MICHIGAN DEPARTMENT OF NATURAL RESOURCES
Wildlife Report No. 3548
June 2012

Printed by Authority of: P.A. 451 of 1994
Total Number of Copies Printed: 25
Cost per Copy: $3.78
Total Cost: $94.50

Michigan Department of Natural Resources

MICHIGAN DEER HARVEST SURVEY REPORT 2011 SEASONS

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ABSTRACT

A survey of deer hunters was conducted following the 2011 hunting seasons to estimate hunter participation, harvest, and hunting effort. In 2011, an estimated 648,100 hunters spent 9.6 million days afield. Statewide, the number of people hunting deer decreased 1%, but their hunting effort was nearly unchanged between 2010 and 2011. Hunters harvested nearly 422,000 deer, an increase of about 1% from the number taken in 2010. Statewide, 45% of hunters harvested a deer in 2011, while hunter success was 44% in 2010. About 24% of the hunters took an antlerless deer and 30% took an antlered buck in 2011. About 15% of deer hunters harvested two or more deer. Statewide, less than 45% of hunters were satisfied with numbers of deer seen, bucks seen, deer taken, and their overall hunting experience in 2011. Statewide levels of satisfaction were little changed for all measures between 2010 and 2011; however, satisfaction generally increased among hunters in the Upper Peninsula (UP) and Northern Lower Peninsula (LP) and decreased among Southern LP hunters. About 118,600 hunters used a crossbow during the 2011 archery season, and they harvested about 54,900 deer with the crossbow. About 51% of deer hunters statewide supported antler point restrictions on buck harvest in the UP, and 56% of the hunters that preferred to hunt in the UP supported these restrictions in 2011. About 42% of deer hunters statewide supported antler point restrictions on buck harvest in Deer Management Unit (DMU) 487, and 45% of the hunters that preferred to hunt in the northeast LP supported these restrictions in 2011.

INTRODUCTION

The Natural Resources Commission (NRC) and Michigan Department of Natural Resources (DNR) have the authority and responsibility to protect and manage the wildlife resources of the state of Michigan. Harvest surveys are one of the management tools used to accomplish this statutory responsibility. Estimating hunter participation, harvest, and hunting effort

A contribution of Federal Aid in Wildlife Restoration, Michigan Project W-147-R

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IC2390-11 (06/25/2012)

(hereafter referred to as estimates) are the primary objectives of these surveys. Estimates derived from harvest surveys as well as information from deer harvest check stations, deer pellet group surveys, trends in deer-vehicle collisions, population modeling, and input received from the public are used to monitor deer populations and establish harvest regulations.

Estimating harvest, hunter numbers, and hunting effort were the primary objectives of the deer harvest survey. This survey also provided an opportunity to collect information about management issues. Questions were added to the questionnaire to investigate hunter satisfaction with the 2011 hunting season and deer numbers. Deer hunters were also asked whether they supported the antler point restrictions that were enacted in the UP and Deer Management Unit (DMU) 487 (northeast LP), and questions were added to investigate whether these restrictions had influenced deer hunting activity (hunting effort, harvest, and satisfaction).

During 2011, white-tailed deer (*Odocoileus virginianus*) could be harvested primarily during the following hunting seasons: early youth antlerless, youth, archery, regular firearm, muzzleloader, early antlerless, late antlerless, and special hunts for disabled hunters. In order to harvest a deer, hunters had to possess a hunting license (firearm, archery, combination, or antlerless license) (Table 1).

A harvest tag was issued as part of the hunting license. Hunters could purchase a maximum of two licenses for taking an antlered deer (either one combination license or both a firearm and an archery license). Archery and firearm licenses included one harvest tag, while the combination license had two harvest tags. A firearm license allowed a person to take one deer with at least one antler three inches or longer, except in DMU 487 where it could also be used to take an antlerless deer in the firearm and muzzleloader seasons (Table 1). An archery license allowed an individual to take one deer of either sex. A person with a combination license could take two deer of either sex during the archery season, two antlered deer during the firearm season, or one antlered deer during each season, except in DMU 487 where it could also be used to take two antlerless deer in the firearm and muzzleloader seasons (Table 1). If two antlered deer were taken, regardless of type of license, one needed to have at least one antler with four or more points (qualifying points must be at least one inch).

Antler point restrictions were adopted in 2008 for the taking of antlered deer (bucks) in the UP. Under this regulation, the regular buck tag of a combination deer license could only be used to tag a buck with at least three antler points on one side. The restricted tag could only be placed on a buck with a minimum of four points on one side. Hunters who chose not to purchase the combination tag were restricted to one buck only (without any antler point restrictions) in the UP, all seasons combined, even if they purchased both archery and firearms licenses.

The same antler point restrictions that were adopted in the UP in 2008 were implemented in DMU 487 in the northeast LP in 2010. In addition, hunters in DMU 487 could use a firearm license or one or both combination license tags to take an antlerless deer during the firearm

or muzzleloader seasons. Deer Management Unit 487 included Alcona, Alpena, Iosco, Montmorency, Oscoda, and Presque Isle counties.

Antlerless licenses could be purchased in addition to archery, firearm, or combination licenses. Antlerless deer licenses allowed hunters to take deer without antlers or with antlers shorter than three inches during any season with equipment appropriate for the season. Use of each antlerless license was restricted to a single DMU designated at the time of purchase. Antlerless licenses were available for most of the state, except in seventeen DMUs (007, 017, 021, 027, 031, 036, 042, 048, 066, 117, 121, 127, 131, 149, 173, 249, and 349) in the UP and five DMUs (016, 025, 040, 069, and 072) in the LP. A limited number of antlerless licenses were issued specifically for either public or private lands. Public land antlerless licenses were not available in all DMUs that had private land licenses. The number of licenses available in DMUs open to antlerless deer hunting was established by the NRC (Appendix A). Hunters could apply for an antlerless license through the drawing, purchase a private land license for selected areas without application, or wait to purchase a leftover license after the drawing, if available.

A private land antlerless deer hunting license was valid for taking antlerless deer only from privately-owned lands within the DMU specified on the license with permission of the landowner. A private land license was not valid on land enrolled in the Commercial Forest Act program (Commercial Forest Lands). Hunters were limited to a maximum of five private land antlerless deer licenses, except for DMUs 486 and 487 where there was no seasonal limit. In addition, there was no seasonal limit for the number of public land antlerless licenses that could be purchased. Furthermore, hunters could purchase two private land antlerless deer licenses each day, except for private land antlerless licenses for DMUs 486 and 487 and public land antlerless licenses for DMU 452 where hunters could purchase five licenses each day.

Two new private land DMUs were created in 2009 to aid in the harvest of antlerless deer. Deer Management Unit 486 was a multi-county DMU in the southern LP. Deer Management Unit 486 included private land in DMUs 003, 008, 009, 011, 012, 013, 014, 019, 023, 025, 029, 030, 032, 033, 034, 037, 038, 039, 041, 044, 046, 047, 054, 056, 059, 061, 063, 070, 073, 075, 076, 078, 079, 080, 081, 162 and 173. A private land antlerless deer license for DMU 486 was valid on private land within any of these subunits. DMU 487 was the second new multi-county DMU and was located in the northeast LP. Deer Management Unit 487 included private land in DMUs 001, 004, 035, 060, 068, 071, 135 and 452. A private land antlerless deer license for DMU 487 was valid on private land within any of the eight subunits.

A public land antlerless deer hunting license allowed an individual to hunt for antlerless deer upon publicly-owned lands (including state, federal, and county lands) open to hunting and Commercial Forest Lands within the DMU for which it was issued. A public land license was invalid on any privately-owned lands except Commercial Forest Lands.

The Pure Michigan Hunt (PMH) was a unique multi-species hunting opportunity offered for the first time in 2010. Individuals could purchase an unlimited number of applications for the PMH. Three individuals were randomly chosen from all applications, and winners received

elk, bear, spring turkey, fall turkey, and antlerless deer hunting licenses and could participate in a reserved waterfowl hunt on a managed waterfowl area. The antlerless deer hunting license was valid for all areas open for hunting antlerless deer and during all deer hunting seasons in which they were eligible to participate.

Deer Management Assistance (DMA) permits were special antlerless permits issued to landowners where the number of antlerless licenses was insufficient to meet the objective of specific landowners (e.g., controlling disease, crop damage, or deer abundance). These permits allowed hunters to take one antlerless deer per permit during any deer season on the land where issued or adjacent private lands with the landowner's permission. To use these permits, the hunter also must have purchased a valid deer hunting license for the season in which they were hunting and abide by all other hunting regulations.

Managed Deer Hunt permits were antlerless permits that could be used during special seasons on some public lands (e.g., state parks, state wildlife areas, and some federal land). These permits were issued by special random drawings. To use these permits, the hunter also must have purchased a valid deer hunting license and abide by all other hunting regulations.

A youth early antlerless firearm hunting season in DMU 486 occurred September 20-23, and was open on all lands within this DMU with the appropriate public or private-land antlerless license or DMA permit.

The youth firearm season was held during September 24-25 on public and private lands statewide. Youth hunters (10-16 years old) could take no more than one deer during the season. Youths could take one deer of either sex using a firearm license or combination license. Only an antlerless deer could be taken with an antlerless license or DMA permit. Youths participating during this season had to be accompanied by an adult at least 18 years old. Youths 10 and 11 years of age were restricted to using either antlerless or combination hunting licenses and could only use archery equipment (included crossbows). For youths 12-16 years old, valid licenses included combination, firearm, or antlerless deer hunting licenses. Youths 12 and 13 years of age could use archery equipment or firearms, but hunters using either a firearm or crossbow were restricted to only private land and Commercial Forest Lands.

The archery season occurred statewide on public and private lands. This season was divided into an early and late season (October 1 through November 14 and December 1, 2011, through January 1, 2012). Archery licenses, antlerless licenses, combination licenses, and DMA permits could be used to take deer during the archery seasons using archery equipment.

Deer could also be taken during the special disabled firearm hunt October 13-16, 2011. Hunters could take deer on private lands or public lands requiring an access permit. Only hunters that were issued a permit to hunt from a standing vehicle; veterans with 100% disability as defined by the United States Department of Veterans Affairs, or legally blind

people could participate in this season. A veteran with 100% disability also could take a deer during the youth firearm season (September 24-25).

The statewide regular firearm season occurred November 15-30. The muzzleloader season was held December 2-11 in the UP, December 9-18 in the Northern LP, and December 2-18 in the Southern LP. Hunters were allowed to take deer on both public and private lands with firearm and combination deer hunting licenses during the regular firearm and muzzleloader seasons. Antlerless licenses (including DMA permits) also could be used during the firearm seasons.

The early antlerless firearm season occurred from September 15-19. Hunters pursuing deer during this season had to have purchased an antlerless license and possess an unused antlerless harvest tag (including DMA permits) and were limited to hunting on private land. The area open to hunting during the early antlerless season was limited to all or portions of 50 counties in the LP (Alcona, Allegan, Alpena, Antrim, Arenac, Barry, Bay, Berrien, Branch, Calhoun, Cass, Charlevoix, Clinton, Eaton, Genesee, Gratiot, Hillsdale, Huron, Ingham, Ionia, Iosco, Isabella, Jackson, Kalamazoo, Kent, Lapeer, Lenawee, Livingston, Macomb, Mecosta, Midland, Monroe, Montcalm, Montmorency, Muskegon, Newaygo, Oakland, Oceana, Oscoda, Ottawa, Presque Isle, Saginaw, St. Clair, St. Joseph, Sanilac, Shiawassee, Tuscola, Van Buren, Washtenaw, and Wayne). The counties open in 2011 were the same as in 2010.

The late antlerless firearm season occurred from December 19, 2011, through January 1, 2012. Hunters pursuing deer during this season had to have purchased an antlerless license and possess an unused antlerless harvest tag (including DMA permits) and were limited to hunting on private land. All counties open during the early antlerless firearm season were also open for the late antlerless firearm season. The area open to hunting during the 2011 late antlerless season was the same as in 2010.

Crossbows were legal to use during all archery and firearm seasons statewide, except in the UP, where crossbow use was prohibited during the late archery and muzzleloader seasons, unless the hunter was disabled. Hunters using a crossbow were required to obtain a free crossbow stamp, except hunters with a disability already hunting under a DNR-issued crossbow permit, did not need the stamp.

METHODS

The Wildlife Division provided all hunters the option to report information about their deer hunting activity voluntarily via the internet. This option was advertised through the hunting regulation booklet (digest) and on the DNR website, and an email message was sent to all license buyers that had provided an email address to the DNR. Hunters reported whether they hunted, the days spent afield, and whether they harvested a deer. Deer hunters were also asked whether they supported the antler point restrictions in the UP and DMU 487. Following the 2011 deer hunting seasons, a questionnaire was sent to 51,288 randomly selected individuals who had purchased a hunting license (firearm, archery, antlerless, or combination deer hunting licenses) and had not already voluntarily reported harvest information via the Internet. Hunters receiving the questionnaire were asked the same

questions as asked via the internet. Hunters were instructed not to report hunting effort and harvest associated with DMA permits because landowners obtaining these permits already were required to report the number of deer harvested to the DNR.

Estimates were based primarily on information collected from random samples of hunting license buyers. Thus, these estimates were subject to sampling errors (Cochran 1977). Estimates were calculated using a stratified random sampling design (Cochran 1977) and were presented along with their 95% confidence limit (CL). In theory, this CL can be added and subtracted from the estimate to calculate the 95% confidence interval. The confidence interval is a measure of the precision associated with the estimate and implies the true value would be within this interval 95 times out of 100. Unfortunately, there are several other possible sources of error in surveys that are probably more serious than theoretical calculations of sampling error. They include failure of participants to provide answers (nonresponse bias), question wording, and question order. It is very difficult to measure these biases.

License buyers were assigned to one of five groups (strata) based on the type of license purchased and season that it was valid. The first stratum consisted of people eligible only for the archery, regular firearm, and muzzleloader hunting seasons (N = 419,156). The second stratum consisted of people eligible to hunt during archery, regular firearm, muzzleloader, early antlerless, and late antlerless seasons (N = 227,008). The third stratum consisted of people eligible to hunt during archery, regular firearm, muzzleloader, late antlerless, and youth seasons (N = 38,561). The fourth stratum consisted of 1,259 people that were eligible to participate in the special disabled hunts. (Disabled hunters were not required to purchase a unique type of hunting license; however, disabled hunters younger than 65 years were sold a discounted hunting license [i.e., sold a senior hunting license]). The fifth stratum consisted of 5,231 people that had voluntarily reported information about their hunting activity via the Internet before the random sample was selected. The random sample consisted of 28,309 people from the first stratum; 14,944 from the second stratum; 6,892 from the third stratum; and 1,259 from the fourth stratum. The stratified sampling design accounted for the varying probabilities of being selected from the strata so estimates could be reliably extrapolated from the sample to all license buyers.

Estimates were calculated separately by the area where the hunt occurred. The state was divided into eight areas that closely matched the DNR's wildlife management administrative units (Figure 1). The state was also divided into three ecological regions (UP, Northern LP, and Southern LP). These regions generally matched major ecoregions (Albert 1995), except in the UP where two ecoregions were combined. Ecoregions are regions having similar soils, vegetation, climate, geology, and physiography. Estimates were also calculated for each DMU (Figure 2, Appendix B). Deer harvested from unknown locations were allocated among areas in proportion to the known harvest.

Statistical tests are used routinely to determine the likelihood that the differences among estimates are larger than expected by chance alone. The overlap of 95% confidence intervals was used to determine whether estimates differed. Non-overlapping 95% confidence intervals were equivalent to stating that the difference between the means was

larger than would be expected 995 out of 1,000 times, if the study had been repeated (Payton et al. 2003).

Questionnaires were initially mailed during mid-January 2012, and two follow-up questionnaires were mailed to nonrespondents. To increase the number of questionnaires returned, respondents that returned their questionnaire promptly became eligible to win a firearm or bow. Although 51,288 people were sent the questionnaire, 1,277 surveys were undeliverable resulting in an adjusted sample size of 50,011. Questionnaires were returned by 27,443 of people receiving the questionnaire (55% response rate).

Estimates of harvest, hunting effort, and hunter participation are affected by the willingness of people to complete and return their questionnaires. This problem can confound comparisons of estimates made between years if response rates vary greatly. The percentage of people returning their questionnaire this year was lower than some previous years. To reduce bias caused by this lower response rate, an adjustment was made on the 2011 estimates to make them comparable to the adjusted 2010 estimates (adjusted to a 74% response rate). Estimates of harvest, hunting effort, and hunter numbers were reduced by 5.1, 3.8, and 1.6%, respectively, to make estimates comparable to 2010. These reductions reflected the average decline noted between estimates calculated when 55 and 74% of the responses were used in 2000 and 2001 surveys.

RESULTS

In 2011, 691,215 people purchased a license to hunt deer in Michigan. The number of people buying a license in 2011 declined by about 1% from 2010 (697,529 people purchased a license in 2010). Most of the people buying a license were male (90%), and the average age of license buyers was 43 years (Figure 3). Nearly 10% (67,785) of the license buyers were younger than 17 years old. About 2% (10,928) of the license buyers were younger than 12 years old, which represented 16% of the hunters younger than 17 years old.

The number of people buying a license in 2011 declined by about 14% in ten years from 2001 (801,436 people purchased a license in 2001). There were fewer license buyers for most age classes between 14 and 49 years of age in 2011, compared to 2001 (Figure 4). However, there were increased hunter numbers among the youngest and oldest age classes in 2011. The increased hunter numbers in the oldest age classes likely represented the rising share of older people in the population as the baby-boom generation aged and life expectancies have increased. In addition, legalization of crossbow use during the archery season probably increased participation among hunters in the oldest age classes. The increased participation among the youngest hunters likely reflected the lowering of the minimum age requirements. In 2011, it was legal for 10 and 11 year olds to hunt deer with a firearm; while the hunters had to be at least 12 years old to participate in 2001.

The number of 2011 deer harvest tags sold for all license types combined decreased about 1% from 2010 (Table 2). License buyers were issued an average of 2.2 harvest tags. About 89% of the license buyers obtained three or fewer harvest tags, and greater than 98% had five or fewer harvest tags (Figure 5). Hunters most frequently obtained antlerless and

combination harvest tags (Figure 6). About 45% of the license buyers purchased at least one antlerless license (314,122 people), and greater than 98% of antlerless license buyers purchased three or fewer antlerless licenses, public and private licenses combined (Figure 7).

The antlerless license quota on private lands decreased 3% from 704,400 in 2010 to 683,700 licenses in 2011 (Appendix A). The quota for public land antlerless licenses increased less than 1% from 72,100 to 72,500 between 2010 and 2011. The number of antlerless licenses sold declined 4% between 2010 and 2011 (Table 2).

About 93.7 $\pm$ 0.3% (648,127 hunters) of the people buying a license in 2011 actually spent time hunting deer (Table 3). Most hunters (578,855) pursued deer during the regular firearm season (Figure 8). Statewide, the number of people hunting deer during all seasons combined decreased 1% from 2010.

A significantly greater number of people hunted during the late antlerless (26%), early antlerless (18%), and archery (5%) seasons during 2011 (Table 3). In contrast, significantly fewer people hunted during the regular firearm (-2%) season. The number of people hunting in the muzzleloader, early youth, youth, and disabled hunter seasons were nearly unchanged between 2010 and 2011.

About 47% of the days hunters spent pursuing deer throughout the state occurred in the archery season (Figure 10). About 39% of the hunting effort occurred during the regular firearm season. Nearly 13% of the hunting effort occurred in the muzzleloader and late antlerless seasons combined. Statewide, hunters devoted an average of 15.3 days afield hunting deer during all seasons combined (Table 4). Archers had the greatest number of days available to hunt deer (77 days) and devoted the greatest number of days afield ($\bar{x}$ = 14.5 days/hunter) (Figure 11, Table 4). For all seasons combined, hunting effort statewide was nearly unchanged between 2010 and 2011 (Table 3). Hunting effort increased significantly during the late antlerless (30%) but decreased significantly during the regular firearm (-5%) season. Hunting effort was unchanged during the archery, muzzleloader, early antlerless, early youth, youth, and disabled seasons between 2010 and 2011.

Nearly 422,000 deer were harvested in 2011, an increase of about 1% from the number taken in 2010 (Figure 12, Tables 5-6). Statewide, the harvest of both antlerless and antlered deer in 2011 was nearly unchanged from 2010 (Table 5). Between 2010 and 2011, deer harvest increased significantly during the early antlerless (29%) and archery (12%) seasons. While harvest decreased significantly in the muzzleloader season by 12%. Deer harvest in the regular firearm, late antlerless, early youth, youth, and disabled seasons did not change significantly between 2010 and 2011.

About 51% of the deer harvested (sexes combined) in 2011 were taken during the regular firearm season (Figure 14). Nearly 43% of the antlerless deer and 60% of the antlered bucks were harvested in the regular firearm season. Hunters took 32% of the harvested deer (sexes combined) during archery season. During the archery season, hunters took 30% of the antlerless deer and 33% of the antlered bucks harvested. Few antlered bucks (5%) were

taken in the muzzleloader season. The early and late antlerless and muzzleloader seasons combined accounted for about 26% of the antlerless deer harvested.

About 87% of the animals harvested (sexes combined) in 2011 were taken on private lands (Table 7). Statewide, most of the antlerless deer (89%) and antlered bucks (84%) were harvested on private lands. Some noteworthy changes between 2010 and 2011 included increased harvest of deer on both public and private lands in the NLP and decreased take of antlered bucks on private land in the Southern LP.

Statewide, 45% of deer hunters harvested at least one deer (all deer seasons and sexes combined) in 2011 (Figure 15, Table 8), compared to 44% success in 2010. About 24% of hunters took an antlerless deer, and 30% took an antlered buck in 2011. About 15% of deer hunters harvested two or more deer.

Hunters were most successful in taking a deer during the archery (34% successful), regular firearm (33%), youth (32%), and early antlerless (29%) seasons (Figure 16, Table 9). Nearly 22% of hunters took an antlered buck and 14% harvested an antlerless deer during the regular firearm season. Hunter success was lowest in the disabled hunter (23%), muzzleloader (16%), and early youth antlerless (15%) seasons.

Deer hunters were asked to report how satisfied they were with (1) number of deer seen, (2) number of antlered deer [bucks] seen, (3) number of deer taken, and (4) their overall hunting experience. Statewide, less than 45% of hunters were satisfied with numbers of deer seen, bucks seen, deer taken, and their overall hunting experience in 2011 (Tables 10-11). Statewide levels of satisfaction were little changed for all measures between 2010 and 2011; however, satisfaction generally increased among UP and NLP hunters and decreased among SLP hunters.

Statewide, about 51% of hunters supported the antler point restrictions on buck harvest implemented for the UP (Table 12), and about 56% of the hunters that preferred to hunt in the UP supported the antler point restrictions. Statewide support for the antler point restrictions was about the same in 2010 and 2011.

Statewide, about 42% of hunters supported the antler point restrictions on buck harvest implemented for the DMU 487 (Table 13), and about 45% of the hunters that preferred to hunt in the northeast LP supported the antler point restrictions. Statewide support for the antler point restrictions in DMU 487 increased significantly between 2010 and 2011.

About 118,573 hunters used a crossbow during the archery season, and they harvested about 54,902 deer with the crossbow (Tables 14-16). The number of archers using a crossbow increased 31% from 2010, and harvest of deer by archers using a crossbow increased 43%. About 39% of these archers using a crossbow in 2011 harvested a deer with a crossbow. Hunters using a crossbow to hunt deer were required to obtain a crossbow stamp, unless they were a disabled hunter that already had a DNR-issued crossbow permit. About 52 ± 1% of the archers using a crossbow during the archery season in 2011 had obtained the required crossbow stamp in 2011. However, 68 ± 1% of the archers using a

crossbow during the archery season in 2011 had obtained a crossbow stamp during at least one year during 2009-2011.

ACKNOWLEDGEMENTS

I thank all the deer hunters that provided information. Charnell Gibbs, Shyla Jackson, Sheree Kershaw, and Theresa Riebow completed data entry. Greg Bird updated the internet harvest reporting application. The figure of DMUs was prepared by Marshall Strong. Sarah Cummins, Ashley Hippler, Pat Lederle, Russ Mason, Cheryl Nelson, Doug Reeves, and Brent Rudolph reviewed a previous version of this report.

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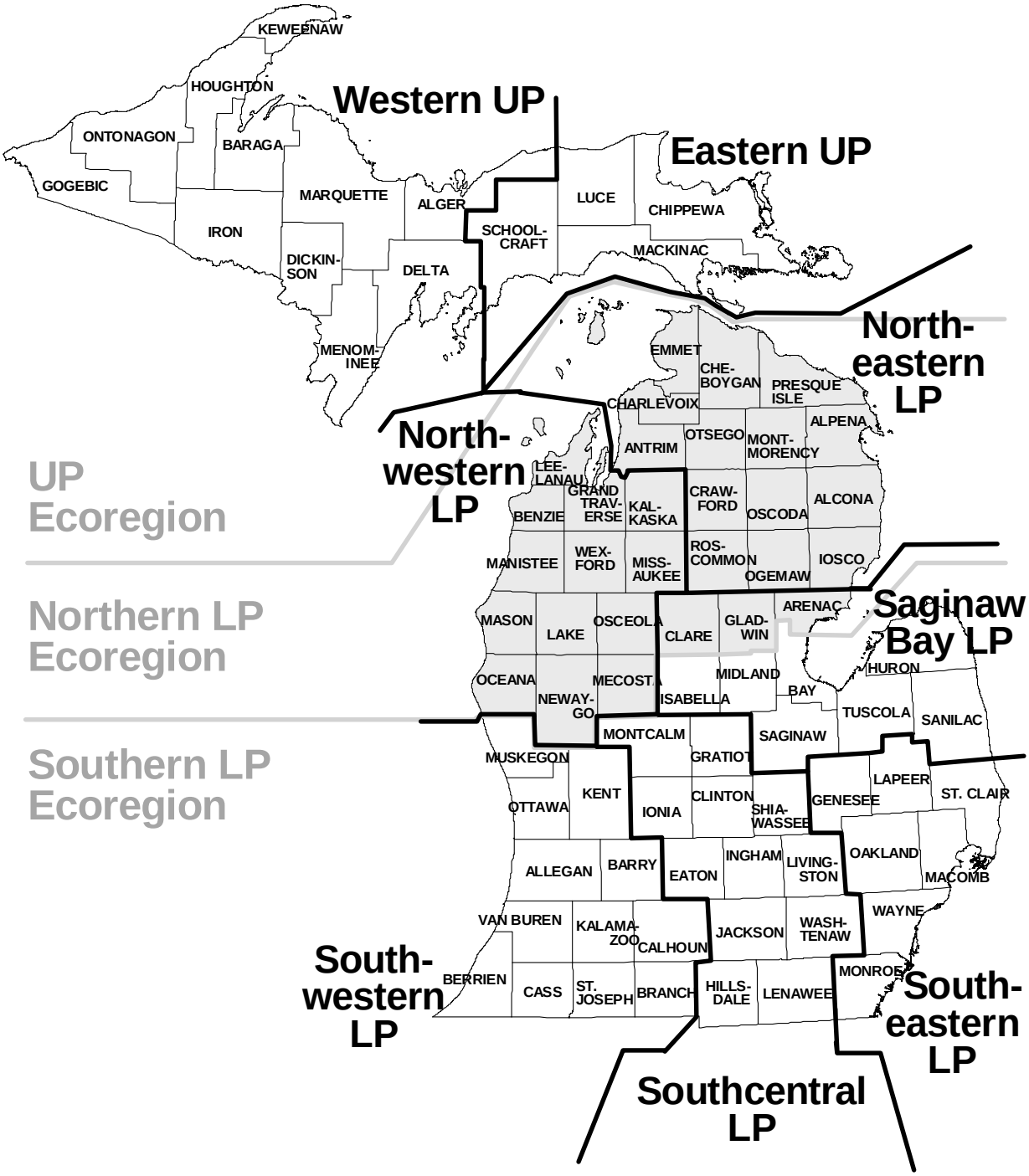

Figure 1. Areas used to summarize deer harvest in Michigan for the 2011 hunting seasons.

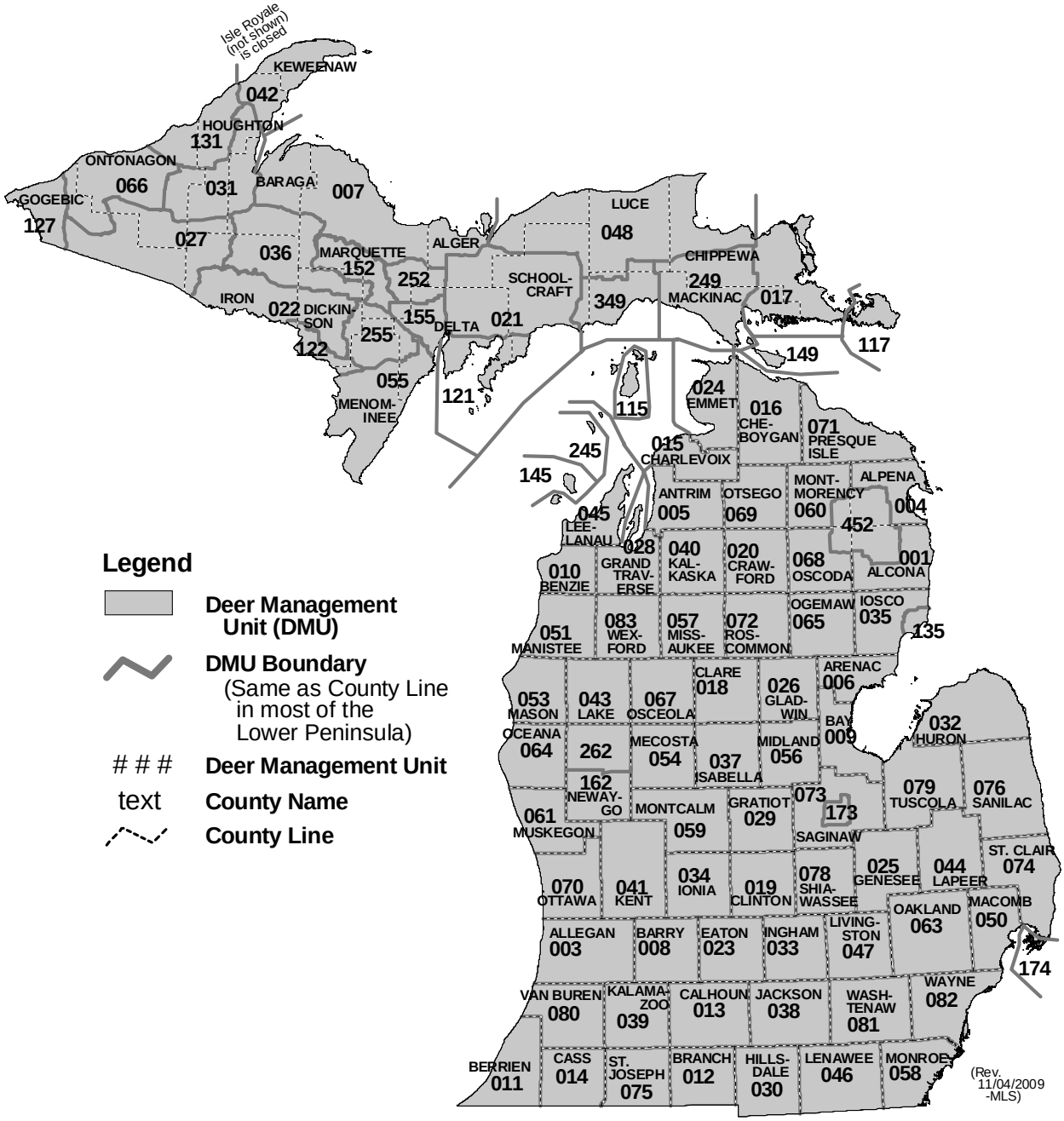

Figure 2. Deer Management Units in Michigan for the 2010 hunting seasons.

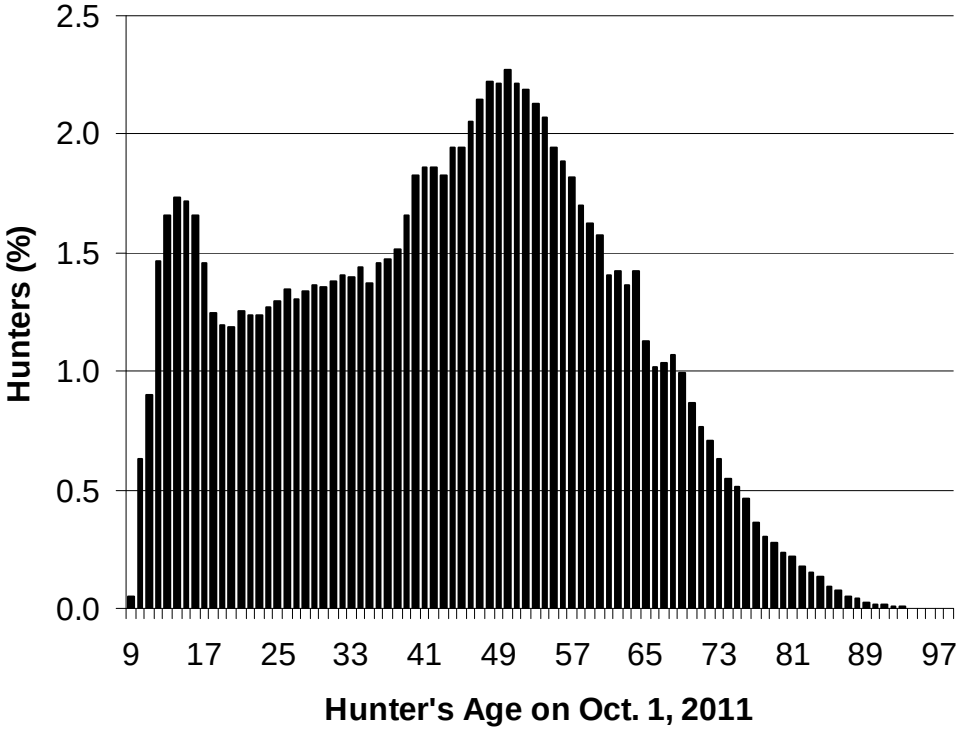

Figure 3. Age of people that purchased a deer hunting license in Michigan for the 2011 hunting seasons ($\bar{x}$ = 43 years).

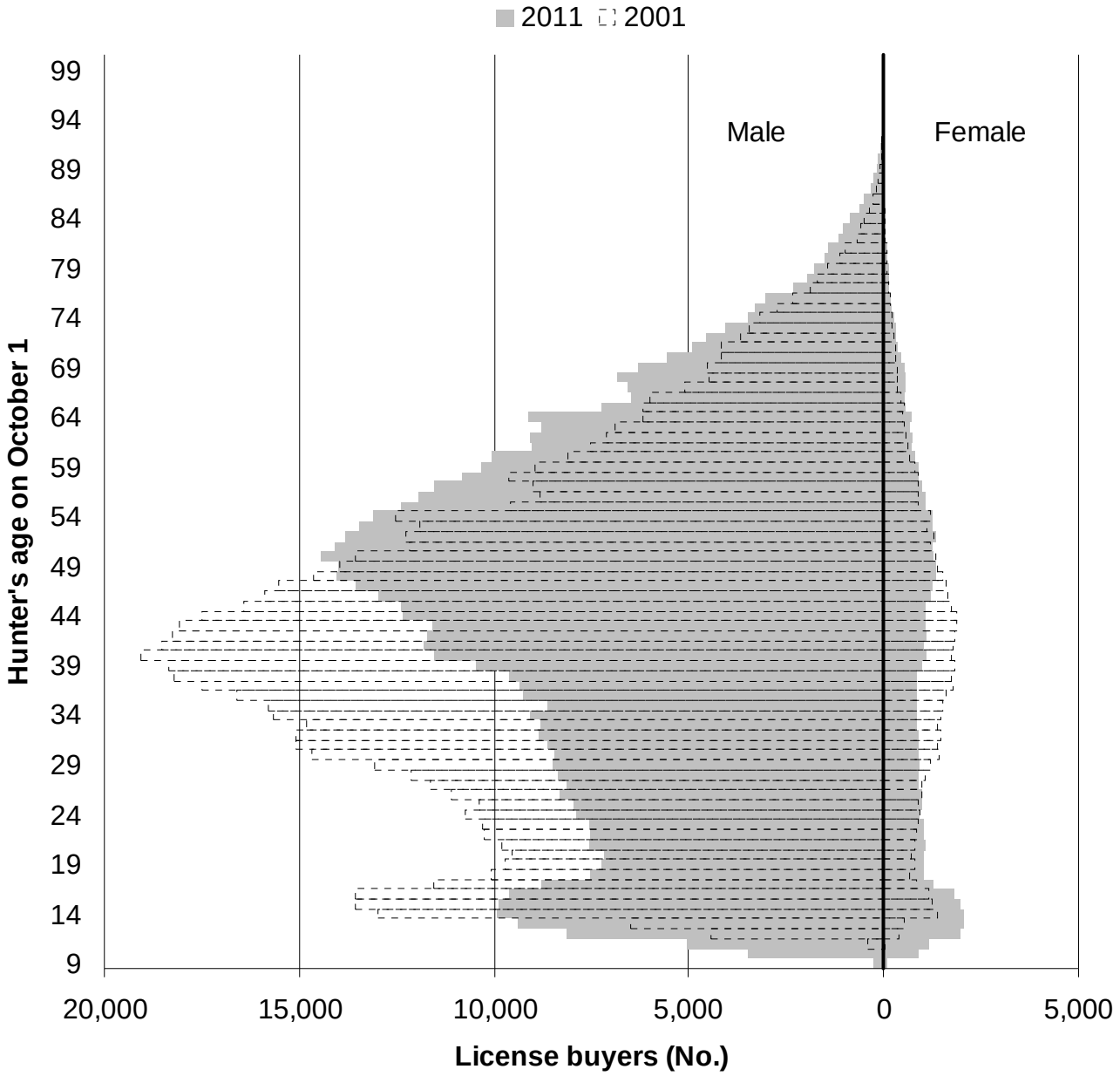

Figure 4. Number of deer hunting license buyers in Michigan by age and sex during 2001 and 2011 hunting seasons. Deer hunting licenses were purchased by 801,436 people in 2001 and 691,218 people in 2011.

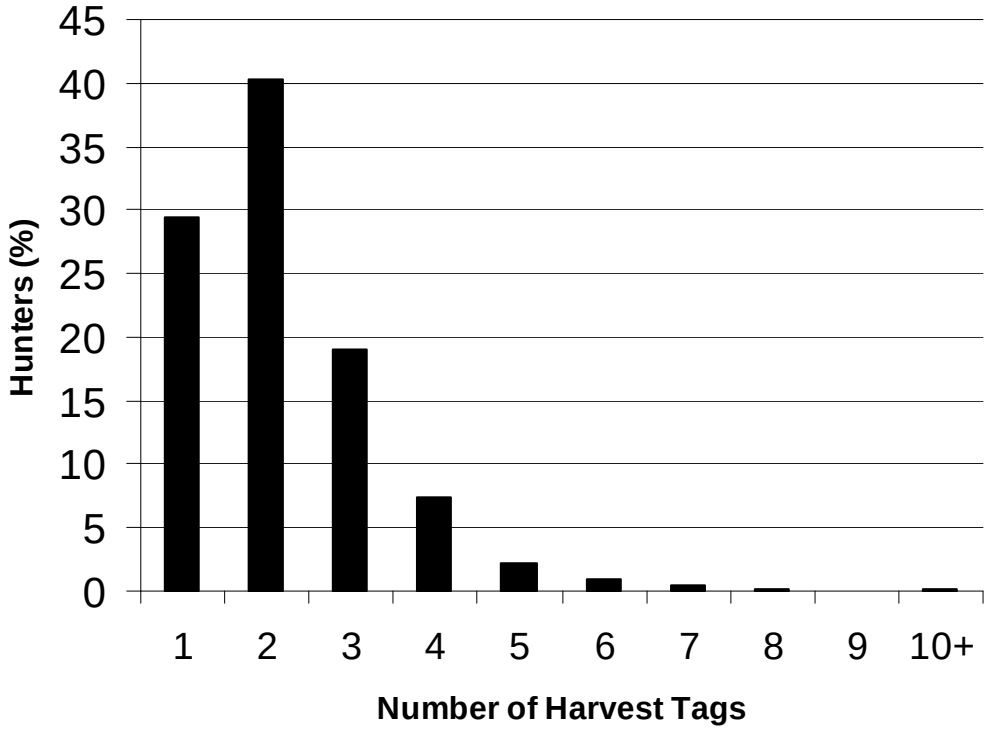

Figure 5. Number of harvest tags (all license and tag types) issued per person for hunting deer in Michigan during the 2011 hunting seasons ($\bar{x}$ = 2.2 tags). Licenses were purchased by 691,218 people.

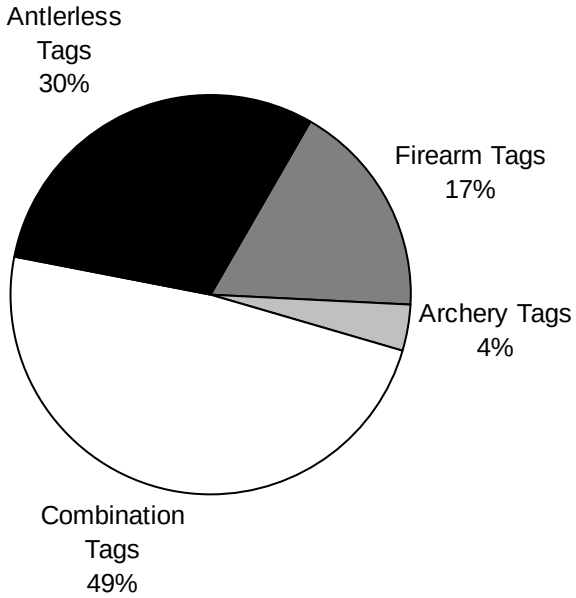

Figure 6. Types of harvest tags issued for deer hunting in Michigan during the 2011 hunting seasons.

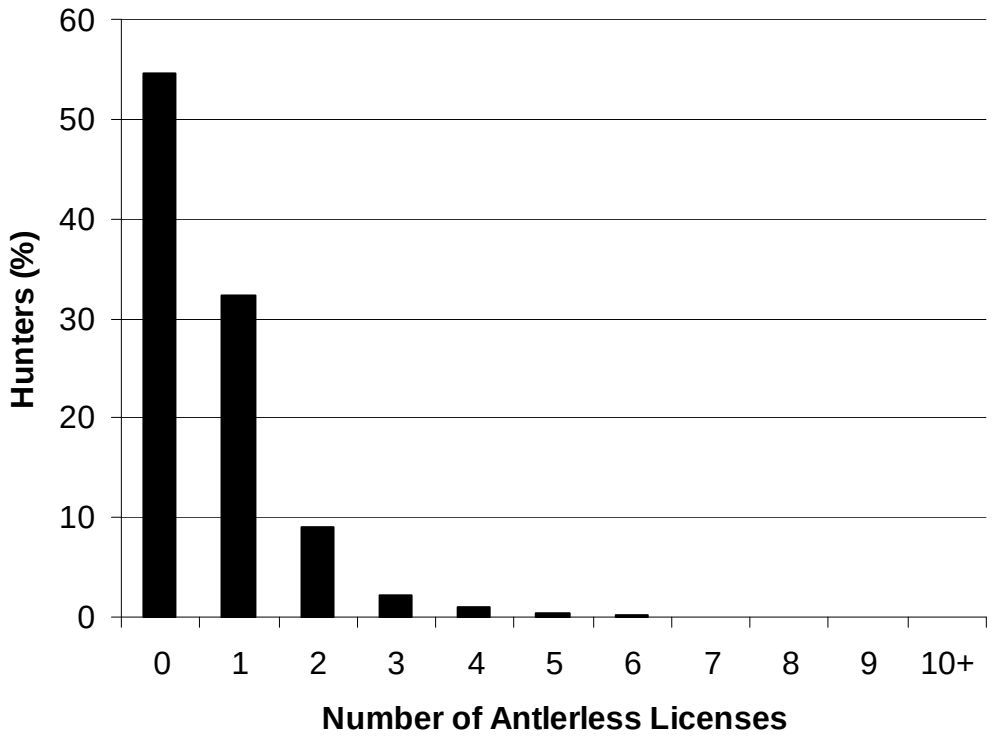

Figure 7. Percentage of deer hunting license buyers (all license types) purchasing an antlerless license in Michigan, 2011. Antlerless licenses were purchased by 314,122 of 691,218 people (45%) buying deer hunting licenses.

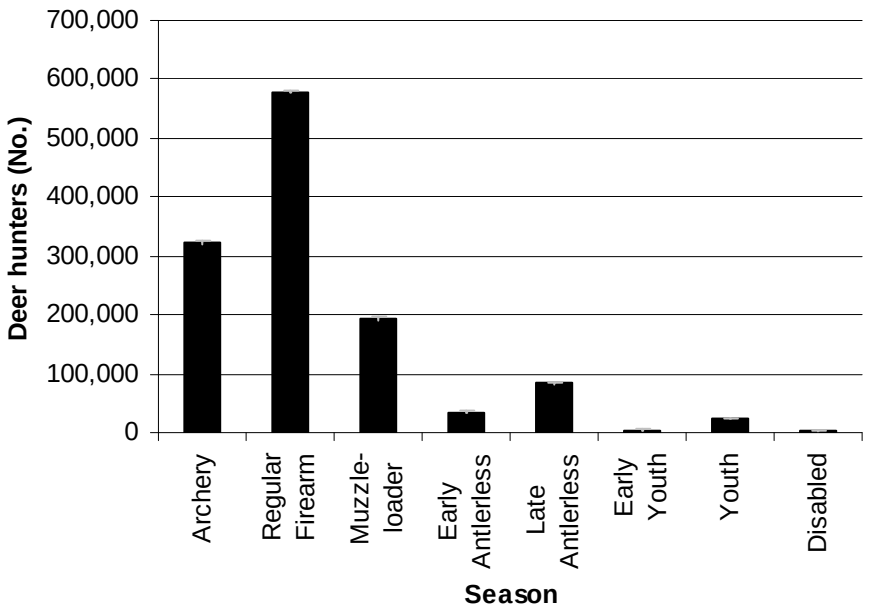

Figure 8. Number of people hunting deer in Michigan during the 2011 hunting seasons. Error bars represent the 95% CLs.

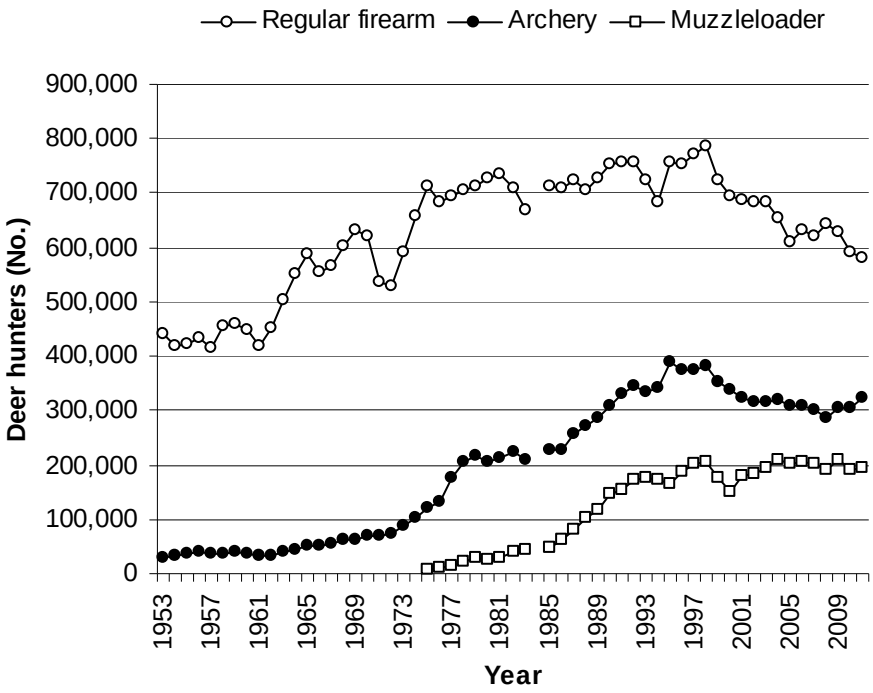

Figure 9. Number of people hunting deer in Michigan during the regular firearm, archery, and muzzleloader seasons, 1953-2011.

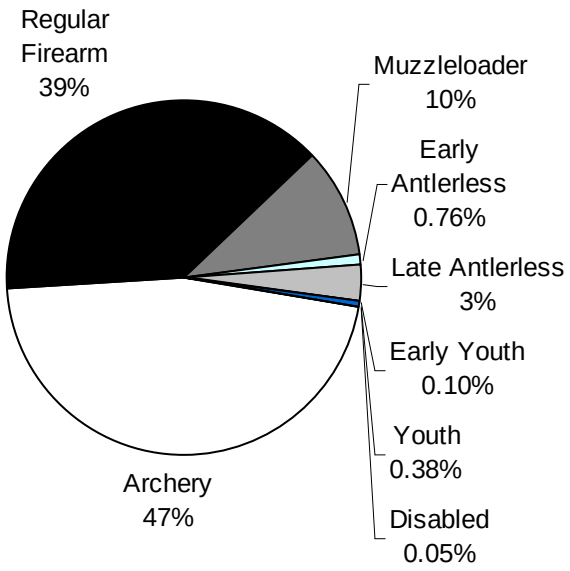

Figure 10. Distribution of hunting effort among deer hunting seasons in Michigan, 2011.

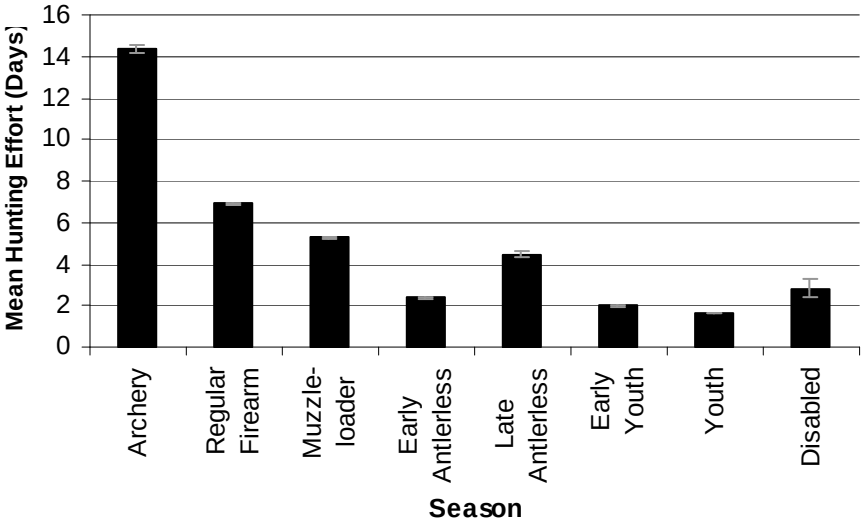

Figure 11. Mean number of days per hunter spent hunting deer in Michigan during the 2011 hunting seasons. Error bars represent the 95% CLs.

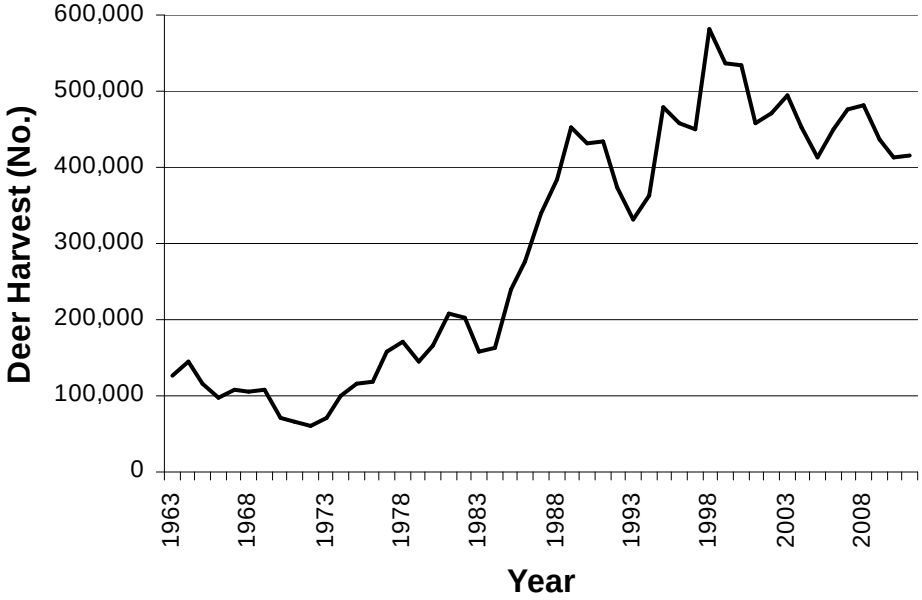

Figure 12. Number of deer harvested in Michigan's hunting seasons, 1963-2011. Harvest from all seasons and for all deer sexes was combined.

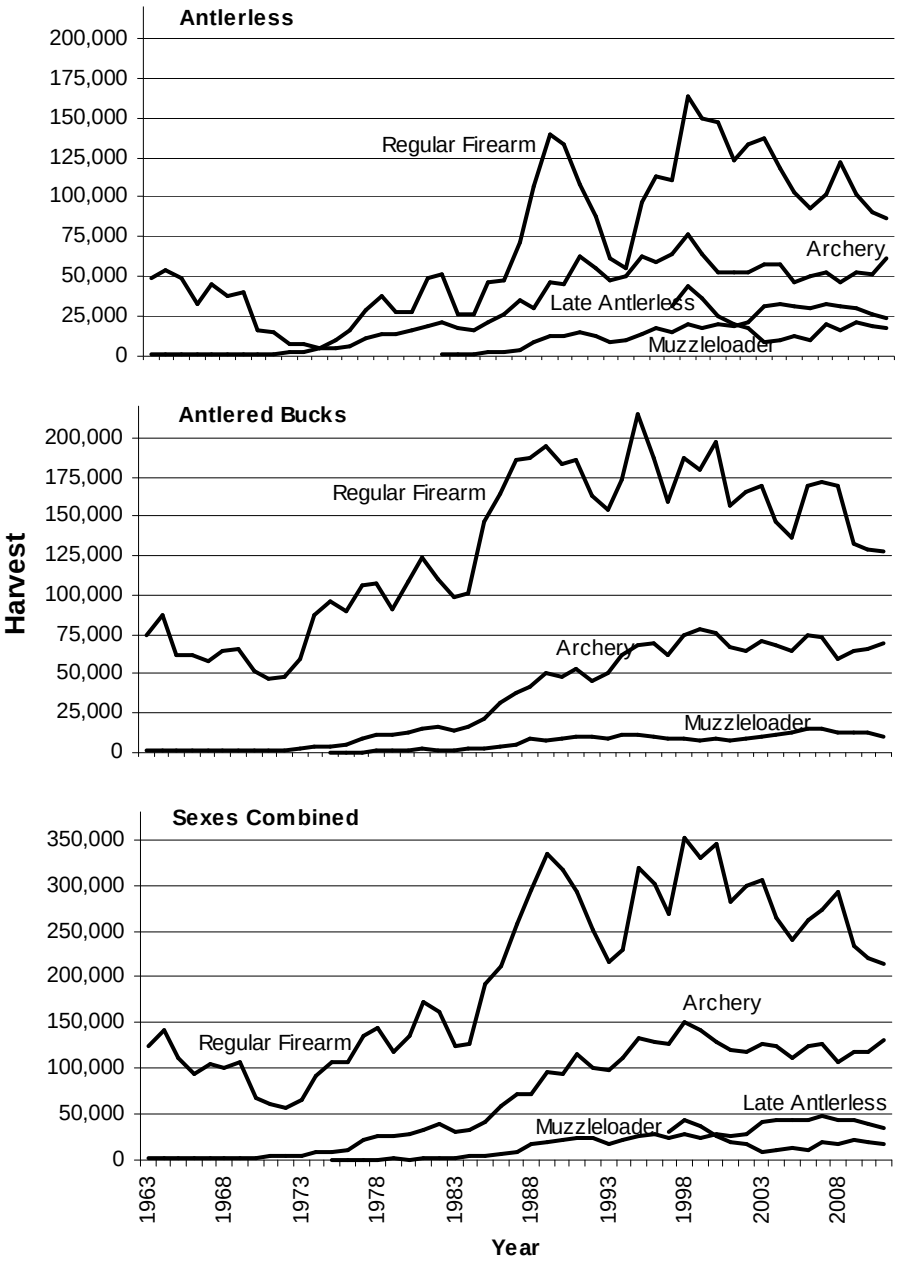

Figure 13. Number of deer harvested in Michigan's hunting seasons, 1963-2011. Harvests for early antlerless, youth, and special disabled hunter seasons were not shown.

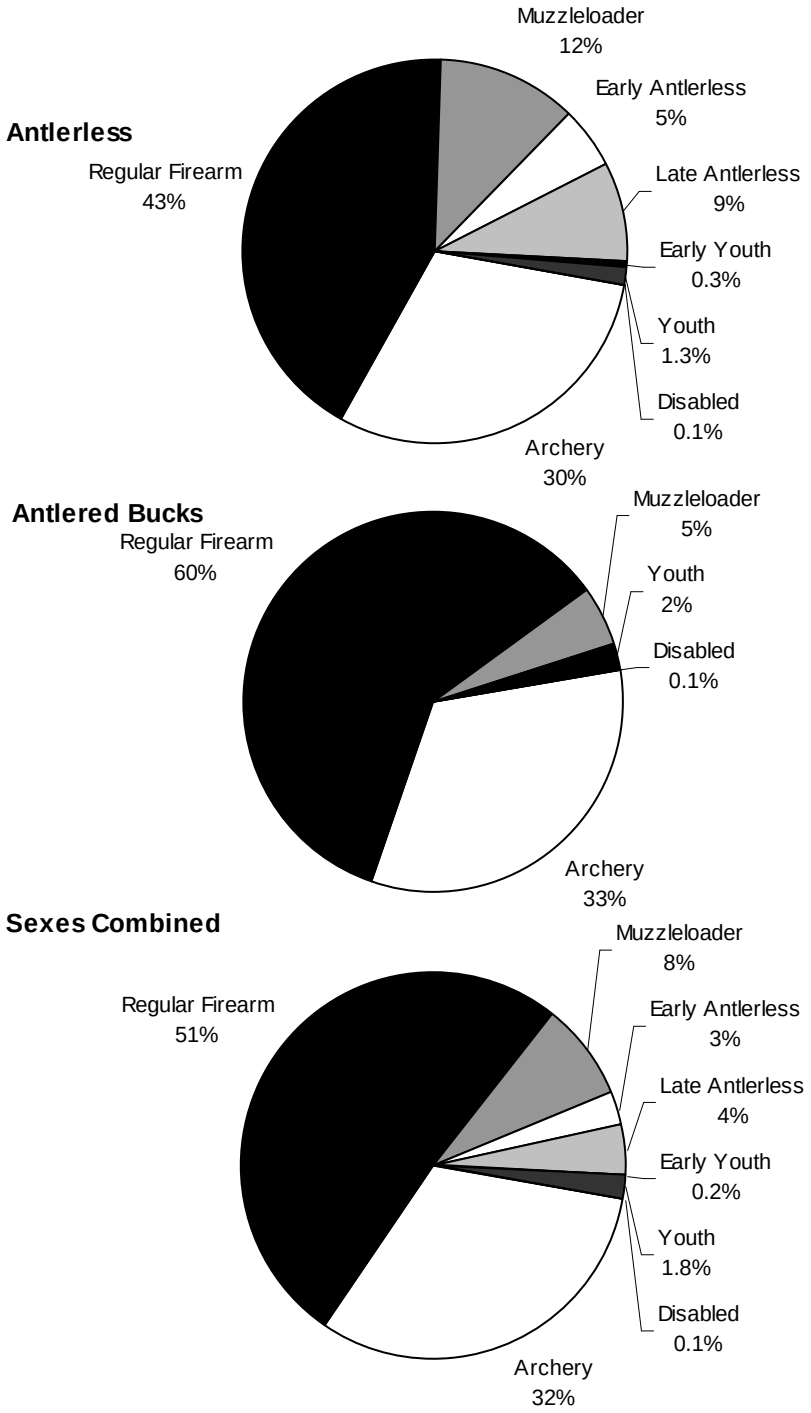

Figure 14. Distribution of harvest among deer hunting seasons in Michigan, 2011. Antlered deer had antlers at least 3 inches in length; antlerless deer included deer without antlers and deer with antlers less than 3 inches in length.

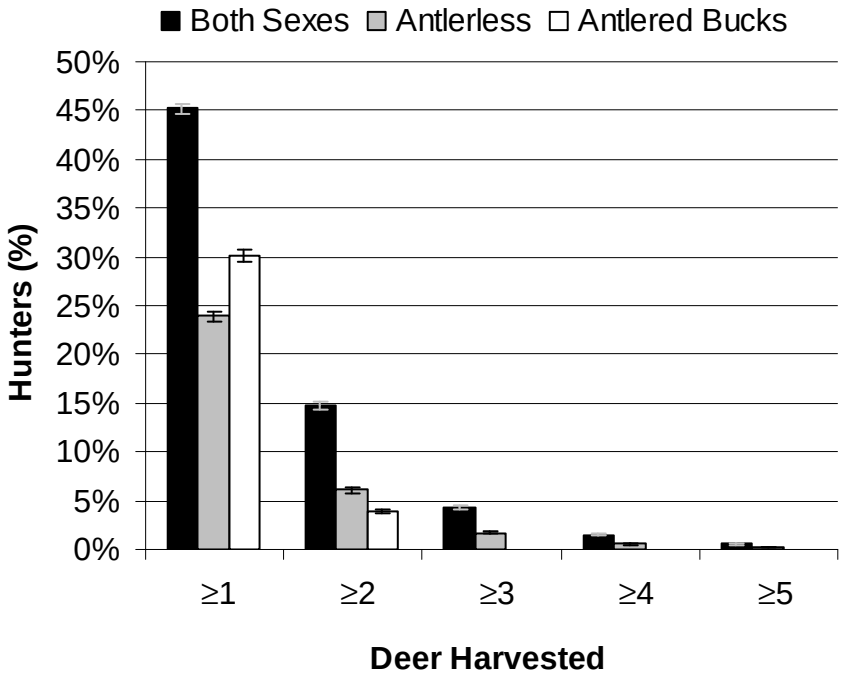

Figure 15. Percentage of hunters harvesting a deer in Michigan, 2011. Error bars represent the 95% CLs.

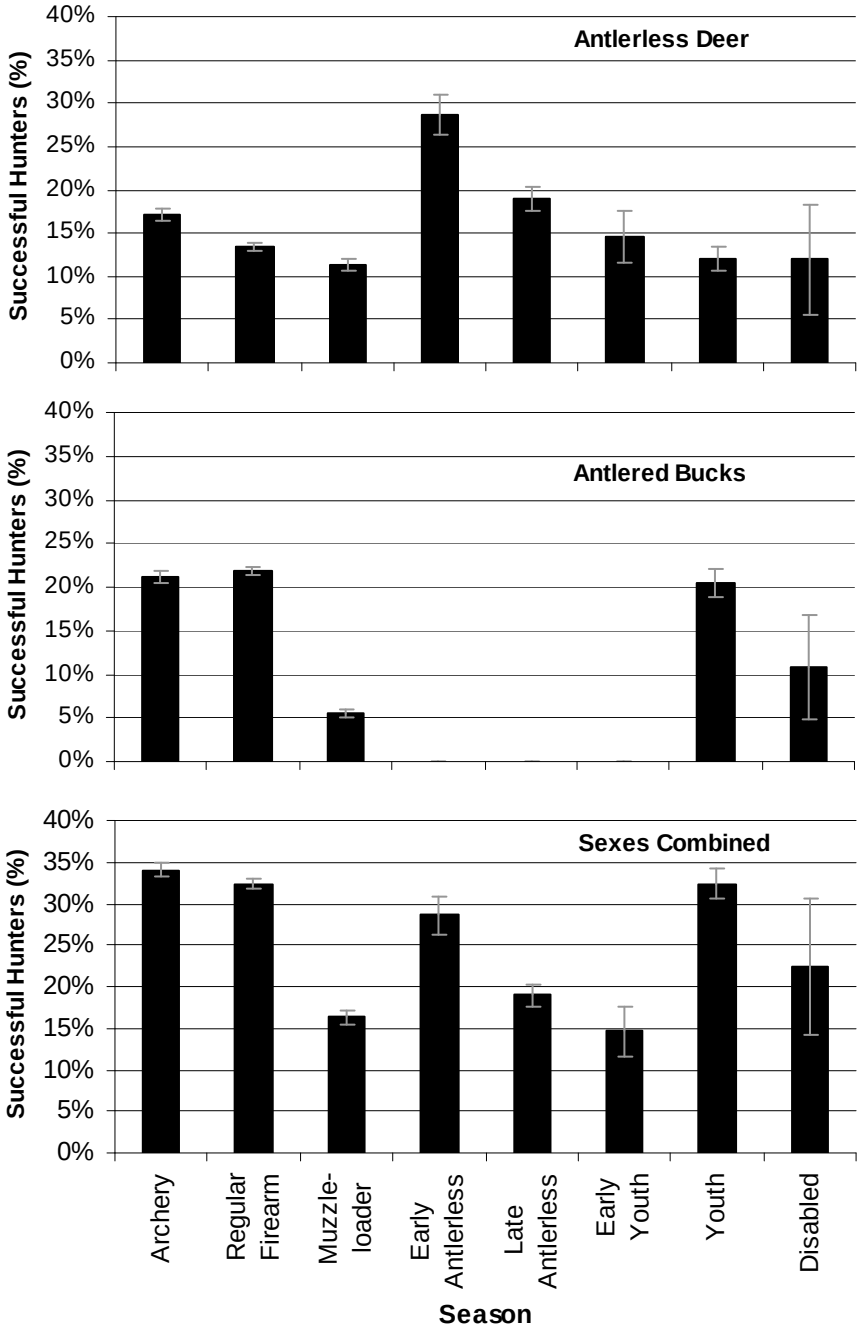

Figure 16. Percentage of hunters harvesting a deer in Michigan's deer hunting seasons, 2011. Error bars represent the 95% CLs. Antlered deer had at least one antler at least 3 inches in length; antlerless deer included deer without antlers and deer with antlers less than 3 inches in length.

Table 1. Kind of deer that could be taken during the 2011 Michigan deer hunting seasons for each combination of season and hunting license.

Type of license (harvest tag) or permit	Season	Kind of deer that could be harvested[a]
Archery License	Archery seasons	Antlerless or antlered deer[b]
Firearm License	Regular Firearm, or Muzzleloader seasons	Antlered deer statewide and antlerless deer in DMU 487[b]
Firearm License	Youth and 100% disabled veteran hunt[c]	Antlerless or antlered deer
Combination License[d] (Regular harvest tag)	Archery season	Antlerless or antlered deer
Combination License[d] (Regular harvest tag)	Regular Firearm, or Muzzleloader seasons	Antlered deer statewide and antlerless deer in DMU 487
Combination License[d] (Regular harvest tag)	Youth and 100% disabled veteran hunt	Antlerless or antlered deer
Combination License[d] (Restricted harvest tag)	Archery seasons	Antlerless deer or a deer that has at least 1 antler with 4 or more antler points, 1 or more inches in length
Combination License[d] (Restricted harvest tag)	Regular Firearm, Youth, or Muzzleloader seasons	A deer that has at least 1 antler with 4 or more antler points (1 or more inches in length) or an antlerless deer in DMU 487
Combination License[d] (Restricted harvest tag)	Youth and 100% disabled veteran hunt	Antlerless or antlered deer which has at least 1 antler with 4 or more antler points 1 or more inches in length
Antlerless License[e]	All seasons	Antlerless deer only
Deer Management Assistance (DMA) permit[f]	All seasons	Antlerless deer only
Managed Deer Hunt permit[g]	Specified season	Antlerless deer only

[a]Antlered deer had antlers at least 3 inches in length; antlerless deer included deer without antlers and deer with antlers less than 3 inches in length. Hunters could harvest a maximum of 2 antlered deer per year (all seasons combined).

[b]If a person took 2 antlered deer during all seasons combined, one of the antlered deer must have had at least 1 antler with 4 or more antler points, each point being 1 or more inches in length.

[c]All youths 10 and 11 years of age were restricted to archery-only hunting. Hunters could harvest only 1 deer in the youth and 100% disabled veterans season.

[d]Combination licenses included two harvest tags (i.e., regular and restricted harvest tags).

[e]Although antlerless licenses were only valid for taking an antlerless deer, a person with a valid antlerless deer hunting license that killed a male deer with antlers less than 3 inches in length could choose to tag the male deer with any deer hunting license (firearm, archery or either combination license).

[f]Permits issued to landowners in areas where the number of antlerless licenses was insufficient to meet the objective of specific landowners (i.e., controlling disease or the deer population). To use these permits, the hunter must also have purchased a firearm, archery, combination, or antlerless deer license for the season in which they were hunting.

[g]Permits for special hunts on designated public lands (e.g., some state parks, game areas, and federal property). These permits valid only during specific dates, which varied among areas. Permits issued to applicants using a lottery (i.e., random selection). To use these permits, the hunter must also have purchased a valid deer hunting license.

Table 2. Number of Michigan deer licenses purchased and harvest tags issued, 2009-2011.

Licenses or Harvest Tags	Number Purchased or Issued 2009	2010	2011	Change Between 2010 and 2011 (%)
Firearm Licenses				
Resident	237,282	217,816	196,470	-9.8
Non-resident	13,170	12,753	12,571	-1.4
Senior	35,568	36,606	36,729	0.3
Junior	NA	NA	18,175	
Military	1,015	926	1,001	8.1
Subtotal	287,035	268,101	264,946	-1.2
Archery Licenses				
Resident	39,246	40,803	41,804	2.5
Non-resident	2,869	3,070	3,022	-1.6
Junior	3,807	4,477	4,224	-5.7
Senior	4,578	5,366	6,148	14.6
Military	266	312	361	15.7
Subtotal	50,766	54,028	55,559	2.8
Combination Licenses[a]				
Resident	287,564	281,091	280,744	-0.1
Non-resident	1,861	1,952	2,060	5.5
Junior	48,247	46,632	43,293	-7.2
Senior	39,037	39,332	41,511	5.5
Military	1,669	1,583	1,727	9.1
Subtotal	378,378	370,590	369,335	-0.3
Antlerless Licenses				
Resident	489,302	463,947	445,018	-4.1
Non-resident	2,584	2,154	3,150	46.2
Junior	4,554	3,319	3,117	-6.1
Military	2,181	2,537	2,493	-1.7
Pure Michigan Hunt	NA	3	3	0.0
Deer Management Assistance	10,679	7,771	8,219	5.8
Managed Deer Hunt	245	296	343	15.9
Subtotal	509,545	480,027	462,343	-3.7
Total Licenses Sold	1,225,724	1,172,746	1,152,183	-1.8
Harvest Tags Issued				
Firearm	287,035	268,101	264,946	-1.2
Archery	50,766	54,028	55,559	2.8
Combination	756,756	741,180	738,670	-0.3
Antlerless	509,545	480,027	462,343	-3.7
Total Harvest Tags	1,604,102	1,543,336	1,521,518	-1.4

[a]Combination licenses included two harvest tags. Other license types had one harvest tag.

Table 3. Number of deer hunters and hunting effort in Michigan by hunting season, 2010-2011.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)
Archery								
West UP	23,402	24,126	1,500	3.1	268,558	275,824	22,685	2.7
East UP	7,016	6,645	805	-5.3	70,463	60,164	9,731	-14.6
NE LP	43,231	45,317	2,031	4.8	457,286	486,639	30,948	6.4
NW LP	57,036	61,131	2,318	7.2	679,204	733,623	38,183	8.0
Sag. Bay	54,560	56,259	2,232	3.1	692,155	684,153	37,094	-1.2
SW LP	56,155	59,279	2,272	5.6	798,703	818,849	41,615	2.5
SC LP	64,357	68,234	2,412	6.0	880,054	921,631	44,539	4.7
SE LP	35,727	35,922	1,812	0.5	468,768	453,457	31,506	-3.3
UP	30,176	30,465	2,639	1.0	339,020	335,988	24,684	-0.9
NLP	115,397	122,505	3,807	6.2	1,351,133	1,426,806	53,086	5.6
SLP	185,686	192,769	3,688	3.8	2,625,037	2,671,546	75,377	1.8
Statewide[c]	306,686	321,869	4,037	5.0*	4,315,190	4,434,340	95,526	2.8
Regular Firearm								
West UP	70,546	66,491	2,372	-5.7	507,909	463,416	20,348	-8.8*
East UP	21,787	19,683	1,368	-9.7	144,467	128,860	10,700	-10.8
NE LP	106,424	102,419	2,908	-3.8	641,583	610,367	22,143	-4.9
NW LP	109,975	106,545	2,934	-3.1	650,035	630,940	22,400	-2.9
Sag. Bay	93,549	93,192	2,783	-0.4	548,000	555,182	21,249	1.3
SW LP	91,277	86,944	2,668	-4.7	592,335	558,953	21,948	-5.6
SC LP	103,931	101,672	2,829	-2.2	647,840	612,411	22,448	-5.5
SE LP	40,864	39,712	1,894	-2.8	234,329	222,727	13,265	-5.0
UP	91,870	85,737	1,677	-6.7*	652,376	592,275	22,990	-9.2*
NLP	242,339	235,652	3,109	-2.8*	1,465,758	1,418,821	33,718	-3.2
SLP	291,516	283,746	3,539	-2.7*	1,848,364	1,771,759	38,318	-4.1
Statewide[c]	593,074	578,855	2,846	-2.4*	3,966,498	3,782,855	56,177	-4.6*

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2011 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.
*P<0.005.

Table 3 (continued). Number of deer hunters and hunting effort in Michigan by hunting season, 2010-2011.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)
Muzzleloader								
West UP	15,266	15,123	1,205	-0.9	77,398	73,929	6,837	-4.5
East UP	5,719	5,116	707	-10.6	28,795	24,190	3,850	-16.0
NE LP	21,769	22,249	1,456	2.2	95,313	94,526	7,244	-0.8
NW LP	22,830	24,954	1,539	9.3	100,784	102,291	7,553	1.5
Sag. Bay	32,859	33,114	1,750	0.8	143,955	150,397	9,822	4.5
SW LP	39,408	39,845	1,895	1.1	211,919	212,044	12,573	0.1
SC LP	41,717	42,899	1,953	2.8	210,414	213,086	12,247	1.3
SE LP	19,275	18,813	1,331	-2.4	90,495	90,181	8,018	-0.3
UP	20,826	20,156	1,383	-3.2	106,193	98,118	7,847	-7.6
NLP	53,106	55,620	2,240	4.7	232,171	233,084	11,394	0.4
SLP	121,225	122,772	3,001	1.3	620,710	629,441	21,178	1.4
Statewide[c]	189,557	194,186	3,624	2.4	959,075	960,643	25,382	0.2
Early Antlerless								
West UP	0	0	0		0	0	0	
East UP	0	0	0		0	0	0	
NE LP	2,708	3,195	549	18.0	6,574	7,379	1,483	12.3
NW LP	1,791	2,216	456	23.7	4,270	4,434	1,105	3.8
Sag. Bay	5,754	6,298	763	9.5	13,296	12,589	1,833	-5.3
SW LP	6,659	8,494	886	27.5*	14,274	18,115	2,283	26.9
SC LP	8,295	9,294	922	12.0	18,835	19,944	2,285	5.9
SE LP	4,230	5,116	693	20.9	9,039	10,935	1,736	21.0
UP	0	0	0		0	0	0	
NLP	4,724	5,642	726	19.4	11,576	12,401	1,890	7.1
SLP	24,568	28,622	1,569	16.5*	54,714	60,996	4,081	11.5
Statewide[c]	29,721	34,957	726	17.6*	66,289	73,397	4,533	10.7

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2011 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.
*P<0.005.

Table 3 (continued). Number of deer hunters and hunting effort in Michigan by hunting season, 2010-2011.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)
Late Antlerless								
West UP	0	0	0		0	0	0	
East UP	0	0	0		0	0	0	
NE LP	4,223	5,460	726	29.3	16,775	20,367	3,441	21.4
NW LP	3,513	4,890	680	39.2*	13,738	18,520	3,336	34.8
Sag. Bay	11,160	14,445	1,157	29.4*	37,986	53,750	5,508	41.5*
SW LP	19,528	23,841	1,468	22.1*	80,831	96,023	7,558	18.8*
SC LP	21,470	26,275	1,537	22.4*	81,672	107,648	7,986	31.8*
SE LP	7,251	8,977	918	23.8	25,755	36,269	4,829	40.8*
UP	0	0	0		0	0	0	
NLP	8,143	10,675	1,003	31.1*	31,789	40,043	4,845	26.0
SLP	57,942	71,877	2,349	24.0*	224,968	292,535	13,193	30.0*
Statewide[c]	66,744	83,744	2,488	25.5*	256,757	332,578	14,179	29.5*
Early Youth								
West UP	0	0	0		0	0	0	
East UP	0	0	0		0	0	0	
NE LP	0	0	0		0	0	0	
NW LP	286	335	114	16.9	522	602	237	15.3
Sag. Bay	1,037	1,076	201	3.8	2,220	2,049	428	-7.7
SW LP	1,457	1,372	227	-5.8	2,743	2,768	496	0.9
SC LP	1,570	1,645	247	4.8	2,864	3,125	522	9.1
SE LP	355	458	133	29.2	755	792	255	4.8
UP	0	0	0		0	0	0	
NLP	286	335	114	16.9	522	602	237	15.3
SLP	4,408	4,508	393	2.3	8,582	8,733	875	1.8
Statewide[c]	4,749	5,065	413	6.6	9,104	9,335	285	2.5

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2011 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.
*P<0.005.

Table 3 (continued). Number of deer hunters and hunting effort in Michigan by hunting season, 2010-2011.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)
Youth								
West UP	1,428	1,692	250	18.5	2,300	2,677	421	16.4
East UP	276	359	117	29.9	447	552	191	23.5
NE LP	2,673	2,713	313	1.5	4,540	4,555	567	0.3
NW LP	4,969	4,727	400	-4.9	8,201	7,534	713	-8.1
Sag. Bay	4,372	4,796	404	9.7	6,961	7,679	720	10.3
SW LP	3,464	3,005	328	-13.3	5,380	4,647	558	-13.6
SC LP	4,208	4,072	376	-3.2	6,722	6,012	625	-10.6
SE LP	1,736	2,055	275	18.4	2,647	3,185	463	20.4
UP	1,705	2,051	274	20.3	2,747	3,229	462	17.5
NLP	8,778	8,967	516	2.1	14,665	14,479	995	-1.3
SLP	12,533	12,267	568	-2.1	19,784	19,133	1,129	-3.3
Statewide[c]	23,071	23,597	591	2.3	37,196	36,841	1,579	-1.0
Disabled hunts								
West UP	158	108	78	-31.7	571	246	262	-57.0
East UP	142	11	5	-92.5*	241	21	10	-91.4
NE LP	379	300	158	-20.8	1,301	597	383	-54.1
NW LP	253	396	177	56.4	722	856	440	18.6
Sag. Bay	262	454	197	73.2	720	1,094	701	51.9
SW LP	245	242	131	-1.1	599	673	424	12.3
SC LP	394	248	140	-37.0	963	620	522	-35.6
SE LP	157	235	140	49.7	339	280	175	-17.4
UP	300	118	78	-60.5	812	266	263	-67.2
NLP	676	806	254	19.2	2,115	1,843	787	-12.9
SLP	1,013	1,040	289	2.6	2,529	2,276	835	-10.0
Statewide[c]	2,107	2,045	403	-2.9	5,456	4,386	1,195	-19.6

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2011 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.
*P<0.005.

Table 3 (continued). Number of deer hunters and hunting effort in Michigan by hunting season, 2010-2011.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)	2010	2011	95% CL[b]	Change from 2010 to 2011 (%)
All Seasons								
West UP	79,297	76,166	2,512	-3.9	856,638	815,984	39,861	-4.7
East UP	25,457	22,631	1,460	-11.1	244,378	213,712	19,125	-12.5
NE LP	118,859	117,877	3,071	-0.8	1,223,283	1,224,343	50,374	0.1
NW LP	128,681	124,714	3,114	-3.1	1,457,517	1,499,273	58,499	2.9
Sag. Bay	111,603	111,615	2,989	0.0	1,445,339	1,466,876	60,347	1.5
SW LP	109,218	106,591	2,900	-2.4	1,706,794	1,711,858	69,678	0.3
SC LP	127,469	124,958	3,065	-2.0	1,849,391	1,884,311	72,480	1.9
SE LP	57,401	56,700	2,227	-1.2	832,224	818,018	48,007	-1.7
UP	103,729	97,971	2,782	-5.6*	1,101,016	1,029,697	44,211	-6.5
NLP	274,687	271,567	3,903	-1.1	3,109,714	3,148,624	83,460	1.3
SLP	353,269	346,439	3,708	-1.9	5,404,835	5,456,054	122,675	0.9
Statewide[c]	656,501	648,127	1,731	-1.3*	9,615,565	9,634,375	155,117	0.2

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2011 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.
*P<0.005.

Table 4. Mean number of days hunters spent hunting deer ($\bar{x}$ hunting effort) in Michigan by hunting season, 2011.[a]

	Season							
	Archery		Regular Firearm		Muzzleloader		Early Antlerless	
Area	$\bar{x}$ days	95% CL[b]	$\bar{x}$ days	95% CL[b]	$\bar{x}$ days	95% CL[b]	$\bar{x}$ days	95% CL[b]
West UP	11.5	0.6	7.2	0.2	5.0	0.2	0.0	0.0
East UP	9.3	1.0	6.8	0.3	4.9	0.4	0.0	0.0
NE LP	11.0	0.5	6.1	0.1	4.4	0.2	2.6	0.2
NW LP	12.4	0.4	6.1	0.1	4.4	0.2	2.3	0.3
Sag. Bay	12.6	0.5	6.2	0.1	4.7	0.2	2.3	0.2
SW LP	14.3	0.5	6.8	0.1	5.6	0.2	2.4	0.1
SC LP	14.0	0.4	6.4	0.1	5.2	0.2	2.3	0.1
SE LP	13.1	0.6	5.9	0.2	5.1	0.3	2.4	0.2
UP	11.2	0.5	7.1	0.1	5.0	0.2	0.0	0.0
NLP	12.0	0.3	6.2	0.1	4.4	0.1	2.5	0.2
SLP	14.3	0.3	6.6	0.1	5.4	0.1	2.3	0.1
Statewide	14.4	0.2	6.9	0.1	5.3	0.1	2.4	0.1

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit.

Table 4 (Continued). Mean number of days hunters spent hunting deer ($\bar{x}$ hunting effort) in Michigan by hunting season, 2011.[a]

	Season									
	Late Antlerless		Early Youth		Youth		Disabled Hunts		All Seasons	
Area	$\bar{x}$ days	95% CL[b]	$\bar{x}$ days	95% CL[b]	$\bar{x}$ days	95% CL[b]	$\bar{x}$ days	95% CL[b]	$\bar{x}$ days	95% CL[b]
West UP	0.0	0.0	0.0	0.0	1.6	0.1	3.1	1.2	11.0	0.4
East UP	0.0	0.0	0.0	0.0	1.6	0.2	2.7	0.7	9.7	0.6
NE LP	4.0	0.4	0.0	0.0	1.7	0.0	2.7	0.6	10.7	0.3
NW LP	4.2	0.4	1.9	0.4	1.6	0.0	2.7	0.7	12.4	0.4
Sag. Bay	4.1	0.2	2.0	0.2	1.6	0.0	3.3	1.2	13.6	0.4
SW LP	4.5	0.2	2.0	0.1	1.6	0.1	2.8	0.8	16.7	0.5
SC LP	4.5	0.2	2.0	0.1	1.5	0.0	2.8	1.7	15.7	0.4
SE LP	4.5	0.3	1.7	0.2	1.6	0.1	1.5	0.3	15.0	0.6
UP	0.0	0.0	0.0	0.0	1.6	0.1	3.1	1.2	10.8	0.3
NLP	4.1	0.3	1.9	0.4	1.7	0.0	3.1	0.8	11.9	0.2
SLP	4.5	0.1	2.0	0.1	1.6	0.0	2.6	0.6	16.4	0.3
Statewide	4.5	0.1	2.0	0.1	1.6	0.0	2.8	0.4	15.6	0.2

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit.

Table 5. Number of deer harvested in Michigan, 2009-2011.

Season or permit	Type of deer	2009	2010	2011	Change from 2010 to 2011 (%)
Season					
Archery	Antlerless	53,053	51,309	61,466	19.8*
	Antlered bucks	64,580	65,871	70,148	6.5
	Sexes combined	117,633	117,180	131,615	12.3*
Regular firearm	Antlerless	101,234	90,927	86,697	-4.7
	Antlered bucks	132,822	129,376	127,373	-1.5
	Sexes combined	234,056	220,303	214,070	-2.8
Muzzleloader	Antlerless	30,595	26,627	23,838	-10.5
	Antlered bucks	12,252	12,348	10,418	-15.6
	Sexes combined	42,847	38,975	34,256	-12.1*
Early antlerless	Antlerless	11,545	8,423	10,892	29.3*
Late antlerless	Antlerless	21,325	18,957	17,345	-8.5
Early youth	Antlerless	0	720	713	-1.0
Youth	Antlerless	2,993	2,748	2,736	-0.4
	Antlered bucks	5,283	4,557	4,634	1.7
	Sexes combined	8,275	7,305	7,370	0.9
Disabled hunts	Antlerless	171	248	242	-2.2
	Antlered bucks	184	189	217	15.1
	Sexes combined	354	436	460	5.3
Special permits[a]	Antlerless	8,195	5,551	5,293	-4.6
Grand Total	Antlerless	229,111	205,509	209,223	1.8
	Antlered bucks	215,120	212,341	212,791	0.2
	Sexes combined	444,231	417,850	422,014	1.0

[a]Includes deer harvested with DMA permits. These permits could be used during any deer hunting season.
*$P<0.005$.

Table 6. Number of deer harvested in Michigan by hunting season, 2010-2011.[a]

Season and Area	Antlerless 2010 Harvest	Antlerless 2011 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2010 to 2011 (%)	Antlered Bucks 2010 Harvest	Antlered Bucks 2011 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2010 to 2011 (%)	Sexes Combined 2010 Harvest	Sexes Combined 2011 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2010 to 2011 (%)
Archery												
West UP	4,312	5,418	797	25.6	3,478	4,215	646	21.2	7,789	9,630	1,066	23.6
East UP	1,060	862	292	-18.7	507	580	234	14.5	1,567	1,442	388	-8.0
NE LP	4,820	6,476	833	34.3*	3,644	6,464	793	77.4*	8,464	12,938	1,222	52.9*
NW LP	7,939	10,297	1,067	29.7*	9,010	11,083	1,057	23.0*	16,948	21,380	1,626	26.1*
Sag. Bay	7,968	9,682	1,077	21.5	12,330	11,911	1,111	-3.4	20,299	21,594	1,699	6.4
SW LP	9,145	10,222	1,119	11.8	12,470	12,240	1,137	-1.8	21,616	22,463	1,753	3.9
SC LP	10,656	12,986	1,302	21.9	17,006	17,302	1,358	1.7	27,663	30,291	2,085	9.5
SE LP	5,408	5,523	787	2.1	7,426	6,353	812	-14.5	12,834	11,876	1,241	-7.5
UP	5,372	6,280	849	16.9	3,985	4,795	687	20.3	9,356	11,072	1,134	18.3
NLP	15,153	20,197	1,487	33.3*	15,485	20,809	1,441	34.4*	30,636	41,003	2,236	33.8*
SLP	30,784	34,989	2,085	13.7*	46,402	44,544	2,167	-4.0	77,188	79,540	3,314	3.0
Statewide	51,309	61,466	2,710	19.8*	65,871	70,148	2,700	6.5	117,180	131,615	4,169	12.3*
Regular Firearm												
West UP	4,865	5,265	834	8.2	21,127	19,541	1,380	-7.5	25,993	24,802	1,696	-4.6
East UP	52	0	0	-100.0	3,353	3,322	565	-0.9	3,405	3,321	565	-2.5
NE LP	10,861	12,437	1,195	14.5	16,317	20,259	1,416	24.2*	27,179	32,695	1,948	20.3*
NW LP	12,650	12,038	1,134	-4.8	18,583	20,626	1,430	11.0	31,234	32,662	1,952	4.6
Sag. Bay	17,564	18,091	1,491	3.0	20,226	21,147	1,450	4.6	37,790	39,239	2,275	3.8
SW LP	15,941	14,217	1,314	-10.8	18,696	15,102	1,246	-19.2*	34,636	29,321	1,953	-15.3*
SC LP	24,484	19,818	1,562	-19.1*	24,581	21,499	1,491	-12.5	49,063	41,319	2,362	-15.8*
SE LP	4,511	4,832	740	7.1	6,493	5,878	772	-9.5	11,004	10,711	1,146	-2.7
UP	4,916	5,265	834	7.1	24,479	22,863	1,491	-6.6	29,398	28,122	1,787	-4.3
NLP	28,082	29,863	1,823	6.3	39,871	46,848	2,158	17.5*	67,953	76,709	3,000	12.9*
SLP	57,929	51,569	2,517	-11.0*	65,026	57,663	2,423	-11.3*	122,952	109,239	3,807	-11.2*
Statewide	90,927	86,697	3,227	-4.7	129,376	127,373	3,584	-1.5	220,303	214,070	5,183	-2.8

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2010-2011.[a]

Season and Area	Antlerless 2010 Harvest	Antlerless 2011 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2010 to 2011 (%)	Antlered Bucks 2010 Harvest	Antlered Bucks 2011 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2010 to 2011	Sexes Combined 2010 Harvest	Sexes Combined 2011 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2010 to 2011
Muzzleloader												
West UP	1,014	1,415	386	39.6	1,270	1,670	397	31.5	2,287	3,084	567	34.9
East UP	52	2	2	-97.0	419	214	144	-49.0	473	215	144	-54.4
NE LP	2,387	1,837	437	-23.0	941	883	295	-6.2	3,328	2,721	536	-18.3
NW LP	2,376	2,039	477	-14.2	764	862	285	12.8	3,139	2,901	564	-7.6
Sag. Bay	5,439	5,003	731	-8.0	2,062	1,436	367	-30.4	7,499	6,439	845	-14.1
SW LP	6,234	4,776	750	-23.4	2,980	1,928	428	-35.3*	9,214	6,704	889	-27.2*
SC LP	6,825	6,913	934	1.3	2,675	2,380	478	-11.0	9,499	9,294	1,096	-2.2
SE LP	2,300	1,853	464	-19.4	1,237	1,045	313	-15.5	3,538	2,898	582	-18.1
UP	1,066	1,417	386	32.9	1,689	1,884	422	11.5	2,759	3,299	585	19.6
NLP	6,030	5,022	739	-16.7	2,015	1,958	434	-2.8	8,042	6,980	869	-13.2
SLP	19,532	17,400	1,434	-10.9	8,644	6,576	790	-23.9*	28,174	23,977	1,702	-14.9*
Statewide	26,627	23,838	1,666	-10.5	12,348	10,418	1,001	-15.6	38,975	34,256	2,007	-12.1*
Early Antlerless												
West UP	0	0	0		0	0	0	0	0	0	0	
East UP	0	0	0		0	0	0	0	0	0	0	
NE LP	727	900	315	23.9	0	0	0	0	727	900	315	23.9
NW LP	793	617	255	-22.1	0	0	0	0	793	617	255	-22.1
Sag. Bay	1,969	2,473	531	25.6	0	0	0	0	1,969	2,473	531	25.6
SW LP	1,480	2,316	501	56.4	0	0	0	0	1,480	2,316	501	56.4
SC LP	2,531	3,019	587	19.3	0	0	0	0	2,531	3,019	587	19.3
SE LP	923	1,566	422	69.7	0	0	0	0	923	1,566	422	69.7
UP	0	0	0		0	0	0	0	0	0	0	
NLP	1,619	1,600	415	-1.2	0	0	0	0	1,619	1,600	415	-1.2
SLP	6,804	9,292	1,024	36.6	0	0	0	0	6,804	9,292	1,024	36.6*
Statewide	8,423	10,892	1,115	29.3*	0	0	0	0	8,423	10,892	1,115	29.3*

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2010-2011.[a]

Season and Area	Antlerless				Antlered Bucks				Sexes Combined			
	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011 (%)	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011
Late Antlerless												
West UP	0	0	0		0	0	0		0	0	0	
East UP	0	0	0		0	0	0		0	0	0	
NE LP	1,157	1,177	377	1.7	0	0	0		1,157	1,177	377	1.7
NW LP	970	1,064	351	9.6	0	0	0		970	1,064	351	9.6
Sag. Bay	3,710	3,608	683	-2.7	0	0	0		3,710	3,608	683	-2.7
SW LP	4,746	3,384	598	-28.7*	0	0	0		4,746	3,384	598	-28.7*
SC LP	6,845	6,450	906	-5.8	0	0	0		6,845	6,450	906	-5.8
SE LP	1,528	1,662	441	8.8	0	0	0		1,528	1,662	441	8.8
UP	0	0	0		0	0	0		0	0	0	
NLP	2,217	2,294	520	3.5	0	0	0		2,217	2,294	520	3.5
SLP	16,740	15,051	1,354	-10.1	0	0	0		16,740	15,051	1,354	-10.1
Statewide	18,957	17,345	1,456	-8.5	0	0	0		18,957	17,345	1,456	-8.5
Early Youth												
West UP	0	0	0		0	0	0		0	0	0	
East UP	0	0	0		0	0	0		0	0	0	
NE LP	0	0	0		0	0	0		0	0	0	
NW LP	65	55	45	-15.0	0	0	0		65	55	45	-15.0
Sag. Bay	153	134	69	-12.5	0	0	0		153	134	69	-12.5
SW LP	218	189	83	-13.3	0	0	0		218	189	83	-13.3
SC LP	251	268	98	6.7	0	0	0		251	268	98	6.7
SE LP	33	66	49	103.9	0	0	0		33	66	49	103.9
UP	0	0	0		0	0	0		0	0	0	
NLP	65	55	45	-15.0	0	0	0		65	55	45	-15.0
SLP	655	657	154	0.4	0	0	0		655	657	154	0.4
Statewide	720	713	163	-1.0	0	0	0		720	713	163	-1.0

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2010-2011.[a]

Season and Area	Antlerless 2010 Harvest	Antlerless 2011 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2010 to 2011 (%)	Antlered Bucks 2010 Harvest	Antlered Bucks 2011 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2010 to 2011	Sexes Combined 2010 Harvest	Sexes Combined 2011 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2010 to 2011
Youth												
West UP	182	303	106	66.3	367	425	125	15.9	549	729	164	32.7
East UP	43	75	53	75.0	43	66	49	52.9	86	141	72	64.0
NE LP	397	399	122	0.5	582	467	132	-19.7	979	867	179	-11.5
NW LP	805	841	177	4.6	936	923	185	-1.4	1,741	1,766	256	1.4
Sag. Bay	431	516	139	19.6	1,109	1,127	204	1.6	1,540	1,642	247	6.6
SW LP	333	97	60	-71.0*	421	413	124	-1.7	753	509	137	-32.4
SC LP	386	311	108	-19.5	883	889	181	0.6	1,269	1,199	211	-5.6
SE LP	172	194	85	13.1	215	324	110	50.5	387	518	139	33.9
UP	225	378	119	68.0	410	491	135	19.8	635	870	179	36.9
NLP	1,363	1,563	241	14.6	1,830	1,661	248	-9.2	3,194	3,227	346	1.0
SLP	1,159	795	173	-31.5	2,317	2,482	303	7.1	3,476	3,274	349	-5.8
Statewide	2,748	2,736	320	-0.4	4,557	4,634	416	1.7	7,305	7,370	524	0.9
Disabled Hunts												
West UP	9	8	4	-13.8	3	9	4	180.6	12	17	7	35.3
East UP	26	0	0	-100.0	27	0	0	-100.0	52	0	0	-100.0
NE LP	3	32	50	960.0	28	8	4	-72.5	31	40	51	29.1
NW LP	38	43	51	13.4	41	91	88	123.7	78	134	102	71.2
Sag. Bay	41	59	71	44.0	9	38	51	310.1	51	97	88	91.9
SW LP	65	9	6	-85.6	31	2	2	-95.0	97	11	6	-88.8
SC LP	65	35	51	-45.1	47	40	51	-14.0	112	76	73	-32.0
SE LP	2	56	72	3618.4	3	30	51	1042.1	4	86	88	2001.8
UP	35	8	4	-77.6	30	9	4	-70.6	64	17	7	-74.3
NLP	50	75	71	50.0	72	106	88	47.9	121	181	114	49.7
SLP	163	160	113	-2.1	87	102	89	17.3	251	262	144	4.3
Statewide	248	242	134	-2.2	189	217	125	15.1	436	460	183	5.3

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2010-2011.[a]

Season and Area	Antlerless				Antlered Bucks				Sexes Combined			
	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011 (%)	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011 (%)	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011 (%)
All Seasons												
West UP	10,392	12,417	1,289	19.5	26,240	25,852	1,638	-1.5	36,644	38,277	2,241	4.5
East UP	1,235	939	297	-24.0	4,347	4,181	638	-3.8	5,584	5,122	726	-8.3
NE LP	20,360	23,270	1,761	14.3	21,509	28,079	1,706	30.5*	41,869	51,351	2,685	22.6*
NW LP	25,652	27,008	1,829	5.3	29,331	33,587	1,896	14.5*	54,985	60,599	2,941	10.2
Sag. Bay	37,270	39,566	2,513	6.2	35,739	35,660	1,966	-0.2	73,006	75,223	3,631	3.0
SW LP	38,149	35,200	2,385	-7.7	34,602	29,687	1,854	-14.2*	72,746	64,882	3,438	-10.8*
SC LP	52,027	49,789	2,987	-4.3	45,195	42,113	2,209	-6.8	97,214	91,896	4,279	-5.5
SE LP	14,874	15,742	1,574	5.8	15,378	13,631	1,233	-11.4	30,252	29,372	2,269	-2.9
UP	11,627	13,355	1,323	14.9	30,587	30,033	1,758	-1.8	42,229	43,399	2,355	2.8
NLP	54,606	60,703	2,801	11.2*	59,265	71,383	2,746	20.4*	113,872	132,091	4,348	16.0*
SLP	133,725	129,872	4,691	-2.9	122,489	111,374	3,559	-9.1*	256,198	241,231	6,739	-5.8*
Statewide	199,958	203,930	5,641	2.0	4,845	212,791	4,843	0.2	412,299	416,721	8,387	1.1

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 7. Number of deer harvested on public and private lands during all seasons combined in Michigan by management region, 2010-2011.[a]

Season and Area	Antlerless				Antlered Bucks				Sexes Combined			
	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011 (%)	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011 (%)	2010 Harvest	2011 Harvest	95% CL[b]	Change from 2010 to 2011 (%)
Public Lands												
West UP	2,818	3,097	572	9.9	8,467	8,456	931	-0.1	11,288	11,556	1,134	2.4
East UP	437	259	154	-40.7	1,258	1,409	362	11.9	1,695	1,668	400	-1.6
NE LP	4,317	5,236	776	21.3	5,137	6,697	831	30.4*	9,453	11,931	1,205	26.2*
NW LP	1,722	2,683	512	55.8*	4,980	6,393	814	28.4	6,704	9,078	998	35.4*
Sag. Bay	3,896	4,213	712	8.1	3,958	3,721	611	-6.0	7,852	7,932	1,019	1.0
SW LP	2,161	2,203	492	2.0	2,091	2,455	510	17.4	4,250	4,658	746	9.6
SC LP	3,376	2,801	563	-17.0	3,293	3,051	567	-7.4	6,667	5,851	879	-12.2
SE LP	1,122	1,452	408	29.5	1,201	963	298	-19.8	2,323	2,415	549	3.9
UP	3,255	3,356	592	3.1	9,725	9,865	999	1.4	12,983	13,225	1,203	1.9
NLP	7,414	9,513	1,012	28.3*	11,486	14,363	1,216	25.0*	18,900	23,876	1,655	26.3*
SLP	9,180	9,076	1,036	-1.1	9,174	8,917	958	-2.8	18,350	17,989	1,542	-2.0
Statewide	19,849	21,946	1,574	10.6	30,385	33,144	1,854	9.1	50,233	55,089	2,578	9.7
Private Lands												
West UP	7,573	9,331	1,133	23.2	17,770	17,423	1,336	-2.0	25,351	26,761	1,899	5.6
East UP	797	681	254	-14.6	3,089	2,777	521	-10.1	3,888	3,460	602	-11.0
NE LP	16,042	18,052	1,567	12.5	16,371	21,397	1,483	30.7	32,413	39,452	2,365	21.7*
NW LP	23,930	24,323	1,739	1.6	24,351	27,201	1,702	11.7	48,281	51,527	2,720	6.7
Sag. Bay	33,374	35,352	2,403	5.9	31,782	31,929	1,861	0.5	65,154	67,278	3,455	3.3
SW LP	35,989	32,986	2,323	-8.3	32,513	27,218	1,777	-16.3*	68,499	60,200	3,323	-12.1*
SC LP	48,652	46,970	2,922	-3.5	41,904	39,041	2,130	-6.8	90,550	86,006	4,152	-5.0
SE LP	13,752	14,288	1,502	3.9	14,177	12,661	1,190	-10.7	27,930	26,948	2,173	-3.5
UP	8,370	10,012	1,161	19.6	20,859	20,200	1,434	-3.2	29,239	30,220	1,992	3.4
NLP	47,192	51,209	2,589	8.5	47,778	57,040	2,449	19.4*	94,969	108,255	3,960	14.0*
SLP	124,547	120,763	4,555	-3.0	113,320	102,407	3,416	-9.6*	237,857	223,157	6,499	-6.2*
Statewide	180,109	181,985	5,384	1.0	181,957	179,647	4,453	-1.3	362,066	361,632	7,890	-0.1

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 8. Percentage of deer hunters harvesting deer in Michigan during all seasons, 2011.[a]

Sex and Area	Number of deer harvested									
	≥1 deer		≥2 deer		≥3 deer		≥4 deer		≥5 deer	
	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]
Antlerless										
West UP	13.5	1.2	2.7	0.6	0.4	0.2	0.1	0.1	0.0	0.1
East UP	4.1	1.3	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
NE LP	16.6	1.1	2.8	0.5	0.6	0.2	0.2	0.1	0.0	0.1
NW LP	18.6	1.1	3.0	0.5	0.5	0.2	0.1	0.1	0.0	0.0
Sag. Bay	26.7	1.3	6.9	0.7	2.0	0.4	0.5	0.2	0.2	0.1
SW LP	25.0	1.3	6.4	0.7	1.8	0.4	0.4	0.2	0.2	0.1
SC LP	28.5	1.2	8.1	0.8	2.6	0.4	1.0	0.3	0.4	0.2
SE LP	21.5	1.7	4.6	0.9	1.5	0.5	0.6	0.3	0.2	0.2
UP	11.5	1.0	2.2	0.5	0.3	0.2	0.1	0.1	0.0	0.1
NLP	18.8	0.7	3.3	0.3	0.6	0.1	0.2	0.1	0.0	0.0
SLP	27.3	0.7	7.5	0.4	2.3	0.3	0.8	0.1	0.3	0.1
Statewide	23.9	0.5	6.0	0.3	1.7	0.2	0.6	0.1	0.2	0.1
Antlered bucks[c]										
West UP	32.6	1.7	2.4	0.5						
East UP	18.7	2.6	0.4	0.4						
NE LP	22.8	1.2	1.8	0.4						
NW LP	25.3	1.2	2.5	0.4						
Sag. Bay	29.5	1.3	3.4	0.5						
SW LP	24.9	1.3	3.7	0.6						
SC LP	29.9	1.3	4.8	0.6						
SE LP	22.1	1.7	2.7	0.7						
UP	29.6	1.4	1.9	0.4						
NLP	24.8	0.8	2.2	0.3						
SLP	28.7	0.8	4.4	0.3						
Statewide	30.2	0.6	3.9	0.2						

[a]Excluded people that did not hunt during the season and deer taken with DMA permits.
[b]95 confidence limit.
[c]The season bag limit for antlered deer was two.

Table 8 (continued). Percentage of deer hunters harvesting deer in Michigan during all seasons, 2011.[a]

Sex and Area	Number of deer harvested									
	≥1 deer		≥2 deer		≥3 deer		≥4 deer		≥5 deer	
	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]
Sexes Combined										
West UP	41.9	1.8	7.9	1.0	1.5	0.4	0.2	0.2	0.0	0.0
East UP	22.0	2.7	1.3	0.7	0.0	0.0	0.0	0.0	0.1	0.1
NE LP	34.8	1.4	8.0	0.8	1.3	0.3	0.5	0.2	0.1	0.1
NW LP	37.7	1.3	10.1	0.8	1.8	0.4	0.4	0.2	0.2	0.2
Sag. Bay	47.0	1.5	14.9	1.0	4.9	0.6	1.7	0.4	0.2	0.2
SW LP	41.6	1.5	14.2	1.0	4.3	0.6	1.6	0.4	0.3	0.3
SC LP	47.3	1.4	17.8	1.1	6.1	0.7	2.7	0.4	0.2	0.2
SE LP	36.8	2.0	11.1	1.3	3.4	0.8	1.4	0.5	0.0	0.0
UP	37.6	1.5	6.5	0.8	1.2	0.3	0.2	0.1	0.1	0.1
NLP	37.8	0.9	9.8	0.6	1.8	0.3	0.5	0.1	0.2	0.2
SLP	45.9	0.8	16.5	0.6	5.6	0.4	2.2	0.2	0.0	0.0
Statewide	45.2	0.6	14.7	0.4	4.3	0.2	1.5	0.1	0.6	0.1

[a]Excluded people that did not hunt during the season and deer taken with DMA permits.
[b]95 confidence limit.
[c]The season bag limit for antlered deer was two.

Table 9. Percentage of deer hunters harvesting at least one deer in Michigan by hunting season, 2011.[a]

Sex and Area	Season											
	Archery		Regular Firearm		Muzzleloader		Early Antlerless		Late Antlerless		Early Youth	
	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]
Antlerless												
West UP	20.3	2.6	6.7	1.0	9.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0
East UP	12.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE LP	13.6	1.6	11.1	1.0	8.1	1.8	25.2	7.4	19.7	5.4	0.0	0.0
NW LP	15.8	1.5	10.7	0.9	7.7	1.7	26.0	9.0	19.5	5.6	16.6	12.7
Sag. Bay	15.3	1.5	17.1	1.2	14.5	1.9	35.3	5.9	22.2	3.4	12.5	6.3
SW LP	15.3	1.5	14.7	1.2	10.8	1.5	25.2	4.6	13.7	2.2	13.9	5.8
SC LP	16.2	1.4	17.1	1.2	14.3	1.7	28.9	4.6	21.8	2.5	16.4	5.7
SE LP	14.3	1.8	11.0	1.5	8.9	2.0	28.0	6.1	16.9	3.9	14.6	10.3
UP	18.9	2.2	5.2	0.7	6.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
NLP	15.5	1.0	11.8	0.6	8.6	1.2	25.9	5.6	19.5	3.8	16.6	12.7
SLP	15.8	0.8	16.0	0.7	12.9	0.9	29.3	2.6	18.9	1.4	14.7	3.3
Statewide	17.1	0.7	13.5	0.4	11.4	0.7	28.6	2.4	18.9	1.3	14.6	3.1
Antlered Bucks												
West UP	17.5	2.4	29.5	1.8	11.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
East UP	9.0	3.5	17.2	2.7	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
NE LP	14.4	1.6	19.6	1.2	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
NW LP	18.0	1.5	19.2	1.2	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Sag. Bay	20.6	1.7	22.4	1.3	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
SW LP	19.9	1.6	16.9	1.3	5.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
SC LP	24.3	1.6	20.5	1.2	5.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
SE LP	17.2	2.0	14.6	1.8	5.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
UP	15.8	2.1	26.8	1.5	9.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0
NLP	16.8	1.1	19.7	0.8	3.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
SLP	22.2	0.9	19.8	0.7	5.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Statewide	21.2	0.7	21.8	0.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0

[a]Excluded people that did not hunt during the season and deer taken with DMA permits.
[b]95 confidence limit.

Table 9 (continued). Percentage of deer hunters harvesting at least one deer in Michigan by hunting season, 2011.[a]

Sex and Area	Season											
	Archery		Regular Firearm		Muzzleloader		Early Antlerless		Late Antlerless		Early Youth	
	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]
Sexes combined												
West UP	35.7	3.1	34.3	1.8	19.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
East UP	20.9	4.9	17.2	2.7	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
NE LP	26.1	2.0	29.0	1.4	11.7	2.1	25.2	7.4	19.7	5.4	0.0	0.0
NW LP	30.7	1.8	27.5	1.3	11.1	2.0	26.0	9.0	19.5	5.6	16.6	12.7
Sag. Bay	32.0	1.9	35.7	1.5	18.4	2.1	35.3	5.9	22.2	3.4	12.5	6.3
SW LP	31.4	1.9	28.8	1.5	15.2	1.8	25.2	4.6	13.7	2.2	13.9	5.8
SC LP	35.3	1.8	33.7	1.5	18.9	1.9	28.9	4.6	21.8	2.5	16.4	5.7
SE LP	28.2	2.3	23.7	2.1	14.0	2.5	28.0	6.1	16.9	3.9	14.6	10.3
UP	32.8	2.7	30.6	1.6	16.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
NLP	29.5	1.3	29.2	0.9	12.0	1.4	25.9	5.6	19.5	3.8	16.6	12.7
SLP	33.4	1.1	32.3	0.9	17.6	1.1	29.3	2.6	18.9	1.4	14.7	3.3
Statewide	34.1	0.8	32.3	0.6	16.3	0.8	28.6	2.4	18.9	1.3	14.6	3.1

[a]Excluded people that did not hunt during the season and deer taken with DMA permits.
[b]95 confidence limit.

Table 9 (Continued). Percentage of deer hunters harvesting at least one deer in Michigan by hunting season, 2011.[a]

Sex and Area	Season					
	Youth		Disabled Hunts		All Seasons	
	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]
Antlerless						
West UP	18.6	5.9	7.5	6.6	13.5	1.2
East UP	21.7	13.6	0.0	0.0	4.1	1.3
NE LP	15.2	4.3	11.0	16.4	16.6	1.1
NW LP	18.5	3.5	10.3	12.7	18.6	1.1
Sag. Bay	11.2	2.8	13.3	15.1	26.7	1.3
SW LP	3.3	2.0	2.7	2.1	25.0	1.3
SC LP	7.9	2.6	14.7	19.8	28.5	1.2
SE LP	9.8	4.1	24.6	26.9	21.5	1.7
UP	19.1	5.4	6.8	5.7	11.5	1.0
NLP	18.1	2.5	9.2	8.8	18.8	0.7
SLP	6.7	1.4	15.5	10.3	27.3	0.7
Statewide	12.0	1.3	12.0	6.4	23.9	0.5
Antlered Bucks						
West UP	25.9	6.6	8.4	7.1	32.6	1.7
East UP	18.9	12.8	0.0	0.0	18.7	2.6
NE LP	17.7	4.6	2.7	2.0	22.8	1.2
NW LP	20.1	3.6	23.8	19.8	25.3	1.2
Sag. Bay	24.2	3.9	8.4	11.3	29.5	1.3
SW LP	14.2	4.0	0.7	0.9	24.9	1.3
SC LP	22.5	4.1	16.2	19.8	29.9	1.3
SE LP	16.2	5.1	13.0	20.9	22.1	1.7
UP	24.7	5.9	7.6	6.1	29.6	1.4
NLP	19.1	2.6	13.5	10.6	24.8	0.8
SLP	20.8	2.3	10.0	8.4	28.7	0.8
Statewide	20.4	1.6	10.9	6.0	30.2	0.6

[a]Excluded people that did not hunt during the season and deer taken with DMA permits.
[b]95 confidence limit.

Table 9 (continued). Percentage of deer hunters harvesting at least one deer in Michigan by hunting season, 2011.[a]

Sex and Area	Season					
	Youth		Disabled Hunts		All Seasons	
	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]
Sexes combined						
West UP	44.5	7.5	14.4	11.4	41.9	1.8
East UP	40.6	16.1	0.0	0.0	22.0	2.7
NE LP	33.0	5.6	13.6	16.5	34.8	1.4
NW LP	38.6	4.4	33.9	21.4	37.7	1.3
Sag. Bay	35.4	4.3	21.7	17.8	47.0	1.5
SW LP	17.5	4.3	3.3	2.5	41.6	1.5
SC LP	30.4	4.5	29.6	25.5	47.3	1.4
SE LP	26.0	6.0	37.6	29.6	36.8	2.0
UP	43.8	6.8	13.1	9.7	37.6	1.5
NLP	37.2	3.2	22.5	13.0	37.8	0.9
SLP	27.6	2.5	25.1	12.3	45.9	0.8
Statewide	32.4	1.9	22.5	8.2	45.2	0.6

[a]Excluded people that did not hunt during the season and deer taken with DMA permits.
[b]95 confidence limit.

Table 10. Level of satisfaction and dissatisfaction with the number of deer seen and number of antlered deer (bucks) seen among Michigan deer hunters, 2010-2011.

	Satisfied hunters (%)[a]				Dissatisfied hunters (%)[b]			
Criteria and area	2010	2011	95% CL[c]	Difference from 2010 to 2011 (%)	2010	2011	95% CL[c]	Difference from 2010 to 2011 (%)
Number of deer seen								
West UP	29	39	2	10*	58	46	2	-12*
East UP	16	27	3	11*	73	61	4	-12*
NE LP	19	27	1	8*	69	59	2	-10*
NW LP	25	28	1	3*	61	59	1	-2
Sag. Bay	40	37	2	-2	46	48	2	2
SW LP	38	28	1	-10*	47	57	2	10*
SC LP	46	37	1	-9*	38	48	1	10*
SE LP	41	36	2	-5	41	46	2	5*
UP	26	36	2	10*	61	49	2	-12*
NLP	23	28	1	5*	65	59	1	-6*
SLP	43	35	1	-8*	41	49	1	8*
Statewide	33	33	1	-1	53	53	1	0
Number of antlered deer (bucks) seen								
West UP	21	24	2	3	66	61	2	-5*
East UP	9	16	3	7*	80	71	3	-9*
NE LP	13	17	1	4*	73	67	1	-6*
NW LP	16	18	1	2	69	67	1	-1
Sag. Bay	27	25	1	-2	55	58	2	2
SW LP	26	20	1	-6*	56	64	2	8*
SC LP	31	26	1	-5*	50	56	1	7*
SE LP	26	24	2	-2	55	57	2	3
UP	19	23	1	4*	69	63	2	-6*
NLP	15	18	1	3*	70	67	1	-3*
SLP	29	24	1	-5*	53	58	1	6*
Statewide	22	21	1	-1	61	62	1	1

[a]Included hunters who were “very satisfied” or “somewhat satisfied.”
[b]Included hunters who were “somewhat dissatisfied” or “strongly dissatisfied.”
[c]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 11. Level of satisfaction and dissatisfaction with overall deer hunting experience and number of deer harvested among Michigan deer hunters, 2010-2011.

	Satisfied hunters (%)[a]				Dissatisfied hunters (%)[b]			
Criteria and area	2010	2011	95% CL[c]	Difference from 2010 to 2011 (%)	2010	2011	95% CL[c]	Difference from 2010 to 2011 (%)
Overall deer hunting experience								
West UP	43	49	2	6*	37	31	2	-6*
East UP	30	39	4	9*	50	41	4	-8*
NE LP	32	41	2	9*	47	38	2	-9*
NW LP	36	41	1	5*	42	37	1	-4*
Sag. Bay	48	47	2	-1	32	32	1	0
SW LP	47	40	2	-7*	31	38	2	7*
SC LP	52	48	1	-4*	26	30	1	5*
SE LP	48	47	2	-2	27	30	2	3
UP	40	47	2	6*	40	33	2	-7*
NLP	35	41	1	6*	44	37	1	-6*
SLP	50	46	1	-4*	28	33	1	5*
Statewide	43	44	1	1	36	35	1	-1
Number of deer harvested								
West UP	31	34	2	3	35	32	2	-4
East UP	17	22	3	5	51	46	4	-4
NE LP	21	26	1	6*	45	37	2	-7*
NW LP	24	28	1	4*	41	38	1	-4*
Sag. Bay	34	34	2	0	33	33	2	0
SW LP	32	27	1	-5*	34	39	2	5*
SC LP	36	35	1	-1	32	34	1	2
SE LP	30	29	2	-1	33	33	2	0
UP	28	32	2	4*	39	35	2	-4*
NLP	23	27	1	5*	43	37	1	-5*
SLP	34	32	1	-2*	32	35	1	3*
Statewide	29	30	1	1	37	36	1	-1*

[a]Included hunters who were “very satisfied” or “somewhat satisfied.”
[b]Included hunters who were “somewhat dissatisfied” or “strongly dissatisfied.”
[c]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 12. Level of support and opposition for the antler point restrictions in the Upper Peninsula among Michigan deer hunters, 2010-2011.

Preferred hunt area	Hunters supporting (%)[a]				Hunters opposing (%)[b]			
	2010	2011	95% CL[c]	Difference from 2010 to 2011 (%)	2010	2011	95% CL[c]	Difference from 2010 to 2011 (%)
West UP	59	57	2	-2	30	32	2	2
East UP	57	54	4	-4	33	37	4	4
NE LP	46	47	2	1	25	23	1	-2
NW LP	48	50	2	2	20	19	1	-1
Sag. Bay	47	50	2	2	21	19	1	-2
SW LP	51	52	2	1	16	14	1	-1
SC LP	51	53	1	2	17	16	1	-1
SE LP	53	53	2	0	18	18	2	-1
UP	59	56	2	-3	30	33	2	2
NLP	47	48	1	1	22	21	1	-1
SLP	51	52	1	2*	17	16	1	-1*
Statewide	50	51	1	1	21	20	0	-1

[a]Included hunters who “strongly supported” or “supported” antler point restrictions in the UP.
[b]Included hunters who “opposed” or “strongly opposed” antler point restrictions in the UP.
[c]95 confidence limit for the 2011 estimate.
*P<0.005.

Table 13. Level of support and opposition for the antler point restrictions in DMU 487 among Michigan deer hunters, 2010-2011.[a]

Preferred hunt area	Hunters supporting (%)[b]				Hunters opposing (%)[c]			
	2010	2011	95% CL[d]	Difference from 2010 to 2011 (%)	2010	2011	95% CL[d]	Difference from 2010 to 2011 (%)
West UP	36	35	2	-1	18	18	1	0
East UP	38	39	4	1	22	24	3	1
NE LP	42	45	2	3*	31	28	1	-3
NW LP	38	40	2	2	20	19	1	-1
Sag. Bay	39	41	2	2	22	20	1	-2
SW LP	39	41	2	2	14	14	1	0
SC LP	42	43	2	2	16	16	1	0
SE LP	45	47	2	2	19	18	2	-1
UP	36	36	2	-1	19	19	1	1
NLP	40	42	1	3*	25	23	1	-2
SLP	41	43	1	2*	17	16	1	-1
Statewide	40	42	1	2*	20	19	0	-1

[a]New antler point restrictions were adopted in 2010 for the taking of antlered deer (bucks) in DMU 487. Under this new regulation, the regular buck tag of a combination deer license could only be used to tag a buck with at least three antler points on one side. The restricted tag could only be used on a buck with at least four points on one side. Hunters who chose not to purchase the combination tag were restricted to one buck (with no additional point restrictions) in the UP, all seasons combined, even if they purchased an archery and firearms license. In addition, hunters in DMU 487 could use a firearm license or one or both combination license tags for antlerless deer during the firearm or muzzleloader seasons. DMU 487 included Alcona, Alpena, Iosco, Montmorency, Oscoda, and Presque Isle counties.
[b]Group supporting restrictions included hunters reporting they “strongly supported” or “supported.”
[c]Group opposing restrictions included hunters reporting they “opposed” or “strongly opposed.”
[d]95% confidence limit. Excluded people that did not hunt.
*P<0.005.

Table 14. Estimated proportion and number of archers that used a crossbow during 2011 archery season in Michigan, summarized by region.

	Archers using a crossbow during archery season			
Region	%	95% CL	Total	95% CL
UP	36.6	3.0	9,250	942
NLP	40.9	1.5	40,310	1,919
SLP	35.3	1.1	59,236	2,257
Unknown[a]	32.3	2.7	9,777	972
Statewide	36.8	0.8	118,573	3,078

[a]Region could not be determined when hunter did not report where they hunted or when hunter reported hunting in more than one region.

Table 15. Estimated hunter success of archers hunting with a crossbow during 2011 archery season in Michigan, summarized by type of deer and region.

	Antlerless		Antlered Bucks		Sexes Combined	
Region	%[a]	95% CL	%[a]	95% CL	%[a]	95% CL
UP	27.3	4.6	18.0	4.0	42.3	5.1
NLP	19.7	2.0	21.6	2.0	37.1	2.4
SLP	19.2	1.6	25.1	1.8	39.5	2.0
Unknown[b]	23.2	4.2	20.0	4.0	37.7	4.9
Statewide	20.3	1.2	22.9	1.2	38.8	1.4

[a]Percentage of crossbow hunters harvesting at least one deer.
[b]Region could not be determined when hunter did not report where they hunted or when hunter reported hunting in more than one region.

Table 16. Estimated number of deer harvested by archers with a crossbow during 2011 archery season in Michigan, summarized by type of deer and region.

	Antlerless		Antlered Bucks		Sexes Combined	
Region	No.	95% CL	No.	95% CL	No.	95% CL
UP	2,666	542	1,610	389	4,276	704
NLP	8,502	984	8,840	953	17,342	1,492
SLP	13,145	1,305	15,526	1,281	28,670	1,995
Unknown[a]	2,587	572	2,027	465	4,613	809
Statewide	26,899	1,798	28,003	1,691	54,902	2,668

[a]Region could not be determined when hunter did not report where they hunted or when hunter reported hunting in more than one region.

Appendix A. Antlerless deer hunting license quotas, number of antlerless licenses sold, and number of hunters purchasing an antlerless license in Michigan during 2011, summarized by Deer Management Unit and license type (public and private lands).

		Public land			Private land		
DMU[a]	DMU Name	License quota	Licenses sold[b]	License buyers[c]	License quota	Licenses sold[b,c]	License buyers[c]
001	Alcona County[d]	5,000	2,786	2,328	0	0	0
003	Allegan County[d]	3,000	2,509	2,089	0	0	0
004	Alpena County[d]	3,000	582	498	0	0	0
005	Antrim County	0	0	0	5,000	4,270	3,033
006	Arenac County	500	407	405	7,600	4,916	3,777
007	Big Bay Unit	0	0	0	0	0	0
008	Barry County[d]	1,800	1,480	1,280	0	0	0
009	Bay County[d]	200	161	146	0	0	0
010	Benzie County	0	0	0	300	344	335
011	Berrien County[d]	200	161	144	0	3	3
012	Branch County[d]	100	73	66	0	0	0
013	Calhoun County[d]	100	77	71	0	0	0
014	Cass County[d]	400	330	291	0	0	0
015	Charlevoix County	0	0	0	3,400	2,937	2,058
016	Cheboygan County	0	0	0	0	0	0
017	Sault Ste. Marie Unit	0	0	0	0	0	0
018	Clare County	900	764	761	9,200	7,894	5,927
019	Clinton County[d]	1,200	1,004	766	0	0	0
020	Crawford County	600	635	632	700	602	600
021	Manistique Unit	0	0	0	0	0	0
022	Iron Mountain Unit	1,000	861	859	4,000	3,471	2,628
023	Eaton County[d]	100	76	71	0	0	0
024	Emmet County	0	0	0	1,500	1,290	1,048
025	Genesee County[d]	0	0	0	0	0	0
026	Gladwin County	1,200	1,028	1,021	8,900	7,468	5,394
027	Watersmeet Unit	0	0	0	0	0	0
028	Grand Traverse County	0	0	0	300	337	336
029	Gratiot County[d]	1,600	1,300	1,014	0	0	0
030	Hillsdale County[d]	400	325	284	0	0	0
031	Nisula Unit	0	0	0	0	0	0
032	Huron County[d]	1,500	1,208	1,031	0	0	0
033	Ingham County[d]	600	482	383	0	0	0
034	Ionia County[d]	1,200	1,008	777	0	0	0

[a]See Figure 2 for the locations of DMUs.
[b]Number of licenses sold could exceed the quota because junior licenses do not count towards the quota.
[c]Number of license buyers does not add up to statewide total because hunters could purchase licenses in more than one DMU.
[d]Also part of either DMU 486 or DMU 487.
[e]Special deer hunts on public land. Licenses for these DMUs were available on a local basis.

Appendix A (continued). Antlerless deer hunting license quotas, number of antlerless licenses sold, and number of hunters purchasing an antlerless license in Michigan during 2011, summarized by Deer Management Unit and license type (public and private lands).

		Public land			Private land		
DMU[a]	DMU Name	License quota	Licenses sold[b]	License buyers[c]	License quota	Licenses sold[b,c]	License buyers[c]
035	Iosco County[d]	1,000	802	788	0	0	0
036	Amasa/Michigamme Unit	0	0	0	0	0	0
037	Isabella County[d]	100	77	72	0	0	0
038	Jackson County[d]	1,600	1,244	1,079	0	0	0
039	Kalamazoo County[d]	900	730	622	0	0	0
040	Kalkaska County	0	0	0	0	0	0
041	Kent County[d]	1,100	888	771	0	0	0
042	Keweenaw Unit	0	0	0	0	0	0
043	Lake County	0	0	0	3,000	2,593	2,578
044	Lapeer County[d]	2,000	1,661	1,473	0	0	0
045	Leelanau County	0	0	0	200	256	255
046	Lenawee County[d]	400	330	277	0	0	0
047	Livingston County[d]	1,400	1,137	991	0	0	0
048	Newberry Unit	0	0	0	0	0	0
050	Macomb County	200	141	131	4,000	2,642	2,157
051	Manistee County	0	0	0	3,000	2,711	2,693
053	Mason County	0	0	0	5,000	4,570	3,753
054	Mecosta County[d]	200	165	164	0	0	0
055	Menominee Unit	2,000	1,758	1,274	9,000	6,141	4,535
056	Midland County[d]	1,500	1,257	1,146	0	0	0
057	Missaukee County	0	0	0	3,200	2,897	2,488
058	Monroe County	200	155	154	1,800	1,634	1,202
059	Montcalm County[d]	1,500	1,253	1,061	0	0	0
060	Montmorency County[d]	5,000	3,791	3,142	0	0	0
061	Muskegon County[d]	800	652	647	0	0	0
063	Oakland County[d]	2,500	2,046	1,764	0	0	0
064	Oceana County	500	504	500	4,500	4,070	3,188
065	Ogemaw County	1,000	884	882	7,000	5,991	4,510
066	Ontonagon County	0	0	0	0	0	0
067	Osceola County	0	0	0	5,000	4,486	3,744
068	Oscoda County[d]	5,000	4,253	3,487	0	0	0
069	Otsego County	0	0	0	0	0	0

[a]See Figure 2 for the locations of DMUs.
[b]Number of licenses sold could exceed the quota because junior licenses do not count towards the quota.
[c]Number of license buyers does not add up to statewide total because hunters could purchase licenses in more than one DMU.
[d]Also part of either DMU 486 or DMU 487.
[e]Special deer hunts on public land. Licenses for these DMUs were available on a local basis.

Appendix A (continued). Antlerless deer hunting license quotas, number of antlerless licenses sold, and number of hunters purchasing an antlerless license in Michigan during 2011, summarized by Deer Management Unit and license type (public and private lands).

		Public land			Private land		
DMU[a]	DMU Name	License quota	Licenses sold[b]	License buyers[c]	License quota	Licenses sold[b,c]	License buyers[c]
070	Ottawa County[d]	400	326	285	0	0	0
071	Presque Isle County[d]	4,000	1,937	1,544	0	0	0
072	Roscommon County	0	0	0	0	0	0
073	Saginaw County[d]	200	190	185	0	0	0
074	St. Clair County	700	524	487	9,500	7,464	6,047
075	St. Joseph County[d]	300	251	206	0	0	0
076	Sanilac County[d]	2,000	1,506	1,140	0	0	0
078	Shiawassee County[d]	200	155	145	0	0	0
079	Tuscola County[d]	2,700	2,206	1,812	0	0	0
080	Van Buren County[d]	200	165	145	0	0	0
081	Washtenaw County[d]	1,500	1,169	999	0	0	0
082	Wayne County	100	68	55	1,200	848	714
083	Wexford County	0	0	0	3,400	2,919	2,347
115	Beaver Island	200	116	103	300	223	169
117	Drummond Island	0	0	0	0	0	0
121	Bay De Noc	0	0	0	0	0	0
122	Norway Unit	200	173	163	2,500	1,095	863
127	Ironwood Unit	0	0	0	0	0	0
131	Twin Lakes Unit	0	0	0	0	0	0
135	Tawas Unit[d]	200	175	144	0	0	0
145	North Manitou Island[e]	0	0	0	0	0	0
149	Round/Bois Blanc Island	0	0	0	0	0	0
152	Gwinn Unit	0	0	0	500	408	353
155	Gladstone Unit	400	322	311	3,000	1,977	1,587
162	South Newaygo County[d]	500	457	457	0	0	0
173	Shiawassee Flats	0	0	0	0	0	0
174	St. Clair Flats[d]	400	0	0	300	123	102
245	South Fox Island[e]	0	0	0	0	0	0
249	Trout Lake Unit	0	0	0	0	0	0
252	Rock Unit	0	0	0	500	435	379
255	LaBranche Unit	400	350	348	1,300	1,131	864
262	North Newaygo County	0	0	0	2,500	2,287	2,271
273	Shiawassee Unit[d,e]	1,400	781	752	0	0	0
349	Engadine Unit	0	0	0	0	0	0
452	Core Area[d]	3,000	1,477	1,255	0	0	0
486	Southern Multi-County	0	0	0	500,000	283,201	203,540
487	Northern Multi-County	0	0	0	72,100	25,702	19,979
NA	Deer Management Assistance Permits	NA	NA	NA	NA	8,219	662
NA	Managed Deer Hunt Permits[e]	NA	343	304	NA	NA	NA

[a]See Figure 2 for the locations of DMUs.
[b]Number of licenses sold could exceed the quota because junior licenses do not count towards the quota.
[c]Number of license buyers does not add up to statewide total because hunters could purchase licenses in more than one DMU.
[d]Also part of either DMU 486 or DMU 487.
[e]Special deer hunts on public land. Licenses for these DMUs were available on a local basis.

Appendix B. Estimated number of deer hunters, hunting effort, and deer harvested in Michigan during 2011, summarized by Deer Management Unit.

					Deer harvested (all seasons combined)[a]					
	Hunters[b,c]		Hunting effort (days)[b]		Antlerless		Antlered bucks		Sexes combined	
DMU[d]	No.	95% CL[e]	No.	95% CL	No.	95% CL	No.	95% CL	No.	95% CL
001	7,952	873	67,417	10,868	1,849	484	1,773	425	3,622	690
003	14,132	1,160	211,426	25,321	3,409	733	2,906	557	6,315	1,054
004	5,113	702	51,547	9,880	1,084	340	1,306	361	2,390	540
005	7,500	849	69,015	11,767	1,500	486	1,635	387	3,135	691
006	7,620	850	89,226	15,290	1,834	476	2,055	466	3,889	735
007	7,507	853	66,977	10,043	472	207	1,954	444	2,426	501
008	11,952	1,068	172,682	21,879	3,593	733	3,710	670	7,303	1,119
009	4,799	679	65,048	13,272	1,336	418	1,380	367	2,716	633
010	4,839	684	50,333	10,544	617	257	1,306	377	1,923	495
011	5,783	749	88,944	15,954	1,034	384	1,473	427	2,507	652
012	6,039	763	82,152	14,028	2,796	670	1,832	485	4,628	946
013	12,341	1,083	192,989	24,027	5,459	1,007	4,387	714	9,846	1,427
014	6,577	795	104,771	17,972	2,007	610	1,672	452	3,679	902
015	4,852	681	61,708	13,244	1,311	416	1,256	351	2,567	615
016	6,539	794	72,416	12,715	322	166	2,069	466	2,391	520
017	4,482	661	51,360	10,438	200	136	949	294	1,149	332
018	15,058	1,192	173,144	20,206	4,195	720	4,268	675	8,463	1,107
019	10,748	1,006	165,305	22,193	4,063	895	3,838	690	7,901	1,295
020	8,632	911	80,309	12,319	1,018	315	1,286	340	2,304	502
021	7,783	869	87,626	13,866	467	219	1,643	422	2,110	491
022	10,337	992	99,717	13,472	2,351	576	3,570	621	5,921	936
023	10,189	987	145,911	20,239	3,441	825	3,029	573	6,470	1,151
024	4,990	692	51,354	10,103	667	248	1,381	366	2,048	494
025	9,541	947	135,415	19,315	2,163	500	2,188	478	4,351	809
026	14,910	1,180	167,711	19,073	4,472	807	3,538	601	8,010	1,133
027	2,673	513	26,017	6,773	167	125	853	289	1,020	323
028	6,145	756	74,260	13,414	649	256	1,724	400	2,373	509
029	8,870	915	119,191	18,369	3,571	801	3,685	656	7,256	1,197
030	9,928	973	132,104	17,846	3,979	776	3,019	571	6,998	1,091
031	4,211	640	34,219	6,959	341	200	1,485	380	1,826	436
032	12,092	1,062	147,631	18,562	4,752	891	4,297	655	9,049	1,289
033	8,812	919	120,102	17,843	3,761	818	2,524	561	6,285	1,149
034	12,462	1,082	171,858	21,111	5,422	1,046	4,434	743	9,856	1,491

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]Column totals for hunting effort and harvest may not equal regional and statewide totals because of rounding errors.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one DMU.
[d]See Figure 2 for the locations of DMUs.
[e]95 confidence limit.

Appendix B (continued). Estimated number of deer hunters, hunting effort, and deer harvested in Michigan during 2011, summarized by Deer Management Unit.

					Deer harvested (all seasons combined)[a]					
	Hunters[b,c]		Hunting effort (days)[b]		Antlerless		Antlered bucks		Sexes combined	
DMU[d]	No.	95% CL[e]	No.	95% CL	No.	95% CL	No.	95% CL	No.	95% CL
035	9,020	930	99,676	15,048	2,203	538	2,087	472	4,290	796
036	3,513	586	25,537	5,250	60	72	1,226	358	1,286	372
037	11,858	1,054	146,125	18,407	5,180	1,035	4,263	680	9,443	1,383
038	15,903	1,224	233,208	25,729	5,348	865	4,078	667	9,426	1,281
039	8,604	907	121,830	17,633	2,413	568	2,403	528	4,816	894
040	7,390	847	65,274	10,292	460	229	1,296	349	1,756	430
041	17,239	1,263	229,854	23,634	4,276	729	4,223	670	8,499	1,108
042	2,550	495	26,527	6,305	131	106	867	299	998	317
043	14,833	1,188	151,822	17,655	1,829	428	2,262	489	4,091	718
044	15,466	1,201	217,546	24,477	6,060	1,040	4,161	686	10,221	1,416
045	3,677	591	48,191	11,641	379	176	979	343	1,358	412
046	7,813	861	110,794	17,144	2,213	560	2,315	515	4,528	866
047	13,463	1,127	196,841	23,916	3,255	679	3,606	641	6,861	1,063
048	5,331	721	41,197	7,421	176	142	834	278	1,010	321
050	4,469	650	51,834	9,982	946	327	1,265	370	2,211	562
051	9,529	954	105,572	15,261	2,121	505	2,444	491	4,565	781
053	12,160	1,075	136,460	17,459	3,265	610	3,379	593	6,644	985
054	13,730	1,135	168,804	20,277	5,040	884	4,499	706	9,539	1,281
055	12,597	1,093	142,517	16,940	4,344	818	4,727	686	9,071	1,200
056	11,145	1,028	151,037	20,059	3,534	707	3,291	604	6,825	1,073
057	9,765	961	95,093	13,317	1,635	428	2,787	537	4,422	767
058	4,231	635	50,984	10,971	301	158	616	265	917	347
059	16,058	1,221	221,049	24,079	7,921	1,310	5,946	800	13,867	1,744
060	8,145	889	69,082	11,193	1,656	478	1,197	360	2,853	643
061	9,913	971	152,194	20,945	2,275	600	1,589	418	3,864	799
063	11,599	1,053	163,322	22,111	3,377	758	2,138	487	5,515	1,014
064	10,294	988	146,177	19,865	2,789	600	2,896	536	5,685	929
065	14,555	1,174	151,880	17,817	3,518	693	3,381	602	6,899	1,017
066	4,741	681	41,112	7,987	309	198	1,894	422	2,203	487
067	11,918	1,057	122,422	15,842	2,973	607	3,785	633	6,758	963
068	9,444	955	71,495	10,255	1,836	458	1,453	378	3,289	635
069	5,390	720	50,127	9,526	139	99	987	318	1,126	335

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]Column totals for hunting effort and harvest may not equal regional and statewide totals because of rounding errors.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one DMU.
[d]See Figure 2 for the locations of DMUs.
[e]95 confidence limit.

Appendix B (continued). Estimated number of deer hunters, hunting effort, and deer harvested in Michigan during 2011, summarized by Deer Management Unit.

					Deer harvested (all seasons combined)[a]					
	Hunters[b,c]		Hunting effort (days)[b]		Antlerless		Antlered bucks		Sexes combined	
DMU[d]	No.	95% CL[e]	No.	95% CL	No.	95% CL	No.	95% CL	No.	95% CL
070	9,125	924	132,859	18,705	2,622	628	1,996	447	4,618	846
071	8,748	919	86,870	12,752	2,155	579	2,450	502	4,605	845
072	11,311	1,040	121,282	17,396	895	292	2,694	532	3,589	659
073	9,649	951	152,974	20,612	3,328	719	3,040	597	6,368	1,064
074	11,707	1,049	175,128	22,801	2,600	626	2,937	569	5,537	951
075	6,027	763	104,428	18,137	3,060	798	2,076	504	5,136	1,081
076	15,425	1,199	181,307	20,398	6,456	1,039	5,047	741	11,503	1,495
078	9,516	952	141,957	20,565	3,488	788	3,762	663	7,250	1,197
079	13,970	1,150	180,844	20,961	4,354	850	4,496	690	8,850	1,222
080	8,426	899	138,161	19,916	2,506	622	1,841	439	4,347	858
081	10,893	1,018	148,484	20,017	3,665	758	2,464	503	6,129	1,069
082	2,006	441	29,429	9,832	382	214	415	197	797	324
083	10,947	1,017	106,522	15,063	1,685	438	2,652	544	4,337	766
115	414	200	3,329	1,879	204	136	108	102	312	211
117	1,102	325	8,036	2,948	83	88	141	114	224	144
121	2,531	501	26,114	7,109	219	144	950	323	1,169	361
122	2,996	541	38,627	9,801	861	340	742	280	1,603	480
127	2,391	482	32,375	8,940	224	139	624	240	848	286
131	2,260	464	23,527	6,338	127	97	825	292	952	316
135	795	276	9,895	5,277	54	72	138	113	192	134
145	55	75	382	512	0	0	0	0	0	0
149	331	182	3,126	2,110	28	50	137	113	165	124
152	4,332	648	42,987	8,782	468	230	1,371	365	1,839	437
155	4,892	690	52,421	10,065	857	331	1,247	359	2,104	494
162	12,048	1,062	146,257	18,714	2,581	558	2,330	495	4,911	806
173	1,833	415	20,893	7,781	279	161	399	224	678	305
174	84	92	946	1,144	0	0	0	0	0	0
245	0	0	0	0	0	0	0	0	0	0
249	5,106	706	42,360	7,827	182	121	872	281	1,054	323
252	2,223	462	23,761	6,986	302	184	496	223	798	289
255	2,794	520	30,973	7,929	537	240	1,174	352	1,711	489
262	6,462	785	74,858	11,833	949	305	1,221	376	2,170	544
273	112	106	827	1,089	56	72	1	0	57	72
349	1,353	361	16,207	5,514	93	91	191	134	284	162
452	10,826	1,028	100,758	13,591	2,388	632	2,659	526	5,047	903

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,293 deer were taken with these permits.
[b]Column totals for hunting effort and harvest may not equal regional and statewide totals because of rounding errors.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one DMU.
[d]See Figure 2 for the locations of DMUs.
[e]95 confidence limit.