree: 30% (30 people)
- Neither agree nor disagree: 2% (4 people)
- Moderately disagree: 2% (1 person)
- Strongly disagree: 2% (3 people)
- Don't know: 2% (2 people)

Responses:

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

![Bar chart showing distribution of responses to Q18.]

- More than 10 years: 1
- 6-10 years: 8
- 5 years: 22
- 4 years: 4
- 3 years: 10
- 2 years: 9
- 1 year: 9
- Less than a year: 3
- Don't know: 34

Mean = 4.00
Median = 4

(n=162)
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

Yes: 56
No: 37
Don't know: 7

Percent (n=162)
A majority of residents of WMU 2A (62%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 31% oppose, mostly strong opposition.

- Those residents of WMU 2A who live in a single-family home and own their home are more likely to support lethal methods, compared to those who live in a single-family home but do not own their home.
- The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (90% of respondents support this method), distantly followed by fertility/birth control (36%), professionals or sharpshooters (29%), and trapping and killing (25%).

Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (24% do so) and the second regarding allowing others to hunt on their land (33% do so). In combining the results, 38% of residents of WMU 2A who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).

- There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 3% either hunt on their own property or allow others to hunt on the property.
- Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in a residential area in which hunting is not possible or feasible. Other minor reasons are concerns about safety, liability concerns, and a general opposition to hunting.
- Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; a very large percentage say this is very unlikely (87%). They were then asked if there is anything
that would make them more likely to allow deer hunting; a very large percentage (96%) say that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, 96% say that they would be very unlikely to ever allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 39
- Moderately support: 23
- Neither support nor oppose: 4
- Moderately oppose: 11
- Strongly oppose: 20
- Don't know: 3

(Percent (n=415))
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

![Bar chart showing responses to Q27.]

- Strongly support: 39% (35% Owns home, 21% Does not own home)
- Moderately support: 21% (7% Owns home, 9% Does not own home)
- Neither support nor oppose: 4% (4% Owns home, 9% Does not own home)
- Moderately oppose: 10% (10% Owns home, 41% Does not own home)
- Strongly oppose: 23% (8% Owns home, 23% Does not own home)
- Don't know: 3% (3% Owns home, 0% Does not own home)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 74%
- Q31. Professionals or sharpshooters: 12%
- Q32. Trapping and killing: 12%
- Q33. Fertility or birth control: 20%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 90%
- Q31. Professionals or sharpshooters: 29%
- Q32. Trapping and killing: 25%
- Q33. Fertility or birth control: 36%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 69%
- Q31. Professionals or sharpshooters: 65%
- Q33. Fertility or birth control: 53%
- Q30. Legal, regulated hunting: 8%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 4%
- Q31. Professionals or sharpshooters: 51%
- Q32. Trapping and killing: 53%
- Q33. Fertility or birth control: 40%
Q59/60. Deer hunts and/or allows others to deer hunt on property.

Yes: 38

No: 62

Percent (n=381)
Q59/60. Deer hunts and/or allows others to deer hunt on property.

- Yes: 3
- No: 97

Lives in a single-family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=105)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 50% (n=255)
- Live in residential neighborhood / suburban or urban area: 35%
- Concerned about safety: 16%
- Liability: 5%
- Oppose hunting in general: 4%
- Want to save hunting opportunities for self / family: 2%
- No one has asked for hunting access: 1%
- Not enough deer on property / not enough habitat: 1%
- Concerned about bad behavior by hunters: 1%
- Privacy concerns: 1%

Multiple Responses Allowed
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

![Bar chart showing responses to Q65.]

- Very likely: 2
- Somewhat likely: 3
- Neither likely nor unlikely: 1
- Somewhat unlikely: 6
- Very unlikely: 87
- Don't know: 1

Percent (n=255)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Yes: 3
- No: 96
- Don't know: 1

Percent (n=255)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Very likely: 3
Somewhat likely: 0
Neither likely nor unlikely: 1
Somewhat unlikely: 0
Very unlikely: 96
Don't know: 1

Lives in a single-family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=101)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for deer-vehicle accidents (mean rating of 7.5) and tick-borne diseases (7.2), followed by two more whose means are just under those top two: the health of the deer population (6.5) and the quality of deer habitat (5.8).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.6) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (3.0) and deer droppings in the yard (1.9).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 2A, 87% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

The survey asked about specific nuisance problems with deer that residents of WMU 2A may have experienced: 15% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 23% indicated that they or another household member had been in a vehicle collision with a deer (respondents report that almost 1 in 10 of these accidents caused an injury to the driver and/or a passenger); and 1% indicated that they or a household member had been diagnosed with a tick-borne disease.

- A crosstabulation shows that those who fed birds and those who did not were about the same regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were about twice as likely to experience deer problems, compared to those who did not say that they were aware of neighbors doing this.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

**Q40. Deer-vehicle accidents in Pennsylvania**
Mean: 7.5

**Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania**
Mean: 7.2

**Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania**
Mean: 6.5

**Q41. The quality of deer habitat in Pennsylvania**
Mean: 5.8

**Q39. Deer impacts on the habitat and other wildlife in Pennsylvania**
Mean: 3.6

**Q38. Deer damage to plants and landscaping in his/her yard**
Mean: 3.0

**Q37. Deer droppings in his/her yard**
Mean: 1.9
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q40. Deer-vehicle accidents in Pennsylvania: 47%
- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 43%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 26%
- Q41. The quality of deer habitat in Pennsylvania: 19%
- Q38. Deer damage to plants and landscaping in his/her yard: 9%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 7%
- Q37. Deer droppings in his/her yard: 6%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 60
- Sometimes: 15
- Rarely: 11
- Never: 12
- Don't know: 1

Percent (n=415)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 68
- Sometimes: 16
- Rarely: 9
- Never: 6
- Don't know: 1

Fed birds on his / her property in the past 12 months (n=199)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 81
- Sometimes: 10
- Rarely: 8
- Never: 1
- Don't know: 2

Percent

- Has fed deer or put out attractants in the past 12 months (n=75)
- Has not fed deer or put out attractants in the past 12 months (n=340)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 71
- Sometimes: 15
- Rarely: 8
- Never: 7
- Don't know: 1

- Is aware of neighbors feeding deer or putting out attractants in the past 12 months (n=95)
- Is not aware of neighbors feeding deer or putting out attractants in the past 12 months (n=310)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Yes: 24
No: 88

- Is aware of neighbors feeding deer or putting out attractants in the past 12 months (n=95)
- Is not aware of neighbors feeding deer or putting out attractants in the past 12 months (n=310)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

Yes: 23%
No: 77%

Percent (n=415)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes 9

No 91
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 18% of residents of WMU 2A did this, and 23% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are corn, salt/mineral blocks, and apples.
- Feeding birds: 49% of residents of WMU 2A did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 56% agree that this is okay, but 36% disagree (the rest are neutral).

A little more than a quarter of residents of WMU 2A (37%) consider themselves to be a hunter, about two-thirds of whom have a Pennsylvania hunting license.

- Among residents of WMU 2A who live in a single-family home, 24% personally hunt deer on their property.
- A large majority of residents of WMU 2A (85%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 18
No: 82

Percent (n=415)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 23
- No: 73
- Don't know: 3

Percent (n=415)
Q53. What type of feed or attractant did you use?  
(Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 51% 
- Salt / mineral block: 49% 
- Apples: 22% 
- Birdseed: 12% 
- Other food products: 3% 
- Bread: 3% 
- Pellets / commercial feed: 2% 
- Horse feed: 1% 
- Hay: 1%

Multiple Responses Allowed
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

- Yes: 49%
- No: 50%
- Don't know: 1%

Percent (n=415)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 30
- Moderately agree: 26
- Neither agree nor disagree: 6
- Moderately disagree: 13
- Strongly disagree: 23
- Don't know: 2

Percent (n=415)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes: 24
No: 76

Percent (n=381)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes: 85%
No: 15%
Don't know: 1%
SOURCES OF INFORMATION

- Most commonly, residents of WMU 2A say that the best way to provide them with information about deer in Pennsylvania is through direct mail (47% gave this response), followed by newspaper (19%), the Internet (12% saying an Internet site other than the PGC and 2% saying the agency website; note that some said both) and email (12%).

- A little more than a third of residents of WMU 2A (39%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania?

- Direct mail: 47%
- Newspaper: 19%
- Internet / website other than PGC website: 12%
- Email: 12%
- TV: 9%
- Telephone: 5%
- Brochures or pamphlets: 4%
- Social media: 3%
- Radio: 2%
- PA Game Commission website: 2%
- PA Hunting and Trapping Digest: 1%
- Magazines: 1%
- Public presentations: 1%
- PA Game Commission offices: 1%
- Other: 2%
- Don’t know: 10%

Multiple Responses Allowed

Percent (n=415)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

Percent (n=415)

Yes

No
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 84%
- Twitter: 5%
- YouTube: 10%
- Don't know: Less than 1%
RESULTS FOR WMU 2B

Location: From Washington, I-79 north to PA Rt. 980 near Canonsburg; PA Rt. 980 north to US Rt. 22 near Santiago; US Rt. 22 east to I-376 near Moon Run; I-376 west to I-76 near New Beaver; I-76 east to PA Rt. 228 at Cranberry to PA Rt. 356 near Sarver to PA Rt. 66 near North Washington; Toll Road Rt. 66 south to US Rt. 119 south to I-70 near New Stanton; I-70 west to I-79 at Washington.
Pennsylvania Residents’ Opinions on and Attitudes Toward Deer and Deer Management

Results for WMU 2B

<table>
<thead>
<tr>
<th>8. Lives in WMU 2B</th>
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<tbody>
<tr>
<td>2. Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
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<tr>
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</tr>
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<td>3. Does not indicate considering himself/herself to be a hunter (p &lt; 0.05).</td>
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<tr>
<td>3. Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>4. Considers the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<tr>
<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<tr>
<td>5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
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<td>5. Rates concern about deer droppings in their yard as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Primary place of residence is a single-family home (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- Just over two-thirds of residents of WMU 2B (68%) spent time viewing deer around their home in the past 12 months, and 16% took a trip of at least a mile to view deer.
  - About a fifth of those who took a deer-viewing trip (22%) used a spotlight to view the deer at night.

- A majority of residents of WMU 2B (72%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 9% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

<table>
<thead>
<tr>
<th>Answer</th>
<th>Percent (n=429)</th>
</tr>
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<tbody>
<tr>
<td>Yes</td>
<td>68</td>
</tr>
<tr>
<td>No</td>
<td>32</td>
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</table>
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- Yes: 16
- No: 84

Percent (n=429)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 22%
No: 78%
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

<table>
<thead>
<tr>
<th>Satisfaction Level</th>
<th>Percent (n=429)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very satisfied</td>
<td>46</td>
</tr>
<tr>
<td>Somewhat satisfied</td>
<td>26</td>
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<tr>
<td>Neither satisfied nor dissatisfied</td>
<td>17</td>
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<tr>
<td>Somewhat dissatisfied</td>
<td>3</td>
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<tr>
<td>Very dissatisfied</td>
<td>6</td>
</tr>
<tr>
<td>Don't know</td>
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</table>
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

Opinion on deer is mostly favorable: 41% of residents of WMU 2B say with no caveats that they like having deer around, another 34% like having deer around but worry about the problems they may cause, and only 8% generally regard them as a nuisance. The remainder have no particular feeling about deer.

Another question asked residents of WMU 2B how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are the midpoint of “5” (20%) and “0” (18%). In general, ratings are well spread across the scale.

Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “6” for the health of the deer population in Pennsylvania.

The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 2B say that the herd size is just right (52%); otherwise, more say that it is too high (32%) than too low (9%).

- Those who own their home are about the same as those who do not own their home regarding their feelings about the deer population in their area.
- Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 41
- I like having deer around but worry about problems they cause: 34
- I generally regard deer as a nuisance: 8
- I have no particular feeling about deer: 16
- Don't know: 1

Percent (n=429)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Don't know

Percent (n=429)

Mean = 4.16
Median = 5
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.93
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Percent (n=429)

Mean = 6.04
Median = 6
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 32
- Just right: 52
- Too low: 9
- Don't know: 7

Percent (n=429)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high**: 34 (Owns home), 35 (Does not own home)
- **Just right**: 54 (Owns home), 47 (Does not own home)
- **Too low**: 7 (Owns home), 11 (Does not own home)
- **Don't know**: 4 (Owns home), 6 (Does not own home)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 91% agree with managing for healthy and sustainable deer populations, 91% agree with managing the deer for a healthy and sustainable forest habitat, and 86% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 2B who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 5.04 years. While 32% said that they do not know, a large portion of the remainder gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: a majority (56%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 5%
- 6-10 years: 6%
- 5 years: 26%
- 4 years: 3%
- 3 years: 8%
- 2 years: 12%
- 1 year: 6%
- Less than a year: 2%
- Don't know: 32%

Mean = 5.04
Median = 5
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

Yes: 56
No: 39
Don't know: 5

Percent (n=172)
A large majority of residents of WMU 2B (66%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 29% oppose, mostly strong opposition.

- Those residents of WMU 2B who live in a single-family home and own their home are less likely to strongly support lethal methods, compared to those who live in a single-family home but do not own their home.
- The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (89% of respondents support this method), distantly followed by fertility/birth control (54%), professionals or sharpshooters (44%), and trapping and killing (26%).

Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (5% do so) and the second regarding allowing others to hunt on their land (10% do so). In combining the results, 12% of residents of WMU 2B who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).

- There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 5% either hunt on their own property or allow others to hunt on the property.
- Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are concerns about safety, a general opposition to hunting, and liability concerns.
- Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (96%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (98%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 42
- Moderately support: 24
- Neither support nor oppose: 4
- Moderately oppose: 9
- Strongly oppose: 20
- Don't know: 1

Percent (n=429)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 41 (56%)
- Moderately support: 18 (25%)
- Neither support nor oppose: 4 (5.6%)
- Moderately oppose: 10 (13.8%)
- Strongly oppose: 19 (26.1%)
- Don't know: 0 (0%)

[Graph showing the distribution of responses for those who own homes (n=355) and do not own homes (n=19).]
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 74%
- Q33. Fertility or birth control: 33%
- Q31. Professionals or sharpshooters: 24%
- Q32. Trapping and killing: 15%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 89%
- **Q33. Fertility or birth control**: 54%
- **Q31. Professionals or sharpshooters**: 44%
- **Q32. Trapping and killing**: 26%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 9%
- **Q31. Professionals or sharpshooters**: 49%
- **Q32. Trapping and killing**: 71%
- **Q33. Fertility or birth control**: 37%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 57%
- Q31. Professionals or sharpshooters: 37%
- Q33. Fertility or birth control: 30%
- Q30. Legal, regulated hunting: 7%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=245)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 49%
- Property is too small / neighbors too close: 47%
- Concerned about safety: 11%
- Oppose hunting in general: 6%
- Liability: 3%
- No one has asked for hunting access: 1%

Multiple Responses Allowed

Percent (n=334)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Very likely: 2
Somewhat likely: 1
Somewhat unlikely: 1
Very unlikely: 96

Percent (n=334)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Yes 2

No 98

Percent (n=334)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 2
- Somewhat likely: 1
- Somewhat unlikely: 0
- Very unlikely: 97

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=235)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for deer-vehicle accidents (mean rating of 7.6) and tick-borne diseases (7.5), followed by two more whose means are just under those top two: the health of the deer population (6.0) and the quality of deer habitat (5.9).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (4.2) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (3.6) and deer droppings in the yard (2.6).
    - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 2B, 80% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were about the same as those who did not in their likelihood to see deer. Respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants were more likely to see deer than were those who did not feed deer or were not aware of neighbors doing so.

- The survey asked about specific nuisance problems with deer that residents of WMU 2B may have experienced: 19% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 16% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a low portion of drivers/passengers were injured); and 1% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were slightly more likely to have experienced deer problems. Likewise, those who were aware of neighbors feeding deer or putting out attractants, compared to those who were not, were much more likely to experience deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q40. Deer-vehicle accidents in Pennsylvania: 7.6
- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.5
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.0
- Q41. The quality of deer habitat in Pennsylvania: 5.9
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 4.2
- Q38. Deer damage to plants and landscaping in his/her yard: 3.6
- Q37. Deer droppings in his/her yard: 2.6
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q40. Deer-vehicle accidents in Pennsylvania: 46%
- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 45%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 19%
- Q41. The quality of deer habitat in Pennsylvania: 17%
- Q38. Deer damage to plants and landscaping in his/her yard: 16%
- Q37. Deer droppings in his/her yard: 10%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 7%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 38
- Sometimes: 18
- Rarely: 24
- Never: 20

Percent (n=429)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 40
- Sometimes: 20
- Rarely: 22
- Never: 18

Fed birds on his/her property in the past 12 months (n=170)
Did not feed birds on his/her property in the past 12 months (n=259)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 73
- Sometimes: 35
- Rarely: 18
- Never: 22

Has fed deer or put out attractants in the past 12 months (n=36)
Has not fed deer or put out attractants in the past 12 months (n=392)
Q49. How often have you seen deer on your property in the past 12 months?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Yes: 19
No: 81
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes: 8
No: 92

Percent (n=67)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

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<th>Yes</th>
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<tbody>
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<td>99</td>
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</table>

Percent (n=429)
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 8% of residents of WMU 2B did this, and 12% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
  - Feeding birds: 38% of residents of WMU 2B did this.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 41% agree that this is okay, but 51% disagree (the rest are neutral).

- More than a quarter of residents of WMU 2B (28%) consider themselves to be a hunter, about two-thirds of whom have a Pennsylvania hunting license.
  - Among residents of WMU 2B who live in a single-family home, 5% personally hunt deer on their property.
  - A large majority of residents of WMU 2B (72%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

- Yes: 8
- No: 92

Percent (n=429)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

Yes: 12
No: 86
Don't know: 2

Percent (n=429)
**Q53. What type of feed or attractant did you use?**
*(Asked of those who fed deer intentionally or put out attractants in the past 12 months.)*

- Salt / mineral block: 38%
- Corn: 31%
- Apples: 27%
- Birdseed: 7%
- Bread: 7%
- Hay: 5%
- Pellets / commercial feed: 3%
- Other food products: 2%
- Non-consumable attractants: 2%

Multiple Responses Allowed

Percent (n=36)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 38
No: 62

Percent (n=429)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 19
- Moderately agree: 22
- Neither agree nor disagree: 7
- Moderately disagree: 18
- Strongly disagree: 33
- Don't know: 2

Percent (n=429)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes 5

No 95

Percent (n=374)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

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<th>Response</th>
<th>Count</th>
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<td>Yes</td>
<td>72</td>
<td>17%</td>
</tr>
<tr>
<td>No</td>
<td>27</td>
<td>6%</td>
</tr>
<tr>
<td>Don't know</td>
<td>&lt;1%</td>
<td>Less than 1%</td>
</tr>
</tbody>
</table>
SOURCES OF INFORMATION

- Most commonly, residents of WMU 2B say that the best way to provide them with information about deer in Pennsylvania is through direct mail (36% gave this response), followed by newspaper (20%), the Internet (16% saying an Internet site other than the PGC and 4% saying the agency website; note that some said both), TV (15%), and email (14%).

- Just over two-fifths of residents of WMU 2B (42%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Direct mail: 36
- Newspaper: 20
- Internet / website other than PGC website: 16
- TV: 15
- Email: 14
- Magazines: 5
- Telephone: 5
- PA Game Commission website: 4
- Radio: 3
- Brochures or pamphlets: 2
- Public presentations: 1
- Social media: 1
- PA Game Commission offices: 1
- PA Hunting and Trapping Digest: 1
- Don’t know: 9

Multiple Responses Allowed

Percent (n=429)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

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<th>Don't know</th>
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<tbody>
<tr>
<td>Percent (n=429)</td>
<td>42</td>
<td>58</td>
<td>1</td>
</tr>
</tbody>
</table>

0 20 40 60 80 100

Percent (n=429)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 88%
- YouTube: 5%
- Twitter: 3%
- Other: 1%
- Don’t know: 3%

(By WMU 2B, n=168)
RESULTS FOR WMU 2C

Location: From the West Virginia/PA state line, US Rt. 119 north to Toll Road Rt. 66 near New Stanton; Toll Road Rt. 66 north to US Rt. 22 near Delmont; US Rt. 22 east to US Rt. 119 to US Rt. 422 near Indiana; US Rt. 422 east to US Rt. 22 near Ebensburg; US Rt. 219 just west of Ebensburg to US Rt. 22 and 422; US Rt. 22 east to I-99 near Hollidaysburg; I-99 south to US Rt. 220 near Bedford; US Rt. 220 south to the Maryland/PA state line.

8. Lives in WMU 2C

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<table>
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<tbody>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p ≤ 0.05).</td>
</tr>
<tr>
<td>3.</td>
<td>Is very or somewhat satisfied with opportunities to view or watch deer in PA (p ≤ 0.05).</td>
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<tr>
<td>3.</td>
<td>Indicates that he/she or a family member hunts (p ≤ 0.05).</td>
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<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p ≤ 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support lethal methods to manage deer populations in PA (p ≤ 0.01).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p ≤ 0.001).</td>
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<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.01).</td>
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<tr>
<td>5.</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.05).</td>
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<tr>
<td>6.</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 (p ≤ 0.01).</td>
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<tr>
<td>7.</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube (p ≤ 0.05).</td>
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<tr>
<td>8.</td>
<td>Has lived at his/her primary place of residence for more than the median number of years (p ≤ 0.01).</td>
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<td>8.</td>
<td>Does not consider place of residence to be an urban or suburban area (p ≤ 0.05).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home (p ≤ 0.05).</td>
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See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- Just more than two-thirds of residents of WMU 2C (68%) spent time viewing deer around their home in the past 12 months, and 32% took a trip of at least a mile to view deer.
  - Two-fifths of those who took a deer-viewing trip (40%) used a spotlight to view the deer at night.

- A majority of residents of WMU 2C (75%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 11% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 68%
No: 31%
Don't know: Less than 1%

Percent (n=411)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 32%
No: 68%
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 40
No: 60

Percent (n=131)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 50
- Somewhat satisfied: 25
- Neither satisfied nor dissatisfied: 11
- Somewhat dissatisfied: 7
- Very dissatisfied: 4
- Don't know: 3

Percent (n=411)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 58% of residents of WMU 2C say with no caveats that they like having deer around, another 21% like having deer around but worry about the problems they may cause, and only 4% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 2C how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are the midpoint of “5” (20%), “0” (18%), and “10” (12%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “5” for the quality of deer habitat in Pennsylvania and “5” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. Half of residents of WMU 2C say that the herd size is just right (50%); otherwise, more say that it is too low (26%) than too high (13%).
  - Those who own their home are about the same as those who do not own their home regarding the deer population in their area.
  - Those who consider themselves to be a hunter are much more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 58
- I like having deer around but worry about problems they cause: 21
- I generally regard deer as a nuisance: 4
- I have no particular feeling about deer: 16
- Don't know: 1

Percent (n=411)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.57
Median = 5

Percent (n=411)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.55
Median = 5
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.77
Median = 5

Don't know
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 13
- Just right: 50
- Too low: 26
- Don't know: 10

Percent (n=411)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high
  - Consider themselves a hunter (n=119)
  - Do not consider themselves a hunter (n=292)

- Just right
  - Consider themselves a hunter (n=119)
  - Do not consider themselves a hunter (n=292)

- Too low
  - Consider themselves a hunter (n=119)
  - Do not consider themselves a hunter (n=292)

- Don’t know

Percent
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 87% agree with managing for healthy and sustainable deer populations, 84% agree with managing the deer for a healthy and sustainable forest habitat, and 75% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 2C who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.08 years. While 27% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just less than a majority (45%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**: 54% agreed, 30% moderately agreed, 7% neither agreed nor disagreed, 9% moderately disagreed, 5% strongly disagreed, 6% don't know.
- **Moderately agree**: 48% agreed, 29% moderately agreed, 6% neither agreed nor disagreed, 7% moderately disagreed, 5% strongly disagreed, 2% don't know.
- **Neither agree nor disagree**: 5% agreed, 4% moderately agreed, 6% neither agreed nor disagreed, 7% moderately disagreed, 5% strongly disagreed, 3% don't know.
- **Moderately disagree**: 4% agreed, 2% moderately agreed, 7% neither agreed nor disagreed, 2% moderately disagreed, 5% strongly disagreed, 1% don't know.
- **Strongly disagree**: 5% agreed, 5% moderately agreed, 9% neither agreed nor disagreed, 9% moderately disagreed, 5% strongly disagreed, 2% don't know.
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

Mean = 4.08
Median = 4

More than 10 years: 0
6-10 years: 7
5 years: 27
4 years: 3
3 years: 12
2 years: 18
1 year: 6
Don't know: 27
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 45 percent
- No: 51 percent
- Don't know: 3 percent

(Percent n=169)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A majority of residents of WMU 2C (58%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 33% oppose, mostly strong opposition.
  - Those residents of WMU 2C who live in a single-family home and own their home are more likely to support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (90% of respondents support this method), distantly followed by fertility/birth control (34%), professionals or sharpshooters (29%), and trapping and killing (24%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (14% do so) and the second regarding allowing others to hunt on their land (19% do so). In combining the results, 23% of residents of WMU 2C who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 7% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are concerns about safety and a general opposition to hunting.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (93%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (97%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 36
- Moderately support: 22
- Neither support nor oppose: 8
- Moderately oppose: 8
- Strongly oppose: 25
- Don't know: 2

Percent (n=411)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

![Bar chart showing the distribution of responses to Q27.

- Strongly support: 37%
- Moderately support: 21%
- Neither support nor oppose: 18%
- Moderately oppose: 22%
- Strongly oppose: 26%
- Don't know: 3%]

- Owns home (n=358)
- Does not own home (n=21)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 73%
- Q33. Fertility or birth control: 18%
- Q31. Professionals or sharpshooters: 16%
- Q32. Trapping and killing: 13%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 90%
- Q33. Fertility or birth control: 34%
- Q31. Professionals or sharpshooters: 29%
- Q32. Trapping and killing: 24%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 68%
- Q31. Professionals or sharpshooters: 63%
- Q33. Fertility or birth control: 55%
- Q30. Legal, regulated hunting: 9%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 6%
- Q31. Professionals or sharpshooters: 47%
- Q32. Trapping and killing: 58%
- Q33. Fertility or birth control: 44%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 7
- No: 93

Percent

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=161)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 50%
- Property is too small / neighbors too close: 49%
- Concerned about safety: 9%
- Oppose hunting in general: 5%
- Not enough deer on property / not enough habitat: 4%
- Want to save hunting opportunities for self / family: 2%
- Liability: 1%

Multiple Responses Allowed

Percent (n=309)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1
- Somewhat likely: 2
- Neither likely nor unlikely: 1
- Somewhat unlikely: 1
- Very unlikely: 93
- Don't know: 1

Percent (n=309)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Yes: 3

No: 97

Don't know: Less than 1%

Percent (n=309)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

![Bar chart showing the distribution of responses to Q65.](chart.png)

- **Very likely**: 2
- **Somewhat likely**: 1
- **Neither likely nor unlikely**: 0
- **Somewhat unlikely**: 0
- **Very unlikely**: 97

**Note:** Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=155)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.1) and deer-vehicle accidents (6.7), followed by two more whose means are just under those top two: the health of the deer population (5.8) and the quality of deer habitat (5.6).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.2) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.2) and deer droppings in the yard (1.3).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 2C, 74% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

The survey asked about specific nuisance problems with deer that residents of WMU 2C may have experienced: 9% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 21% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 1% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Crosstabulations show that those who fed birds were slightly less likely to have experienced deer problems (compared to those who did not feed birds), and those who were aware of neighbors feeding deer or putting out attractants were about the same regarding experiencing deer problems as those who were not aware.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.1
- Q40. Deer-vehicle accidents in Pennsylvania: 6.7
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 5.8
- Q41. The quality of deer habitat in Pennsylvania: 5.6
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.2
- Q38. Deer damage to plants and landscaping in his/her yard: 2.2
- Q37. Deer droppings in his/her yard: 1.3
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 40%
- Q40. Deer-vehicle accidents in Pennsylvania: 32%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 17%
- Q41. The quality of deer habitat in Pennsylvania: 16%
- Q38. Deer damage to plants and landscaping in his/her yard: 6%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 4%
- Q37. Deer droppings in his/her yard: 3%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 35%
- Sometimes: 21%
- Rarely: 19%
- Never: 26%

(Percent n=411)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 40 (30), 22
- Sometimes: 22 (20), 15
- Rarely: 22, 23
- Never: 28

Fed birds on his/her property in the past 12 months (n=192)
Did not feed birds on his/her property in the past 12 months (n=219)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 59
- Sometimes: 34
- Rarely: 6
- Never: 1

Has fed deer or put out attractants in the past 12 months (n=50)
Has not fed deer or put out attractants in the past 12 months (n=361)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 52 (31), 31 (31)
- Sometimes: 33 (18), 18 (18)
- Rarely: 11 (20), 20 (20)
- Never: 4 (31), 31 (31)

Key:
- □ Is aware of neighbors feeding deer or putting out attractants (n=57)
- ■ Is not aware of neighbors feeding deer or putting out attractants (n=343)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 9
- No: 91

Percent (n=411)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Fed birds on his/her property in the past 12 months (n=192)

Did not feed birds on his/her property in the past 12 months (n=219)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 10 (10%)
- No: 90 (91%)

- Is aware of neighbors feeding deer or putting out attractants (n=57)
- Is not aware of neighbors feeding deer or putting out attractants (n=343)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

Yes: 21%
No: 79%

(Percent \( n=411 \))
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

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<th>Percent (n=77)</th>
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<tr>
<td>Yes</td>
<td>5</td>
</tr>
<tr>
<td>No</td>
<td>95</td>
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</table>
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 12% of residents of WMU 2C did this, and 16% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are corn, salt/mineral blocks, and apples.
- Feeding birds: 48% of residents of WMU 2C did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 55% agree that this is okay, but 35% disagree (the rest are neutral).

More than a quarter of residents of WMU 2C (29%) consider themselves to be a hunter, about three-fourths of whom have a Pennsylvania hunting license.

- Among residents of WMU 2C who live in a single-family home, 14% personally hunt deer on their property.
- A large majority of residents of WMU 2C (85%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

- Yes: 12
- No: 88

Percent (n=411)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- **Yes**: 16
- **No**: 82
- **Don't know**: 2

Percent (n=411)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 53%
- Salt / mineral block: 38%
- Apples: 25%
- Birdseed: 8%
- Pellets / commercial feed: 4%
- Other food products: 3%
- Hay: 2%
- Horse feed: 1%

Multiple Responses Allowed

Percent (n=50)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 48
No: 52

Percent (n=411)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 30
- Moderately agree: 25
- Neither agree nor disagree: 7
- Moderately disagree: 11
- Strongly disagree: 24
- Don't know: 2

(Percent (n=411))
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

- Yes: 14
- No: 86

Percent (n=379)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes: 85%
No: 15%

Percent (n=411)
SOURCES OF INFORMATION

➤ Most commonly, residents of WMU 2C say that the best way to provide them with information about deer in Pennsylvania is through direct mail (45% gave this response), followed by newspaper (19%), email (11%), TV (11%), and the Internet (10% saying an Internet site other than the PGC and 3% saying the agency website; note that some said both).

➤ More than a third of residents of WMU 2C (38%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

<table>
<thead>
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<th>38</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>62</td>
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</table>

Percent (n=411)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 90
- YouTube: 7
- Twitter: 3

Percent (n=166)
RESULTS FOR WMU 2D

Location: From Franklin, US Rt. 322 east to I-80 near Corsica; I-80 east to US Rt. 219 near DuBois; US Rt. 219 south to US Rt. 119 near DuBois; US Rt. 119 south to US Rt. 22 near Black Lick; US Rt. 22 west to PA Rt. 66 near Delmont; PA Rt. 66 north to PA Rt. 356 to PA Rt. 228 near Sarver; PA Rt. 228 west to PA Rt. 8 near Gibsonia; PA Rt. 8 north to US Rt. 322 at Franklin.

8. Lives in WMU 2D

2. Has seen deer frequently on his/her property in the past 12 months (p < 0.01).
3. Has spent time viewing or watching deer around home in the past 12 months (p < 0.001).
3. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
4. Considers the deer population in his/her area to be too high (p < 0.001).
4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.001).
4. Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA (p < 0.001).
4. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.01).
4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.01).
4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.05).
4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p < 0.05).
5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.001).
5. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p < 0.001).
5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.01).
5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p < 0.05).
5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.05).
8. Does not consider place of residence to be an urban or suburban area (p < 0.001).

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A large majority of residents of WMU 2D (72%) spent time viewing deer around their home in the past 12 months, and 31% took a trip of at least a mile to view deer.
  - About two-fifths of those who took a deer-viewing trip (41%) used a spotlight to view the deer at night.

- A majority of residents of WMU 2D (77%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 8% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 72%
No: 28%

Percent (n=405)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 31
No: 69

Percent (n=405)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 41
No: 59

Percent (n=131)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 47%
- Somewhat satisfied: 30%
- Neither satisfied nor dissatisfied: 10%
- Somewhat dissatisfied: 3%
- Very dissatisfied: 5%
- Don't know: 4%

Percent (n=405)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

➢ Opinion on deer is mostly favorable: 55% of residents of WMU 2D say with no caveats that they like having deer around, another 26% like having deer around but worry about the problems they may cause, and only 4% generally regard them as a nuisance. The remainder have no particular feeling about deer.

➢ Another question asked residents of WMU 2D how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are “0” (16%) and the midpoint of “5” (14%). In general, ratings are well spread across the scale.

➢ Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “5” for the quality of deer habitat in Pennsylvania and “6” for the health of the deer population in Pennsylvania.

➢ The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 2D say that the herd size is just right (52%); otherwise, slightly more say that it is too high (23%) than too low (19%).

   • Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is too high.

   • Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 55%
- I like having deer around but worry about problems they cause: 26%
- I generally regard deer as a nuisance: 4%
- I have no particular feeling about deer: 15%

Percent (n=405)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.37
Median = 5

Don't know = 2

Percent (n=405)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.43
Median = 5

Don't know
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.91
Median = 6
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

Too high: 23
Just right: 52
Too low: 19
Don't know: 7

Percent (n=405)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high:**
  - Owns home (n=339): 22%
  - Does not own home (n=28): 6%

- **Just right:**
  - Owns home (n=339): 53%
  - Does not own home (n=28): 19%

- **Too low:**
  - Owns home (n=339): 20%
  - Does not own home (n=28): 25%

- **Don't know:**
  - Owns home (n=339): 5%
  - Does not own home (n=28): 19%

Percentages are based on survey responses from residents of WMU 2D.
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 14 (Consider themselves a hunter (n=151))
- Just right: 27 (Consider themselves a hunter (n=151)), 42 (Do not consider themselves a hunter (n=254))
- Too low: 7 (Consider themselves a hunter (n=151))
- Don't know: 8 (Consider themselves a hunter (n=151))

Percent
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 89% agree with managing the deer for a healthy and sustainable forest habitat, 88% agree with managing for healthy and sustainable deer populations, and 89% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 2D who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.16 years. While 40% said that they do not know, all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just less than a majority (47%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- Strongly agree: 59%
- Moderately agree: 30%
- Neither agree nor disagree: 23%
- Moderately disagree: 4%
- Strongly disagree: 3%
- Don't know: 2%

Wealthy and sustainable forest habitat
Healthy and sustainable deer populations
Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- 6-10 years: 8
- 5 years: 18
- 4 years: 5
- 3 years: 10
- 2 years: 13
- 1 year: 5
- Less than a year: 1
- Don't know: 40

Mean = 4.16
Median = 4
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

Yes 47
No 49
Don't know 4

Percent (n=171)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A majority of residents of WMU 2D (71%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 20% oppose, mostly strong opposition.
  - Those residents of WMU 2D who live in a single-family home and own their home are not markedly different from those who live in a single-family home but do not own their home regarding support or opposition to lethal methods for managing deer.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (94% of respondents support this method), distantly followed by professionals or sharpshooters (37%), fertility/birth control (34%), and trapping and killing (31%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (16% do so) and the second regarding allowing others to hunt on their land (24% do so). In combining the results, 29% of residents of WMU 2D who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 3% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Other minor reasons are concerns about safety and a general opposition to hunting.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (92%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (98%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that it is unlikely that they would allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 47
- Moderately support: 24
- Neither support nor oppose: 5
- Moderately oppose: 4
- Strongly oppose: 16
- Don’t know: 4

(Percent (n=405))
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- **Strongly support:**
  - Owns home: 50%
  - Does not own home: 40%

- **Moderately support:**
  - Owns home: 23%
  - Does not own home: 25%

- **Neither support nor oppose:**
  - Owns home: 4%
  - Does not own home: 11%

- **Moderately oppose:**
  - Owns home: 4%
  - Does not own home: 7%

- **Strongly oppose:**
  - Owns home: 17%
  - Does not own home: 12%

- **Don't know:**
  - Owns home: 3%
  - Does not own home: 1%
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 79%
- Q31. Professionals or sharpshooters: 20%
- Q32. Trapping and killing: 14%
- Q33. Fertility or birth control: 19%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 94%
- **Q31. Professionals or sharpshooters**: 37%
- **Q33. Fertility or birth control**: 34%
- **Q32. Trapping and killing**: 31%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- **Q32. Trapping and killing**: 61%
- **Q31. Professionals or sharpshooters**: 56%
- **Q33. Fertility or birth control**: 52%
- **Q30. Legal, regulated hunting**: 5%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 3%
- Q31. Professionals or sharpshooters: 41%
- Q32. Trapping and killing: 49%
- Q33. Fertility or birth control: 43%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

No 97
Yes 3
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 65%
- Live in residential neighborhood / suburban or urban area: 43%
- Concerned about safety: 9%
- Oppose hunting in general: 3%
- Liability: 2%
- Want to save hunting opportunities for self / family: 1%
- Live on rented property: 1%

Percent (n=280)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 2
- Somewhat likely: 2
- Neither likely nor unlikely: 0
- Somewhat unlikely: 3
- Very unlikely: 92
- Don’t know: 2

Percent (n=280)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 0
- Neither likely nor unlikely: 0
- Somewhat unlikely: 2
- Very unlikely: 96
- Don't know: 1

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=141)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.9) and deer-vehicle accidents (6.9), followed by two more whose means are just under those top two: the health of the deer population (5.9) and the quality of deer habitat (5.4).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.5) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.5) and deer droppings in the yard (1.5).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 2D, 81% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 2D may have experienced: 16% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 20% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 8% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were nearly identical regarding experiencing deer problems to those who do not feed birds. However, those who were aware of neighbors feeding deer or putting out attractants were more likely to experience deer problems than those who were not aware of neighbors doing this.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania
- Q40. Deer-vehicle accidents in Pennsylvania
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
- Q41. The quality of deer habitat in Pennsylvania
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania
- Q38. Deer damage to plants and landscaping in his/her yard
- Q37. Deer droppings in his/her yard

Mean ratings:
- Q36: 7.9
- Q40: 6.9
- Q42: 5.9
- Q41: 5.4
- Q39: 3.5
- Q38: 2.5
- Q37: 1.5
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 55%
- Q40. Deer-vehicle accidents in Pennsylvania: 39%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 21%
- Q41. The quality of deer habitat in Pennsylvania: 16%
- Q38. Deer damage to plants and landscaping in his/her yard: 10%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 7%
- Q37. Deer droppings in his/her yard: 6%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 37
- Sometimes: 22
- Rarely: 22
- Never: 19

Percent (n=405)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 42% (Fed birds on his/her property in the past 12 months, n=195)
- Sometimes: 26% (Fed birds on his/her property in the past 12 months, n=195)
- Rarely: 23% (Fed birds on his/her property in the past 12 months, n=210)
- Never: 10% (Fed birds on his/her property in the past 12 months, n=210)
- Did not feed birds on his/her property in the past 12 months (n=210)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 63
- Sometimes: 19
- Rarely: 15
- Never: 3

Has fed deer or put out attractants in the past 12 months (n=47)

Has not fed deer or put out attractants in the past 12 months (n=356)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 64
- Sometimes: 20
- Rarely: 12
- Never: 4

Is aware of neighbors feeding deer or putting out attractants (n=72)
Is not aware of neighbors feeding deer or putting out attractants (n=325)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 20
- No: 86

- Is aware of neighbors feeding deer or putting out attractants (n=72)
- Is not aware of neighbors feeding deer or putting out attractants (n=325)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 20
- No: 80

Percent (n=405)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes: 1
No: 99

Percent (n=89)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 12% of residents of WMU 2D did this, and 19% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents are corn, salt/mineral blocks, and apples.
  - Feeding birds: 49% of residents of WMU 2D did this.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 49% agree that this is okay, but 37% disagree (the rest are neutral).

- More than a third of residents of WMU 2D (35%) consider themselves to be a hunter, about four-fifths of whom have a Pennsylvania hunting license.
  - Among residents of WMU 2D who live in a single-family home, 16% personally hunt deer on their property.
  - A large majority of residents of WMU 2D (83%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes 12
No 88

Percent (n=405)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

Yes: 19
No: 79
Don't know: 2

Percent (n=405)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 60
- Salt / mineral block: 55
- Apples: 10
- Birdseed: 1
- Don’t know: 1

Multiple Responses Allowed

Percent (n=47)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 49

No: 51

Percent (n=405)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 26
- Moderately agree: 23
- Neither agree nor disagree: 12
- Moderately disagree: 15
- Strongly disagree: 22
- Don't know: 1

Percent (n=405)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

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<td>16</td>
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Q79. Do you, any of your family members, or any friends hunt any wildlife species?

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Percent (n=405)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 2D say that the best way to provide them with information about deer in Pennsylvania is through direct mail (38% gave this response), followed by newspaper (20%), email (17%), and the Internet (13% saying an Internet site other than the PGC and 3% saying the agency website; note that some said both).

- More than two-fifths of residents of WMU 2D (43%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Direct mail: 38%
- Newspaper: 20%
- Email: 17%
- Internet / website other than PGC website: 13%
- TV: 10%
- Brochures or pamphlets: 4%
- Magazines: 3%
- PA Game Commission website: 3%
- PA Hunting and Trapping Digest: 3%
- PA Game Commission offices: 1%
- Telephone: 1%
- Radio: 1%
- Public presentations: 1%
- Social media: 1%
- Don’t know: 12%

Multiple Responses Allowed

Percent (n=405)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 43
- No: 56
- Don't know: 1

Percent (n=405)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 84
- YouTube: 12
- Twitter: 3
- Don't know: 1
RESULTS FOR WMU 2E

Location: From near DuBois, I-80 east to PA Rt. 53 near Klyertown; PA Rt. 53 south to US Rt. 22 near Cresson; US Rt. 22 west to US Rt. 422 near Ebensburg; US Rt. 422 west to US Rt. 119 near Indiana; US Rt. 119 north to US Rt. 219 near DuBois; US Rt. 219 north to I-80 near DuBois.

8. Lives in WMU 2E

1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.01).
3. Indicates that he/she or a family member hunts (p < 0.001).
3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
3. Has a valid 2011 PA general hunting license (p < 0.001).
3. Considers himself/herself to be a hunter (p < 0.01).
3. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.05).
4. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.01).
4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.05).
5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p < 0.001).
5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p < 0.001).
5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.01).
7. Uses Facebook (p < 0.001).
7. Uses social media, such as Facebook, Twitter, or YouTube (p ≤ 0.001).
8. Does not consider place of residence to be an urban or suburban area (p < 0.001).
8. Primary place of residence is not a single-family home (p ≤ 0.05).
8. Has more than median number of people living in his/her household (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- Two-thirds of residents of WMU 2E (66%) spent time viewing deer around their home in the past 12 months, and 39% took a trip of at least a mile to view deer.
  - Just under half of those who took a deer-viewing trip (44%) used a spotlight to view the deer at night.

- A majority of residents of WMU 2E (74%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 10% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- Yes: 66%
- No: 34%

(Percent, n=406)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Percent (n=406)

Yes: 39
No: 61
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 43
- Somewhat satisfied: 31
- Neither satisfied nor dissatisfied: 13
- Somewhat dissatisfied: 3
- Very dissatisfied: 7
- Don't know: 2

Percent (n=406)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 59% of residents of WMU 2E say with no caveats that they like having deer around, another 21% like having deer around but worry about the problems they may cause, and only 5% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 2E how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are “0” (18%) and the midpoint of “5” (18%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania. The ratings of the latter are mostly concentrated in the upper end of the scale.

- The survey asked about the perceived size of the deer herd in the respondent’s area. Just under half of residents of WMU 2E say that the herd size is just right (48%); otherwise, many more say that it is too low (31%) than too high (13%).
  - Those who own their home are less likely, compared to those who do not own their home, to say that the deer population in their area is just right; they are more likely to say that the deer population is either too high or too low.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 59%
- I like having deer around but worry about problems they cause: 21%
- I generally regard deer as a nuisance: 5%
- I have no particular feeling about deer: 14%
- Don't know: 1%

(Percentage based on n=406 respondents.)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.67
Median = 5

Don't know
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

- **Mean = 5.58**
- **Median = 6**

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Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.14
Median = 7

Don't know
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 13
- Just right: 48
- Too low: 31
- Don't know: 8

Percent (n=406)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 14
- Just right: 44
- Too low: 35
- Don't know: 6

For those who own a home (n=343):
- Too high: 8
- Just right: 66
- Too low: 19
- Don't know: 7

For those who do not own a home (n=33):
- Too high: 14
- Just right: 44
- Too low: 35
- Don't know: 6
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high:
  - Consider themselves a hunter (n=184): 5
  - Do not consider themselves a hunter (n=220): 18

- Just right:
  - Consider themselves a hunter (n=184): 36
  - Do not consider themselves a hunter (n=220): 55

- Too low:
  - Consider themselves a hunter (n=184): 55
  - Do not consider themselves a hunter (n=220): 16

- Don't know:
  - Consider themselves a hunter (n=184): 4
  - Do not consider themselves a hunter (n=220): 10
**OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS**

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 93% agree with managing for healthy and sustainable deer populations, 86% agree with managing the deer for a healthy and sustainable forest habitat, and 80% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 2E who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.41 years. While 40% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: somewhat less than a majority (39%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**: 57% (n=67), 52% (n=52)
- **Moderately agree**: 29 (n=26), 28 (n=28)
- **Neither agree nor disagree**: 2 (n=1), 5 (n=5)
- **Moderately disagree**: 4 (n=1), 4 (n=4)
- **Strongly disagree**: 5 (n=3), 10 (n=10)
- **Don't know**: 4 (n=1), 2 (n=2)

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 0
- 6-10 years: 5
- 5 years: 28
- 4 years: 6
- 3 years: 10
- 2 years: 8
- 1 year: 1
- Less than a year: 1
- Don't know: 40

Mean = 4.41
Median = 5
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

Yes 39
No 50
Don't know 11

Percent (n=191)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A large majority of residents of WMU 2E (71%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 20% oppose, mostly strong opposition.
  - Those residents of WMU 2E who live in a single-family home and own their home are less likely to support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (93% of respondents support this method), distantly followed by professionals or sharpshooters (31%), fertility/birth control (30%), and trapping and killing (26%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (18% do so) and the second regarding allowing others to hunt on their land (33% do so). In combining the results, 34% of residents of WMU 2E who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 2% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Other minor reasons are concerns about safety, liability concerns, and a general opposition to hunting.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (96%). They were then asked if there is
anything that would make them more likely to allow deer hunting; an overwhelming majority (96%) say that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 54%
- Moderately support: 17%
- Neither support nor oppose: 7%
- Moderately oppose: 6%
- Strongly oppose: 14%
- Don't know: 2%

Percent (n=406)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 57 (26.2%)
- Moderately support: 24 (11.2%)
- Neither support nor oppose: 13 (6.2%)
- Moderately oppose: 6 (2.8%)
- Strongly oppose: 12 (5.6%)
- Don’t know: 1 (0.5%)

Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 81%
- Q33. Fertility or birth control: 19%
- Q31. Professionals or sharpshooters: 18%
- Q32. Trapping and killing: 16%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 93%
- Q31. Professionals or sharpshooters: 31%
- Q33. Fertility or birth control: 30%
- Q32. Trapping and killing: 26%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 6%
- Q31. Professionals or sharpshooters: 65%
- Q32. Trapping and killing: 71%
- Q33. Fertility or birth control: 58%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

Q30. Legal, regulated hunting

Q31. Professionals or sharpshooters

Q32. Trapping and killing

Q33. Fertility or birth control

Percent
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=107)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 58%
- Live in residential neighborhood / suburban or urban area: 47%
- Concerned about safety: 9%
- Liability: 6%
- Oppose hunting in general: 6%
- No one has asked for hunting access: 2%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%
- Concerned about bad behavior by hunters: 1%
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? 
(Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Yes  4

No  96

Percent (n=235)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely
- Somewhat likely
- Neither likely nor unlikely
- Somewhat unlikely
- Very unlikely

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=103)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.6), followed by three whose means are fairly close to one another: deer-vehicle accidents (6.2), the health of the deer population (6.1), and the quality of deer habitat (5.6).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.2) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.0) and deer droppings in the yard (1.3).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 2E, 75% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were about the same regarding seeing deer, compared to those who did not feed birds. However, those who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants were more likely to see deer, compared to their counterparts.

The survey asked about specific nuisance problems with deer that residents of WMU 2E may have experienced: 11% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 23% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 9% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Crosstabulations show that those who fed birds were slightly less likely to have experienced deer problems, compared to those who had not fed birds. On the other hand, those who were aware of neighbors feeding deer or putting out attractants were more likely to experience deer problems than were those not aware.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.6
- Q40. Deer-vehicle accidents in Pennsylvania: 6.2
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.1
- Q41. The quality of deer habitat in Pennsylvania: 5.6
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.2
- Q38. Deer damage to plants and landscaping in his/her yard: 2.0
- Q37. Deer droppings in his/her yard: 1.3
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 51%
- Q40. Deer-vehicle accidents in Pennsylvania: 34%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 25%
- Q41. The quality of deer habitat in Pennsylvania: 15%
- Q38. Deer damage to plants and landscaping in his/her yard: 8%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 5%
- Q37. Deer droppings in his/her yard: 4%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 34
- Sometimes: 19
- Rarely: 22
- Never: 25

(Percent n=406)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: Fed birds on his/her property in the past 12 months (n=206), Did not feed birds on his/her property in the past 12 months (n=199)
- Sometimes: Fed birds on his/her property in the past 12 months (n=18), Did not feed birds on his/her property in the past 12 months (n=22)
- Rarely: Fed birds on his/her property in the past 12 months (n=22), Did not feed birds on his/her property in the past 12 months (n=22)
- Never: Fed birds on his/her property in the past 12 months (n=27), Did not feed birds on his/her property in the past 12 months (n=24)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 29 responses
- Sometimes: 18 responses
- Rarely: 6 responses
- Never: 29 responses

Has fed deer or put out attractants in the past 12 months (n=76)
Has not fed deer or put out attractants in the past 12 months (n=329)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 29 (60%)
- Sometimes: 25 (25%)
- Rarely: 24 (11%)
- Never: 29 (13%)

- Is aware of neighbors feeding deer or putting out attractants (n=63)
- Is not aware of neighbors feeding deer or putting out attractants (n=334)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 23%
- No: 77%
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes | 4
No  | 96

Percent (n=98)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

Yes  9

No  91

Percent (n=406)
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 15% of residents of WMU 2E did this, and 15% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents are corn, salt/mineral blocks, and apples.
  - Feeding birds: 51% of residents of WMU 2E did this.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 54% agree that this is okay, but 36% disagree (the rest are neutral).

- More than a third of residents of WMU 2E (39%) consider themselves to be a hunter, most of whom have a Pennsylvania hunting license.
  - Among residents of WMU 2E who live in a single-family home, 18% personally hunt deer on their property.
  - A large majority of residents of WMU 2E (91%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes 15

No 85

Percent (n=406)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 15
- No: 83
- Don't know: 2
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 65%
- Salt / mineral block: 50%
- Apples: 16%
- Other food products: 4%
- Horse feed: 4%
- Food plot: 3%
- Pellets / commercial feed: 3%
- Birdseed: 2%
- Bread: 2%
- Non-consumable attractants: 1%

Multiple Responses Allowed

Percent (n=76)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

- Yes: 51
- No: 48
- Don't know: Less than 1%
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

![Bar chart showing the distribution of responses: Strongly agree (26), Moderately agree (28), Neither agree nor disagree (9), Moderately disagree (11), Strongly disagree (25), and Don't know (1).]
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes

No

Percent (n=376)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes: 91%
No: 9%

Percent (n=406)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 2E say that the best way to provide them with information about deer in Pennsylvania is through direct mail (39% gave this response), followed by email (17%), the Internet (14% saying an Internet site other than the PGC and 6% saying the agency website; note that some said both), newspapers (13%), and TV (13%).

- Just more than half of residents of WMU 2E (53%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

Multiple Responses Allowed

- Direct mail: 39%
- Email: 17%
- Internet / website other than PGC website: 14%
- Newspaper: 13%
- TV: 12%
- PA Game Commission website: 6%
- Magazines: 6%
- PA Game Commission offices: 4%
- PA Hunting and Trapping Digest: 3%
- Brochures or pamphlets: 3%
- Radio: 2%
- Public presentations: 2%
- Social media: 1%
- Other: 5%
- Don't know: 5%
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

Yes: 53
No: 47

Percent (n=406)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 93
- Twitter: 3
- YouTube: 3

Percent (n=191)
RESULTS FOR WMU 2F

Location: From the New York/PA state line, US Rt. 219 south to I-80 near DuBois; I-80 west to US Rt. 322 near Corsica; US Rt. 322 west to PA Rt. 8 at Franklin; PA Rt. 8 north to PA Rt. 27 at Titusville; PA Rt. 27 north to US Rt. 6 at Pittsfield; US Rt. 6 east to US Rt. 62 near Warren; US Rt. 62 north to the New York/PA state line.

8. Lives in WMU 2F

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<tr>
<td>8. Indicates that he/she or a family member hunts (p &lt; 0.001).</td>
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<tr>
<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3. Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3. Has a valid 2011 PA general hunting license (p &lt; 0.01).</td>
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<tr>
<td>3. Considers himself/herself to be a hunter (p &lt; 0.01).</td>
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<td>4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<td>4. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<td>4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<td>4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.05).</td>
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<td>5. Indicates that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p &lt; 0.001).</td>
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<td>6. Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.05).</td>
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<td>7. Uses Facebook (p &lt; 0.05).</td>
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<td>8. Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
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<tr>
<td>8. Primary place of residence is not a single-family home (p &lt; 0.01).</td>
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See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A large majority of residents of WMU 2F (71%) spent time viewing deer around their home in the past 12 months, and 37% took a trip of at least a mile to view deer.
  - Just under half of those who took a deer-viewing trip (44%) used a spotlight to view the deer at night.

- A majority of residents of WMU 2F (69%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 20% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- Yes: 71%
- No: 29%

Percent (n=405)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 37
No: 63
Percent (n=405)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 44%
No: 56%
Percent (n=181)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 41
- Somewhat satisfied: 28
- Neither satisfied nor dissatisfied: 7
- Somewhat dissatisfied: 10
- Very dissatisfied: 10
- Don't know: 4

Percent (n=405)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND
HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 66% of residents of WMU 2F say with no caveats that they like having deer around, another 20% like having deer around but worry about the problems they may cause, and only 3% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 2F how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are the midpoint of “5” (22%) and “0” (15%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “7” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The most common answer among residents of WMU 2F is that the deer population in their area is too low (42%), closely followed by that the deer population is just right (39%); only 10% say it is too high.
  - Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is too high.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- **I like having deer around**: 66
- **I like having deer around but worry about problems they cause**: 20
- **I generally regard deer as a nuisance**: 3
- **I have no particular feeling about deer**: 11

Percent (n=405)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

- 10: 9
- 9: 4
- 8: 11
- 7: 6
- 6: 5
- 5: 22
- 4: 4
- 3: 9
- 2: 7
- 1: 5
- 0: 15

Don't know: 3

Mean = 4.70
Median = 5
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.01
Median = 7
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.16
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 10
- Just right: 39
- Too low: 42
- Don't know: 10

Percent (n=405)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 11 (own home), 4 (does not own home)
- Just right: 37 (own home), 31 (does not own home)
- Too low: 42 (own home), 31 (does not own home)
- Don’t know: 10 (own home), 7 (does not own home)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 95% agree with managing for healthy and sustainable deer populations, 88% agree with managing the deer for a healthy and sustainable forest habitat, and 78% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 2F who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.21 years. While 36% said that they do not know, nearly all of the remainder gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: somewhat less than a majority (43%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- Strongly agree: 57% (n=70)
- Moderately agree: 43% (n=35)
- Neither agree nor disagree: 31% (n=25)
- Moderately disagree: 7% (n=3)
- Strongly disagree: 2% (n=2)
- Don't know: 1% (n=1)

Options:
- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts

Percent (n=405)
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

More than 10 years

6-10 years

5 years

4 years

3 years

2 years

1 year

Less than a year

Don't know

Mean = 4.21
Median = 4
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

Yes: 43
No: 51
Don't know: 6

Percent (n=216)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A majority of residents of WMU 2F (63%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 26% oppose, mostly strong opposition.
  - Those residents of WMU 2F who live in a single-family home and own their home are less likely to strongly support lethal methods but more likely to moderately support so that overall support is about the same, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (96% of respondents support this method), distantly followed by fertility/birth control (27%), trapping and killing (26%), and professionals or sharpshooters (23%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (15% do so) and the second regarding allowing others to hunt on their land (24% do so). In combining the results, 27% of residents of WMU 2F who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 5% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are a concerns about safety and liability concerns.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (94%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (97%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 39
- Moderately support: 24
- Neither support nor oppose: 8
- Moderately oppose: 9
- Strongly oppose: 17
- Don't know: 4

(Percent n=405)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support (38%)
- Moderately support (24%)
- Neither support nor oppose (9%)
- Moderately oppose (9%)
- Strongly oppose (17%)
- Don't know (3%)

The chart shows the distribution of responses by homeownership status:

- Owns home (n=342)
- Does not own home (n=29)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 80%
- Q31. Professionals or sharpshooters: 13%
- Q32. Trapping and killing: 11%
- Q33. Fertility or birth control: 11%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting
- Q31. Professionals or sharpshooters
- Q32. Trapping and killing
- Q33. Fertility or birth control

Percent

0 20 40 60 80 100

0 20 40 60 80 100

0 20 40 60 80 100

0 20 40 60 80 100

Q30: 96%
Q31: 23%
Q32: 26%
Q33: 27%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

Q30. Legal, regulated hunting: 3%

Q31. Professionals or sharpshooters: 69%

Q32. Trapping and killing: 68%

Q33. Fertility or birth control: 63%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 2%
- Q31. Professionals or sharpshooters: 53%
- Q32. Trapping and killing: 55%
- Q33. Fertility or birth control: 49%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes: 27
No: 73

Percent (n=371)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Multiple Responses Allowed

- Live in residential neighborhood / suburban or urban area: 57%
- Property is too small / neighbors too close: 51%
- Concerned about safety: 6%
- Liability: 3%
- Oppose hunting in general: 2%
- Want to save hunting opportunities for self / family: 1%
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent (n=283)</th>
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<tr>
<td>Yes</td>
<td>2</td>
</tr>
<tr>
<td>No</td>
<td>97</td>
</tr>
<tr>
<td>Don't know</td>
<td>1</td>
</tr>
</tbody>
</table>
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

![Bar chart showing the percentage of people who would allow others to deer hunt on their property. The chart indicates that 98% would not allow others to deer hunt on their property.]

- Very likely
- Somewhat likely
- Neither likely nor unlikely
- Somewhat unlikely
- Very unlikely

| Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=152) | 98% |
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.1), followed by three whose means are fairly close to one another: deer-vehicle accidents (6.2), the health of the deer population (6.2), and the quality of deer habitat (6.0).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.3) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.2) and deer droppings in the yard (1.4).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 2F, 73% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were more likely to indicate seeing deer, and respondents who fed deer/put out attractants or were aware of neighbors who fed deer or put out attractants were much more likely to see deer.

The survey asked about specific nuisance problems with deer that residents of WMU 2F may have experienced: 11% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 23% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 3% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Crosstabulations show that those who fed birds, compared to those who did not, were about the same regarding experiencing deer problems. Likewise, those who were aware of neighbors feeding deer or putting out attractants were about the same as their counterparts in experiencing deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.1
- Q40. Deer-vehicle accidents in Pennsylvania: 6.2
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.2
- Q41. The quality of deer habitat in Pennsylvania: 6.0
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.3
- Q38. Deer damage to plants and landscaping in his/her yard: 2.2
- Q37. Deer droppings in his/her yard: 1.4
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 39%
- Q40. Deer-vehicle accidents in Pennsylvania: 29%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 24%
- Q41. The quality of deer habitat in Pennsylvania: 14%
- Q38. Deer damage to plants and landscaping in his/her yard: 7%
- Q37. Deer droppings in his/her yard: 6%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 5%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 36
- Sometimes: 21
- Rarely: 16
- Never: 27

Percent (n=405)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 37% (Fed birds on his/her property in the past 12 months, N=212)
- Sometimes: 23% (Fed birds on his/her property in the past 12 months, N=18)
- Rarely: 14% (Fed birds on his/her property in the past 12 months, N=19)
- Never: 25% (Fed birds on his/her property in the past 12 months, N=30)

- Never: 30% (Did not feed birds on his/her property in the past 12 months, N=193)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 62
- Sometimes: 31
- Rarely: 11
- Never: 30

- Has fed deer or put out attractants in the past 12 months (n=59)
- Has not fed deer or put out attractants in the past 12 months (n=346)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 53
- Sometimes: 32
- Rarely: 11
- Never: 9

Is aware of neighbors feeding deer or putting out attractants (n=66)
Is not aware of neighbors feeding deer or putting out attractants (n=338)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 8
- No: 92

Bar chart showing:
- 8% is aware of neighbors feeding deer or putting out attractants (n=66)
- 92% is not aware of neighbors feeding deer or putting out attractants (n=338)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 23%
- No: 77%

Percent (n=405)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

<table>
<thead>
<tr>
<th></th>
<th>Percent (n=82)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>4</td>
</tr>
<tr>
<td>No</td>
<td>96</td>
</tr>
</tbody>
</table>
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

Yes 3

No 97

Percent (n=405)
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 13% of residents of WMU 2F did this, and 15% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents are corn, salt/mineral blocks, and apples.
  - Feeding birds: 53% of residents of WMU 2F did this.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 53% agree that this is okay, but 36% disagree (the rest are neutral).

- More than a quarter of residents of WMU 2F (40%) consider themselves to be a hunter, about three-fourths of whom have a Pennsylvania hunting license.
  - Among residents of WMU 2F who live in a single-family home, 15% personally hunt deer on their property.
  - A large majority of residents of WMU 2F (89%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

<table>
<thead>
<tr>
<th>Yes</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>87</td>
</tr>
</tbody>
</table>

Percent (n=405)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 15
- No: 85
- Don't know: 1

Percent (n=405)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 40%
- Salt / mineral block: 38%
- Apples: 28%
- Pellets / commercial feed: 7%
- Hay: 5%
- Birdseed: 4%

Multiple Responses Allowed

Percent (n=59)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 53%
No: 47%

Percent (n=405)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 28
- Moderately agree: 25
- Neither agree nor disagree: 7
- Moderately disagree: 9
- Strongly disagree: 27
- Don't know: 4

(Percent n=405)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes: 15
No: 85

Percent (n=371)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes: 89%
No: 11%

Percent (n=405)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 2F say that the best way to provide them with information about deer in Pennsylvania is through direct mail (41% gave this response), followed by newspaper (19%), email (13%), and the Internet (11% saying an Internet site other than the PGC and 5% saying the agency website; note that some said both).

- Just under half of residents of WMU 2F (46%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Multiple Responses Allowed

<table>
<thead>
<tr>
<th>Method</th>
<th>Percent (n=405)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct mail</td>
<td>41</td>
</tr>
<tr>
<td>Newspaper</td>
<td>19</td>
</tr>
<tr>
<td>Email</td>
<td>13</td>
</tr>
<tr>
<td>Internet / website other than PGC website</td>
<td>11</td>
</tr>
<tr>
<td>TV</td>
<td>8</td>
</tr>
<tr>
<td>PA Game Commission website</td>
<td>5</td>
</tr>
<tr>
<td>PA Game Commission offices</td>
<td>5</td>
</tr>
<tr>
<td>Brochures or pamphlets</td>
<td>5</td>
</tr>
<tr>
<td>PA Hunting and Trapping Digest</td>
<td>4</td>
</tr>
<tr>
<td>Magazines</td>
<td>3</td>
</tr>
<tr>
<td>Radio</td>
<td>3</td>
</tr>
<tr>
<td>Telephone</td>
<td>2</td>
</tr>
<tr>
<td>Social media</td>
<td>1</td>
</tr>
<tr>
<td>Public presentations</td>
<td>1</td>
</tr>
<tr>
<td>Other</td>
<td>1</td>
</tr>
<tr>
<td>Don’t know</td>
<td>7</td>
</tr>
</tbody>
</table>
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 46
- No: 53
- Don't know: 1

Percent (n=405)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

Facebook: 91
YouTube: 5
Twitter: 3
Other: 1

Percent (n=195)
RESULTS FOR WMU 2G

Location: From Lantz Corners, US Rt. 6 east to US Rt. 15 at Mansfield; US Rt. 15 south to US Rt. 220 at Williamsport; US Rt. 220 west to I-80 to US Rt. 219 near DuBois; US Rt. 219 north to US Rt. 6 at Lantz Corners.
8. Lives in WMU 2G

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>p-value</th>
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<tbody>
<tr>
<td>2.</td>
<td>Has seen deer frequently on his/her property in the past 12 months</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Fed deer intentionally or put out attractants in the past 12 months</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Indicates that he/she or a family member hunts</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA</td>
<td>≤ 0.05</td>
</tr>
<tr>
<td>3.</td>
<td>Fed birds or make birdfeed available on his/her property in the past 12 months</td>
<td>≤ 0.05</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>4.</td>
<td>Does not consider the deer population in his/her area to be too high</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support lethal methods to manage deer populations in PA</td>
<td>≤ 0.01</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports trapping and killing as a method of controlling deer populations in PA</td>
<td>≤ 0.01</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA</td>
<td>≤ 0.05</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>5.</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer droppings in their yard as a 9 or 10</td>
<td>≤ 0.01</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about the health of the deer population in PA as a 9 or 10</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>8.</td>
<td>Does not consider place of residence to be an urban or suburban area</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>8.</td>
<td>Has the median number or fewer people living in his/her household</td>
<td>≤ 0.05</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- Nearly three-fourths of residents of WMU 2G (74%) spent time viewing deer around their home in the past 12 months, and 43% took a trip of at least a mile to view deer.
  - Just under half of those who took a deer-viewing trip (46%) used a spotlight to view the deer at night.

- A majority of residents of WMU 2G (64%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 21% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- Yes: 74%
- No: 26%

(Percent n=428)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- Yes: 43%
- No: 56%
- Don't know: Less than 1%

(n=428)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

- Yes: 46%
- No: 54%

Percent (n=208)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 39
- Somewhat satisfied: 25
- Neither satisfied nor dissatisfied: 13
- Somewhat dissatisfied: 10
- Very dissatisfied: 11
- Don't know: 2

Percent (n=428)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 73% of residents of WMU 2G say with no caveats that they like having deer around, another 11% like having deer around but worry about the problems they may cause, and only 3% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 2G how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are the midpoint of “5” (22%) and “0” (17%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “8” for the health of the deer population in Pennsylvania. The ratings of the latter are mostly concentrated in the upper end of the scale.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 2G say that the herd size is too low (55%), while the second most common response is that it is just right (39%); only 3% say it is too high.
  - Those who own their home are not markedly different from those who do not own their home regarding their perceptions of the size of the deer population in their area.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 73%
- I like having deer around but worry about problems they cause: 11%
- I generally regard deer as a nuisance: 3%
- I have no particular feeling about deer: 12%

Percent (n=428)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 5.18
Median = 5
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.96
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

![Bar chart showing responses to Q42.](chart.png)

- Mean = 6.80
- Median = 8
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 3
- Just right: 39
- Too low: 55
- Don't know: 3

(Percent n=428)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 4 (1 owns home, 1 does not own home)
- Just right: 38 (12 owns home, 26 does not own home)
- Too low: 63 (56 owns home, 7 does not own home)
- Don't know: 1 (1 owns home, 0 does not own home)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, with the most support being for the ecological goals rather than the human-centered goal: 81% agree with managing the deer for a healthy and sustainable forest habitat and 89% agree with managing for healthy and sustainable deer populations, while 75% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 2G who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.29 years. While 33% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just less than a majority (48%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**: 45, 39, 58
- **Moderately agree**: 36, 31, 36
- **Neither agree nor disagree**: 4, 2, 6
- **Moderately disagree**: 5, 3, 8
- **Strongly disagree**: 7, 2, 8
- **Don't know**: 3, 3, 2

[Bar chart showing percentages for each response category]
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 2
- 6-10 years: 7
- 5 years: 24
- 4 years: 4
- 3 years: 11
- 2 years: 14
- 1 year: 4
- Less than a year: 1
- Don't know: 33

Mean = 4.29
Median = 4
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 48
- No: 48
- Don't know: 4

Percent (n=238)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A majority of residents of WMU 2G (57%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 34% oppose, mostly strong opposition.
  - Those residents of WMU 2G who live in a single-family home and own their home are much less likely to strongly support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (92% of respondents support this method), distantly followed by trapping and killing (30%), professionals or sharpshooters (26%), and fertility/birth control (18%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (20% do so) and the second regarding allowing others to hunt on their land (31% do so). In combining the results, 37% of residents of WMU 2G who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 12% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Another common reason is concern about safety.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (91%). They were then asked if there is anything that would make them more likely to allow deer hunting; they are almost
unanimous (94%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.

  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 36
- Moderately support: 21
- Neither support nor oppose: 7
- Moderately oppose: 8
- Strongly oppose: 26
- Don’t know: 2

Percent (n=428)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 36 (57%)
- Moderately support: 21 (25%)
- Neither support nor oppose: 7 (11%)
- Moderately oppose: 9 (14%)
- Strongly oppose: 6 (10%)
- Don’t know: 2 (3%)

Bars indicate ownership status:
- ■ Owns home (n=374)
- □ Does not own home (n=30)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 82%
- **Q32. Trapping and killing**: 17%
- **Q31. Professionals or sharpshooters**: 12%
- **Q33. Fertility or birth control**: 4%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 92%
- Q32. Trapping and killing: 30%
- Q31. Professionals or sharpshooters: 26%
- Q33. Fertility or birth control: 18%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q31. Professionals or sharpshooters: 70%
- Q32. Trapping and killing: 65%
- Q33. Fertility or birth control: 70%
- Q30. Legal, regulated hunting: 7%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q33. Fertility or birth control: 61%
- Q31. Professionals or sharpshooters: 59%
- Q32. Trapping and killing: 55%
- Q30. Legal, regulated hunting: 6%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>12</td>
<td>88</td>
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</tbody>
</table>
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 47%
- Live in residential neighborhood / suburban or urban area: 40%
- Concerned about safety: 15%
- Want to save hunting opportunities for self / family: 4%
- Liability: 3%
- Not enough deer on property / not enough habitat: 3%
- Oppose hunting in general: 2%
- Live on rented property: 1%

Multiple Responses Allowed

Percent (n=274)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1
- Somewhat likely: 2
- Somewhat unlikely: 4
- Very unlikely: 91
- Don't know: 3

Percent (n=274)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent (n=274)</th>
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<tbody>
<tr>
<td>Yes</td>
<td>3</td>
</tr>
<tr>
<td>No</td>
<td>94</td>
</tr>
<tr>
<td>Don't know</td>
<td>3</td>
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</tbody>
</table>
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1
- Somewhat likely: 1
- Somewhat unlikely: 1
- Very unlikely: 98

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=87)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for tick-borne diseases (mean rating of 7.3) and the health of the deer population (6.8), followed by two more whose means are just under those top two: the quality of deer habitat (6.0) and deer-vehicle accidents (5.1).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (2.5) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (1.8) and deer droppings in the yard (0.8).
    o Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 2G, 84% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 2G may have experienced: 8% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 15% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 5% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were slightly less likely to have experienced deer problems. Also, those who were aware of neighbors feeding deer or putting out attractants were less likely to experience deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.3
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.8
- Q41. The quality of deer habitat in Pennsylvania: 6.0
- Q40. Deer-vehicle accidents in Pennsylvania: 5.1
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 2.5
- Q38. Deer damage to plants and landscaping in his/her yard: 1.8
- Q37. Deer droppings in his/her yard: 0.8
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 47%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 33%
- Q41. The quality of deer habitat in Pennsylvania: 20%
- Q40. Deer-vehicle accidents in Pennsylvania: 14%
- Q38. Deer damage to plants and landscaping in his/her yard: 6%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 4%
- Q37. Deer droppings in his/her yard: 2%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 46
- Sometimes: 18
- Rarely: 20
- Never: 16

Percent (n=428)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 47% (46% fed birds on his/her property in the past 12 months)
- Sometimes: 21% (16% fed birds on his/her property in the past 12 months)
- Rarely: 20% (20% fed birds on his/her property in the past 12 months)
- Never: 13% (19% fed birds on his/her property in the past 12 months)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 59
- Sometimes: 22
- Rarely: 15
- Never: 4

Has fed deer or put out attractants in the past 12 months (n=106)
Has not fed deer or put out attractants in the past 12 months (n=322)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 53 people
- Sometimes: 19 people
- Rarely: 14 people
- Never: 14 people

Legend:
- ■ Is aware of neighbors feeding deer or putting out attractants (n=96)
- □ Is not aware of neighbors feeding deer or putting out attractants (n=323)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

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<thead>
<tr>
<th></th>
<th>Yes</th>
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<td>8</td>
<td>92</td>
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</tbody>
</table>

Percent (n=428)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 5%
- No: 95%

Fed birds on his/hers property in the past 12 months (n=219)
Did not feed birds on his/hers property in the past 12 months (n=208)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

<table>
<thead>
<tr>
<th></th>
<th>Percent (n=62)</th>
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<tbody>
<tr>
<td>Yes</td>
<td>2</td>
</tr>
<tr>
<td>No</td>
<td>98</td>
</tr>
</tbody>
</table>
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 22% of residents of WMU 2G did this, and 23% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents are salt/mineral blocks and corn.
  - Feeding birds: 54% of residents of WMU 2G did this.

- There is much more agreement than disagreement in WMU 2G that it is okay for private citizens to feed or attract deer in Pennsylvania: 67% agree that this is okay, while 23% disagree (the rest are neutral).

- Just under half of residents of WMU 2G (45%) consider themselves to be a hunter, about three-fourths of whom have a Pennsylvania hunting license.
  - Among residents of WMU 2G who live in a single-family home, 20% personally hunt deer on their property.
  - A large majority of residents of WMU 2G (89%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

- Yes: 22%
- No: 78%

Percent (n=428)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 23
- No: 75
- Don't know: 2

Percent (n=428)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Salt / mineral block: 61
- Corn: 51
- Pellets / commercial feed: 8
- Apples: 8
- Birdseed: 8
- Other food products: 3
- Food plot: 1
- Horse feed: 1
- Don't know: 1

Multiple Responses Allowed

Percent (n=106)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 54%
No: 46%

Percent (n=428)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 42
- Moderately agree: 25
- Neither agree nor disagree: 7
- Moderately disagree: 8
- Strongly disagree: 15
- Don't know: 2

(Percent (n=428))
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

- **Yes**: 20
- **No**: 79
- **Don't know**: Less than 1%

Percent (n=404)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 89
- No: 9
- Don’t know: 2

Percent (n=428)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 2G say that the best way to provide them with information about deer in Pennsylvania is through direct mail (41% gave this response), followed by newspaper (19%), the Internet (15% saying an Internet site other than the PGC and 9% saying the agency website; note that some said both), and email (12%).

- Just over two-fifths of residents of WMU 2G (41%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Direct mail: 41%
- Newspaper: 19%
- Internet / website other than PGC website: 15%
- Email: 12%
- TV: 9%
- PA Game Commission website: 9%
- Brochures or pamphlets: 7%
- Magazines: 5%
- PA Hunting and Trapping Digest: 3%
- Radio: 2%
- PA Game Commission offices: 1%
- Public presentations: 1%
- Social media: 1%
- Telephone: 1%
- Other: 1%
- Don't know: 7%

Percent (n=428)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 41
- No: 56
- Don't know: 2

Percent (n=428)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 94
- YouTube: 4
- Twitter: 1
- Other: 1

Percent (n=201)
RESULTS FOR WMU 3A

Location: From the New York/PA state line, PA Rt. 14 south to US Rt. 6 near Troy; US Rt. 6 west to US Rt. 219 at Lantz Corners; US Rt. 219 north to the New York/PA state line.
### 8. Lives in WMU 3A

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<table>
<thead>
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<tbody>
<tr>
<td>1.</td>
<td>Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>3.</td>
<td>Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Considers himself/herself to be a hunter (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Has spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Indicates that he/she or a family member hunts (p &lt; 0.001).</td>
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<td>4.</td>
<td>Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
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<tr>
<td>4.</td>
<td>Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p &lt; 0.001).</td>
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<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.01).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.01).</td>
</tr>
<tr>
<td>4.</td>
<td>Does not strongly or moderately support lethal methods to manage deer populations in PA (p &lt; 0.05).</td>
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<tr>
<td>5.</td>
<td>Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>5.</td>
<td>Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>6.</td>
<td>Rates concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using social media, such as Facebook, Twitter, or YouTube (p &lt; 0.001).</td>
</tr>
<tr>
<td>7.</td>
<td>Does not indicate using Facebook (including not using any social media) (p &lt; 0.01).</td>
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<tr>
<td>8.</td>
<td>Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
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<tr>
<td>8.</td>
<td>Has the median number or fewer people living in his/her household (p &lt; 0.05).</td>
</tr>
<tr>
<td>8.</td>
<td>Primary place of residence is not a single-family home (p &lt; 0.05).</td>
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See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A large majority of residents of WMU 3A (70%) spent time viewing deer around their home in the past 12 months, and 43% took a trip of at least a mile to view deer.
  - A little more than a third of those who took a deer-viewing trip (37%) used a spotlight to view the deer at night.

- A majority of residents of WMU 3A (53%) are satisfied with opportunities to view deer in Pennsylvania, while 31% indicate being dissatisfied. The remainder are neutral.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 70%
No: 30%

Percent (n=416)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>43</td>
<td>57</td>
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</table>

Percent (n=416)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 32
- Somewhat satisfied: 21
- Neither satisfied nor dissatisfied: 15
- Somewhat dissatisfied: 11
- Very dissatisfied: 20
- Don't know: 1

Percent (n=416)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 72% of residents of WMU 3A say with no caveats that they like having deer around, another 14% like having deer around but worry about the problems they may cause, and only 3% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 3A how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are “10” (18%), the midpoint of “5” (18%), and “0” (14%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- Most commonly, residents of WMU 3A say that the deer population in their area is too low (59%), while 32% say it is just right and only 3% say it is too high.
  - Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is too low.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 72%
- I like having deer around but worry about problems they cause: 14%
- I generally regard deer as a nuisance: 3%
- I have no particular feeling about deer: 12%

(Percent (n=416))
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 5.44
Median = 5
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.94
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.63
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 3
- Just right: 32
- Too low: 59
- Don't know: 6

Percent (n=416)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high**
  - Owns home (n=353): 7%
  - Does not own home (n=31): 2%

- **Just right**
  - Owns home (n=353): 29%
  - Does not own home (n=31): 41%

- **Too low**
  - Owns home (n=353): 63%
  - Does not own home (n=31): 46%

- **Don't know**
  - Owns home (n=353): 5%
  - Does not own home (n=31): 5%
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

![Bar Chart]

- **Too high**: 1 (5%)
- **Just right**: 19 (43%)
- **Too low**: 41 (78%)
- **Don't know**: 11 (11%)

- **Consider themselves a hunter (n=213)**
- **Do not consider themselves a hunter (n=202)**
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 82% agree with managing the deer for a healthy and sustainable forest habitat, 88% agree with managing for healthy and sustainable deer populations, and 77% agree with managing for safe, acceptable levels of deer-human conflicts.

Residents of WMU 3A who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.60 years. While 37% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

- Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just under a majority (49%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree:** 56% (n=416)  
- **Moderately agree:** 37%  
- **Neither agree nor disagree:** 32%  
- **Moderately disagree:** 32%  
- **Strongly disagree:** 9%  
- **Don't know:** 5%  

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

Mean = 4.60
Median = 5
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)
Results for WMU 3A

OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A majority of residents of WMU 3A (59%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 34% oppose, mostly strong opposition.
  - Those residents of WMU 3A who live in a single-family home and own their home are less likely to oppose lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (92% of respondents support this method), distantly followed by fertility/birth control (25%), trapping and killing (22%), and professionals or sharpshooters (19%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (22% do so) and the second regarding allowing others to hunt on their land (41% do so). In combining the results, 42% of residents of WMU 3A who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 7% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are concerns about safety, a general opposition to hunting, and liability concerns.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (90%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (96%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 36
- Moderately support: 23
- Neither support nor oppose: 6
- Moderately oppose: 12
- Strongly oppose: 22
- Don’t know: 2

Percent (n=416)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- **Strongly support**
  - Owns home (n=353): 37
  - Does not own home (n=31): 37

- **Moderately support**
  - Owns home (n=353): 24
  - Does not own home (n=31): 19

- **Neither support nor oppose**
  - Owns home (n=353): 6
  - Does not own home (n=31): 0

- **Moderately oppose**
  - Owns home (n=353): 9
  - Does not own home (n=31): 27

- **Strongly oppose**
  - Owns home (n=353): 22
  - Does not own home (n=31): 14

- **Don't know**
  - Owns home (n=353): 3
  - Does not own home (n=31): 3
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 74%
- Q32. Trapping and killing: 12%
- Q33. Fertility or birth control: 10%
- Q31. Professionals or sharpshooters: 7%

Percent
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 92%
- **Q33. Fertility or birth control**: 25%
- **Q32. Trapping and killing**: 22%
- **Q31. Professionals or sharpshooters**: 19%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 7%
- Q31. Professionals or sharpshooters: 72%
- Q32. Trapping and killing: 74%
- Q33. Fertility or birth control: 61%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 4%
- Q31. Professionals or sharpshooters: 58%
- Q32. Trapping and killing: 63%
- Q33. Fertility or birth control: 49%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

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<tr>
<td>Response</td>
<td>42</td>
<td>58</td>
</tr>
</tbody>
</table>

Percent (n=384)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 7
- No: 93

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=109)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 52
- Property is too small / neighbors too close: 47
- Concerned about safety: 12
- Oppose hunting in general: 5
- Liability: 3
- Not enough deer on property / not enough habitat: 1
- Want to save hunting opportunities for self / family: 1

Percent (n=226)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 4
- Somewhat likely: 3
- Neither likely nor unlikely: 1
- Somewhat unlikely: 2
- Very unlikely: 90

Percent (n=226)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Yes 3
No 96
Don't know 1

Percent (n=226)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 2
- Neither likely nor unlikely: 0
- Somewhat unlikely: 1
- Very unlikely: 97

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=102)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

  - The most concern was for the health of the deer population (mean rating of 6.6) and tick-borne diseases (6.6), followed by two more whose means are just under those top two: the quality of deer habitat (5.9) and deer-vehicle accidents (5.8).

  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.3) and the two impacts to residents' landscaping: deer damage to plants and landscaping (1.6) and deer droppings in the yard (1.0).

    - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 3A, 70% indicated that they saw deer on their property in the past 12 months.

  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 3A may have experienced: 5% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 17% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 3% indicated that they or a household member had been diagnosed with a tick-borne disease.

  - Crosstabulations show that those who fed birds were about the same as those who did not regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were more likely to have experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania

Q41. The quality of deer habitat in Pennsylvania

Q40. Deer-vehicle accidents in Pennsylvania

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania

Q38. Deer damage to plants and landscaping in his/her yard

Q37. Deer droppings in his/her yard

Mean
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 32%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 31%
- Q41. The quality of deer habitat in Pennsylvania: 22%
- Q40. Deer-vehicle accidents in Pennsylvania: 21%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 4%
- Q38. Deer damage to plants and landscaping in his/her yard: 3%
- Q37. Deer droppings in his/her yard: 3%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 30
- Sometimes: 16
- Rarely: 25
- Never: 30

Percent (n=416)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: Fed birds on his/her property in the past 12 months (n=216) - 32%
  Did not feed birds on his/her property in the past 12 months (n=199) - 27%
- Sometimes: Fed birds on his/her property in the past 12 months (n=216) - 16%
  Did not feed birds on his/her property in the past 12 months (n=199) - 15%
- Rarely: Fed birds on his/her property in the past 12 months (n=216) - 27%
  Did not feed birds on his/her property in the past 12 months (n=199) - 24%
- Never: Fed birds on his/her property in the past 12 months (n=216) - 26%
  Did not feed birds on his/her property in the past 12 months (n=199) - 34%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 41
- Sometimes: 19
- Rarely: 29
- Never: 11

Has fed deer or put out attractants in the past 12 months (n=62)
Has not fed deer or put out attractants in the past 12 months (n=354)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 36% (n=76)
- Sometimes: 21% (n=15)
- Rarely: 32% (n=23)
- Never: 11% (n=34)

Legend:
- ■ Is aware of neighbors feeding deer or putting out attractants (n=76)
- □ Is not aware of neighbors feeding deer or putting out attractants (n=333)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Yes: 5
No: 95

Percent (n=416)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 8
- No: 92

Legend:
- ■ Is aware of neighbors feeding deer or putting out attractants (n=76)
- □ Is not aware of neighbors feeding deer or putting out attractants (n=333)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 17
- No: 83

Percent (n=416)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

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<th>Yes</th>
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<td></td>
<td>3</td>
<td>97</td>
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</table>
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

- Yes: 3
- No: 96
- Don't know: 1

Percent (n=416)
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 14% of residents of WMU 3A did this, and 17% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents are corn, salt/mineral blocks, and apples.
  - Feeding birds: 52% of residents of WMU 3A did this.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 56% agree that this is okay, but 35% disagree (the rest are neutral).

- Just under half of residents of WMU 3A (49%) consider themselves to be a hunter, a large portion of whom have a Pennsylvania hunting license.
  - Among residents of WMU 3A who live in a single-family home, 22% personally hunt deer on their property.
  - A large majority of residents of WMU 3A (87%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 14
No: 86

Percent (n=416)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 17
- No: 81
- Don't know: 1

Percent (n=416)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 46
- Salt / mineral block: 40
- Apples: 21
- Food plot: 6
- Pellets / commercial feed: 5
- Horse feed: 3
- Other food products: 2
- Bread: 1
- Other: 2

Multiple Responses Allowed

Percent (n=62)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 52%
No: 47%
Don't know: Less than 1%

Percent (n=416)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 28
- Moderately agree: 28
- Neither agree nor disagree: 7
- Moderately disagree: 13
- Strongly disagree: 22
- Don't know: 3
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes: 22
No: 78

Percent (n=384)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 87
- No: 12
- Don't know: 1

Percent (n=416)
**SOURCES OF INFORMATION**

- Most commonly, residents of WMU 3A say that the best way to provide them with information about deer in Pennsylvania is through direct mail (36% gave this response), followed by newspaper (23%), the Internet (10% saying an Internet site other than the PGC and 4% saying the agency website; note that some said both), and email (10%).

- Just about a third of residents of WMU 3A (34%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

Multiple Responses Allowed

- Direct mail: 36
- Newspaper: 23
- Internet / website other than PGC website: 10
- Email: 10
- Magazines: 6
- Brochures or pamphlets: 6
- PA Hunting and Trapping Digest: 4
- PA Game Commission website: 4
- TV: 4
- Telephone: 3
- Radio: 2
- PA Game Commission offices: 1
- Public presentations: 1
- Social media: 1
- Other: 2
- Don’t know: 7
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

Yes: 34
No: 66

Percent (n=416)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 91
- YouTube: 6
- Twitter: 2
- Other: 1

Percent (n=176)
RESULTS FOR WMU 3B

Location: From Mansfield, US Rt. 6 east to the Susquehanna River at Towanda; the Susquehanna River east to U.S. Rt. 6 at Tunkhannock; U.S. Rt. 6 east to I-81 near Scranton; I-81 south to PA Rt. 29 near Nanticoke; PA Rt. 29 north to PA Rt. 118 near Pikes Creek; PA Rt. 118 west to PA Rt. 405 at Hughesville; PA Rt. 405 south to the Susquehanna River at Muncy; the Susquehanna River north to US Rt. 15 at Williamsport; US Rt. 15 north to US Rt. 6 at Mansfield.
8. Lives in WMU 3B

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.05).
2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p < 0.001).
4. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
5. Does not indicate that he/she or any of his/her family members hunt (p < 0.01).
6. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.01).
7. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.01).
8. Does not indicate having a valid 2011 PA general hunting license (p < 0.01).
9. Does not indicate considering himself/herself to be a hunter (p < 0.01).
10. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p < 0.05).
11. Does not consider the deer population in his/her area to be too high (p < 0.001).
12. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable forest habitat (p < 0.01).
13. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p < 0.01).
14. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.01).
15. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p < 0.001).
16. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p < 0.001).
17. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p < 0.01).
18. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.05).
19. Uses Facebook (p < 0.05).
20. Considers place of residence to be an urban or suburban area (p < 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- About a third of residents of WMU 3B (34%) spent time viewing deer around their home in the past 12 months, and 23% took a trip of at least a mile to view deer.
  - About a fifth of those who took a deer-viewing trip (22%) used a spotlight to view the deer at night.

- A majority of residents of WMU 3B (60%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 13% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 34
No: 66

Percent (n=407)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 23
No: 77

Percent (n=407)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months?
(Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes 22

No 78

Percent (n=98)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 41
- Somewhat satisfied: 19
- Neither satisfied nor dissatisfied: 22
- Somewhat dissatisfied: 9
- Very dissatisfied: 4
- Don't know: 6
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 60% of residents of WMU 3B say with no caveats that they like having deer around, another 19% like having deer around but worry about the problems they may cause, and only 3% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 3B how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is 4. The most common ratings are “0” (22%) and the midpoint of “5” (17%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania. The ratings of the latter are mostly concentrated in the upper end of the scale.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 3B say that the herd size is just right (59%); otherwise, more say that it is too low (24%) than too high (7%).
  - Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is just right; they are less likely to say that the deer population is either too high or too low.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 60
- I like having deer around but worry about problems they cause: 19
- I generally regard deer as a nuisance: 3
- I have no particular feeling about deer: 18

Percent (n=407)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.09
Median = 4

Don't know

Percent (n=407)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

![Bar chart showing the distribution of responses with Mean = 5.84 and Median = 6]

Percent (n=407)
Q42. How about the health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10, where 0 is not at all concerned and 10 is extremely concerned?)

Don't know

Percent (n=407)

Mean = 6.47
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 7 (Owens home), 12 (Does not own home)
- Just right: 62 (Owens home), 51 (Does not own home)
- Too low: 24 (Owens home), 32 (Does not own home)
- Don’t know: 8 (Owens home), 5 (Does not own home)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

![Bar chart showing responses to Q16 question]

- Too high: 2 (2%), 9 (9%)
- Just right: 57 (57%), 60 (60%)
- Too low: 38 (38%), 19 (19%)
- Don't know: 4 (4%), 13 (13%)

Legend:
- ■ Considers himself / herself a hunter (n=124)
- □ Does not consider himself / herself a hunter (n=283)
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 93% agree with managing the deer for a healthy and sustainable forest habitat, 93% agree with managing for healthy and sustainable deer populations, and 80% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 3B who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 3.80 years. While 28% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: less than a majority (43%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**
  - 64 (72%)

- **Moderately agree**
  - 29 (36%)

- **Neither agree nor disagree**
  - 2 (2%)

- **Moderately disagree**
  - 2 (2%)

- **Strongly disagree**
  - 3 (4%)

- **Don't know**
  - 2 (2%)

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts

Percent (n=407)
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

[Bar chart with the following data:
- More than 10 years: 1
- 6-10 years: 6
- 5 years: 23
- 4 years: 1
- 3 years: 17
- 2 years: 12
- 1 year: 9
- Less than a year: 4
- Don't know: 28

Mean = 3.80
Median = 3]
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

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<th>43</th>
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<td>No</td>
<td>51</td>
</tr>
<tr>
<td>Don't know</td>
<td>6</td>
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</table>
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

Two-thirds of residents of WMU 3B (67%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 28% oppose, mostly strong opposition.

- Those residents of WMU 3B who live in a single-family home and own their home are much more likely to strongly support lethal methods, compared to those who live in a single-family home but do not own their home.
- The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (86% of respondents support this method), distantly followed by fertility/birth control (37%), professionals or sharpshooters (29%), and trapping and killing (18%).

Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (6% do so) and the second regarding allowing others to hunt on their land (9% do so). In combining the results, 10% of residents of WMU 3B who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).

- There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 4% either hunt on their own property or allow others to hunt on the property.
- Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are a general opposition to hunting, concerns about safety, and liability concerns.
- Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (97%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (99.6%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 42
- Moderately support: 25
- Neither support nor oppose: 6
- Moderately oppose: 5
- Strongly oppose: 23

Percent (n=407)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- **Strongly support**: Owns home (n=346) - 42, Does not own home (n=20) - 20
- **Moderately support**: Owns home (n=346) - 24, Does not own home (n=20) - 32
- **Neither support nor oppose**: Owns home (n=346) - 7, Does not own home (n=20) - 0
- **Moderately oppose**: Owns home (n=346) - 6, Does not own home (n=20) - 1
- **Strongly oppose**: Owns home (n=346) - 47, Does not own home (n=20) - 20
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 71%
- Q33. Fertility or birth control: 17%
- Q31. Professionals or sharpshooters: 13%
- Q32. Trapping and killing: 6%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 86%
- **Q33. Fertility or birth control**: 37%
- **Q31. Professionals or sharpshooters**: 29%
- **Q32. Trapping and killing**: 18%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 11%
- Q31. Professionals or sharpshooters: 67%
- Q32. Trapping and killing: 81%
- Q33. Fertility or birth control: 53%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting
- Q31. Professionals or sharpshooters
- Q32. Trapping and killing
- Q33. Fertility or birth control
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes: 10
No: 90

Percent (n=366)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 4
- No: 96

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=259)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 65%
- Property is too small / neighbors too close: 47%
- Oppose hunting in general: 8%
- Concerned about safety: 5%
- Liability: 2%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%
- Other: 2%

Multiple Responses Allowed

Percent (n=326)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Somewhat likely: 1%
- Neither likely nor unlikely: 1%
- Somewhat unlikely: 1%
- Very unlikely: 97%
- Don't know: 1%

Percent (n=326)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Somewhat likely: 0
- Neither likely nor unlikely: 0
- Somewhat unlikely: 1
- Very unlikely: 98
- Don't know: 1

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=248)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Yes: 0.2%
- No: 99.6%
- Don't know: 0.2%

Percent (n=326)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for tick-borne diseases (mean rating of 7.4), followed by three whose means are fairly close to one another: the health of the deer population (6.5), deer-vehicle accidents (6.3), and the quality of deer habitat (5.8).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.6) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (1.6) and deer droppings in the yard (1.0).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 3B, 43% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 3B may have experienced: 4% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 9% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 3% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were slightly more likely to have experienced deer problems. Likewise, those who were aware of neighbors feeding deer or putting out attractants were much more likely to experience deer problems.
Q36-42. Mean rating of respondents' concern about each of the following on a 10-point scale:

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania
Mean: 7.4

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
Mean: 6.5

Q40. Deer-vehicle accidents in Pennsylvania
Mean: 6.3

Q41. The quality of deer habitat in Pennsylvania
Mean: 5.8

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania
Mean: 3.6

Q38. Deer damage to plants and landscaping in his/her yard
Mean: 1.6

Q37. Deer droppings in his/her yard
Mean: 1.0
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- **Q36.** Tick-borne diseases, such as Lyme disease, in Pennsylvania
  - Percent: 45

- **Q40.** Deer-vehicle accidents in Pennsylvania
  - Percent: 28

- **Q42.** The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
  - Percent: 28

- **Q41.** The quality of deer habitat in Pennsylvania
  - Percent: 20

- **Q38.** Deer damage to plants and landscaping in his/her yard
  - Percent: 5

- **Q39.** Deer impacts on the habitat and other wildlife in Pennsylvania
  - Percent: 6

- **Q37.** Deer droppings in his/her yard
  - Percent: 3
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 15
- Sometimes: 11
- Rarely: 17
- Never: 57

Percent (n=407)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 18 (13 fed birds, 5 did not feed birds)
- Sometimes: 12 (10 fed birds, 2 did not feed birds)
- Rarely: 21 (14 fed birds, 7 did not feed birds)
- Never: 63 (49 fed birds, 14 did not feed birds)

Fed birds on his / her property in the past 12 months (n=183)
Did not feed birds on his / her property in the past 12 months (n=224)

Percent
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 38
- Sometimes: 36
- Rarely: 18
- Never: 62

Has fed deer or put out attractants in the past 12 months (n=45)

Has not fed deer or put out attractants in the past 12 months (n=362)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 58 people (13 people)
- Sometimes: 11 people (8 people)
- Rarely: 17 people (25 people)
- Never: 60 people (9 people)

□ Is aware of neighbors feeding deer or putting out attractants in the past 12 months (n=23)

□ Is not aware of neighbors feeding deer or putting out attractants in the past 12 months (n=383)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 9
- No: 91

Percent (n=407)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
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</thead>
<tbody>
<tr>
<td>n</td>
<td>3</td>
<td>97</td>
</tr>
</tbody>
</table>

Percent (n=407)
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 9% of residents of WMU 3B did this, and 5% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
  - Feeding birds: 45% of residents of WMU 3B did this.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 42% agree that this is okay, but 49% disagree (the rest are neutral).

- More than a quarter of residents of WMU 3B (27%) consider themselves to be a hunter, about two-thirds of whom have a Pennsylvania hunting license.
  - Among residents of WMU 3B who live in a single-family home, 6% personally hunt deer on their property.
  - A large majority of residents of WMU 3B (75%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 5
- No: 94
- Don’t know: Less than 1%

Percent (n=407)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

<table>
<thead>
<tr>
<th>Feed Type</th>
<th>Percent (n=45)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt / mineral block</td>
<td>50</td>
</tr>
<tr>
<td>Corn</td>
<td>41</td>
</tr>
<tr>
<td>Apples</td>
<td>18</td>
</tr>
<tr>
<td>Bread</td>
<td>4</td>
</tr>
<tr>
<td>Hay</td>
<td>2</td>
</tr>
<tr>
<td>Horse feed</td>
<td>2</td>
</tr>
<tr>
<td>Birdseed</td>
<td>1</td>
</tr>
<tr>
<td>Pellets / commercial feed</td>
<td>1</td>
</tr>
<tr>
<td>Other food products</td>
<td>1</td>
</tr>
</tbody>
</table>

Multiple Responses Allowed
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 23
- Moderately agree: 19
- Neither agree nor disagree: 8
- Moderately disagree: 17
- Strongly disagree: 32
- Don't know: 1

Percent (n=407)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes: 6

No: 94

Percent (n=366)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes: 75%
No: 25%

Percent (n=407)
Most commonly, residents of WMU 3B say that the best way to provide them with information about deer in Pennsylvania is through direct mail (39% gave this response), followed by newspaper (18%), email (15%), the Internet (15% saying an Internet site other than the PGC and 5% saying the agency website; note that some said both).

Just about half of residents of WMU 3B (48%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania?

- Direct mail: 39
- Newspaper: 18
- Email: 15
- Internet / website other than PGC website: 15
- TV: 11
- Telephone: 5
- PA Game Commission website: 5
- Magazines: 3
- Brochures or pamphlets: 3
- Radio: 2
- PA Hunting and Trapping Digest: 1
- Public presentations: 1
- PA Game Commission offices: 1
- Other: 1
- Don't know: 9

Multiple Responses Allowed

Percent (n=407)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 48
- No: 51
- Don't know: 1

Percent (n=407)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 89
- YouTube: 6
- Twitter: 3
- Other: 1
- Don't know: 1

Percent (n=192)
RESULTS FOR WMU 3C

Location: From the New York/PA state line, PA Rt. 652 west to US Rt. 6 at Indian Orchard; US Rt. 6 west to Tunkhannock; the boundary between WMUs 3C and 3B between Tunkhannock and Towanda is the Susquehanna River; US Rt. 6 west to PA Rt. 14 near Troy; PA Rt. 14 north to the New York/PA state line.

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8. Lives in WMU 3C

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.01).
2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p < 0.05).
3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
4. Does not indicate having a valid 2011 PA general hunting license (p < 0.05).
5. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

A majority of residents of WMU 3C (57%) spent time viewing deer around their home in the past 12 months, and 20% took a trip of at least a mile to view deer.

• About a quarter of those who took a deer-viewing trip (24%) used a spotlight to view the deer at night.

A majority of residents of WMU 3C (71%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 7% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 57%
No: 43%

Percent (n=434)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- Yes: 20
- No: 79
- Don't know: 1

Percent (n=434)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 24
No: 76

Percent (n=92)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 42
- Somewhat satisfied: 29
- Neither satisfied nor dissatisfied: 20
- Somewhat dissatisfied: 4
- Very dissatisfied: 3
- Don't know: 3

Percent (n=434)
Opinion on deer is mostly favorable: 54% of residents of WMU 3C say with no caveats that they like having deer around, another 20% like having deer around but worry about the problems they may cause, and only 6% generally regard them as a nuisance. The remainder have no particular feeling about deer.

Another question asked residents of WMU 3C how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “4.” The most common ratings are the midpoint of “5” (23%) and “0” (20%). In general, ratings are well spread across the scale.

Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 3C say that the herd size is just right (61%); otherwise, more say that it is too low (20%) than too high (10%).

- Those who own their home are less likely, compared to those who do not own their home, to say that the deer population in their area is just right; they are more likely to say that the deer population is either too high or too low.

- Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 54% (n=434)
- I like having deer around but worry about problems they cause: 20%
- I generally regard deer as a nuisance: 6%
- I have no particular feeling about deer: 19%
- Don't know: 1%
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 3.84
Median = 4

Don't know

Percent (n=434)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

- Mean = 5.79
- Median = 6

Don't know

Percent (n=434)
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.28
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

![Bar chart showing responses to Q16.]

- Too high: 10
- Just right: 61
- Too low: 20
- Don't know: 9

Percent (n=434)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high**: 2 (Owns home) vs. 12 (Does not own home)
- **Just right**: 80 (Owns home) vs. 59 (Does not own home)
- **Too low**: 12 (Owns home) vs. 22 (Does not own home)
- **Don't know**: 5 (Owns home) vs. 8 (Does not own home)

Legend:
- ■ Owns home (n=368)
- □ Does not own home (n=29)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high**
  - Consider themselves a hunter (n=116): 4
  - Do not consider themselves a hunter (n=317): 12

- **Just right**
  - Consider themselves a hunter (n=116): 53
  - Do not consider themselves a hunter (n=317): 64

- **Too low**
  - Consider themselves a hunter (n=116): 40
  - Do not consider themselves a hunter (n=317): 14

- **Don't know**
  - Consider themselves a hunter (n=116): 4
  - Do not consider themselves a hunter (n=317): 10
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 88% agree with managing the deer for a healthy and sustainable forest habitat, 93% agree with managing for healthy and sustainable deer populations, and 85% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 3C who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.84 years. While 38% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: half of respondents (50%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Healthy and sustainable forest habitat**: 61% (63% of respondents)
- **Healthy and sustainable deer populations**: 53% (63% of respondents)
- **Safe and acceptable levels of deer-human conflicts**: 27% (30% of respondents)

- **Neither agree nor disagree**: 3% (4% of respondents)
- **Moderately disagree**: 2% (3% of respondents)
- **Strongly disagree**: 5% (6% of respondents)
- **Don't know**: 1% (3% of respondents)
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

<table>
<thead>
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<th>Time Interval</th>
<th>Frequency (n=127)</th>
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<td></td>
<td></td>
</tr>
<tr>
<td>6-10 years</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 years</td>
<td>22</td>
<td>4.84</td>
<td>5</td>
</tr>
<tr>
<td>4 years</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 years</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 years</td>
<td>8</td>
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</tr>
<tr>
<td>1 year</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than a year</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Don't know</td>
<td>38</td>
<td></td>
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</tr>
</tbody>
</table>

Mean = 4.84
Median = 5
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 50
- No: 46
- Don't know: 5

Percent (n=127)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

A majority of residents of WMU 3C (63%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 30% oppose, mostly strong opposition.

- Those residents of WMU 3C who live in a single-family home and own their home are much more likely to support lethal methods, compared to those who live in a single-family home but do not own their home.
- The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (89% of respondents support this method), distantly followed by fertility/birth control (30%), professionals or sharpshooters (26%), and trapping and killing (19%).

Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (10% do so) and the second regarding allowing others to hunt on their land (18% do so). In combining the results, 21% of residents of WMU 3C who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).

- There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 3% either hunt on their own property or allow others to hunt on the property.
- Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are a general opposition to hunting, concerns about safety, and liability concerns.
- Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (95%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (99%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 37
- Moderately support: 26
- Neither support nor oppose: 6
- Moderately oppose: 8
- Strongly oppose: 22
- Don't know: 1
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 38
- Moderately support: 26
- Neither support nor oppose: 5
- Moderately oppose: 8
- Strongly oppose: 22
- Don't know: 1

Owls home (n=368)

Does not own home (n=29)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 69%
- **Q33. Fertility or birth control**: 16%
- **Q31. Professionals or sharpshooters**: 10%
- **Q32. Trapping and killing**: 7%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 89%
- Q31. Professionals or sharpshooters: 26%
- Q32. Trapping and killing: 19%
- Q33. Fertility or birth control: 30%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 78%
- Q31. Professionals or sharpshooters: 67%
- Q33. Fertility or birth control: 57%
- Q30. Legal, regulated hunting: 7%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 66%
- Q31. Professionals or sharpshooters: 54%
- Q33. Fertility or birth control: 46%
- Q30. Legal, regulated hunting: 6%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 3
- No: 97

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=210)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 58%
- Property is too small / neighbors too close: 52%
- Oppose hunting in general: 8%
- Concerned about safety: 5%
- Liability: 4%
- Want to save hunting opportunities for self / family: 3%
- Not enough deer on property / not enough habitat: 1%
- Live on rented property: 1%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%

Multiple Responses Allowed
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1
- Somewhat likely: 3
- Neither likely nor unlikely: 0
- Somewhat unlikely: 0
- Very unlikely: 95
- Don't know: 1
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 2
- Neither likely nor unlikely: 0
- Somewhat unlikely: 0
- Very unlikely: 97
- Don't know: 1

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=207)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for tick-borne diseases (mean rating of 7.5), followed by three whose means are above the midpoint: deer-vehicle accidents (6.8), the health of the deer population (6.3), and the quality of deer habitat (5.8).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.7) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.5) and deer droppings in the yard (1.6).
    - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 3C, 64% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 3C may have experienced: 10% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 16% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 4% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were slightly more likely to have experienced deer problems and those who were aware of neighbors feeding deer or putting out attractants were much more likely to experience deer problems, compared to their counterparts.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania
Mean: 7.5

Q40. Deer-vehicle accidents in Pennsylvania
Mean: 6.8

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
Mean: 6.3

Q41. The quality of deer habitat in Pennsylvania
Mean: 5.8

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania
Mean: 3.7

Q38. Deer damage to plants and landscaping in his/her yard
Mean: 2.5

Q37. Deer droppings in his/her yard
Mean: 1.6
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 47%
- Q40. Deer-vehicle accidents in Pennsylvania: 33%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 23%
- Q41. The quality of deer habitat in Pennsylvania: 17%
- Q38. Deer damage to plants and landscaping in his/her yard: 12%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 7%
- Q37. Deer droppings in his/her yard: 6%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 26
- Sometimes: 18
- Rarely: 20
- Never: 36

Percent (n=434)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 31
- Sometimes: 25
- Rarely: 19
- Never: 47

Fed birds on his/her property in the past 12 months (n=193)
Did not feed birds on his/her property in the past 12 months (n=241)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 46 (25%)
- Sometimes: 14 (14%)
- Rarely: 19 (19%)
- Never: 2 (2%)

- Has fed deer or put out attractants in the past 12 months (n=26)
- Has not fed deer or put out attractants in the past 12 months (n=408)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 50 responses
- Sometimes: 36 responses
- Rarely: 21 responses
- Never: 39 responses

Legend:
- ■ Is aware of neighbors feeding deer or putting out attractants (n=35)
- □ Is not aware of neighbors feeding deer or putting out attractants (n=397)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 14%
- No: 86%

Fed birds on his/her property in the past 12 months (n=193)
Did not feed birds on his/her property in the past 12 months (n=241)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 41
- No: 93

- Is aware of neighbors feeding deer or putting out attractants (n=35)
- Is not aware of neighbors feeding deer or putting out attractants (n=397)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

<table>
<thead>
<tr>
<th></th>
<th>Percent (n=434)</th>
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<tbody>
<tr>
<td>Yes</td>
<td>16</td>
</tr>
<tr>
<td>No</td>
<td>84</td>
</tr>
</tbody>
</table>
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

- Yes: 5
- No: 95

Percent (n=74)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

- Yes: 4
- No: 95
- Don't know: Less than 1%
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 6% of residents of WMU 3C did this, and 8% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents were corn, apples, and salt/mineral blocks.
- Feeding birds: 47% of residents of WMU 3C did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 33% agree that this is okay, but 59% disagree (the rest are neutral).

A quarter of residents of WMU 3C (25%) consider themselves to be a hunter, most of whom have a Pennsylvania hunting license.

- Among residents of WMU 3C who live in a single-family home, 10% personally hunt deer on their property.
- A large majority of residents of WMU 3C (78%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 6
No: 94

Percent (n=434)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

Yes: 8%
No: 92%

Percent (n=434)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

<table>
<thead>
<tr>
<th>Feed/Attractant</th>
<th>Percent (n=26)</th>
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<tbody>
<tr>
<td>Corn</td>
<td>50</td>
</tr>
<tr>
<td>Apples</td>
<td>23</td>
</tr>
<tr>
<td>Salt / mineral block</td>
<td>20</td>
</tr>
<tr>
<td>Birdseed</td>
<td>8</td>
</tr>
<tr>
<td>Pellets / commercial feed</td>
<td>7</td>
</tr>
<tr>
<td>Other food products</td>
<td>7</td>
</tr>
<tr>
<td>Horse feed</td>
<td>4</td>
</tr>
<tr>
<td>Bread</td>
<td>4</td>
</tr>
<tr>
<td>Hay</td>
<td>2</td>
</tr>
</tbody>
</table>

Multiple Responses Allowed
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 47%
No: 53%

Percent (n=434)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 13
- Moderately agree: 20
- Neither agree nor disagree: 8
- Moderately disagree: 16
- Strongly disagree: 43
- Don't know: 1

Percent (n=434)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

- Yes: 10%
- No: 90%

Total respondents (n=397)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes: 78%
No: 20%
Don't know: 1%

Percent (n=434)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 3C say that the best way to provide them with information about deer in Pennsylvania is through direct mail (37% gave this response), followed by email (20%), newspapers (14%), the Internet (12% saying an Internet site other than the PGC and 2% saying the agency website; note that some said both), and TV (12%).

- Just more than two-fifths of residents of WMU 3C (43%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

Yes: 43
No: 57

Percent (n=434)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 85
- YouTube: 12
- Twitter: 3
- Don't know: 1

Percent (n=207)
RESULTS FOR WMU 3D

Location: From the New Jersey/PA state line, the Portland Toll Bridge to PA Rt. 611 at Portland; PA Rt. 611 south to PA Rt. 512 near Mount Bethel; PA Rt. 512 west to PA Rt. 946 near Moorestown; PA Rt. 946 west to PA Rt. 248 near Berlinsville; PA Rt. 248 north to I-476; I-476 north to I-80 near White Haven; I-80 west to I-81 near Drums; I-81 north to US Rt. 6 near Scranton; US Rt. 6 east to PA Rt. 652 at Indian Orchard; PA Rt. 652 east to the New York/PA state line.

<table>
<thead>
<tr>
<th>8. Lives in WMU 3D</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Has seen deer frequently on his/her property in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.05).</td>
</tr>
<tr>
<td>3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.05).</td>
</tr>
<tr>
<td>5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>6. Rates concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>6. Rates concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>6. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for more than the median number of years (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A large majority of residents of WMU 3D (64%) spent time viewing deer around their home in the past 12 months, and 25% took a trip of at least a mile to view deer.
  - One-fifth of those who took a deer-viewing trip (20%) used a spotlight to view the deer at night.

- A majority of residents of WMU 3D (71%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 15% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 64%
No: 36%

Percent (n=415)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 20

No: 80

Percent (n=103)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 43
- Somewhat satisfied: 28
- Neither satisfied nor dissatisfied: 12
- Somewhat dissatisfied: 8
- Very dissatisfied: 7
- Don't know: 2

(percent n=415)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 57% of residents of WMU 3D say with no caveats that they like having deer around, another 25% like having deer around but worry about the problems they may cause, and only 4% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 3D how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “4.” The most common ratings are the midpoint of “5” (20%), “0” (17%), and “10” (11%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 3D say that the herd size is just right (57%); otherwise, more say that it is too low (24%) than too high (13%).
  - Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is too high or too low rather than just right.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 57%
- I like having deer around but worry about problems they cause: 25%
- I generally regard deer as a nuisance: 4%
- I have no particular feeling about deer: 14%

(Percent n=415)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.28
Median = 4

Don't know 1

Percent (n=415)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

![Bar chart showing responses to Q41.]

- Mean = 6.20
- Median = 6

Don't know: 2
0: 8
1: 3
2: 10
3: 4
4: 12
5: 21
6: 8
7: 10
8: 12
9: 4
10: 21

Percent (n=415)
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.59
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 13
- Just right: 57
- Too low: 24
- Don't know: 6

Percent (n=415)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high**: 14 (3) for home owners, 18 (8) for non-home owners.
- **Just right**: 55 (71) for home owners, 18 (8) for non-home owners.
- **Too low**: 25 (18) for home owners, 14 (8) for non-home owners.
- **Don't know**: 5 (5) for home owners, 8 (8) for non-home owners.
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 7 (consider themselves a hunter), 15 (do not consider themselves a hunter)
- Just right: 43 (consider themselves a hunter), 63 (do not consider themselves a hunter)
- Too low: 50 (consider themselves a hunter), 13 (do not consider themselves a hunter)
- Don't know: 8 (consider themselves a hunter), 0 (do not consider themselves a hunter)
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

➢ The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 93% agree with managing for healthy and sustainable deer populations, 89% agree with managing the deer for a healthy and sustainable forest habitat, and 79% agree with managing for safe, acceptable levels of deer-human conflicts.

➢ Residents of WMU 3D who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.86 years. While 28% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

- Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just under half (49%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**: 54 out of 415
- **Moderately agree**: 35 out of 415
- **Neither agree nor disagree**: 2 out of 415
- **Moderately disagree**: 3 out of 415
- **Strongly disagree**: 4 out of 415
- **Don't know**: 1 out of 415

**Healthy and sustainable forest habitat**: 62 out of 415
**Healthy and sustainable deer populations**: 40 out of 415
**Safe and acceptable levels of deer-human conflicts**: 31 out of 415

Percent (n=415)
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 2
- 6-10 years: 11
- 5 years: 20
- 4 years: 5
- 3 years: 16
- 2 years: 12
- 1 year: 3
- Less than a year: 4
- Don't know: 28

Mean = 4.86  
Median = 4

Percent (n=162)
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

<table>
<thead>
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<th>Response</th>
<th>Count</th>
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<tbody>
<tr>
<td>Yes</td>
<td>49</td>
</tr>
<tr>
<td>No</td>
<td>48</td>
</tr>
<tr>
<td>Don't know</td>
<td>3</td>
</tr>
</tbody>
</table>

Percent (n=162)
A large majority of residents of WMU 3D (65%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 28% oppose, mostly *strong* opposition.

- Those residents of WMU 3D who live in a single-family home and own their home, compared to those who live in a single-family home but do not own their home, are much more likely to *strongly* support lethal methods, but less likely to moderately support them. Overall support is 65% among home owners and 70% among non-owners.

- The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (89% of respondents support this method), distantly followed by fertility/birth control (38%), professionals or sharpshooters (32%), and trapping and killing (20%).

Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (8% do so) and the second regarding allowing others to hunt on their land (11% do so). In combining the results, 13% of residents of WMU 3D who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property *and* allow others to do so as well).

- There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 2% either hunt on their own property or allow others to hunt on the property.

- Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are concerns about safety, a general opposition to hunting, and liability concerns.
• Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (94%). They were then asked if there is anything that would make them more likely to allow deer hunting; they are almost unanimous (97%) in saying that there is nothing that would make them more likely to allow deer hunting.

• The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.

  o Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 38
- Moderately support: 27
- Neither support nor oppose: 6
- Moderately oppose: 7
- Strongly oppose: 21
- Don’t know: 1

Percent (n=415)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support (39%)
- Moderately support (26%)
- Neither support nor oppose (11%)
- Moderately oppose (7%)
- Strongly oppose (22%)
- Don't know (12%)

Note: The survey was conducted with 351 respondents who own homes and 21 respondents who do not own homes. The percentages represent the distribution of responses across the different categories.
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 72%
- Q31. Professionals or sharpshooters: 17%
- Q32. Trapping and killing: 8%
- Q33. Fertility or birth control: 19%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 89%
- **Q33. Fertility or birth control**: 38%
- **Q31. Professionals or sharpshooters**: 32%
- **Q32. Trapping and killing**: 20%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 77%
- Q31. Professionals or sharpshooters: 63%
- Q33. Fertility or birth control: 52%
- Q30. Legal, regulated hunting: 10%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 63%
- Q31. Professionals or sharpshooters: 50%
- Q33. Fertility or birth control: 39%
- Q30. Legal, regulated hunting: 6%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes: 13

No: 87
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 1
- Neither likely nor unlikely: 0
- Somewhat unlikely: 2
- Very unlikely: 97

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=154)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.3), followed by three whose means are fairly close to one another: deer-vehicle accidents (6.6), the health of the deer population (6.6), and the quality of deer habitat (6.2).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.8) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.5) and deer droppings in the yard (1.5).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 3D, 73% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

The survey asked about specific nuisance problems with deer that residents of WMU 3D may have experienced: 16% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 11% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 6% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Crosstabulations show that those who fed birds were about the same as those who did not feed birds regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants, compared to those who were not, were more likely to say that they experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- **Q36.** Tick-borne diseases, such as Lyme disease, in Pennsylvania
  - Mean: 7.3

- **Q40.** Deer-vehicle accidents in Pennsylvania
  - Mean: 6.6

- **Q42.** The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
  - Mean: 6.6

- **Q41.** The quality of deer habitat in Pennsylvania
  - Mean: 6.2

- **Q39.** Deer impacts on the habitat and other wildlife in Pennsylvania
  - Mean: 3.8

- **Q38.** Deer damage to plants and landscaping in his/her yard
  - Mean: 2.5

- **Q37.** Deer droppings in his/her yard
  - Mean: 1.5
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania
  - 45%

- Q40. Deer-vehicle accidents in Pennsylvania
  - 33%

- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
  - 31%

- Q41. The quality of deer habitat in Pennsylvania
  - 25%

- Q38. Deer damage to plants and landscaping in his/her yard
  - 9%

- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania
  - 9%

- Q37. Deer droppings in his/her yard
  - 6%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 37%
- Sometimes: 18%
- Rarely: 17%
- Never: 27%

Percent (n=415)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: Fed birds on his/her property in the past 12 months (n=194) - 45%
- Sometimes: Did not feed birds on his/her property in the past 12 months (n=221) - 19%
- Rarely: Fed birds on his/her property in the past 12 months (n=194) - 13%
- Never: Did not feed birds on his/her property in the past 12 months (n=221) - 24%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 64
- Sometimes: 34
- Rarely: 18
- Never: 30

Legend:
- □ Has fed deer or put out attractants in the past 12 months (n=45)
- □ Has not fed deer or put out attractants in the past 12 months (n=370)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 66%
- Sometimes: 13%
- Rarely: 9%
- Never: 12%

- Is aware of neighbors feeding deer or putting out attractants (n=50)
- Is not aware of neighbors feeding deer or putting out attractants (n=351)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Yes: 29
No: 71

- Is aware of neighbors feeding deer or putting out attractants (n=50)
- Is not aware of neighbors feeding deer or putting out attractants (n=351)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania’s roads or highways?

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<th>Percent (n=415)</th>
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<tr>
<td>Yes</td>
<td>11</td>
</tr>
<tr>
<td>No</td>
<td>89</td>
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</tbody>
</table>
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

Yes: 6

No: 94

Percent (n=415)
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 11% of residents of WMU 3D did this, and 10% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
- Feeding birds: 49% of residents of WMU 3D did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 37% agree that this is okay, but 56% disagree (the rest are neutral).

More than a quarter of residents of WMU 3D (29%) consider themselves to be a hunter, about two-thirds of whom have a Pennsylvania hunting license.

- Among residents of WMU 3D who live in a single-family home, 8% personally hunt deer on their property.
- A large majority of residents of WMU 3D (78%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 11
No: 89

Percent (n=415)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

Yes: 10
No: 86
Don't know: 4

Percent (n=415)
Q53. What type of feed or attractant did you use?  
(Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Salt / mineral block: 48
- Corn: 44
- Apples: 16
- Bread: 11
- Horse feed: 10
- Hay: 4
- Pellets / commercial feed: 4
- Other food products: 3

Multiple Responses Allowed

Percent (n=45)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 49

No: 51

Percent (n=415)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 15
- Moderately agree: 22
- Neither agree nor disagree: 6
- Moderately disagree: 19
- Strongly disagree: 37
- Don't know: 2

(Percent (n=415))
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes 8

No 92

Percent (n=372)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 78%
- No: 21%
- Don't know: Less than 1%
SOURCES OF INFORMATION

- Most commonly, residents of WMU 3D say that the best way to provide them with information about deer in Pennsylvania is through direct mail (44% gave this response), followed by newspaper (18%), email (15%), and the Internet (11% saying an Internet site other than the PGC and 6% saying the agency website; note that some said both).

- More than two-fifths of residents of WMU 3D (43%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

Multiple Responses Allowed

- Direct mail: 44%
- Newspaper: 18%
- Email: 15%
- Internet / website other than PGC website: 11%
- TV: 10%
- PA Game Commission website: 6%
- Brochures or pamphlets: 5%
- Magazines: 3%
- Telephone: 2%
- PA Hunting and Trapping Digest: 1%
- Social media: 1%
- Radio: 1%
- PA Game Commission offices: 1%
- Don't know: 5%

Percent (n=415)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

Yes: 43%

No: 57%

(Percent n=415)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 92
- YouTube: 5
- Twitter: 3

Percent (n=191)
RESULTS FOR WMU 4A

Location: The Maryland/PA state line, US Rt. 220 north to I-99 near Bedford; I-99 north to US Rt. 22 near Hollidaysburg; US Rt. 22 east to US Rt. 522 near Mount Union; US Rt. 522 south to US Rt. 30 near McConnellsburg; US Rt. 30 east to PA Rt. 75 near Fort Loudon; PA Rt. 75 south to the Maryland/PA state line.

<table>
<thead>
<tr>
<th>8. Lives in WMU 4A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Considers deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.001).</td>
</tr>
<tr>
<td>2. Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Indicates that he/she or a family member hunts (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Considers himself/herself to be a hunter (p &lt; 0.001).</td>
</tr>
<tr>
<td>6. Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>7. Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>9. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>10. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>11. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p &lt; 0.05).</td>
</tr>
<tr>
<td>12. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>13. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>14. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>15. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p &lt; 0.05).</td>
</tr>
<tr>
<td>16. Does not indicate using Facebook (including not using any social media) (p &lt; 0.05).</td>
</tr>
<tr>
<td>17. Does not consider place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A majority of residents of WMU 4A (65%) spent time viewing deer around their home in the past 12 months, and 39% took a trip of at least a mile to view deer.
  - A little more than a third of those who took a deer-viewing trip (36%) used a spotlight to view the deer at night.

- A majority of residents of WMU 4A (68%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 20% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 39

No: 61
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>64</td>
<td></td>
</tr>
</tbody>
</table>

Percent (n=188)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 38
- Somewhat satisfied: 30
- Neither satisfied nor dissatisfied: 12
- Somewhat dissatisfied: 9
- Very dissatisfied: 11

Percent (n=424)
**OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD**

- Opinion on deer is mostly favorable: 66% of residents of WMU 4A say with no caveats that they like having deer around, another 16% like having deer around but worry about the problems they may cause, and only 3% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 4A how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are “0” (16%), the midpoint of “5” (15%), and “10” (14%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The most common response among residents of WMU 4A is that the herd size is just right (45%), closely followed by that it is too low (42%); only 4% say it is too high.
  - Those who own their home are about the same, compared to those who do not own their home, regarding their feelings about the size of the deer population in their area.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

<table>
<thead>
<tr>
<th>Feeling</th>
<th>Percent (n=424)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I like having deer around</td>
<td>66</td>
</tr>
<tr>
<td>I like having deer around but worry about problems they cause</td>
<td>16</td>
</tr>
<tr>
<td>I generally regard deer as a nuisance</td>
<td>3</td>
</tr>
<tr>
<td>I have no particular feeling about deer</td>
<td>14</td>
</tr>
<tr>
<td>Don’t know</td>
<td>1</td>
</tr>
</tbody>
</table>

Percent (n=424)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.90
Median = 5
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

- 10: 16
- 9: 3
- 8: 19
- 7: 8
- 6: 5
- 5: 21
- 4: 5
- 3: 5
- 2: 3
- 1: 2
- 0: 12

Don't know: 1

Mean = 5.83
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.23
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

<table>
<thead>
<tr>
<th>Opinion</th>
<th>Percent (n=424)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Too high</td>
<td>4</td>
</tr>
<tr>
<td>Just right</td>
<td>45</td>
</tr>
<tr>
<td>Too low</td>
<td>42</td>
</tr>
<tr>
<td>Don't know</td>
<td>9</td>
</tr>
</tbody>
</table>
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

<table>
<thead>
<tr>
<th>Opinion</th>
<th>Owns home (n=363)</th>
<th>Does not own home (n=35)</th>
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</thead>
<tbody>
<tr>
<td>Too high</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Just right</td>
<td>44</td>
<td>43</td>
</tr>
<tr>
<td>Too low</td>
<td>44</td>
<td>39</td>
</tr>
<tr>
<td>Don't know</td>
<td>8</td>
<td>17</td>
</tr>
</tbody>
</table>

Percent
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 4, 4
- Just right: 26, 58
- Too low: 26, 64
- Don't know: 6, 11

- Consider themselves a hunter (n=202)
- Do not consider themselves a hunter (n=222)
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

➢ The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 94% agree with managing for healthy and sustainable deer populations, 90% agree with managing the deer for a healthy and sustainable forest habitat, and 82% agree with managing for safe, acceptable levels of deer-human conflicts.

➢ Residents of WMU 4A who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.38 years. While 25% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

• Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just less than half (48%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**: 57% (n=63)
- **Moderately agree**: 33% (n=39)
- **Neither agree nor disagree**: 1% (n=5)
- **Moderately disagree**: 4% (n=9)
- **Strongly disagree**: 1% (n=1)
- **Don't know**: 1% (n=1)

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

More than 10 years: 1
6-10 years: 6
5 years: 26
4 years: 9
3 years: 17
2 years: 14
1 year: 2
Less than a year: 0
Don't know: 25

Mean = 4.38
Median = 4

Percent (n=216)
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

Yes: 48

No: 50

Don't know: 2

Percent (n=216)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A large majority of residents of WMU 4A (67%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 25% oppose, mostly strong opposition.
  - Those residents of WMU 4A who live in a single-family home and own their home are slightly less likely to strongly support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (96% of respondents support this method), distantly followed by fertility/birth control (23%), trapping and killing (23%), and professionals or sharpshooters (21%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (16% do so) and the second regarding allowing others to hunt on their land (22% do so). In combining the results, 23% of residents of WMU 4A who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 5% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are concerns about safety and/or a general opposition to hunting.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (96%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (99%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 35
- Moderately support: 32
- Neither support nor oppose: 7
- Moderately oppose: 8
- Strongly oppose: 17
- Don't know: 1

(Percent n=424)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- **Strongly support**: 36 (Owens home) | 41 (Does not own home)
- **Moderately support**: 32 (Owens home) | 35 (Does not own home)
- **Neither support nor oppose**: 6 (Owens home) | 0 (Does not own home)
- **Moderately oppose**: 8 (Owens home) | 14 (Does not own home)
- **Strongly oppose**: 16 (Owens home) | 9 (Does not own home)
- **Don't know**: 2 (Owens home) | 1 (Does not own home)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 81%
- Q32. Trapping and killing: 10%
- Q31. Professionals or sharpshooters: 8%
- Q33. Fertility or birth control: 12%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 96%
- Q33. Fertility or birth control: 23%
- Q32. Trapping and killing: 23%
- Q31. Professionals or sharpshooters: 21%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 3%
- Q31. Professionals or sharpshooters: 71%
- Q32. Trapping and killing: 72%
- Q33. Fertility or birth control: 68%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

Q30. Legal, regulated hunting
Q31. Professionals or sharpshooters
Q32. Trapping and killing
Q33. Fertility or birth control

Percent

0 20 40 60 80 100
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 23
- No: 76
- Don't know: 1

Percent (n=398)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 5
- No: 94
- Don't know: 2

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=127)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 58
- Property is too small / neighbors too close: 51
- Concerned about safety: 6
- Oppose hunting in general: 3
- Live on rented property: 1
- Want to save hunting opportunities for self / family: 1
- Liability: 1
- Not enough deer on property / not enough habitat: 1

Multiple Responses Allowed

Percent (n=297)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1
- Somewhat likely: 2
- Somewhat unlikely: 1
- Very unlikely: 96

Percent (n=297)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1%
- Somewhat likely: 1%
- Somewhat unlikely: 1%
- Very unlikely: 98%

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=119)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.6), followed by three whose means are fairly close to one another: the health of the deer population (6.2), the quality of deer habitat (5.8), and deer-vehicle accidents (5.6).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.3) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (1.6) and deer droppings in the yard (1.1).

Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 4A, 62% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were more likely to indicate that they frequently saw deer. Those respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants were more likely than their counterparts to have frequently seen deer or to have ever seen deer.

The survey asked about specific nuisance problems with deer that residents of WMU 4A may have experienced: 6% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 16% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 6% indicated that they or a household member had been diagnosed with a tick-borne disease.

Crosstabulations show that those who fed birds were about the same as those who had not fed birds regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were much more likely to say that they experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.6
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.2
- Q41. The quality of deer habitat in Pennsylvania: 5.8
- Q40. Deer-vehicle accidents in Pennsylvania: 5.6
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.3
- Q38. Deer damage to plants and landscaping in his/her yard: 1.6
- Q37. Deer droppings in his/her yard: 1.1
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania
   - 46%

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
   - 25%

Q40. Deer-vehicle accidents in Pennsylvania
   - 21%

Q41. The quality of deer habitat in Pennsylvania
   - 19%

Q38. Deer damage to plants and landscaping in his/her yard
   - 5%

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania
   - 4%

Q37. Deer droppings in his/her yard
   - 3%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 30
- Sometimes: 16
- Rarely: 16
- Never: 38

Percent (n=424)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 34
- Sometimes: 15
- Rarely: 11
- Never: 39
- Don't know: 1

Fed birds on his/her property in the past 12 months (n=204)
Did not feed birds on his/her property in the past 12 months (n=220)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 54% (54 respondents)
- Sometimes: 22% (22 respondents)
- Rarely: 18% (18 respondents)
- Never: 42% (42 respondents)
- Don't know: 0% (0 respondents)

■ Has fed deer or put out attractants in the past 12 months (n=71)
□ Has not fed deer or put out attractants in the past 12 months (n=353)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 56
- Sometimes: 19
- Rarely: 11
- Never: 13
- Don't know: 1

- Is aware of neighbors feeding deer or putting out attractants (n=67)
- Is not aware of neighbors feeding deer or putting out attractants (n=344)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Yes: 6

No: 94
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Yes: 7

No: 94

Fed birds on his/her property in the past 12 months (n=204)
Did not feed birds on his/her property in the past 12 months (n=220)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 15%
- No: 95%

- □ Is aware of neighbors feeding deer or putting out attractants (n=67)
- □ Is not aware of neighbors feeding deer or putting out attractants (n=344)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 16
- No: 84

Percent (n=424)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

- Yes: 4
- No: 96

Percent (n=74)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

Yes: 6
No: 94

Percent (n=424)
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 16% of residents of WMU 4A did this, and 13% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents were corn, salt/mineral blocks, and apples.
  - Feeding birds: 50% of residents of WMU 4A did this.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 61% agree that this is okay, but 30% disagree (the rest are neutral).

- Well more than a third of residents of WMU 4A (41%) consider themselves to be a hunter, most of whom have a Pennsylvania hunting license.
  - Among residents of WMU 4A who live in a single-family home, 16% personally hunt deer on their property.
  - A large majority of residents of WMU 4A (88%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 16
No: 84

Percent (n=424)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>13</td>
</tr>
<tr>
<td>No</td>
<td>84</td>
</tr>
<tr>
<td>Don't know</td>
<td>3</td>
</tr>
</tbody>
</table>

Percent (n=424)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 54%
- Salt / mineral block: 41%
- Apples: 21%
- Pellets / commercial feed: 6%
- Other food products: 5%
- Food plot: 1%
- Other: 2%
- Don't know: 1%

Percent (n=71)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

- Yes: 50%
- No: 50%

Percent (n=424)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 35
- Moderately agree: 26
- Neither agree nor disagree: 8
- Moderately disagree: 11
- Strongly disagree: 19
- Don't know: 1

(Percent n=424)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes

0 20 40 60 80 100

Percent (n=398)

No

16

84
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 88
- No: 12

Percent (n=424)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 4A say that the best way to provide them with information about deer in Pennsylvania is through direct mail (42% gave this response), followed by newspaper (21%), email (12%), TV (11%), and the Internet (10% saying an Internet site other than the PGC and 6% saying the agency website; note that some said both).

- More than a third of residents of WMU 4A (37%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Direct mail: 42
- Newspaper: 21
- Email: 12
- TV: 11
- Internet / website other than PGC website: 10
- Brochures or pamphlets: 6
- PA Game Commission website: 6
- Magazines: 5
- Radio: 4
- PA Hunting and Trapping Digest: 3
- Public presentations: 1
- PA Game Commission offices: 1
- Telephone: 1
- Other: 1
- Don't know: 8

Multiple Responses Allowed

Percent (n=424)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 37
- No: 62
- Don't know: Less than 1%

Percent (n=424)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 88%
- YouTube: 6%
- Twitter: 5%
- Other: 1%

Percent (n=178)
RESULTS FOR WMU 4B

Location: From Mount Union, US Rt. 22/522 east to Lewistown; from Lewistown, US Rt. 22/322 east to PA Rt. 35 near Mifflintown; PA Rt. 35 east to PA Rt. 104 at Mount Pleasant Mills; PA Rt. 104 south to the intersection with US Rt. 11/15; from this intersection, directly east to the Susquehanna River; the Susquehanna River south to I-81 near Harrisburg; I-81 south to I-76 near Carlisle; I-76 west to PA Rt. 997 near Newburg; PA Rt. 997 south to US Rt. 11 at Green Village; US Rt. 11 south to US Rt. 30 at Chambersburg; US Rt. 30 west to US Rt. 522 near McConnellsburg; US Rt. 522 north to US Rt. 22 at Mount Union.
### 8. Lives in WMU 4B

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<tr>
<td>3. Has a valid 2011 PA general hunting license (p &lt; 0.001).</td>
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<tr>
<td>3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3. Fed birds or make birdfeed available on his/her property in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3. Fed deer intentionally or put out attractants in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3. Considers himself/herself to be a hunter (p &lt; 0.001).</td>
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<tr>
<td>3. Indicates that he/she or a family member hunts (p &lt; 0.01).</td>
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<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
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<td>4. Does not strongly or moderately support professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.05).</td>
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<tr>
<td>4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.05).</td>
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<tr>
<td>4. Does not strongly or moderately agree that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ≤ 0.05).</td>
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<tr>
<td>4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p ≤ 0.05).</td>
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<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
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<td>5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.01).</td>
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<tr>
<td>5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.05).</td>
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<tr>
<td>8. Has the median number or fewer people living in his/her household (p ≤ 0.001).</td>
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<td>8. Does not consider place of residence to be an urban or suburban area (p ≤ 0.01).</td>
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<tr>
<td>8. Primary place of residence is a single-family home (p ≤ 0.01).</td>
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See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- About two-thirds of residents of WMU 4B (66%) spent time viewing deer around their home in the past 12 months, and 39% took a trip of at least a mile to view deer.
  - About two-fifths of those who took a deer-viewing trip (39%) used a spotlight to view the deer at night.

- A majority of residents of WMU 4B (71%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 14% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 66%
No: 34%

Percent (n=413)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- Yes: 39%
- No: 60%
- Don’t know: Less than 1%

Percent (n=413)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 39%
No: 61%

Percent (n=153)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 43%
- Somewhat satisfied: 28%
- Neither satisfied nor dissatisfied: 12%
- Somewhat dissatisfied: 7%
- Very dissatisfied: 7%
- Don't know: 2%
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 70% of residents of WMU 4B say with no caveats that they like having deer around, another 16% like having deer around but worry about the problems they may cause, and only 2% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 4B how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are the midpoint of “5” (21%) and “0” (18%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 4B say that the herd size is just right (53%); otherwise, more say that it is too low (33%) than too high (6%).
  - Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is just right; they are less likely to say that the deer population is either too high or too low.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 70%
- I like having deer around but worry about problems they cause: 16%
- I generally regard deer as a nuisance: 2%
- I have no particular feeling about deer: 11%

(Percent, n=413)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

- Mean = 4.61
- Median = 5

Don't know: 2
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Percent (n=413)

- Mean = 6.00
- Median = 6

Don't know

0 = 3
1 = 0
2 = 2
3 = 1
4 = 4
5 = 18
6 = 10
7 = 12
8 = 15
9 = 4
10 = 15

Percent (n=413)
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.39
Median = 7

Don't know

Percent (n=413)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 6%
- Just right: 53%
- Too low: 33%
- Don't know: 8%

Percent (n=413)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 2 (Consider themselves a hunter), 9 (Do not consider themselves a hunter)
- Just right: 41 (Consider themselves a hunter), 61 (Do not consider themselves a hunter)
- Too low: 19 (Consider themselves a hunter), 54 (Do not consider themselves a hunter)
- Don't know: 2 (Consider themselves a hunter), 12 (Do not consider themselves a hunter)
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 93% agree with managing for healthy and sustainable deer populations, 88% agree with managing the deer for a healthy and sustainable forest habitat, and 78% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 4B who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.58 years. While 35% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just less than a majority (49%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**
  - Healthy and sustainable forest habitat: 47
  - Healthy and sustainable deer populations: 36
  - Safe and acceptable levels of deer-human conflicts: 53

- **Moderately agree**
  - Healthy and sustainable forest habitat: 41
  - Healthy and sustainable deer populations: 40
  - Safe and acceptable levels of deer-human conflicts: 42

- **Neither agree nor disagree**
  - Healthy and sustainable forest habitat: 3
  - Healthy and sustainable deer populations: 3
  - Safe and acceptable levels of deer-human conflicts: 5

- **Moderately disagree**
  - Healthy and sustainable forest habitat: 5
  - Healthy and sustainable deer populations: 3
  - Safe and acceptable levels of deer-human conflicts: 7

- **Strongly disagree**
  - Healthy and sustainable forest habitat: 4
  - Healthy and sustainable deer populations: 2
  - Safe and acceptable levels of deer-human conflicts: 7

- **Don't know**
  - Healthy and sustainable forest habitat: 1
  - Healthy and sustainable deer populations: 0
  - Safe and acceptable levels of deer-human conflicts: 3

Percent (n=413)
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

More than 10 years: 2
6-10 years: 7
5 years: 22
4 years: 4
3 years: 17
2 years: 11
1 year: 2
Less than a year: 1
Don't know: 35

Mean = 4.58
Median = 4
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 49%
- No: 43%
- Don't know: 8%
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A large majority of residents of WMU 4B (63%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 28% oppose, mostly strong opposition.

  - Those residents of WMU 4B who live in a single-family home and own their home are much more likely to strongly support but less likely to moderately support lethal methods, compared to those who live in a single-family home but do not own their home. Overall, total support is 65% among homeowners and 61% among non-owners.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (93% of respondents support this method), distantly followed by fertility/birth control (31%), trapping and killing (27%), and professionals or sharpshooters (26%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (20% do so) and the second regarding allowing others to hunt on their land (24% do so). In combining the results, 30% of residents of WMU 4B who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).

  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 4% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Other minor reasons are concerns about safety, wanting to save the hunting opportunities for self/family, a general opposition to hunting, and liability concerns.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they say this is
very unlikely (93%). They were then asked if there is anything that would make them more likely to allow deer hunting; they are almost unanimous (98%) in saying that there is nothing that would make them more likely to allow deer hunting.

• The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, all of them say that they would never allow hunting.
  o Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 32
- Moderately support: 31
- Neither support nor oppose: 7
- Moderately oppose: 10
- Strongly oppose: 18
- Don’t know: 2

Percent (n=413)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 36% (Owning home: 19, Does not own home: 29)
- Moderately support: 29% (Owning home: 42, Does not own home: 4)
- Neither support nor oppose: 7% (Owning home: 4, Does not own home: 11)
- Moderately oppose: 9% (Owning home: 18, Does not own home: 18)
- Strongly oppose: 18% (Owning home: 12, Does not own home: 18)
- Don't know: 1% (Owning home: 4, Does not own home: 4)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 72%
- Q33. Fertility or birth control: 13%
- Q32. Trapping and killing: 10%
- Q31. Professionals or sharpshooters: 9%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 93%
- **Q32. Trapping and killing**: 27%
- **Q33. Fertility or birth control**: 31%
- **Q31. Professionals or sharpshooters**: 26%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 5%
- Q31. Professionals or sharpshooters: 69%
- Q32. Trapping and killing: 69%
- Q33. Fertility or birth control: 57%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 3%
- Q31. Professionals or sharpshooters: 53%
- Q32. Trapping and killing: 56%
- Q33. Fertility or birth control: 45%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

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<th>Yes</th>
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<td>30</td>
<td>70</td>
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Percent (n=354)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

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<th>Yes</th>
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<tbody>
<tr>
<td>Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=96)</td>
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<td>96</td>
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Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 59%
- Live in residential neighborhood / suburban or urban area: 48%
- Concerned about safety: 8%
- Want to save hunting opportunities for self / family: 5%
- Oppose hunting in general: 4%
- Liability: 3%
- Not enough deer on property / not enough habitat: 1%
- Live on rented property: 1%
- Privacy concerns: 1%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%
- No one has asked for hunting access: 1%

Multiple Responses Allowed

Percent (n=275)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1
- Somewhat likely: 2
- Somewhat unlikely: 3
- Very unlikely: 93

Percent (n=275)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Yes 2

No 98

Percent (n=275)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 0
- Somewhat unlikely: 2
- Very unlikely: 98

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=95)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.4), followed by three whose means are fairly close to one another: the health of the deer population (6.4), the quality of deer habitat (6.0), and deer-vehicle accidents (5.9).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.4) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (1.6) and deer droppings in the yard (1.1).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 4B, 70% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants, compared to their counterparts who did not do these activities.

The survey asked about specific nuisance problems with deer that residents of WMU 4B may have experienced: 5% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 9% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 5% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Crosstabulations show that those who fed birds were about the same as those who had not fed birds regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were much more likely to say that they experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.4
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.4
- Q41. The quality of deer habitat in Pennsylvania: 6.0
- Q40. Deer-vehicle accidents in Pennsylvania: 5.9
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.4
- Q38. Deer damage to plants and landscaping in his/her yard: 1.6
- Q37. Deer droppings in his/her yard: 1.1
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania - 42%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania - 27%
- Q40. Deer-vehicle accidents in Pennsylvania - 22%
- Q41. The quality of deer habitat in Pennsylvania - 20%
- Q38. Deer damage to plants and landscaping in his/her yard - 4%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania - 4%
- Q37. Deer droppings in his/her yard - 3%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 28
- Sometimes: 22
- Rarely: 20
- Never: 30

Percent (n=413)
Q49. How often have you seen deer on your property in the past 12 months?
Q49. How often have you seen deer on your property in the past 12 months?
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 57
- Sometimes: 23
- Rarely: 18
- Never: 6

- Is aware of neighbors feeding deer or putting out attractants (n=68)
- Is not aware of neighbors feeding deer or putting out attractants (n=337)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 20%
- No: 80%

- Is aware of neighbors feeding deer or putting out attractants (n=68)
- Is not aware of neighbors feeding deer or putting out attractants (n=337)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 9
- No: 89
- Don't know: 2

Percent (n=413)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

- Yes: 4
- No: 96
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

- Yes: 5
- No: 94
- Don't know: Less than 1%

(Number of respondents: n=413)
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 18% of residents of WMU 4B did this, and 16% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
- Feeding birds: 60% of residents of WMU 4B did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 57% agree that this is okay, but 35% disagree (the rest are neutral).

About two-fifths of residents of WMU 4B (41%) consider themselves to be a hunter, most of whom have a Pennsylvania hunting license.

- Among residents of WMU 4B who live in a single-family home, 20% personally hunt deer on their property.
- A large majority of residents of WMU 4B (87%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

- Yes: 18
- No: 82

Percent (n=413)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 16
- No: 83
- Don't know: 2

Percent (n=413)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Salt / mineral block: 53%
- Corn: 50%
- Apples: 13%
- Food plot: 3%
- Birdseed: 2%
- Pellets / commercial feed: 2%
- Other food products: 1%
- Hay: 1%
- Other: 3%
- Don't know: 2%

Multiple Responses Allowed

Percent (n=72)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

Yes: 60%
No: 40%

Percent (n=413)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 29
- Moderately agree: 28
- Neither agree nor disagree: 7
- Moderately disagree: 13
- Strongly disagree: 22
- Don't know: 1

Percent (n=413)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

- Yes: 20
- No: 80

Percent (n=354)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes: 87
No: 13

Percent (n=413)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 4B say that the best way to provide them with information about deer in Pennsylvania is through direct mail (37% gave this response), followed by newspaper (18%), email (17%), and the Internet (10% saying an Internet site other than the PGC and 4% saying the agency website; note that some said both).

- Just about half of residents of WMU 4B (41%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

Direct mail: 37%
Newspaper: 18%
Email: 17%
Internet / website other than PGC website: 10%
TV: 9%
Magazines: 5%
Brochures or pamphlets: 4%
PA Game Commission website: 4%
PA Hunting and Trapping Digest: 3%
Radio: 2%
Public presentations: 1%
Social media: 1%
PA Game Commission offices: 1%
Don't know: 8%
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 89
- YouTube: 6
- Twitter: 4
- Other: 1

Percent (n=148)
RESULTS FOR WMU 4C

Location: From Millersburg, US Rt. 209 east to I-81 near Joliett; I-81 north to PA Rt. 61 near Frackville; PA Rt. 61 north to PA Rt. 42 at Centralia; PA Rt. 42 north to I-80 near Bloomsburg; I-80 east to I-476 near White Haven; I-476 south to PA Rt. 248; PA Rt. 248 east to PA Rt. 873; PA Rt. 873 south to PA Rt. 309; PA Rt. 309 west to PA Rt. 143; PA Rt. 143 south to I-78; I-78 to I-81 to the Susquehanna River near Harrisburg; the Susquehanna River north to Millersburg Ferry to US Rt. 209.

<table>
<thead>
<tr>
<th>8. Lives in WMU 4C</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p &lt; 0.001).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.05).</td>
</tr>
<tr>
<td>4. Does not strongly or moderately support lethal methods to manage deer populations in PA (p &lt; 0.05).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>7. Does not indicate using Facebook (including not using any social media) (p &lt; 0.01).</td>
</tr>
<tr>
<td>7. Does not indicate using social media, such as Facebook, Twitter, or YouTube (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for more than the median number of years (p &lt; 0.05).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A majority of residents of WMU 4C (59%) spent time viewing deer around their home in the past 12 months, and 26% took a trip of at least a mile to view deer.
  - Two-fifths of those who took a deer-viewing trip (40%) used a spotlight to view the deer at night.

- A majority of residents of WMU 4C (69%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 13% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- Yes: 59%
- No: 41%

(n=416)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- Yes: 26
- No: 74
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 39
- Somewhat satisfied: 30
- Neither satisfied nor dissatisfied: 17
- Somewhat dissatisfied: 6
- Very dissatisfied: 7
- Don't know: 2

Percent (n=416)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 61% of residents of WMU 4C say with no caveats that they like having deer around, another 24% like having deer around but worry about the problems they may cause, and only 2% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 4C how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are “0” (18%) and the midpoint of “5” (17%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 4C say that the herd size is just right (56%); otherwise, more say that it is too low (26%) than too high (7%).
  - Those who own their home are more about the same as those who do not own their home regarding opinion on the deer population in their area.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 61%
- I like having deer around but worry about problems they cause: 24%
- I generally regard deer as a nuisance: 2%
- I have no particular feeling about deer: 13%
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.32
Median = 5

Don't know

Percent (n=416)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.12
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.48
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 7
- Just right: 56
- Too low: 26
- Don't know: 11

Percent (n=416)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 3 (3% for consider themselves a hunter, 9% for do not consider themselves a hunter)
- Just right: 48 (48% for consider themselves a hunter, 59% for do not consider themselves a hunter)
- Too low: 44 (44% for consider themselves a hunter, 18% for do not consider themselves a hunter)
- Don't know: 5 (5% for consider themselves a hunter, 14% for do not consider themselves a hunter)

Consider themselves a hunter (n=139)
Do not consider themselves a hunter (n=275)
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 87% agree with managing the deer for a healthy and sustainable forest habitat, 91% agree with managing for healthy and sustainable deer populations, and 83% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 4C who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 5.16 years. While 35% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just less than a majority (47%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- Strongly agree: 51%
- Moderately agree: 36%
- Neither agree nor disagree: 2%
- Moderately disagree: 2%
- Strongly disagree: 6%
- Don't know: 1%

Percent (n=416)

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 2
- 6-10 years: 6
- 5 years: 21
- 4 years: 8
- 3 years: 10
- 2 years: 14
- 1 year: 3
- Don't know: 35

Mean = 5.16
Median = 4

Percent (n=140)
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 47
- No: 47
- Don't know: 6

Percent (n=140)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A majority of residents of WMU 4C (59%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 32% oppose, mostly strong opposition.
  - Those residents of WMU 4C who live in a single-family home and own their home are more likely to oppose lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (88% of respondents support this method), distantly followed by fertility/birth control (37%), professionals or sharpshooters (28%), and trapping and killing (20%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (9% do so) and the second regarding allowing others to hunt on their land (14% do so). In combining the results, 15% of residents of WMU 4C who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 2% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are a general opposition to hunting and concerns about safety.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (96%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (98%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 37
- Moderately support: 22
- Neither support nor oppose: 6
- Moderately oppose: 9
- Strongly oppose: 23
- Don’t know: 3

Percent (n=416)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 36 (37)
- Moderately support: 22 (27)
- Neither support nor oppose: 5 (14)
- Moderately oppose: 10 (3)
- Strongly oppose: 22 (18)
- Don't know: 4 (0)

[Graph showing the distribution of responses by homeownership status.]

- Owns home (n=337)
- Does not own home (n=32)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 74%
- Q31. Professionals or sharpshooters: 11%
- Q32. Trapping and killing: 8%
- Q33. Fertility or birth control: 20%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 88%
- **Q33. Fertility or birth control**: 37%
- **Q31. Professionals or sharpshooters**: 28%
- **Q32. Trapping and killing**: 20%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 8%
- Q31. Professionals or sharpshooters: 65%
- Q32. Trapping and killing: 77%
- Q33. Fertility or birth control: 51%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 5%
- Q31. Professionals or sharpshooters: 53%
- Q32. Trapping and killing: 61%
- Q33. Fertility or birth control: 40%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 54%
- Property is too small / neighbors too close: 50%
- Oppose hunting in general: 8%
- Concerned about safety: 6%
- Liability: 2%
- Not enough deer on property / not enough habitat: 2%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 2%
- Want to save hunting opportunities for self / family: 1%

Multiple Responses Allowed

Percent (n=321)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 2
- Somewhat likely: 2
- Somewhat unlikely: 0
- Very unlikely: 96

Percent (n=321)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>2%</td>
<td>98%</td>
</tr>
</tbody>
</table>
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

![Bar chart showing likelihood of allowing others to deer hunt on property.]

- Very likely: 2
- Somewhat likely: 0
- Somewhat unlikely: 0
- Very unlikely: 98

Legend: Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=156)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for tick-borne diseases (mean rating of 7.3), followed by three whose means are fairly close to one another: the health of the deer population (6.5), deer-vehicle accidents (6.2), and the quality of deer habitat (6.1).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.7) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (1.9) and deer droppings in the yard (1.2).
    - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 4C, 67% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 4C may have experienced: 10% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 8% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 5% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were about the same as those who had not fed birds regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were much more likely to say that they experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania
Mean: 7.3

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
Mean: 6.5

Q40. Deer-vehicle accidents in Pennsylvania
Mean: 6.2

Q41. The quality of deer habitat in Pennsylvania
Mean: 6.1

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania
Mean: 3.7

Q38. Deer damage to plants and landscaping in his/her yard
Mean: 1.9

Q37. Deer droppings in his/her yard
Mean: 1.2
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 45%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 28%
- Q40. Deer-vehicle accidents in Pennsylvania: 26%
- Q41. The quality of deer habitat in Pennsylvania: 21%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 6%
- Q38. Deer damage to plants and landscaping in his/her yard: 5%
- Q37. Deer droppings in his/her yard: 3%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 28
- Sometimes: 20
- Rarely: 19
- Never: 33

Percent (n=416)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 31
- Sometimes: 21
- Rarely: 18
- Never: 30

Fed birds on his/her property in the past 12 months (n=196)
Did not feed birds on his/her property in the past 12 months (n=220)
Q49. How often have you seen deer on your property in the past 12 months?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Has fed deer or put out attractants in the past 12 months (n=52)</th>
<th>Has not fed deer or put out attractants in the past 12 months (n=364)</th>
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</thead>
<tbody>
<tr>
<td>Frequently</td>
<td>59</td>
<td>24</td>
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<tr>
<td>Sometimes</td>
<td>14</td>
<td>20</td>
</tr>
<tr>
<td>Rarely</td>
<td>16</td>
<td>19</td>
</tr>
<tr>
<td>Never</td>
<td>11</td>
<td>36</td>
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</tbody>
</table>
Q49. How often have you seen deer on your property in the past 12 months?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Aware of Neighbors Feeding Deer (%)</th>
<th>Not Aware of Neighbors Feeding Deer (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequently</td>
<td>53</td>
<td>25</td>
</tr>
<tr>
<td>Sometimes</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>Rarely</td>
<td>14</td>
<td>20</td>
</tr>
<tr>
<td>Never</td>
<td>15</td>
<td>36</td>
</tr>
</tbody>
</table>

- Is aware of neighbors feeding deer or putting out attractants (n=53)
- Is not aware of neighbors feeding deer or putting out attractants (n=355)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 8
- No: 92

Percent (n=416)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

- Yes: 5
- No: 94
- Don't know: 1

Percent (n=416)
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 12% of residents of WMU 4C did this, and 13% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
- Feeding birds: 49% of residents of WMU 4C did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 44% agree that this is okay, but 44% disagree (the rest are neutral).

Just under a third of residents of WMU 4C (31%) consider themselves to be a hunter, about two-thirds of whom have a Pennsylvania hunting license.

- Among residents of WMU 4C who live in a single-family home, 9% personally hunt deer on their property.
- A large majority of residents of WMU 4C (79%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 12
No: 88

Percent (n=416)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 13
- No: 86
- Don't know: 1

Percent (n=416)
Q53. What type of feed or attractant did you use?  
(Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Salt / mineral block: 48
- Corn: 38
- Apples: 14
- Other food products: 7
- Pellets / commercial feed: 4
- Bread: 3
- Other: 3
- Food plot: 2
- Horse feed: 1
- Don’t know: 6

Percent (n=52)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

- Yes: 49
- No: 51

Percent (n=416)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 21
- Moderately agree: 23
- Neither agree nor disagree: 10
- Moderately disagree: 16
- Strongly disagree: 28
- Don’t know: 2

Percent (n=416)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

<table>
<thead>
<tr>
<th>Yes</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>91</td>
</tr>
</tbody>
</table>

Percent (n=369)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes 79

No 21

Percent (n=416)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 4C say that the best way to provide them with information about deer in Pennsylvania is through direct mail (36% gave this response), followed by newspaper (17%), the Internet (13% saying an Internet site other than the PGC and 4% saying the agency website; note that some said both), email (12%), and TV (11%).

- Just over a third of residents of WMU 4C (38%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

Direct mail: 36%
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Internet/website other than PGC website: 13%
Email: 12%
TV: 11%
Brochures or pamphlets: 4%
PA Game Commission website: 4%
Magazines: 3%
Radio: 2%
PA Hunting and Trapping Digest: 2%
Public presentations: 2%
Telephone: 1%
Don’t know: 10%

Multiple Responses Allowed

Percent (n=416)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

Yes: 38
No: 61
Don't know: 1

Percent (n=416)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 80 (n=179)
- YouTube: 12
- Twitter: 5
- Other: 2
- Don't know: 1

Percent (n=179)
### RESULTS FOR WMU 4D

Location: From Williamsport, US Rt. 15 to the Susquehanna River; the Susquehanna River south to PA Rt. 45 at Lewistown; PA Rt. 45 west to PA Rt. 104 at Mifflinburg; PA Rt. 104 south to PA Rt. 35 at Mount Pleasant Mills; PA Rt. 35 west to US Rt. 22/322 near Mifflintown; US Rt. 22/322 west to Lewistown; from Lewistown, US Rt. 22/522 west to Mount Union; from Mount Union, US Rt. 22 west to PA Rt. 53 near Cresson; PA Rt. 53 north to I-80 near Kylertown; I-80 east to US Rt. 220 near Mackeyville; US Rt. 220 north to US Rt. 15 at Williamsport.

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<tbody>
<tr>
<td>8. Lives in WMU 4D</td>
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<tr>
<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
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</tr>
<tr>
<td>3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.05).</td>
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<tr>
<td>4. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable forest habitat (p ≤ 0.001).</td>
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<tr>
<td>4. Does not consider the deer population in his/her area to be too high (p ≤ 0.01).</td>
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<td>4. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p ≤ 0.01).</td>
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<td>5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p ≤ 0.001).</td>
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<tr>
<td>5. Strongly or moderately agrees that it is OK for private citizens to feed or attract deer in PA (p ≤ 0.001).</td>
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<tr>
<td>5. Does not rate concern about deer droppings in their yard as a 9 or a 10 (p &lt; 0.001).</td>
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<tr>
<td>5. Does not rate concern about tick-borne diseases in PA as a 9 or a 10 (p &lt; 0.01).</td>
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<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.01).</td>
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<tr>
<td>5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.01).</td>
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<tr>
<td>6. Does not rate concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p &lt; 0.01).</td>
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</tr>
<tr>
<td>6. Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.05).</td>
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<tr>
<td>8. Is the median age or younger (p &lt; 0.001).</td>
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</tr>
<tr>
<td>8. Does not consider place of residence to be an urban or suburban area (p ≤ 0.05).</td>
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</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A majority of residents of WMU 4D (54%) spent time viewing deer around their home in the past 12 months, and 31% took a trip of at least a mile to view deer.
  - About a quarter of those who took a deer-viewing trip (27%) used a spotlight to view the deer at night.

- A majority of residents of WMU 4D (67%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 18% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 54%
No: 46%

(Percent n=414)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- Yes: 31
- No: 69

Percent (n=414)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes  27

No  73

Percent (n=140)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 35 (11%)
- Somewhat satisfied: 32 (8%)
- Neither satisfied nor dissatisfied: 11 (3%)
- Somewhat dissatisfied: 9 (2%)
- Very dissatisfied: 9 (2%)
- Don't know: 4 (1%)

Percent (n=414)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 68% of residents of WMU 4D say with no caveats that they like having deer around, another 17% like having deer around but worry about the problems they may cause, and only 1% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 4D how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are the midpoint of “5” (18%) and “0” (15%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “6” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. Just under half of residents of WMU 4D say that the herd size is just right (46%); otherwise, more say that it is too low (38%) than too high (8%).
  - Those who own their home are more likely, compared to those who do not own their home, to say that the deer population in their area is just right or too high; they are less likely to say that the deer population is too low.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 68%
- I like having deer around but worry about problems they cause: 17%
- I generally regard deer as a nuisance: 1%
- I have no particular feeling about deer: 12%
- Don’t know: 2%
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.50
Median = 5
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

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<tbody>
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<td>0</td>
<td>14</td>
</tr>
<tr>
<td>Don't know</td>
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Mean = 5.57
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.05
Median = 6
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 8%
- Just right: 46%
- Too low: 88%
- Don't know: 8%

Percent (n=414)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

<table>
<thead>
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<th>Does not own home (n=40)</th>
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<tr>
<td>Just right</td>
<td>48</td>
<td>34</td>
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<tr>
<td>Too low</td>
<td>36</td>
<td>62</td>
</tr>
<tr>
<td>Don't know</td>
<td>5</td>
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</tbody>
</table>

Percent
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 81% agree with managing the deer for a healthy and sustainable forest habitat, 91% agree with managing for healthy and sustainable deer populations, and 76% agree with managing for safe, acceptable levels of deer-human conflicts.

Residents of WMU 4D who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The median amount is 4 years. While 30% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

- Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just over half (51%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree:** 46% (n=56)
- **Moderately agree:** 35% (n=40)
- **Neither agree nor disagree:** 4% (n=5)
- **Moderately disagree:** 2% (n=10)
- **Strongly disagree:** 3% (n=6)
- **Don't know:** 2% (n=3)

Options:
- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

More than 10 years
6-10 years
5 years
4 years
3 years
2 years
1 year
Don't know

Percent (n=196)

Mean = 4.43
Median = 4
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 51
- No: 44
- Don't know: 5

Percent (n=196)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A large majority of residents of WMU 4D (65%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 27% oppose.
  - Those residents of WMU 4D who live in a single-family home and own their home are less likely to support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (91% of respondents support this method), distantly followed by fertility/birth control (37%), professionals or sharpshooters (37%), and trapping and killing (25%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (13% do so) and the second regarding allowing others to hunt on their land (20% do so). In combining the results, 23% of residents of WMU 4D who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 8% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are concerns about safety and/or a general opposition to hunting.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (95%). They were then asked if there is
anything that would make them more likely to allow deer hunting; 
they are almost unanimous (97%) in saying that there is nothing 
that would make them more likely to allow deer hunting.

• The question about allowing others to hunt on their property was examined among the 
subgroup previously discussed (those who live in a single-family home; who live on 1 
acre or less; and who live in an urban, suburban area, or a small city/town). Among 
this group who got the question, nearly all say that they would never allow hunting.

  o Additional follow-up questions to be asked of those who indicated that something 
might prompt them to allow hunting on their property did not have enough 
respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 33%
- Moderately support: 32%
- Neither support nor oppose: 7%
- Moderately oppose: 12%
- Strongly oppose: 15%
- Don't know: 1%

Percent (n=414)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 36% (Owns home), 34% (Does not own home)
- Moderately support: 29% (Owns home), 43% (Does not own home)
- Neither support nor oppose: 7% (Owns home), 11% (Does not own home)
- Moderately oppose: 14% (Owns home), 3% (Does not own home)
- Strongly oppose: 13% (Owns home), 7% (Does not own home)
- Don't know: 1% (Owns home), 1% (Does not own home)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 73%
- Q33. Fertility or birth control: 17%
- Q31. Professionals or sharpshooters: 11%
- Q32. Trapping and killing: 7%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 91%
- Q33. Fertility or birth control: 37%
- Q31. Professionals or sharpshooters: 37%
- Q32. Trapping and killing: 25%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 7%
- Q31. Professionals or sharpshooters: 57%
- Q32. Trapping and killing: 72%
- Q33. Fertility or birth control: 54%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- **Q32. Trapping and killing**: 57%
- **Q31. Professionals or sharpshooters**: 43%
- **Q33. Fertility or birth control**: 41%
- **Q30. Legal, regulated hunting**: 5%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes: 23

No: 77

Percent (n=375)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 8
- No: 92

*Note: Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=150)*
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 56
- Property is too small / neighbors too close: 40
- Concerned about safety: 7
- Oppose hunting in general: 3
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 2
- Not enough deer on property / not enough habitat: 2
- Liability: 1
- Live on rented property: 1
- Want to save hunting opportunities for self / family: 1
- Concerned about bad behavior by hunters: 1

Percent (n=287)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 2
- Somewhat likely: 1
- Somewhat unlikely: 2
- Very unlikely: 95
- Don't know: 1

Percent (n=287)

WMU 4D
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Yes: 2
- No: 97
- Don't know: 1

Percent (n=287)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0%
- Somewhat likely: 0%
- Somewhat unlikely: 2%
- Very unlikely: 97%

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=141)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.2), followed by three whose means are fairly close to one another: deer-vehicle accidents (6.1), the health of the deer population (6.0), and the quality of deer habitat (5.6).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.3) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (1.5) and deer droppings in the yard (0.8).
- Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 4D, 52% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

The survey asked about specific nuisance problems with deer that residents of WMU 4D may have experienced: 6% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 17% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 4% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Crosstabulations show that those who fed birds were about the same as those who had not fed birds regarding experiencing deer problems, as were those who were aware of neighbors feeding deer or putting out attractants versus those who did not indicate being aware that neighbors fed deer.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania

Q40. Deer-vehicle accidents in Pennsylvania

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania

Q41. The quality of deer habitat in Pennsylvania

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania

Q38. Deer damage to plants and landscaping in his/her yard

Q37. Deer droppings in his/her yard
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 36%
- Q40. Deer-vehicle accidents in Pennsylvania: 24%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 20%
- Q41. The quality of deer habitat in Pennsylvania: 18%
- Q38. Deer damage to plants and landscaping in his/her yard: 2%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 2%
- Q37. Deer droppings in his/her yard: 1%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 21
- Sometimes: 14
- Rarely: 16
- Never: 48
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 23
- Sometimes: 14
- Rarely: 22
- Never: 41

- Fed birds on his/her property in the past 12 months (n=220)
- Did not feed birds on his/her property in the past 12 months (n=194)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 51
- Sometimes: 18
- Rarely: 22
- Never: 10

Has fed deer or put out attractants in the past 12 months (n=46)
Has not fed deer or put out attractants in the past 12 months (n=366)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 62
- Sometimes: 17
- Rarely: 13
- Never: 53

- Is aware of neighbors feeding deer or putting out attractants (n=44)
- Is not aware of neighbors feeding deer or putting out attractants (n=365)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 6
- No: 94

Percent (n=414)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

Yes: 17
No: 82
Don't know: Less than 1%

Percent (n=414)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes

No

Percent (n=70)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

- Yes: 4
- No: 95
- Don't know: Less than 1%

Percent (n=414)
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 12% of residents of WMU 4D did this, and 10% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents were corn, salt/mineral blocks, and apples.
- Feeding birds: 52% of residents of WMU 4D did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 58% agree that this is okay, but 36% disagree (the rest are neutral).

More than a third of residents of WMU 4D (35%) consider themselves to be a hunter, most of whom have a Pennsylvania hunting license.

- Among residents of WMU 4D who live in a single-family home, 13% personally hunt deer on their property.
- A large majority of residents of WMU 4D (84%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

- Yes: 12
- No: 88

Percent (n=414)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 10
- No: 88
- Don't know: 2

Percent (n=414)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Corn: 66 percent
- Salt / mineral block: 37 percent
- Apples: 16 percent
- Pellets / commercial feed: 7 percent

Multiple Responses Allowed
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

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</thead>
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<td>Percent</td>
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Percent (n=414)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

![Bar chart showing responses to Q56.]

- Strongly agree: 22
- Moderately agree: 36
- Neither agree nor disagree: 5
- Moderately disagree: 18
- Strongly disagree: 18
- Don't know: 1

Percent (n=414)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

- Yes: 13
- No: 86
- Don't know: Less than 1%

Percent (n=375)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 84
- No: 15
- Don't know: 1

(Percent = 414)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 4D say that the best way to provide them with information about deer in Pennsylvania is through direct mail (36% gave this response), followed by email (17%), newspaper (17%), and the Internet (15% saying an Internet site other than the PGC and 4% saying the agency website; note that some said both).

- Somewhat under half of residents of WMU 4D (43%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Direct mail: 36
- Email: 17
- Newspaper: 17
- Internet / website other than PGC website: 15
- TV: 11
- Brochures or pamphlets: 6
- PA Game Commission website: 4
- Magazines: 2
- Radio: 2
- PA Hunting and Trapping Digest: 2
- PA Game Commission offices: 1
- Other: 3
- Don't know: 9

Percent (n=414)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 43
- No: 56
- Don't know: 1

Percent (n=414)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 78
- YouTube: 11
- Twitter: 8
- Don't know: 3

Percent (n=175)
RESULTS FOR WMU 4E

Location: From Muncy, PA Rt. 405 east to PA Rt. 118 at Hughesville; PA Rt. 118 east to PA Rt. 29 near Pikes Creek; PA Rt. 29 south to I-81 near Nanticoke; I-81 south to I-80; I-80 west to PA Rt. 42 near Bloomsburg; PA Rt. 42 south to PA Rt. 61 at Centralia; PA Rt. 61 south to I-81 near Frackville; I-81 south to US Rt. 209 near Joliett; US Rt. 209 west to Millersburg Ferry; from Millersburg Ferry on the Susquehanna River north to a point directly east of the intersection of US Rts. 11 & 15 and PA Rt. 104; from this point, directly west to PA Rt. 104; PA Rt. 104 north to PA Rt. 45 at Mifflinburg; PA Rt. 45 east to the Susquehanna River; the Susquehanna River north to PA Rt. 405 at Muncy.

8. Lives in WMU 4E
3. Is very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
3. Has taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.01).
3. Indicates that he/she or a family member hunts (p < 0.05).
4. Does not consider the deer population in his/her area to be too high (p < 0.01).
4. Strongly or moderately agrees that deer populations should be managed for healthy and sustainable deer populations (p < 0.01).
4. Strongly or moderately supports lethal methods to manage deer populations in PA (p < 0.05).
4. Does not strongly or moderately support fertility or birth control as a method of controlling deer populations in PA (p < 0.05).
4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.05).
5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
5. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p < 0.05).
5. Rates concern about tick-borne diseases in PA as a 9 or a 10 (p < 0.05).
8. Does not consider place of residence to be an urban or suburban area (p < 0.001).

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A majority of residents of WMU 4E (62%) spent time viewing deer around their home in the past 12 months, and 36% took a trip of at least a mile to view deer.
  - About two-fifths of those who took a deer-viewing trip (38%) used a spotlight to view the deer at night.

- A majority of residents of WMU 4E (77%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 8% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes: 62%
No: 38%

Percent (n=422)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 36
No: 64

Percent (n=422)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes: 38%
No: 62%

(Percent n=155)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 50
- Somewhat satisfied: 27
- Neither satisfied nor dissatisfied: 13
- Somewhat dissatisfied: 4
- Very dissatisfied: 4
- Don't know: 3

Percent (n=422)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 61% of residents of WMU 4E say with no caveats that they like having deer around, another 26% like having deer around but worry about the problems they may cause, and only 3% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 4E how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are “0” (18%) and the midpoint of “5” (18%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 4E say that the herd size is just right (58%); otherwise, more say that it is too low (28%) than too high (8%).
  - Those who own their home are less likely, compared to those who do not own their home, to say that the deer population in their area is just right; they are more likely to say that the deer population is either too high or too low.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around (61%)
- I like having deer around but worry about problems they cause (26%)
- I generally regard deer as a nuisance (3%)
- I have no particular feeling about deer (10%)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

- Mean = 4.38
- Median = 5

Don't know

Percent (n=422)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Don't know

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Mean = 6.09
Median = 6

Percent (n=422)
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

- 0: 10
- 1: 2
- 2: 8
- 3: 7
- 4: 19
- 5: 21
- 6: 10
- 7: 18
- 8: 10
- 9: 10
- Don't know: 4

Mean = 6.20
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 8
- Just right: 58
- Too low: 28
- Don't know: 6

Percent (n=422)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 8 (2.2%) own home, 4 (16%) do not own home.
- Just right: 57 (16%) own home, 67 (267%) do not own home.
- Too low: 30 (8.4%) own home, 25 (100%) do not own home.
- Don't know: 5 (1.4%) own home, 3 (12%) do not own home.
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 7 (Consider themselves a hunter), 9 (Do not consider themselves a hunter)
- Just right: 40 (Consider themselves a hunter), 66 (Do not consider themselves a hunter)
- Too low: 18 (Consider themselves a hunter), 47 (Do not consider themselves a hunter)
- Don't know: 5 (Consider themselves a hunter), 7 (Do not consider themselves a hunter)
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 87% agree with managing the deer for a healthy and sustainable forest habitat, 95% agree with managing for healthy and sustainable deer populations, and 86% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 4E who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.69 years. While 40% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just less than a majority (47%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**: 58 (67%)
- **Moderately agree**: 29 (28%)
- **Neither agree nor disagree**: 2 (2%)
- **Moderately disagree**: 5 (5%)
- **Strongly disagree**: 1 (1%)
- **Don't know**: 2 (2%)

Options:
- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

![Bar chart showing the distribution of responses to the question. The chart shows the percentage of respondents for each time period.]

- More than 10 years: 1%
- 6-10 years: 11%
- 5 years: 20%
- 4 years: 6%
- 3 years: 11%
- 2 years: 9%
- 1 year: 3%
- Less than a year: 0%
- Don't know: 40%

Mean = 4.69
Median = 5
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 47
- No: 47
- Don't know: 6

Percent (n=160)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A large majority of residents of WMU 4E (70%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 25% oppose, mostly strong opposition.
  - Those residents of WMU 4E who live in a single-family home and own their home are much more likely to strongly support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (92% of respondents support this method), distantly followed by fertility/birth control (30%), professionals or sharpshooters (29%), and trapping and killing (25%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (18% do so) and the second regarding allowing others to hunt on their land (24% do so). In combining the results, 29% of residents of WMU 4E who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 4% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Other minor reasons are a general opposition to hunting, concerns about safety, and wanting to save the hunting opportunities for self or family.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (94%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (98%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 37%
- Moderately support: 33%
- Neither support nor oppose: 4%
- Moderately oppose: 5%
- Strongly oppose: 20%
- Don't know: 2%

(Percent n=422)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- **Strongly support**: 41
- **Moderately support**: 32
- **Neither support nor oppose**: 2
- **Moderately oppose**: 6
- **Strongly oppose**: 17
- **Don't know**: 2

For Owns home (n=357):
- **Strongly support**: 14
- **Moderately support**: 48
- **Neither support nor oppose**: 7
- **Moderately oppose**: 0
- **Strongly oppose**: 31
- **Don't know**: 0

For Does not own home (n=25):
- **Don't know**: 0
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 77%
- Q31. Professionals or sharpshooters: 13%
- Q32. Trapping and killing: 11%
- Q33. Fertility or birth control: 11%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 92%
- Q33. Fertility or birth control: 30%
- Q31. Professionals or sharpshooters: 29%
- Q32. Trapping and killing: 25%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 69%
- Q31. Professionals or sharpshooters: 62%
- Q33. Fertility or birth control: 62%
- Q30. Legal, regulated hunting: 6%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 5%
- Q31. Professionals or sharpshooters: 51%
- Q32. Trapping and killing: 58%
- Q33. Fertility or birth control: 45%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes: 29
No: 71

Percent (n=382)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes 4

No 96

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=130)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

![Bar chart showing responses]

- Very likely: 1
- Somewhat likely: 2
- Neither likely nor unlikely: 1
- Somewhat unlikely: 1
- Very unlikely: 94 (%)

(Percent n=283)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

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<td>98</td>
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Percent (n=283)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely
- Somewhat likely
- Neither likely nor unlikely
- Somewhat unlikely
- Very unlikely

- Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=126)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for tick-borne diseases (mean rating of 7.7), followed by three whose means are fairly close to one another: deer-vehicle accidents (6.2), the health of the deer population (6.2), and the quality of deer habitat (6.1).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.4) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.0) and deer droppings in the yard (1.3).
    - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 4E, 73% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 4E may have experienced: 12% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 17% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 5% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were about the same as those who had not fed birds regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were much more likely to say that they experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania

Q40. Deer-vehicle accidents in Pennsylvania

Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania

Q41. The quality of deer habitat in Pennsylvania

Q39. Deer impacts on the habitat and other wildlife in Pennsylvania

Q38. Deer damage to plants and landscaping in his/her yard

Q37. Deer droppings in his/her yard
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 48%
- Q40. Deer-vehicle accidents in Pennsylvania: 23%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 20%
- Q41. The quality of deer habitat in Pennsylvania: 19%
- Q38. Deer damage to plants and landscaping in his/her yard: 6%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 4%
- Q37. Deer droppings in his/her yard: 3%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 30
- Sometimes: 22
- Rarely: 21
- Never: 27

Percent (n=422)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 29%
- Sometimes: 27%
- Rarely: 22%
- Never: 21%
- Don't know: 1%

Fed birds on his / her property in the past 12 months (n=196)
Did not feed birds on his / her property in the past 12 months (n=225)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 52
- Sometimes: 26
- Rarely: 21
- Never: 1

- Has fed deer or put out attractants in the past 12 months (n=54)
- Has not fed deer or put out attractants in the past 12 months (n=368)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 51%
- Sometimes: 25%
- Rarely: 10%
- Never: 14%

Bar chart showing the percentage of respondents seeing deer on their property.

Legend:
- Black square: Is aware of neighbors feeding deer or putting out attractants (n=49)
- White square: Is not aware of neighbors feeding deer or putting out attractants (n=368)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Yes: 12
No: 88

Percent (n=422)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 28%
- No: 90%

- Is aware of neighbors feeding deer or putting out attractants (n=49)
- Is not aware of neighbors feeding deer or putting out attractants (n=368)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 17%
- No: 83%

Total respondents: 422
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

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<td>Percent (n=76)</td>
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Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 14% of residents of WMU 4E did this, and 11% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
- Feeding birds: 51% of residents of WMU 4E did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 44% agree that this is okay, but 47% disagree (the rest are neutral).

More than a third of residents of WMU 4E (34%) consider themselves to be a hunter, about two-thirds of whom have a Pennsylvania hunting license.

- Among residents of WMU 4E who live in a single-family home, 18% personally hunt deer on their property.
- A large majority of residents of WMU 4E (86%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

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Percent (n=422)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

Yes: 11
No: 88
Don't know: 2

Percent (n=422)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

Percent (n=54)

- Salt / mineral block: 45%
- Corn: 39%
- Apples: 10%
- Pellets / commercial feed: 7%
- Other food products: 6%
- Hay: 4%
- Horse feed: 1%
- Birdseed: 1%
- Don't know: 1%

Multiple Responses Allowed
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

- Yes: 51
- No: 48
- Don't know: 1
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 22
- Moderately agree: 22
- Neither agree nor disagree: 8
- Moderately disagree: 13
- Strongly disagree: 34
- Don't know: 1

Percent (n=422)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes: 18
No: 82

Percent (n=382)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 86%
- No: 14%
- Don't know: Less than 1%

(Percent n=422)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 4E say that the best way to provide them with information about deer in Pennsylvania is through direct mail (36% gave this response), followed by newspaper (20%), email (15%), TV (14%), and the Internet (12% saying an Internet site other than the PGC and 4% saying the agency website; note that some said both).

- Just more than two-fifths of residents of WMU 4E (42%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Direct mail: 36%
- Newspaper: 20%
- Email: 15%
- TV: 14%
- Internet / website other than PGC website: 12%
- Brochures or pamphlets: 5%
- PA Game Commission website: 4%
- Magazines: 4%
- Telephone: 2%
- Radio: 2%
- PA Hunting and Trapping Digest: 2%
- Public presentations: 1%
- PA Game Commission offices: 1%
- Other: 1%
- Don’t know: 7%
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

Yes: 42
No: 58

Percent (n=422)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 92
- Twitter: 4
- YouTube: 3
- Don't know: 1

Percent (n=186)
RESULTS FOR WMU 5A

Location: From the Maryland/PA state line, PA Rt. 75 north to US Rt. 30 at Fort Loudon; US Rt. 30 east to US Rt. 11 at Chambersburg; US Rt. 11 north to PA Rt. 997 at Green Village; PA Rt. 997 north to I-76 near Newburg; I-76 east to I-81 at Carlisle; I-81 east to US Rt. 15 near Harrisburg; US Rt. 15 south to PA Rt. 94 near York Springs; PA Rt. 94 south to the Maryland/PA state line.

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<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
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<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
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<td>3. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.001).</td>
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<td>3. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.01).</td>
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<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.01).</td>
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<td>4. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p ≤ 0.01).</td>
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<td>4. Strongly or moderately supports legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.05).</td>
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<td>4. Does not strongly or moderately support trapping and killing as a method of controlling deer populations in PA (p &lt; 0.05).</td>
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<td>5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
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<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.001).</td>
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<td>5. Does not rate concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.01).</td>
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<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.01).</td>
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<td>5. Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.01).</td>
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<td>8. Has lived at his/her primary place of residence for the median number of years or less (p ≤ 0.001).</td>
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See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- Half of residents of WMU 5A (50%) spent time viewing deer around their home in the past 12 months, and 23% took a trip of at least a mile to view deer.
  - About one-fifth of those who took a deer-viewing trip (21%) used a spotlight to view the deer at night.

- A majority of residents of WMU 5A (69%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 13% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

Yes

No

Percent (n=407)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 23
No: 77

Percent (n=407)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

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Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 46
- Somewhat satisfied: 23
- Neither satisfied nor dissatisfied: 15
- Somewhat dissatisfied: 6
- Very dissatisfied: 7
- Don't know: 3

(Percent based on n=407)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

➢ Opinion on deer is mostly favorable: 63% of residents of WMU 5A say with no caveats that they like having deer around, another 17% like having deer around but worry about the problems they may cause, and only 1% generally regard them as a nuisance. The remainder have no particular feeling about deer.

➢ Another question asked residents of WMU 5A how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “5.” The most common ratings are “0” (24%), the midpoint of “5” (16%), and “10” (13%). In general, ratings are well spread across the scale.

➢ Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

➢ The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 5A say that the herd size is just right (58%); otherwise, more say that it is too low (25%) than too high (5%).

- Those who own their home are about the same as those who do not own their home regarding their feelings about the size of the deer population in their area.
- Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- **I like having deer around**: 63
- **I like having deer around but worry about problems they cause**: 17
- **I generally regard deer as a nuisance**: 1
- **I have no particular feeling about deer**: 18

Percent (n=407)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Don't know

Mean = 4.36
Median = 5

Percent (n=407)
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.89
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Don't know

Mean = 6.55
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 5
- Just right: 58
- Too low: 25
- Don't know: 12

Percent (n=407)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- Too high: 6 (Consider themselves a hunter) vs 5 (Do not consider themselves a hunter)
- Just right: 50 (Consider themselves a hunter) vs 61 (Do not consider themselves a hunter)
- Too low: 41 (Consider themselves a hunter) vs 19 (Do not consider themselves a hunter)
- Don't know: 3 (Consider themselves a hunter) vs 16 (Do not consider themselves a hunter)
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

➢ The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 89% agree with managing the deer for a healthy and sustainable forest habitat, 92% agree with managing for healthy and sustainable deer populations, and 87% agree with managing for safe, acceptable levels of deer-human conflicts.

➢ Residents of WMU 5A who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.45 years. While 32% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

• Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: just less than a majority (48%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts

**Results for WMU 5A**

<table>
<thead>
<tr>
<th>Deer Management Goal</th>
<th>Percent (n=407)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthy and sustainable forest habitat</td>
<td>57%</td>
</tr>
<tr>
<td>Healthy and sustainable deer populations</td>
<td>56%</td>
</tr>
<tr>
<td>Safe and acceptable levels of deer-human conflicts</td>
<td>48%</td>
</tr>
<tr>
<td>Neither agree nor disagree</td>
<td>3%</td>
</tr>
<tr>
<td>Moderately disagree</td>
<td>2%</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>2%</td>
</tr>
<tr>
<td>Strongly agree</td>
<td>1%</td>
</tr>
<tr>
<td>Don't know</td>
<td>1%</td>
</tr>
</tbody>
</table>

*Note: The numbers in the graph represent the percentage of respondents in each category.*
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 1
- 6-10 years: 11
- 5 years: 16
- 4 years: 7
- 3 years: 16
- 2 years: 11
- 1 year: 3
- Less than a year: 2
- Don't know: 32

Mean = 4.45
Median = 4
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

Yes: 48
No: 47
Don't know: 5

Percent (n=133)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A majority of residents of WMU 5A (59%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 30% oppose, mostly strong opposition.
  - Those residents of WMU 5A who live in a single-family home and own their home are much more likely to support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (94% of respondents support this method), distantly followed by fertility/birth control (38%), professionals or sharpshooters (35%), and trapping and killing (20%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (5% do so) and the second regarding allowing others to hunt on their land (9% do so). In combining the results, 9% of residents of WMU 5A who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 2% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are concerns about safety and/or a general opposition to hunting.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (96%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they overwhelmingly (96%) say that there is nothing that
would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  
  o Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 30
- Moderately support: 29
- Neither support nor oppose: 9
- Moderately oppose: 6
- Strongly oppose: 24
- Don't know: 1

Percent (n=407)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 34 (25)
- Moderately support: 30 (11)
- Neither support nor oppose: 29 (7)
- Moderately oppose: 0 (6)
- Strongly oppose: 31 (23)
- Don't know: 3 (1)

- Owns home (n=320)
- Does not own home (n=24)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 75%
- Q33. Fertility or birth control: 18%
- Q31. Professionals or sharpshooters: 15%
- Q32. Trapping and killing: 11%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 94%
- Q33. Fertility or birth control: 38%
- Q31. Professionals or sharpshooters: 35%
- Q32. Trapping and killing: 20%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 76%
- Q31. Professionals or sharpshooters: 57%
- Q33. Fertility or birth control: 50%
- Q30. Legal, regulated hunting: 5%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 4%
- Q31. Professionals or sharpshooters: 44%
- Q32. Trapping and killing: 63%
- Q33. Fertility or birth control: 39%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes: 9

No: 90

Percent (n=344)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=153)

Yes 2

No 98

Percent
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 51%
- Property is too small / neighbors too close: 49%
- Concerned about safety: 7%
- Oppose hunting in general: 6%
- Liability: 2%
- Not enough deer on property / not enough habitat: 2%
- Live on rented property: 2%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%
- Want to save hunting opportunities for self / family: 1%
- Concerned about bad behavior by hunters: 1%

Multiple Responses Allowed

Percent (n=308)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Yes: 4
- No: 96
- Don't know: 1

Percent (n=308)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely
- Somewhat likely
- Neither likely nor unlikely
- Somewhat unlikely
- Very unlikely

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=150)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.2), followed by three whose means are fairly close to one another: the health of the deer population (6.6), deer-vehicle accidents (6.4), and the quality of deer habitat (5.9).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.9) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (1.5) and deer droppings in the yard (1.2).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Half of residents of WMU 5A (50%) indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 5A may have experienced: 4% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 9% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 7% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were slightly more likely to have experienced deer problems. Likewise, those who were aware of neighbors feeding deer or putting out attractants were much more likely to experience deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: Mean = 7.2
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: Mean = 6.6
- Q40. Deer-vehicle accidents in Pennsylvania: Mean = 6.4
- Q41. The quality of deer habitat in Pennsylvania: Mean = 5.9
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: Mean = 3.9
- Q38. Deer damage to plants and landscaping in his/her yard: Mean = 1.5
- Q37. Deer droppings in his/her yard: Mean = 1.2
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 43%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 28%
- Q40. Deer-vehicle accidents in Pennsylvania: 24%
- Q41. The quality of deer habitat in Pennsylvania: 18%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 7%
- Q37. Deer droppings in his/her yard: 4%
- Q38. Deer damage to plants and landscaping in his/her yard: 3%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 19
- Sometimes: 15
- Rarely: 16
- Never: 50

Percent (n=407)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 24
- Sometimes: 13
- Rarely: 18
- Never: 45

Fed birds on his / her property in the past 12 months (n=226)
Did not feed birds on his / her property in the past 12 months (n=181)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 55
- Sometimes: 19
- Rarely: 16
- Never: 10

Has fed deer or put out attractants in the past 12 months (n=43)
Has not fed deer or put out attractants in the past 12 months (n=364)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 47 (n=16)
- Sometimes: 20 (n=14)
- Rarely: 8 (n=17)
- Never: 25 (n=53)

Legend:
- ■ Is aware of neighbors feeding deer or putting out attractants (n=45)
- □ Is not aware of neighbors feeding deer or putting out attractants (n=358)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

- Yes: 13
- No: 87

- Is aware of neighbors feeding deer or putting out attractants (n=45)
- Is not aware of neighbors feeding deer or putting out attractants (n=358)
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes: 6
No: 94

Percent (n=37)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

Yes 7

No 93

Percent (n=407)
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 12% of residents of WMU 5A did this, and 10% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents were corn, salt/mineral blocks, and apples.
- Feeding birds: 50% of residents of WMU 5A did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 52% agree that this is okay, but 38% disagree (the rest are neutral).

Just less than a third of residents of WMU 5A (30%) consider themselves to be a hunter, about two-thirds of whom have a Pennsylvania hunting license.

- Among residents of WMU 5A who live in a single-family home, 5% personally hunt deer on their property.
- A large majority of residents of WMU 5A (82%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 12
No: 88

Percent (n=407)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 10
- No: 89
- Don't know: 1

Percent (n=407)
Q53. What type of feed or attractant did you use? (Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

Multiple Responses Allowed

- Corn: 53% (n=43)
- Salt / mineral block: 37% (n=43)
- Apples: 28% (n=43)
- Pellets / commercial feed: 12% (n=43)
- Birdseed: 3% (n=43)
- Bread: 1% (n=43)
- Other food products: 1% (n=43)
- Food plot: 1% (n=43)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

- Yes: 50%
- No: 50%

Percent (n=407)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

<table>
<thead>
<tr>
<th>Opinion</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>24</td>
</tr>
<tr>
<td>Moderately agree</td>
<td>28</td>
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<tr>
<td>Neither agree nor disagree</td>
<td>8</td>
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<tr>
<td>Moderately disagree</td>
<td>12</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>26</td>
</tr>
</tbody>
</table>

(n=407)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

Yes: 5

No: 95

Percent (n=344)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 82%
- No: 17%
- Don't know: 1%
SOURCES OF INFORMATION

- Most commonly, residents of WMU 5A say that the best way to provide them with information about deer in Pennsylvania is through direct mail (41% gave this response), followed by newspaper (15%), email (12%), TV (12%), and the Internet (10% saying an Internet site other than the PGC and 5% saying the agency website; note that some said both).

- A little more than two-fifths of residents of WMU 5A (42%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Direct mail: 41%
- Newspaper: 15%
- Email: 12%
- TV: 12%
- Internet / website other than PGC website: 10%
- PA Game Commission website: 5%
- Radio: 3%
- PA Game Commission offices: 3%
- Brochures or pamphlets: 2%
- PA Hunting and Trapping Digest: 2%
- Magazines: 2%
- Telephone: 2%
- Don't know: 11%
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 42%
- No: 57%
- Don't know: 1%

(Percent n=407)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 92
- YouTube: 6
- Twitter: 1

Percent (n=126)
RESULTS FOR WMU 5B

Location: From the Maryland/PA state line, PA Rt. 94 north to US Rt. 15 near York Springs; US Rt. 15 north to I-81 near Harrisburg; I-81 east to I-78 to PA Rt. 61 near Hamburg; Rt. 61 south to US Rt. 222 near Reading; Rt. 222 south to I-76; I-76 east to PA Rt. 10 near Morgantown; PA Rt. 10 south to PA Rt. 372 near Parkesburg; PA Rt. 372 west to Octoraro Creek near Christiana and then south to the Maryland state line.

<table>
<thead>
<tr>
<th>8. Lives in WMU 5B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.01).</td>
</tr>
<tr>
<td>2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>3. Does not indicate considering himself/herself to be a hunter (p &lt; 0.05).</td>
</tr>
<tr>
<td>3. Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.05).</td>
</tr>
<tr>
<td>4. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.01).</td>
</tr>
<tr>
<td>5. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA's roads or highways in the past 12 months (p &lt; 0.01).</td>
</tr>
<tr>
<td>5. Does not indicate having experienced any problems with deer at his/her primary place of residence in the past 12 months (p &lt; 0.05).</td>
</tr>
<tr>
<td>5. Does not rate concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>5. Does not rate concern about tick-borne diseases in PA as a 9 or 10 (p &lt; 0.05).</td>
</tr>
<tr>
<td>8. Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
</tr>
<tr>
<td>8. Has more than median number of people living in his/her household (p &lt; 0.01).</td>
</tr>
<tr>
<td>8. Has lived at his/her primary place of residence for the median number of years or less (p &lt; 0.01).</td>
</tr>
</tbody>
</table>

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A majority of residents of WMU 5B (54%) spent time viewing deer around their home in the past 12 months, and 30% took a trip of at least a mile to view deer.
  - About a third of those who took a deer-viewing trip (36%) used a spotlight to view the deer at night.

- A majority of residents of WMU 5B (66%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 11% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- Yes: 54%
- No: 46%

(Percent, n=429)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 30

No: 70

Percent (n=429)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>64</td>
</tr>
</tbody>
</table>
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 35
- Somewhat satisfied: 31
- Neither satisfied nor dissatisfied: 21
- Somewhat dissatisfied: 6
- Very dissatisfied: 5
- Don't know: 3

Percent (n=429)
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 54% of residents of WMU 5B say with no caveats that they like having deer around, another 26% like having deer around but worry about the problems they may cause, and only 4% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 5B how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “4.” The most common ratings are the midpoint of “5” (20%) and “0” (17%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 5B say that the herd size is just right (58%); otherwise, more say that it is too low (21%) than too high (13%).
  - Those who own their home are less likely, compared to those who do not own their home, to say that the deer population in their area is just right; they are more likely to say that the deer population is either too high or too low.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 54%  
- I like having deer around but worry about problems they cause: 26%  
- I generally regard deer as a nuisance: 4%  
- I have no particular feeling about deer: 15%  
- Don’t know: 1%
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.04
Median = 4
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.07
Median = 6

[Bar chart showing survey results]
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

- Mean = 6.55
- Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high**: 13
- **Just right**: 58
- **Too low**: 21
- **Don't know**: 8

Percent (n=429)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

![Bar chart showing responses to Q16.]

- **Too high**: 14 (own home), 10 (do not own home)
- **Just right**: 57 (own home), 74 (do not own home)
- **Too low**: 21 (own home), 13 (do not own home)
- **Don't know**: 7 (own home), 3 (do not own home)

- Owns home (n=340)
- Does not own home (n=27)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

<table>
<thead>
<tr>
<th></th>
<th>Consider themselves a hunter (n=128)</th>
<th>Do not consider themselves a hunter (n=301)</th>
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<tbody>
<tr>
<td>Too high</td>
<td>8</td>
<td>14</td>
</tr>
<tr>
<td>Just right</td>
<td>50</td>
<td>61</td>
</tr>
<tr>
<td>Too low</td>
<td>40</td>
<td>14</td>
</tr>
<tr>
<td>Don't know</td>
<td>1</td>
<td>11</td>
</tr>
</tbody>
</table>

Percent
The survey asked about three deer population management goals. For all three, a large majority agree with the management goal, but the most support is for goals that address ecological concerns rather than human concerns: 91% agree with managing for healthy and sustainable deer populations, 87% agree with managing the deer for a healthy and sustainable forest habitat, and 81% agree with managing for safe, acceptable levels of deer-human conflicts.

Residents of WMU 5B who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.90 years. While 37% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

- Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: a majority (59%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- Strongly agree: 51 (54)
- Moderately agree: 36 (37)
- Neither agree nor disagree: 5 (3)
- Moderately disagree: 3 (2)
- Strongly disagree: 3 (3)
- Don't know: 2 (7)

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 0
- 6-10 years: 15
- 5 years: 24
- 4 years: 3
- 3 years: 6
- 2 years: 11
- 1 year: 3
- Less than a year: 0
- Don't know: 37

Mean = 4.90
Median = 5
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 59
- No: 36
- Don't know: 4

Percent (n=141)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

- A majority of residents of WMU 5B (62%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 27% oppose, mostly strong opposition.
  - Those residents of WMU 5B who live in a single-family home and own their home are much more likely to support lethal methods, compared to those who live in a single-family home but do not own their home.
  - The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (88% of respondents support this method), distantly followed by fertility/birth control (41%), professionals or sharpshooters (30%), and trapping and killing (24%).

- Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (10% do so) and the second regarding allowing others to hunt on their land (14% do so). In combining the results, 17% of residents of WMU 5B who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).
  - There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 3% either hunt on their own property or allow others to hunt on the property.
  - Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Other minor reasons are concerns about safety, a general opposition to hunting, and the feeling that there are not enough deer around.
  - Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (94%). They were then asked if there is
anything that would make them more likely to allow deer hunting; they are almost unanimous (95%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 35%
- Moderately support: 27%
- Neither support nor oppose: 8%
- Moderately oppose: 9%
- Strongly oppose: 18%
- Don't know: 4%

Percent (n=429)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 37% (n=340)
- Moderately support: 29% (n=340)
- Neither support nor oppose: 5% (n=340)
- Moderately oppose: 9% (n=340)
- Strongly oppose: 43% (n=340)
- Don't know: 0% (n=340)

- Owns home (n=340)
- Does not own home (n=27)
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

Q30. Legal, regulated hunting: 67%
Q33. Fertility or birth control: 22%
Q32. Trapping and killing: 11%
Q31. Professionals or sharpshooters: 11%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**
  - Percent: 88

- **Q33. Fertility or birth control**
  - Percent: 41

- **Q31. Professionals or sharpshooters**
  - Percent: 30

- **Q32. Trapping and killing**
  - Percent: 24
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- **Q30. Legal, regulated hunting**: 8%
- **Q31. Professionals or sharpshooters**: 62%
- **Q32. Trapping and killing**: 72%
- **Q33. Fertility or birth control**: 49%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 51%
- Q31. Professionals or sharpshooters: 43%
- Q33. Fertility or birth control: 37%
- Q30. Legal, regulated hunting: 6%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes: 17

No: 83

Percent (n=367)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 3
- No: 97

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=154)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 46%
- Live in residential neighborhood / suburban or urban area: 45%
- Concerned about safety: 12%
- Oppose hunting in general: 9%
- Not enough deer on property / not enough habitat: 4%
- No one has asked for hunting access: 1%
- Not interested in allowing hunting on property, but did not indicate opposition to hunting in general: 1%
- Want to save hunting opportunities for self / family: 1%
- Privacy concerns: 1%
- Liability: 1%
- Concerned about bad behavior by hunters: 1%
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 1
- Somewhat likely: 2
- Somewhat unlikely: 2
- Very unlikely: 94
- Don't know: 1

Percent (n=317)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

Yes 4
No 95
Don't know 1

Percent (n=317)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

very likely

somewhat likely

somewhat unlikely

very unlikely

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=152)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.

- The most concern was for tick-borne diseases (mean rating of 7.5), followed by three whose means are fairly close to one another: deer-vehicle accidents (6.6), the health of the deer population (6.5), and the quality of deer habitat (6.1).
- At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.9) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.1) and deer droppings in the yard (1.4).
  - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

Among residents of WMU 5B, 55% indicated that they saw deer on their property in the past 12 months.

- Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

The survey asked about specific nuisance problems with deer that residents of WMU 5B may have experienced: 7% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 10% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 3% indicated that they or a household member had been diagnosed with a tick-borne disease.

- Crosstabulations show that those who fed birds were about the same as those who had not fed birds regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were much more likely to say that they experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.5
- Q40. Deer-vehicle accidents in Pennsylvania: 6.6
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.5
- Q41. The quality of deer habitat in Pennsylvania: 6.1
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 3.9
- Q38. Deer damage to plants and landscaping in his/her yard: 2.1
- Q37. Deer droppings in his/her yard: 1.4
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 39%
- Q40. Deer-vehicle accidents in Pennsylvania: 26%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 23%
- Q41. The quality of deer habitat in Pennsylvania: 18%
- Q38. Deer damage to plants and landscaping in his/her yard: 5%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 5%
- Q37. Deer droppings in his/her yard: 4%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 17
- Sometimes: 17
- Rarely: 22
- Never: 45

Percent (n=429)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: Fed birds on his/her property (16), Did not feed (17)
- Sometimes: Fed birds on his/her property (21), Did not feed (13)
- Rarely: Fed birds on his/her property (22), Did not feed (21)
- Never: Fed birds on his/her property (41), Did not feed (49)

Fed birds on his/her property in the past 12 months (n=216)
Did not feed birds on his/her property in the past 12 months (n=212)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 16, 29
- Sometimes: 16, 33
- Rarely: 22, 15
- Never: 46, 23

Legend:
- ■ Has fed deer or put out attractants in the past 12 months (n=20)
- □ Has not fed deer or put out attractants in the past 12 months (n=409)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 34 (15 aware of neighbors feeding, 19 not aware)
- Sometimes: 44 (15 aware of neighbors feeding, 29 not aware)
- Rarely: 13 (13 aware of neighbors feeding, 10 not aware)
- Never: 48 (9 aware of neighbors feeding, 39 not aware)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

Yes: 7

No: 93

Percent (n=429)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

Yes: 10
No: 90

(Chart showing percentages, n=429)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

<table>
<thead>
<tr>
<th>Yes</th>
<th>3</th>
</tr>
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<tbody>
<tr>
<td>No</td>
<td>97</td>
</tr>
</tbody>
</table>

Percent (n=429)
FEEDING WILDLIFE AND HUNTING DEER

- Several questions asked about feeding wildlife.
  - Feeding deer or putting out deer attractants: 5% of residents of WMU 5B did this, and 8% are aware of neighbors who did this.
    - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, other food products (other than corn or apples), and apples.
  - Feeding birds: 51% of residents of WMU 5B did this.

- There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 49% agree that this is okay, but 42% disagree (the rest are neutral).

- More than a quarter of residents of WMU 5B (27%) consider themselves to be a hunter, about three-fourths of whom have a Pennsylvania hunting license.
  - Among residents of WMU 5B who live in a single-family home, 10% personally hunt deer on their property.
  - A large majority of residents of WMU 5B (78%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

Yes: 5

No: 95

Percent (n=429)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?
Q53. What type of feed or attractant did you use?  
(Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

- Salt / mineral block: 56%
- Corn: 20%
- Other food products: 16%
- Apples: 13%
- Don’t know: 16%
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

![Bar Chart]

- Yes: 51
- No: 49

Percent (n=429)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 20
- Moderately agree: 29
- Neither agree nor disagree: 9
- Moderately disagree: 18
- Strongly disagree: 24

Percent (n=429)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

- Yes: 10
- No: 90

Percent (n=367)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

Yes: 78
No: 22

Percent (n=429)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 5B say that the best way to provide them with information about deer in Pennsylvania is through direct mail (42% gave this response), followed by email (17%), newspaper (16%), and the Internet (10% saying an Internet site other than the PGC and 5% saying the agency website; note that some said both).

- More than two-fifths of residents of WMU 5B (42%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

Direct mail: 42
Email: 17
Newspaper: 16
Internet / website other than PGC website: 10
TV: 6
PA Game Commission website: 5
Magazines: 3
Radio: 2
Brochures or pamphlets: 2
PA Hunting and Trapping Digest: 2
PA Game Commission offices: 1
Public presentations: 1
Other: 1
Don't know: 9
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 42
- No: 58

Percent (n=429)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 90
- YouTube: 7
- Twitter: 3

Percent (n=188)
RESULTS FOR WMU 5C

Location: From the Maryland/PA state line, north along Octoraro Creek to PA Rt. 372; PA Rt. 372 east to PA Rt. 10 north to I-76; I-76 west to US Rt. 222; US Rt. 222 north to PA Rt. 61 west of Reading; PA Rt. 61 north to I-78 near Hamburg; I-78 east to PA Rt. 143; PA Rt. 143 north to PA Rt. 309; PA Rt. 309 south to PA Rt. 873 northwest of Allentown; PA Rt. 873 north to PA Rt. 248; PA Rt. 248 east to PA Rt. 946; PA Rt. 946 east to PA Rt. 512; PA Rt. 512 to PA Rt. 611 near Mount Bethel; PA Rt. 611 north to the Portland Toll Bridge at Portland; the Portland Toll Bridge east to the New Jersey/PA state line; the New Jersey/PA state line south to US Rt. 202 near New Hope; US Rt. 202 west to the Delaware/PA state line near Elam.
### 8. Lives in WMU 5C

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1.</td>
<td>Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p &lt; 0.05).</td>
</tr>
<tr>
<td>2.</td>
<td>Does not indicate having seen deer frequently on his/her property in the past 12 months (p &lt; 0.05).</td>
</tr>
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<td>3.</td>
<td>Does not indicate considering himself/herself to be a hunter (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Does not indicate that he/she or any of his/her family members hunt (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Does not indicate having a valid 2011 PA general hunting license (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>3.</td>
<td>Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p &lt; 0.05).</td>
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<tr>
<td>4.</td>
<td>Considers the deer population in his/her area to be too high (p &lt; 0.001).</td>
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<td>4.</td>
<td>Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<tr>
<td>4.</td>
<td>Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<tr>
<td>4.</td>
<td>Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p &lt; 0.001).</td>
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<tr>
<td>4.</td>
<td>Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p &lt; 0.001).</td>
</tr>
<tr>
<td>4.</td>
<td>Strongly or moderately supports lethal methods to manage deer populations in PA (p &lt; 0.05).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates that he/she or another person living in the immediate household has been diagnosed by a physician with a tick-borne disease in the past 12 months (p &lt; 0.001).</td>
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<tr>
<td>5.</td>
<td>Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Indicates having experienced a problem with deer at his/her primary place of residence in the past 12 months (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p &lt; 0.001).</td>
</tr>
<tr>
<td>5.</td>
<td>Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p &lt; 0.01).</td>
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<tr>
<td>6.</td>
<td>Does not rate concern about the health of the deer population in PA as a 9 or 10 (p &lt; 0.01).</td>
</tr>
<tr>
<td>6.</td>
<td>Does not rate concern about the quality of deer habitat in PA as a 9 or 10 (p &lt; 0.01).</td>
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<tr>
<td>8.</td>
<td>Considers place of residence to be an urban or suburban area (p &lt; 0.001).</td>
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<tr>
<td>8.</td>
<td>Primary place of residence is a single-family home (p &lt; 0.001).</td>
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<tr>
<td>8.</td>
<td>Has more than median number of people living in his/her household (p &lt; 0.001).</td>
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<tr>
<td>8.</td>
<td>Has lived at his/her primary place of residence for the median number of years or less (p &lt; 0.001).</td>
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<tr>
<td>8.</td>
<td>Is the median age or younger (p &lt; 0.05).</td>
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See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- A majority of residents of WMU 5C (59%) spent time viewing deer around their home in the past 12 months, and 20% took a trip of at least a mile to view deer.
  - A quarter of those who took a deer-viewing trip (25%) used a spotlight to view the deer at night.

- A majority of residents of WMU 5C (65%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 7% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- Yes: 59%
- No: 41%

(Percent n=435)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

- Yes: 20%
- No: 80%

Percent (n=435)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes

No

Percent (n=91)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 45
- Somewhat satisfied: 20
- Neither satisfied nor dissatisfied: 23
- Somewhat dissatisfied: 5
- Very dissatisfied: 2
- Don't know: 5
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 42% of residents of WMU 5C say with no caveats that they like having deer around, another 37% like having deer around but worry about the problems they may cause, and only 8% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 5C how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “4.” The most common ratings are “0” (18%) and the midpoint of “5” (18%). In general, ratings are well spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “5” for the quality of deer habitat in Pennsylvania and “6” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 5C say that the herd size is just right (55%); otherwise, more say that it is too high (30%) than too low (9%).
  - Those who own their home are less likely, compared to those who do not own their home, to say that the deer population in their area is just right; they are more likely to say that the deer population is too high.
  - Those who consider themselves to be a hunter are more likely to say that the deer population in their area is too low, compared to those who are not hunters.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 42%
- I like having deer around but worry about problems they cause: 37%
- I generally regard deer as a nuisance: 8%
- I have no particular feeling about deer: 13%
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Mean = 4.15
Median = 4

Don't know: 1
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.60
Median = 5
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.01
Median = 6
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

- **Too high**: 30
- **Just right**: 55
- **Too low**: 9
- **Don't know**: 7

Percent (n=435)
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

Consider themselves a hunter (n=93)

- Too high: 27
- Just right: 42
- Too low: 29
- Don't know: 2

Do not consider themselves a hunter (n=340)

- Too high: 31
- Just right: 58
- Too low: 3
- Don't know: 8
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

- The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 89% agree with managing the deer for a healthy and sustainable forest habitat, 92% agree with managing for healthy and sustainable deer populations, and 89% agree with managing for safe, acceptable levels of deer-human conflicts.

- Residents of WMU 5C who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.05 years. While 35% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.
  - Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: a majority (52%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**: 53%
- **Moderately agree**: 34%
- **Neither agree nor disagree**: 3%
- **Moderately disagree**: 2%
- **Strongly disagree**: 2%
- **Don't know**: 1%

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

More than 10 years

6-10 years

5 years

4 years

3 years

2 years

1 year

Less than a year

Don't know

Percent (n=172)

Mean = 4.05
Median = 3
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

- Yes: 52
- No: 44
- Don't know: 4

Percent (n=172)
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

A majority of residents of WMU 5C (69%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 24% oppose.

- Those residents of WMU 5C who live in a single-family home and own their home are more likely to strongly support lethal methods, compared to those who live in a single-family home but do not own their home.
- The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (83% of respondents support this method), followed by fertility/birth control (51%), professionals or sharpshooters (49%), and trapping and killing (28%).

Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (13% do so) and the second regarding allowing others to hunt on their land (14% do so). In combining the results, 18% of residents of WMU 5C who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).

- There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 4% either hunt on their own property or allow others to hunt on the property.
- Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that their property is too small and/or that they live in an urban or suburban area in which hunting is not possible or feasible. Other minor reasons are a general opposition to hunting, concerns about safety, and liability concerns.
- Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they overwhelmingly say this is very unlikely (93%). They were then asked if there is anything that would make them more likely to allow deer hunting; a very large
percentage (94%) say that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.

  o Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- **Strongly support**: 45
- **Moderately support**: 24
- **Neither support nor oppose**: 6
- **Moderately oppose**: 9
- **Strongly oppose**: 15

Percent (n=435)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

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<th>Does not own home (n=19)</th>
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<td>Strongly support</td>
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<tr>
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<td>Moderately oppose</td>
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<td>Strongly oppose</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Don't know</td>
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</tbody>
</table>
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 61%
- Q33. Fertility or birth control: 29%
- Q31. Professionals or sharpshooters: 28%
- Q32. Trapping and killing: 12%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 83%
- Q31. Professionals or sharpshooters: 49%
- Q32. Trapping and killing: 28%
- Q33. Fertility or birth control: 51%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 68%
- Q31. Professionals or sharpshooters: 47%
- Q33. Fertility or birth control: 43%
- Q30. Legal, regulated hunting: 14%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 6%
- Q31. Professionals or sharpshooters: 34%
- Q32. Trapping and killing: 56%
- Q33. Fertility or birth control: 31%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Yes: 18
No: 82
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Property is too small / neighbors too close: 51%
- Live in residential neighborhood / suburban or urban area: 43%
- Oppose hunting in general: 13%
- Concerned about safety: 13%
- Liability: 3%
- Not enough deer on property / not enough habitat: 1%
- No one has asked for hunting access: 1%
- Want to save hunting opportunities for self / family: 1%
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

No: 94%
Yes: 4%
Don't know: 2%

Percent (n=311)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 0
- Neither likely nor unlikely: 1
- Somewhat unlikely: 2
- Very unlikely: 96
- Don't know: 1

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=168)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for tick-borne diseases (mean rating of 7.6) and deer-vehicle accidents (7.3), followed by two more whose means are just under those top two: the health of the deer population (6.0) and the quality of deer habitat (5.6).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (3.9) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.7) and deer droppings in the yard (1.9).
    - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 5C, 62% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 5C may have experienced: 17% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 13% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 9% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were about the same as those who had not fed birds regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were much more likely to say that they experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania
  Mean: 7.6

- Q40. Deer-vehicle accidents in Pennsylvania
  Mean: 7.3

- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania
  Mean: 6.0

- Q41. The quality of deer habitat in Pennsylvania
  Mean: 5.6

- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania
  Mean: 3.9

- Q38. Deer damage to plants and landscaping in his/her yard
  Mean: 2.7

- Q37. Deer droppings in his/her yard
  Mean: 1.9
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 47%
- Q40. Deer-vehicle accidents in Pennsylvania: 41%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 18%
- Q41. The quality of deer habitat in Pennsylvania: 14%
- Q38. Deer damage to plants and landscaping in his/her yard: 10%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 7%
- Q37. Deer droppings in his/her yard: 6%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 26
- Sometimes: 16
- Rarely: 21
- Never: 37
- Don't know: 1

Percent (n=435)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 29% (Fed birds on his/her property n=215)
- Sometimes: 18% (Fed birds on his/her property n=215)
- Rarely: 24% (Fed birds on his/her property n=215)
- Never: 44% (Fed birds on his/her property n=215)
- Don't know: 1% (Fed birds on his/her property n=215)

- Frequently: 24% (Did not feed birds on his/her property n=220)
- Sometimes: 13% (Did not feed birds on his/her property n=220)
- Rarely: 17% (Did not feed birds on his/her property n=220)
- Never: 44% (Did not feed birds on his/her property n=220)
- Don't know: 1% (Did not feed birds on his/her property n=220)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 41
- Sometimes: 26
- Rarely: 20
- Never: 38
- Don’t know: 1

Has fed deer or put out attractants in the past 12 months (n=25)
Has not fed deer or put out attractants in the past 12 months (n=409)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 65 responses
  - Is aware of neighbors feeding deer or putting out attractants (n=31)
  - Is not aware of neighbors feeding deer or putting out attractants (n=396)

- Sometimes: 22 responses
  - Is aware of neighbors feeding deer or putting out attractants (n=10)
  - Is not aware of neighbors feeding deer or putting out attractants (n=16)

- Rarely: 18 responses
  - Is aware of neighbors feeding deer or putting out attractants (n=18)
  - Is not aware of neighbors feeding deer or putting out attractants (n=21)

- Never: 7 responses
  - Is aware of neighbors feeding deer or putting out attractants (n=7)
  - Is not aware of neighbors feeding deer or putting out attractants (n=40)

- Don’t know: 1 response
  - Is aware of neighbors feeding deer or putting out attractants (n=0)
  - Is not aware of neighbors feeding deer or putting out attractants (n=1)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

- Yes: 13%
- No: 87%

(Percent n=435)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes: 17
No: 83

Percent (n=58)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

- Yes: 9
- No: 90
- Don't know: Less than 1%
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 7% of residents of WMU 5C did this, and 9% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
- Feeding birds: 49% of residents of WMU 5C did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 41% agree that this is okay, but 50% disagree (the rest are neutral).

More than a quarter of residents of WMU 5C (21%) consider themselves to be a hunter, about three-fourths of whom have a Pennsylvania hunting license.

- Among residents of WMU 5C who live in a single-family home, 13% personally hunt deer on their property.
- A large majority of residents of WMU 5C (72%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

- Yes: 7
- No: 93
- Don't know: 1

Percent (n=435)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 9
- No: 88
- Don't know: 3

Percent (n=435)
Q53. What type of feed or attractant did you use?  
(Asked of those who fed deer intentionally or put out attractants in the past 12 months.)
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

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<thead>
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<th></th>
<th>Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>Percent (n=435)</td>
<td>49</td>
<td>51</td>
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</table>
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 18
- Moderately agree: 23
- Neither agree nor disagree: 5
- Moderately disagree: 13
- Strongly disagree: 37
- Don't know: 3

Percent (n=435)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)

- Yes: 13
- No: 87

Percent (n=356)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 72%
- No: 27%
- Don't know: 2%

Percent (n=435)
SOURCES OF INFORMATION

- Most commonly, residents of WMU 5C say that the best way to provide them with information about deer in Pennsylvania is through direct mail (34% gave this response), followed by email (22%), the Internet (16% saying an Internet site other than the PGC and 6% saying the agency website; note that some said both), and newspaper (12%).

- Just under half of residents of WMU 5C (46%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

![Bar chart showing the best ways to provide information about deer in Pennsylvania. Direct mail is the most preferred method, followed by email, internet/website other than PGC website, newspaper, TV, PA Game Commission website, radio, brochures or pamphlets, magazines, PA Game Commission offices, PA Hunting and Trapping Digest, social media, telephone, other, and don't know. Each category is represented by a bar indicating the percentage of responses.](image)
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 46
- No: 53
- Don't know: 1

Percent (n=435)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 85
- YouTube: 7
- Twitter: 6
- Other: 1
- Don't know: 1

Percent (n=209)
RESULTS FOR WMU 5D

Location: From the New Jersey/PA state line near New Hope, US Rt. 202 west to the Delaware/PA state line near Elam.
8. Lives in WMU 5D

1. Does not consider deer-related issues as a 9 or 10 in importance as compared to other issues in his/her life (p < 0.001).
2. Does not indicate having seen deer frequently on his/her property in the past 12 months (p < 0.001).
3. Does not Indicate that he/she or any of his/her family members hunt (p < 0.001).
4. Does not indicate considering himself/herself to be a hunter (p < 0.001).
5. Does not indicate having spent time viewing or watching deer around home in the past 12 months (p < 0.001).
6. Does not indicate having a valid 2011 PA general hunting license (p < 0.001).
7. Does not indicate having taken a trip more than a mile from home for the primary purpose of viewing or watching deer in the past 12 months (p < 0.001).
8. Does not indicate having fed birds or made birdfeed available on his/her property in the past 12 months (p < 0.001).
9. Does not indicate having fed deer intentionally or having put out attractants in the past 12 months (p < 0.001).
10. Does not indicate being very or somewhat satisfied with opportunities to view or watch deer in PA (p < 0.001).
11. Does not indicate having used a spotlight to view deer at night on a trip to watch deer in the past 12 months (p < 0.01).
12. Does not strongly or moderately support legal, regulated hunting as a method of controlling deer populations in PA (p < 0.001).
13. Strongly or moderately supports fertility or birth control as a method of controlling deer populations in PA (p < 0.001).
14. Strongly or moderately supports professionals or sharpshooters as a method of controlling deer populations in PA (p < 0.001).
15. Considers the deer population in his/her area to be too high (p < 0.001).
16. Does not strongly or moderately support lethal methods to manage deer populations in PA (p < 0.01).
17. Does not strongly or moderately agree that deer populations should be managed for healthy and sustainable deer populations (p < 0.05).
18. Strongly or moderately agrees that deer populations should be managed for safe and acceptable levels of deer-human conflicts (p < 0.05).
19. Does not strongly or moderately agree that it is OK for private citizens to feed or attract deer in PA (p < 0.001).
20. Rates concern about deer-vehicle accidents in PA as a 9 or 10 (p < 0.001).
21. Rates concern about deer droppings in their yard as a 9 or a 10 (p < 0.001).
22. Does not indicate that he/she or another person living in the immediate household has been in a vehicle collision with or an accident involving a deer on PA’s roads or highways in the past 12 months (p < 0.001).
23. Rates concern about deer damage to plants and landscaping in their yard as a 9 or 10 (p < 0.001).
24. Rates concern about deer impacts on the habitat and other wildlife in PA as a 9 or 10 (p < 0.001).
25. Uses social media, such as Facebook, Twitter, or YouTube (p < 0.001).
26. Uses Facebook (p < 0.05).
27. Considers place of residence to be an urban or suburban area (p < 0.001).
28. Primary place of residence is a single-family home (p < 0.001).
29. Has more than median number of people living in his/her household (p ≤ 0.001).
30. Has lived at his/her primary place of residence for the median number of years or less (p < 0.01).
31. Is the median age or younger (p ≤ 0.05).

See page 9 through 11 for explanation of how to interpret z-score tables.
PARTICIPATION IN VIEWING DEER

- Two-fifths of residents of WMU 5D (40%) spent time viewing deer around their home in the past 12 months, and 11% took a trip of at least a mile to view deer.
  - About one in six of those who took a deer-viewing trip (16%) used a spotlight to view the deer at night.

- A majority of residents of WMU 5D (59%) are satisfied with opportunities to view deer in Pennsylvania. Because a relatively large percentage answer neutrally, only 8% indicate being dissatisfied.
Q10. Have you spent time viewing or watching deer around your home in the past 12 months?

- **Yes**: 40%
- **No**: 59%
- **Don’t know**: Less than 1%

Percent (n=440)
Q11. Have you taken a trip at least 1 mile from your home for the primary purpose of viewing or watching deer in the past 12 months?

Yes: 11

No: 89

Percent (n=440)
Q12. Did you use a spotlight to view deer at night on a trip to watch deer in the past 12 months? (Asked of those who took a trip at least 1 mile from their home for the primary purpose of viewing or watching deer in the past 12 months.)

Yes  16

No  84

Percent (n=57)
Q13. How satisfied are you with opportunities to view or watch deer in Pennsylvania?

- Very satisfied: 36
- Somewhat satisfied: 23
- Neither satisfied nor dissatisfied: 29
- Somewhat dissatisfied: 4
- Very dissatisfied: 4
- Don't know: 4
OPINIONS ON DEER IN GENERAL AND THE SIZE AND HEALTH OF THE DEER HERD

- Opinion on deer is mostly favorable: 37% of residents of WMU 5D say with no caveats that they like having deer around, another 32% like having deer around but worry about the problems they may cause, and only 8% generally regard them as a nuisance. The remainder have no particular feeling about deer.

- Another question asked residents of WMU 5D how deer-related issues compared to other issues in their life, on a scale of 0 to 10, with the most importance being 10: the median rating is “3.” The most common ratings are “0” (25%) and the midpoint of “5” (18%). In general, ratings are spread across the scale.

- Two other ratings questions asked respondents to rate their concern about deer-related issues. The median level of concern is “6” for the quality of deer habitat in Pennsylvania and “7” for the health of the deer population in Pennsylvania.

- The survey asked about the perceived size of the deer herd in the respondent’s area. The majority of residents of WMU 5D say that the herd size is just right (55%); otherwise, more say that it is too high (25%) than too low (10%).
  - Those who own their home are just slightly more likely, compared to those who do not own their home, to say that the deer population in their area is just right; they are also more likely to say that the deer population is too high.
  - Those who consider themselves to be a hunter are not markedly different than non-hunters regarding their opinion on the size of the deer population in their area.
Q14. Generally, which of the following best describes your feelings about deer in Pennsylvania?

- I like having deer around: 37%
- I like having deer around but worry about problems they cause: 32%
- I generally regard deer as a nuisance: 8%
- I have no particular feeling about deer: 22%
- Don't know: 1%

(Percent based on n=440)
Q15. Compared to other issues in your life, how important to you, personally, are deer-related issues on a scale of 0 to 10 where 0 is not at all important and 10 is extremely important?

Don't know

Mean = 3.45
Median = 3
Q41. How about the quality of deer habitat in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 5.87
Median = 6
Q42. How about health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania? (How much of a concern is this for you personally on a scale of 0 to 10 where 0 is not at all concerned and 10 is extremely concerned?)

Mean = 6.25
Median = 7
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

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<td>Don't know</td>
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Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?

![Bar chart showing the distribution of opinions on deer population.]

- **Too high**: 31 (23) Owns home, 9 (10) Does not own home
- **Just right**: 52 (48) Owns home, 4 (8) Does not own home
- **Too low**: 9 (10) Owns home, 8 (19) Does not own home
- **Don't know**: 8 (19) Owns home, 0 (0) Does not own home

Note: The figures in parentheses represent the count without the percentages.
Q16. In your opinion, is the deer population in the area where you live too high, just right, or too low?
OPINIONS ON MANAGEMENT EFFORTS AND MANAGEMENT GOALS

➢ The survey asked about three deer population management goals. For all three, a large majority agree with the management goal: 90% agree with managing the deer for a healthy and sustainable forest habitat, 89% agree with managing for healthy and sustainable deer populations, and 86% agree with managing for safe, acceptable levels of deer-human conflicts.

➢ Residents of WMU 5D who said that the deer population in their area is too high or too low were asked to indicate the reasonable number of years it should take to achieve an acceptable deer population. The mean amount is 4.67 years. While 35% said that they do not know, nearly all the rest gave a number of years of 10 or less. Note that this is only among those who said the deer population was too high or too low.

- Because management plans typically look at a time frame of about 10 years to effect change, the survey specifically asked if these respondents would be willing to wait more than 10 years to achieve an acceptable deer population: a majority (56%) indicated that they would be willing to wait that long.
Q24-26. Deer populations should be managed for the following. (Do you agree or disagree with this deer management goal?)

- **Strongly agree**: 54% (53), 53% (53)
- **Moderately agree**: 36% (36), 33% (33)
- **Neither agree nor disagree**: 4% (4), 5% (5)
- **Moderately disagree**: 3% (3), 5% (5)
- **Strongly disagree**: 2% (2), 4% (4)
- **Don't know**: 1% (1)

- Healthy and sustainable forest habitat
- Healthy and sustainable deer populations
- Safe and acceptable levels of deer-human conflicts
Q18. You said the deer population in the area where you live is [too high / too low]. In years, what is a reasonable amount of time to achieve an acceptable deer population in the area where you live? (Asked of those who think the deer population in the area where they live is too high or too low.)

- More than 10 years: 2
- 6-10 years: 12
- 5 years: 16
- 4 years: 3
- 3 years: 9
- 2 years: 9
- 1 year: 9
- Less than a year: 4
- Don't know: 35

Mean = 4.67, Median = 4
Q21. Would you be willing to wait more than 10 years to achieve an acceptable deer population in the area where you live? (Among those who think the deer population in the area where they live is too high or too low.)

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<thead>
<tr>
<th>Response</th>
<th>Percent (n=157)</th>
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<tbody>
<tr>
<td>Yes</td>
<td>56</td>
</tr>
<tr>
<td>No</td>
<td>38</td>
</tr>
<tr>
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</table>
OPINIONS ON METHODS FOR MANAGING DEER, INCLUDING HUNTING

➢ A majority of residents of WMU 5D (57%) support lethal methods to manage deer populations in Pennsylvania; nonetheless, 33% oppose, mostly strong opposition.

• Those residents of WMU 5D who live in a single-family home and own their home are more likely to strongly support lethal methods but less likely to moderately support them, compared to those who live in a single-family home but do not own their home. Overall support is greater among those who do not own their home.

• The survey asked about four methods of controlling deer populations (three of them lethal). The most support is for legal, regulated hunting (72% of respondents support this method), followed by fertility/birth control (60%) and professionals or sharpshooters (51%), with trapping and killing (21%) at the bottom of the ranking.

➢ Two questions asked respondents about hunting on their land (among those who live in a single-family home), the first question about hunting by the respondents themselves (3% do so) and the second regarding allowing others to hunt on their land (4% do so). In combining the results, 5% of residents of WMU 5D who live in a single-family home either hunt on their own land or allow others to do so (it is not simply a sum of the two questions because some hunt on their property and allow others to do so as well).

• There was interest in seeing how a particular subgroup responded on this question, the subgroup being those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town. Among this subgroup, 3% either hunt on their own property or allow others to hunt on the property.

• Those respondents who do not allow hunting on their property were asked to indicate why they prohibit it. The most common reasons are that they live in an urban or suburban area in which hunting is not possible or feasible and/or that their property is too small. Other minor reasons are a general opposition to hunting and concerns about safety.

• Those same respondents who do not allow hunting on their property were asked about their likelihood of ever allowing others to hunt deer on their property; they
overwhelmingly say this is very unlikely (95%). They were then asked if there is anything that would make them more likely to allow deer hunting; they are almost unanimous (98%) in saying that there is nothing that would make them more likely to allow deer hunting.

- The question about allowing others to hunt on their property was examined among the subgroup previously discussed (those who live in a single-family home; who live on 1 acre or less; and who live in an urban, suburban area, or a small city/town). Among this group who got the question, nearly all say that they would never allow hunting.
  - Additional follow-up questions to be asked of those who indicated that something might prompt them to allow hunting on their property did not have enough respondents for statistical validity; therefore, they are not shown.
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- Strongly support: 31
- Moderately support: 26
- Neither support nor oppose: 8
- Moderately oppose: 11
- Strongly oppose: 22
- Don’t know: 2

Percent (n=440)
Q27. In general, do you support or oppose lethal methods to manage deer populations in Pennsylvania?

- **Strongly support**: 35%
- **Moderately support**: 46%
- **Neither support nor oppose**: 7%
- **Moderately oppose**: 12%
- **Strongly oppose**: 21%
- **Don't know**: 3%

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<th>Does not own home (n=24)</th>
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<td>Strongly oppose</td>
<td>21</td>
<td>18</td>
</tr>
<tr>
<td>Don't know</td>
<td>3</td>
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</tr>
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</table>
Q30-Q33. Percent who strongly support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 48%
- Q33. Fertility or birth control: 34%
- Q31. Professionals or sharpshooters: 24%
- Q32. Trapping and killing: 7%
Q30-Q33. Percent who strongly or moderately support each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 72%
- Q33. Fertility or birth control: 60%
- Q31. Professionals or sharpshooters: 51%
- Q32. Trapping and killing: 21%
Q30-Q33. Percent who strongly or moderately oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q32. Trapping and killing: 74%
- Q31. Professionals or sharpshooters: 42%
- Q33. Fertility or birth control: 31%
- Q30. Legal, regulated hunting: 23%
Q30-Q33. Percent who strongly oppose each of the following methods of controlling deer populations in Pennsylvania:

- Q30. Legal, regulated hunting: 16%
- Q31. Professionals or sharpshooters: 30%
- Q32. Trapping and killing: 57%
- Q33. Fertility or birth control: 19%
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

- Yes: 5
- No: 94
- Don't know: Less than 1%

Percent (n=305)
Q59/60. Deer hunts and/or allows others to deer hunt on property. (Among respondents living in a single-family home.)

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=259)
Q63. What are the main reasons you do not allow others to hunt deer on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Live in residential neighborhood / suburban or urban area: 48
- Property is too small / neighbors too close: 44
- Oppose hunting in general: 5
- Concerned about safety: 9
- Not enough deer on property / not enough habitat: 5
- Liability: 1

Percent (n=289)
Q65. How likely are you to ever allow others to deer hunt on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 1
- Neither likely nor unlikely: 0
- Somewhat unlikely: 3
- Very unlikely: 96

Percent (n=289)
Q66. Is there anything that would make you more likely to allow deer hunting on your property? (Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Yes: 1
- No: 98
- Don't know: 1
Q65. How likely are you to ever allow others to deer hunt on your property? ( Asked of those whose primary place of residence is a single-family home and who do not allow others to hunt deer on their property.)

- Very likely: 0
- Somewhat likely: 1
- Neither likely nor unlikely: 0
- Somewhat unlikely: 2
- Very unlikely: 96

Lives in a single family home on 1 acre or less in an urban area, a suburban area, or a small city/town (n=253)
CONCERNS ABOUT DEER AND DEER NUISANCE PROBLEMS

- Seven questions asked about respondents’ level of concern about issues associated with deer. For each issue, respondents rated their level of concern about it using a 10-point scale, with 10 being the most concerned.
  - The most concern was for deer-vehicle accidents (mean rating of 7.5) and tick-borne diseases (7.5), followed by two more whose means are just under those top two: the health of the deer population (6.2) and the quality of deer habitat (5.9).
  - At the bottom are concern about deer impacts on habitat and other wildlife (even though this can be considerable) (4.5) and the two impacts to residents’ landscaping: deer damage to plants and landscaping (2.7) and deer droppings in the yard (2.1).
    - Another graph shows the percentage who gave a high rating (a “9” or “10”), providing an idea of the percentage who feel strongly about the issues.

- Among residents of WMU 5D, 41% indicated that they saw deer on their property in the past 12 months.
  - Respondents who fed birds were more likely to indicate seeing deer, as were respondents who fed deer or put out attractants or were aware of neighbors who fed deer or put out attractants.

- The survey asked about specific nuisance problems with deer that residents of WMU 5D may have experienced: 12% indicated that they experienced problems with deer at their primary place of residence in the past 12 months; 8% indicated that they or another household member had been in a vehicle collision with a deer (fortunately, a very low portion of drivers/passengers were injured); and 5% indicated that they or a household member had been diagnosed with a tick-borne disease.
  - Crosstabulations show that those who fed birds were about the same as those who had not fed birds regarding experiencing deer problems. However, those who were aware of neighbors feeding deer or putting out attractants were much more likely to say that they experienced deer problems.
Q36-Q42. Mean rating of respondents' concern about each of the following on a 10-point scale:

- Q40. Deer-vehicle accidents in Pennsylvania: 7.5
- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 7.5
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 6.2
- Q41. The quality of deer habitat in Pennsylvania: 5.9
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 4.5
- Q38. Deer damage to plants and landscaping in his/her yard: 2.7
- Q37. Deer droppings in his/her yard: 2.1
Q36-Q42. Percent who rated their concern about each of the following as a 9 or 10 on a 10-point scale:

- Q36. Tick-borne diseases, such as Lyme disease, in Pennsylvania: 48%
- Q40. Deer-vehicle accidents in Pennsylvania: 44%
- Q42. The health of the deer population, such as adequate food resources for the size of the deer herd, in Pennsylvania: 25%
- Q41. The quality of deer habitat in Pennsylvania: 20%
- Q39. Deer impacts on the habitat and other wildlife in Pennsylvania: 14%
- Q38. Deer damage to plants and landscaping in his/her yard: 11%
- Q37. Deer droppings in his/her yard: 11%
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 15
- Sometimes: 10
- Rarely: 15
- Never: 59

Percent (n=440)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 19 people, 14 people did not respond.
- Sometimes: 7 people, 12 people did not respond.
- Rarely: 17 people, 15 people did not respond.
- Never: 57 people, 60 people did not respond.

Fed birds on his / her property in the past 12 months (n=143)

Did not feed birds on his / her property in the past 12 months (n=296)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 70
- Sometimes: 11
- Rarely: 16
- Never: 60

- Has fed deer or put out attractants in the past 12 months (n=14)
- Has not fed deer or put out attractants in the past 12 months (n=426)
Q49. How often have you seen deer on your property in the past 12 months?

- Frequently: 39, Is aware of neighbors feeding deer or putting out attractants (n=17)
- Sometimes: 33
- Rarely: 9
- Never: 61, Is not aware of neighbors feeding deer or putting out attractants (n=421)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?

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<tr>
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<td></td>
<td>12</td>
<td>88</td>
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</table>

Percent (n=440)
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q43. In the past 12 months, have you experienced any problems with deer at your primary place of residence?
Q44. In the past 12 months, have you or any other person living in your immediate household been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways?

![Bar chart showing the results of Q44 for WMU 5D.]

- Yes: 8
- No: 92

Percent (n=440)
Q45. Were you or anyone else injured? (Asked of those who had a household member who was in or who have personally been in a vehicle collision with or an accident involving a deer on Pennsylvania's roads or highways in the past 12 months.)

Yes: 2
No: 98

Percent (n=36)
Q46. In the past 12 months, have you or any other person living in your immediate household been diagnosed by a physician with a tick-borne disease, such as Lyme disease?

Yes 5

No 95

Percent (n=440)
FEEDING WILDLIFE AND HUNTING DEER

Several questions asked about feeding wildlife.

- Feeding deer or putting out deer attractants: 3% of residents of WMU 5D did this, and 4% are aware of neighbors who did this.
  - The most typical feeds or attractants put out by respondents are salt/mineral blocks, corn, and apples.
- Feeding birds: 31% of residents of WMU 5D did this.

There is no consensus on whether it is okay for private citizens to feed or attract deer in Pennsylvania: 31% agree that this is okay, but 60% disagree (the rest are neutral).

One in ten residents of WMU 5D (10%) consider themselves to be a hunter, about two-thirds of whom have a Pennsylvania hunting license.

- Among residents of WMU 5D who live in a single-family home, 3% personally hunt deer on their property.
- Just over half of residents of WMU 5D (53%) say that they, family members, and/or friends hunt.
Q50. Did you ever feed deer intentionally or put out attractants, such as a salt or mineral block, in the past 12 months?

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<thead>
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<th>Yes</th>
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<tbody>
<tr>
<td></td>
<td>3</td>
<td>97</td>
</tr>
</tbody>
</table>

Percent (n=440)
Q55. Are you aware of any of your neighbors feeding deer intentionally or trying to attract deer on their property in the past 12 months?

- Yes: 4
- No: 96
- Don't know: 1

Percent (n=440)
Q53. What type of feed or attractant did you use?  
(Asked of those who fed deer intentionally or put out attractants in the past 12 months.)

Multiple Responses Allowed

- Salt / mineral block: 67%
- Corn: 35%
- Apples: 13%
- Pellets / commercial feed: 8%
- Other food products: 8%
Q48. Did you feed birds or make birdfeed available on your property in the past 12 months?

- Yes: 31
- No: 68
- Don't know: Less than 1%

Percent (n=440)
Q56. Do you agree or disagree that it is OK for private citizens to feed or attract deer in Pennsylvania?

- Strongly agree: 11
- Moderately agree: 20
- Neither agree nor disagree: 8
- Moderately disagree: 18
- Strongly disagree: 42
- Don't know: 1

Percent (n=440)
Q59. Do you personally hunt deer on your property? (Asked of those whose primary place of residence is a single-family home.)
Q79. Do you, any of your family members, or any friends hunt any wildlife species?

- Yes: 53 percent (n=440)
- No: 46 percent (n=440)
- Don't know: 1 percent (n=440)
**SOURCES OF INFORMATION**

- Most commonly, residents of WMU 5D say that the best way to provide them with information about deer in Pennsylvania is through direct mail (38% gave this response), followed by email (22%), the Internet (14% saying an Internet site other than the PGC and 2% saying the agency website; note that some said both), newspaper (14%), and TV (12%).

- Just over half of residents of WMU 5D (52%) use social media, the most common primary site being Facebook.
Q82. What is the best way to provide you with information about deer in Pennsylvania? We are not sending out information at this time; we are just measuring interest.

- Direct mail: 38%
- Email: 22%
- Internet / website other than PGC website: 14%
- Newspaper: 14%
- TV: 12%
- Brochures or pamphlets: 4%
- PA Game Commission website: 2%
- Magazines: 2%
- Radio: 1%
- PA Hunting and Trapping Digest: 1%
- Public presentations: 1%
- Telephone: 1%
- PA Game Commission offices: 1%
- Don't know: 8%
Q84. Do you use social media, such as Facebook, Twitter, or YouTube?

- Yes: 52%
- No: 47%
- Don't know: 1%

Percent (n=440)
Q85. Which social media site do you use most often? (Asked of those who use social media.)

- Facebook: 82
- YouTube: 9
- Twitter: 6
- Other: 1
- Don’t know: 1

Percent (n=221)
ABOUT RESPONSIVE MANAGEMENT

Responsive Management is an internationally recognized public opinion and attitude survey research firm specializing in natural resource and outdoor recreation issues. Our mission is to help natural resource and outdoor recreation agencies and organizations better understand and work with their constituents, customers, and the public.

Utilizing our in-house, full-service telephone, mail, and web-based survey center with 50 professional interviewers, we have conducted more than 1,000 telephone surveys, mail surveys, personal interviews, and focus groups, as well as numerous marketing and communication plans, needs assessments, and program evaluations.

Clients include the federal natural resource and land management agencies, most state fish and wildlife agencies, state departments of natural resources, environmental protection agencies, state park agencies, tourism boards, most of the major conservation and sportsmen’s organizations, and numerous private businesses. Responsive Management also collects attitude and opinion data for many of the nation’s top universities.

Specializing in research on public attitudes toward natural resource and outdoor recreation issues, Responsive Management has completed a wide range of projects during the past 20 years, including dozens of studies of hunters, anglers, wildlife viewers, boaters, park visitors, historic site visitors, hikers, birdwatchers, campers, and rock climbers. Responsive Management has conducted studies on endangered species; waterfowl and wetlands; and the reintroduction of large predators such as wolves, grizzly bears, and the Florida panther.

Responsive Management has assisted with research on numerous natural resource ballot initiatives and referenda and has helped agencies and organizations find alternative funding and increase their membership and donations. Additionally, Responsive Management has conducted major organizational and programmatic needs assessments to assist natural resource agencies and organizations in developing more effective programs based on a solid foundation of fact.
Responsive Management has conducted research on public attitudes toward natural resources and outdoor recreation in almost every state in the United States, as well as in Canada, Australia, the United Kingdom, France, Germany, and Japan. Responsive Management has also conducted focus groups and personal interviews with residents of the African countries of Algeria, Cameroon, Mauritius, Namibia, South Africa, Tanzania, Zambia, and Zimbabwe.

Responsive Management routinely conducts surveys in Spanish and has conducted surveys in Chinese, Korean, Japanese and Vietnamese and has completed numerous studies with specific target audiences, including Hispanics, African-Americans, Asians, women, children, senior citizens, urban, suburban and rural residents, large landowners, and farmers.

Responsive Management’s research has been upheld in U.S. District Courts; used in peer-reviewed journals; and presented at major natural resource, fish and wildlife, and outdoor recreation conferences across the world. Company research has been featured in most of the nation’s major media, including CNN, The New York Times, The Wall Street Journal, and on the front pages of USA Today and The Washington Post. Responsive Management’s research has also been highlighted in Newsweek magazine.

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