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MICHIGAN DEER HARVEST SURVEY REPORT 2010 SEASONS

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ABSTRACT

A survey of deer hunters was conducted following the 2010 hunting seasons to estimate hunter participation, harvest, and hunting effort. In 2010, an estimated 656,500 hunters spent 9.6 million days afield. Statewide, the number of people hunting deer decreased 4%, and their hunting effort decreased 6% between 2009 and 2010. Hunters harvested nearly 418,000 deer, a decrease of about 6% from the number taken in 2009. Statewide, 44% of hunters harvested a deer in 2010, while hunter success was 43% in 2009. About 23% of the hunters took an antlerless deer and 29% took an antlered buck in 2010. 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 2010. However, satisfaction levels increased statewide between 2009 and 2010. About 90,600 hunters used a crossbow during the 2010 archery season, and they harvested about 38,000 deer with the crossbow. About 50% of deer hunters statewide supported antler point restrictions on buck harvest in the Upper Peninsula (UP), and 59% of the hunters that preferred to hunt in the UP supported these restrictions in 2010. About 40% of deer hunters statewide supported antler point restrictions on buck harvest in Deer Management Unit (DMU) 487, and 42% of the hunters that preferred to hunt in the northeast Lower Peninsula (LP) supported these restrictions in 2010.

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 (hereafter referred to as estimates) are the primary objectives of these surveys. Estimates

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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 2010 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 2010, 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).

New 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, 121, 127, 131, 149, 152, 249, 252, and 349) in the UP and three DMUs (016, 040, and 069) in the LP. 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).

A limited number of antlerless deer hunting licenses were available for many DMUs for private and public land hunting (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 041, 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 license each day, except in for private land antlerless licenses for DMUs 041, 486, and 487 and public land antlerless licenses for DMUs 041 and 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, 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 new youth early antlerless firearm hunting season in DMU 041 and DMU 486 was created in 2010. This season occurred September 21-24, and was open on all lands within these DMUs with the appropriate public or private-land antlerless license or DMA permit.

The youth firearm season was held during September 25-26 on public and private lands statewide. Youths 10-16 years of age 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 archery-only equipment. Youths 12 and 13 years of age could use archery equipment or firearms but firearm hunting was restricted to only private land. Youth hunters could take no more than one deer during the season.

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, 2010, through January 1, 2011). 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 14-17, 2010. 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, and legally blind

people could participate in this season. A veteran with 100% disability also could take a deer during the youth firearm season (September 25-26).

The statewide regular firearm season occurred November 15-30. The muzzleloader season was held December 3-12 in the UP, December 10-19 in the northern LP, and December 3-19 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 16-20. 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). Three additional counties (Antrim, Charlevoix, and Oceana) were open to hunting during the early antlerless firearm season than in 2009.

The late antlerless firearm season occurred from December 20, 2010, through January 1, 2011. 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 late antlerless season was expanded from 44 counties in 2009 to 50 counties in 2010. Six additional counties (Antrim, Charlevoix, Macomb, Monroe, St. Clair, and Wayne) were open to hunting during the late antlerless firearm season than in 2009. All counties open during the early antlerless firearm season were also open for the late antlerless firearm season.

The minimum age requirement for using a crossbow to hunt deer was lowered from 12 to 10 years of age statewide in 2010. In addition, 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 2010 deer hunting seasons, a questionnaire was sent to 51,348 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 = 421,920). The second stratum consisted of people eligible to hunt during archery, regular firearm, muzzleloader, early antlerless, and late antlerless seasons (N = 233,751). The third stratum consisted of people eligible to hunt during archery, regular firearm, muzzleloader, late antlerless, and youth seasons (N = 37,971). The fourth stratum consisted of 1,184 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 2,703 people that had voluntarily reported information about their hunting activity via the Internet before the random sample was selected. The random sample consisted of 27,988 people from the first stratum, 15,305 from the second stratum, 6,871 from the third stratum, and 1,184 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 was 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 2010, and two follow-up questionnaires were mailed to nonrespondents. To increase the number of questionnaires returned, respondents that returned their questionnaire promptly were eligible to win a prize of a firearm or bow. Although 51,348 people were sent the questionnaire, 1,249 surveys were undeliverable resulting in an adjusted sample size of 50,099. Questionnaires were returned by 28,345 of people receiving the questionnaire (57% 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 2010 estimates to make them comparable to the 2009 estimates (74% response rate). Estimates of harvest, hunting effort, and hunter numbers were reduced by 4.4, 3.3, and 1.4%, respectively, to make estimates comparable to 2009. These reductions reflected the average decline noted between estimates calculated when 57 and 74% of the responses were used in 2000 and 2001 surveys.

RESULTS

In 2010, 697,529 people purchased a license to hunt deer in Michigan. The number of people buying a license in 2010 declined by nearly 4% from 2009 (725,190 people purchased a license in 2009). Most of the people buying a license were male (91%), and the average age of license buyers was 43 years (Figure 3). Nearly 9% (63,911) of the license buyers were younger than 17 years old. About 1% (6,686) of the license buyers were younger than 12 years old, which represented 11% of the hunters younger than 17 years old.

The number of 2010 deer harvest tags sold for all license types combined decreased nearly 4% from 2009 (Table 2). License buyers were issued an average of 2.2 harvest tags. About 88% of the license buyers obtained three or fewer harvest tags, and greater than 98% had five or fewer harvest tags (Figure 4). Hunters most frequently obtained antlerless and combination harvest tags (Figure 5). About 46% of the license buyers purchased at least one antlerless license (322,618 people), and greater than 98% of antlerless license buyers purchased three or fewer antlerless licenses, public and private licenses combined (Figure 6).

The antlerless license quota on private lands increased 7% from 659,800 in 2009 to 704,400 licenses in 2010 (Appendix A). The quota for public land antlerless licenses increased 6% from 68,300 to 72,100 between 2009 and 2010. Although the 2010 antlerless quota

increased 7% from 2009, the number of antlerless licenses sold declined 6% between 2009 and 2010 (Table 2).

About 94.1 ± 0.2% (656,501 hunters) of the people buying a license in 2010 actually spent time hunting deer (Table 3). Most hunters (593,074) pursued deer during the regular firearm season (Figure 7). Statewide, the number of people hunting deer during all seasons combined decreased 4% from 2009.

Significantly fewer people hunted during the youth (-15%), late antlerless (-11%), early antlerless (-9%), muzzleloader (-9%), and regular firearm (-6%) seasons (Table 3). The number of people hunting in the archery and disabled seasons were nearly unchanged between 2009 and 2010. The creation of the early youth antlerless season in 2010 probably reduced participation during the regular youth season. Participation in the early and late antlerless seasons declined despite addition area opened for hunting and an increased quota of antlerless licenses. Hunting regulation changes allowing increased use of crossbows during the archery season probably helped maintain archer numbers between 2009 and 2010, but may have contributed to reduced participation in other seasons in 2010.

About 45% of the days hunters spent pursuing deer throughout the state occurred in the archery season (Figure 9). About 41% 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 10, Table 4). For all seasons combined, hunting effort statewide decreased 6% between 2009 and 2010 (Table 3). Hunting effort decreased significantly during the youth (-17%), early antlerless (-13%), late antlerless (-10%), muzzleloader (-11%) and regular firearm (-9%) seasons. Hunting effort was unchanged during the archery and disabled seasons between 2009 and 2010.

Nearly 418,000 deer were harvested in 2010, a decrease of about 6% from the number taken in 2009 (Figure 11, Tables 5-6). Statewide, the harvest of antlered deer in 2010 was nearly unchanged from 2009, but harvest of antlerless deer decreased 10% (Table 5). Between 2009 and 2010, deer harvest increased significantly during the late antlerless (30%) and archery (11%) seasons. While harvest decreased significantly in the regular firearm season by 20%. Deer harvest during the regular firearm season may have been reduced partly because the season opened on a Monday, rather than a weekend opener in 2009. Deer harvest in the muzzleloader, early antlerless, youth, and disabled seasons did not change significantly between 2009 and 2010.

About 54% of the deer harvested (sexes combined) in 2010 were taken during the regular firearm season (Figure 13). Nearly 46% of the antlerless deer and 61% of the antlered bucks were harvested in the regular firearm season. Hunters took 28% of the harvested deer (sexes combined) during archery season. During the archery season, hunters took 27% of the antlerless deer and 31% of the antlered bucks harvested. Few antlered bucks (6%) 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 89% of the animals harvested (sexes combined) in 2010 were taken on private lands (Table 7). Statewide, most of the antlerless deer (91%) and antlered bucks (87%) were harvested on private lands. Some noteworthy changes between 2009 and 2010 included increased harvest of antlered bucks on both public and private lands in the UP, decreased take of antlered bucks on private land in the northern LP, and decreased take of antlerless deer on private land in the LP.

Statewide, 44% of the deer hunters harvested at least one deer (all deer seasons and sexes combined) in 2010 (Figure 14, Table 8), compared to 43% success in 2009. About 23% of the hunters took an antlerless deer, and 29% took an antlered buck in 2010. About 15% of deer hunters harvested two or more deer.

Hunters were most successful in taking a deer during the youth (33% successful), regular firearm (32%), and archery (32%) seasons (Figure 15, Table 9). Nearly 22% of the hunters took an antlered buck and 14% harvested an antlerless deer during the regular firearm season. Hunter success was lowest in the muzzleloader (19%), disabled hunter (19%), and early youth antlerless (16%) 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 2010 (Tables 10-11). Satisfaction increased statewide for all measures between 2009 and 2010. Highest levels of satisfaction were reported among hunters in the southern LP.

Statewide, about 50% of hunters supported the antler point restrictions on buck harvest implemented for the UP (Table 12), and about 59% of the hunters that preferred to hunt in the UP supported the antler point restrictions. Statewide support for the antler point restrictions increased significantly between 2009 and 2010.

Statewide, about 40% of hunters supported the antler point restrictions on buck harvest implemented for the DMU 487 (Table 13), and about 42% of the hunters that preferred to hunt in the northeast LP supported the antler point restrictions.

About 90,615 hunters used a crossbow during the archery season, and they harvested about 38,310 deer with the crossbow (Tables 14-16). About 36% of these archers using a crossbow 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 58 ± 2% of the archers using a crossbow during the archery season had obtained the required crossbow stamp.

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LITERATURE CITED

Albert, D. A. 1995. Regional landscape ecosystems of Michigan, Minnesota, and Wisconsin: a working map and classification. General Technical Report NC-178. U.S. Department of Agriculture, Forest Service, North Central Forest Experimental Station, St. Paul, Minnesota, USA.

Cochran, W. G. 1977. Sampling techniques. John Wiley & Sons, New York, USA.

Payton, M. E., M. H. Greenstone, and N. Schenker. 2003. Overlapping confidence intervals or standard error intervals: what do they mean in terms of statistical significance? Journal of Insect Science 3:34.

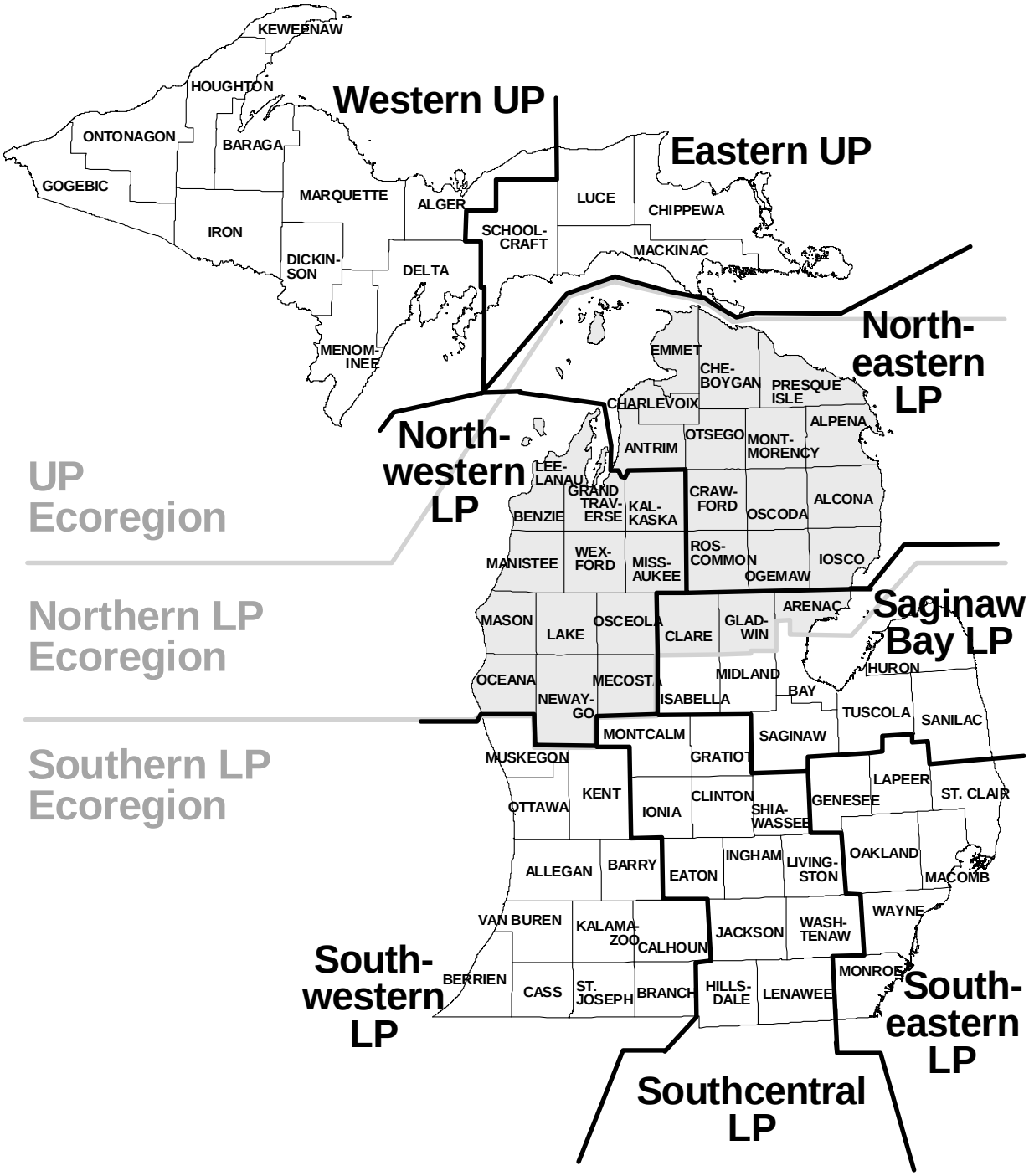

Figure 1. Areas used to summarize deer harvest in Michigan for the 2010 hunting seasons.

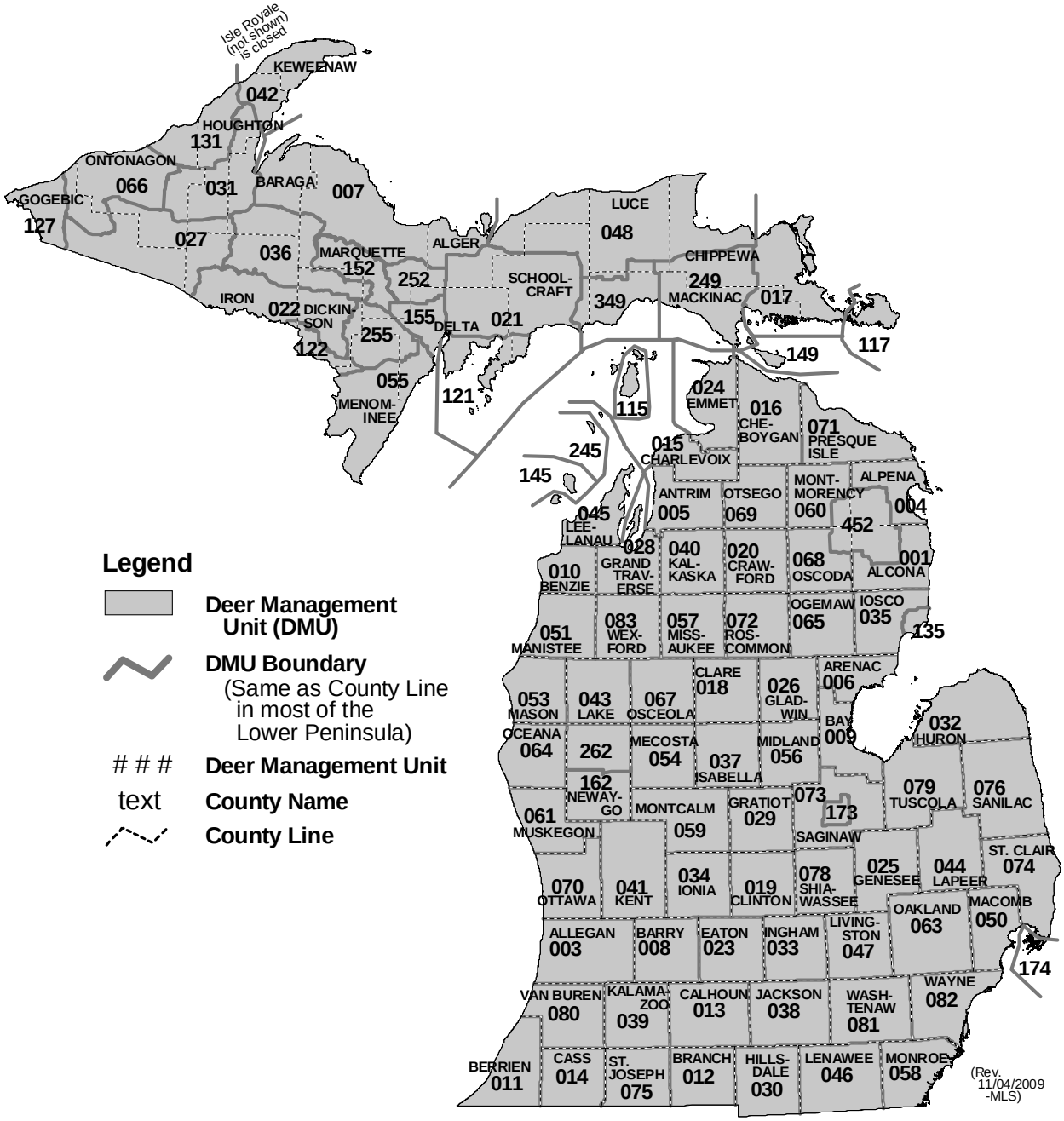

Figure 2. Deer Management Units in Michigan for the 2010 hunting seasons.

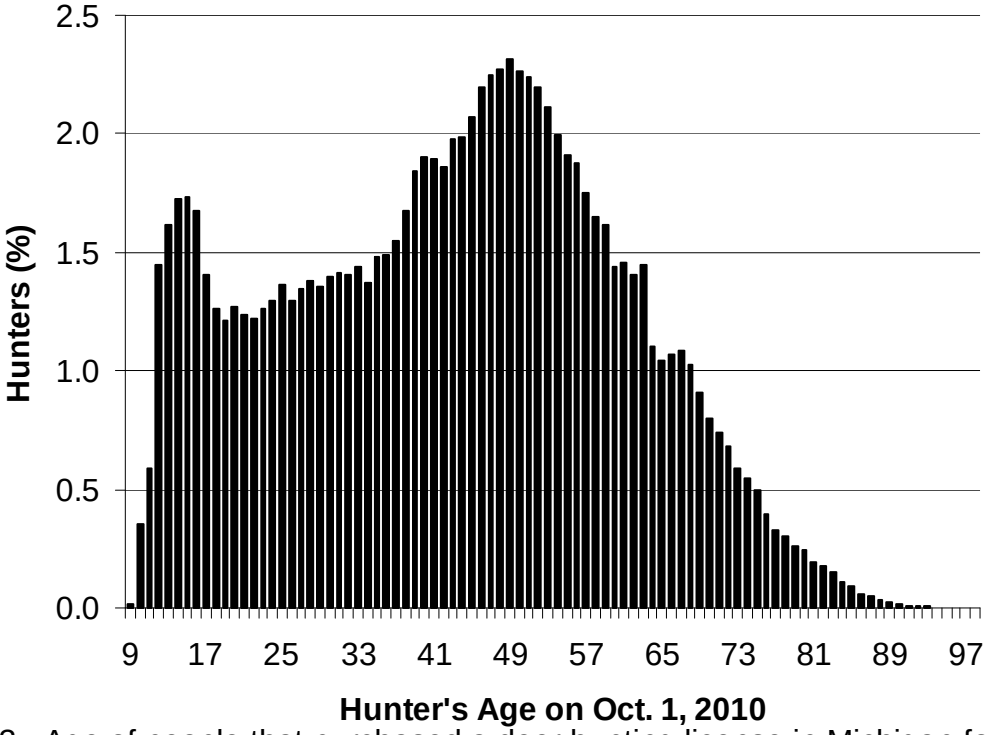

Figure 3. Age of people that purchased a deer hunting license in Michigan for the 2010 hunting seasons ($\bar{x}$ = 43 years).

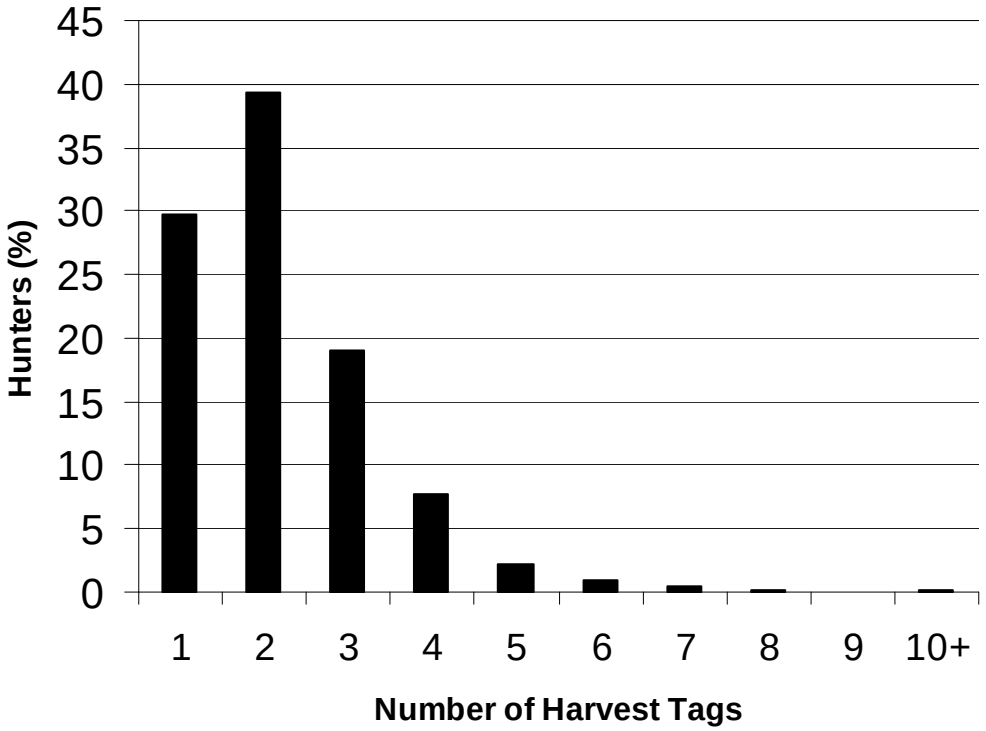

Figure 4. Number of harvest tags (all license and tag types) issued per person for hunting deer in Michigan during the 2010 hunting seasons ($\bar{x}$ = 2.2 tags). Licenses were purchased by 697,529 people.

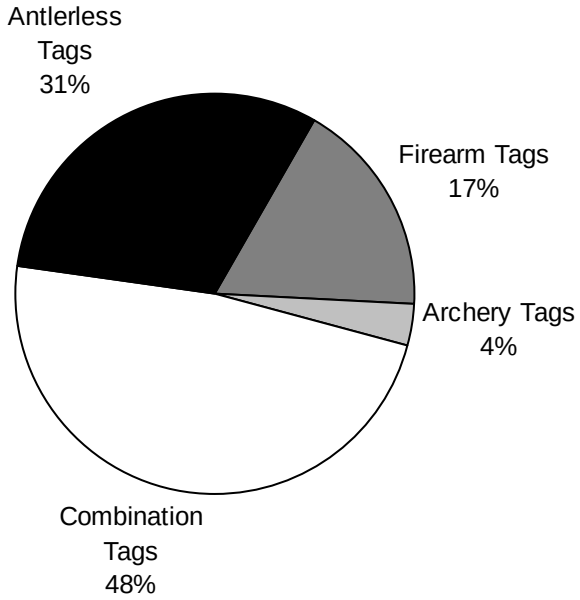

Figure 5. Types of harvest tags issued for deer hunting in Michigan during the 2010 hunting seasons.

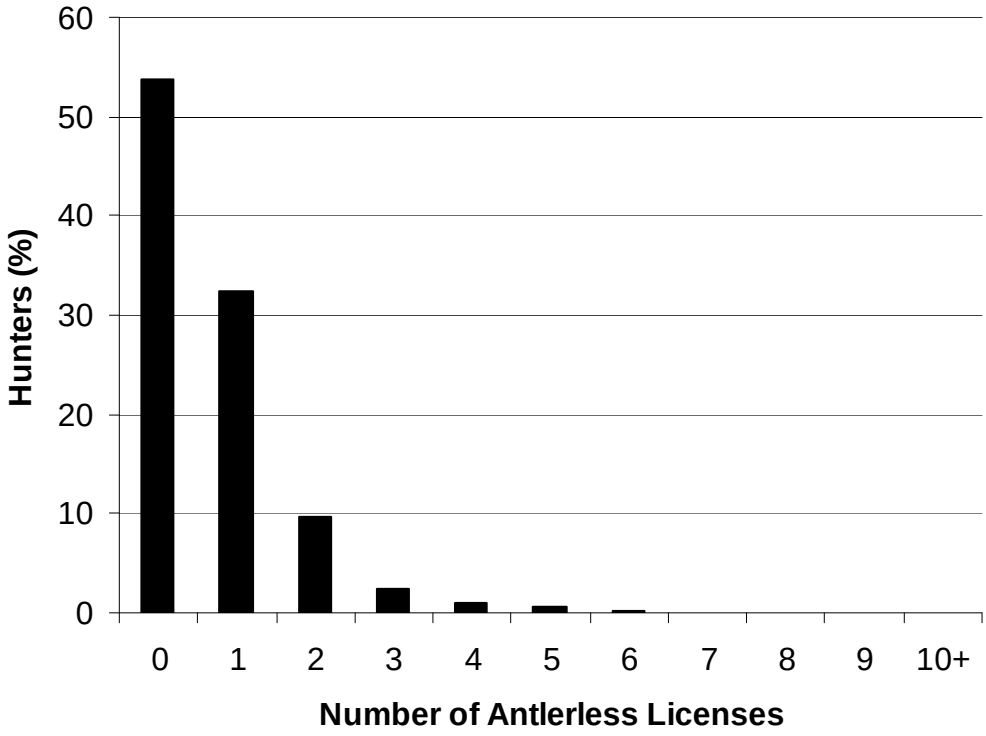

Figure 6. Percentage of deer hunting license buyers (all license types) purchasing an antlerless license in Michigan, 2010. Antlerless licenses were purchased by 322,618 of 697,529 people (46%) buying deer hunting licenses.

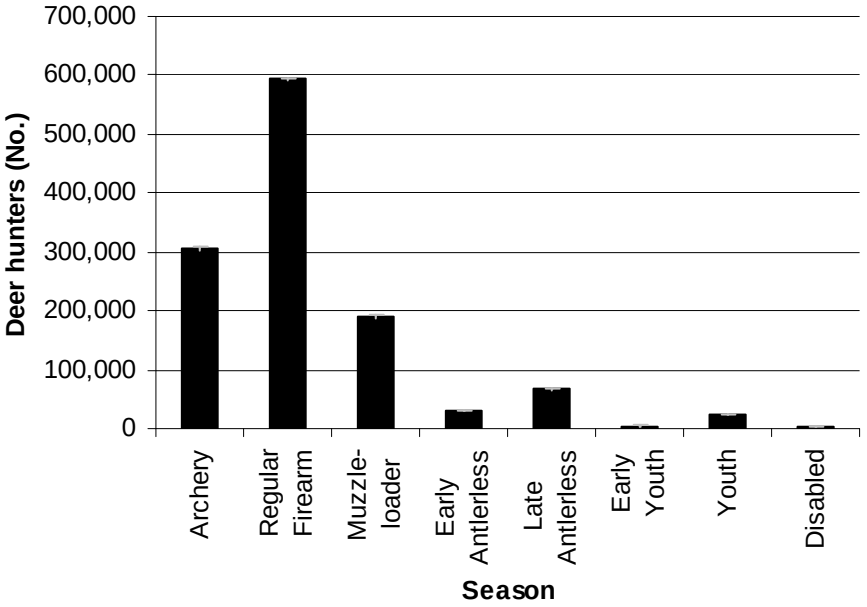

Figure 7. Number of people hunting deer in Michigan during the 2010 hunting seasons. Error bars represent the 95% CLs.

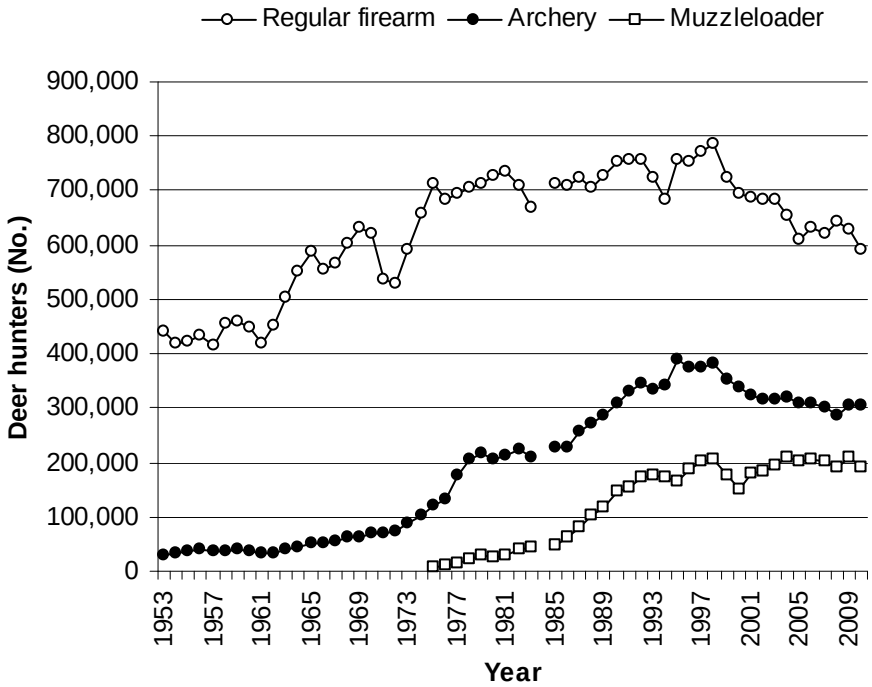

Figure 8. Number of people hunting deer in Michigan during the regular firearm, archery, and muzzleloader seasons, 1953-2010.

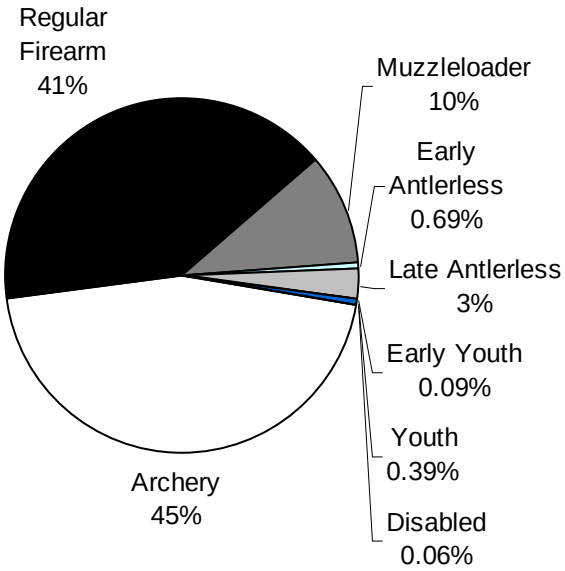

Figure 9. Distribution of hunting effort among deer hunting seasons in Michigan, 2010.

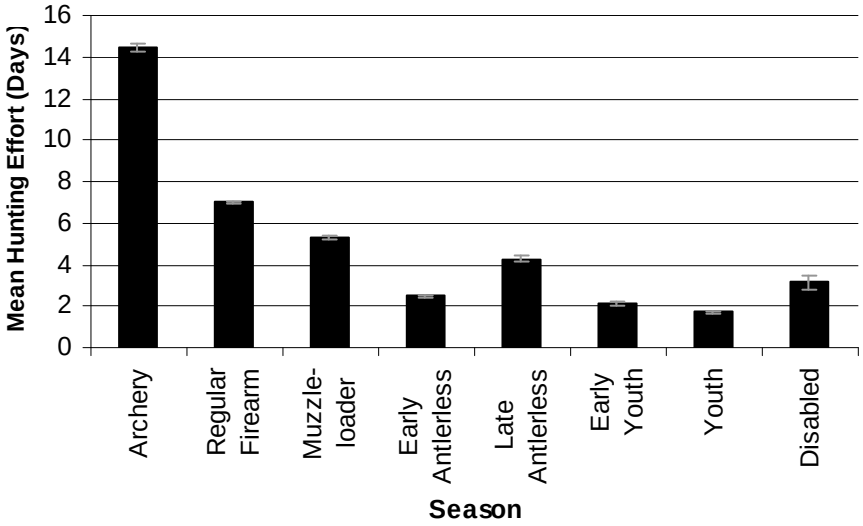

Figure 10. Mean number of days per hunter spent hunting deer in Michigan during the 2010 hunting seasons. Error bars represent the 95% CLs.

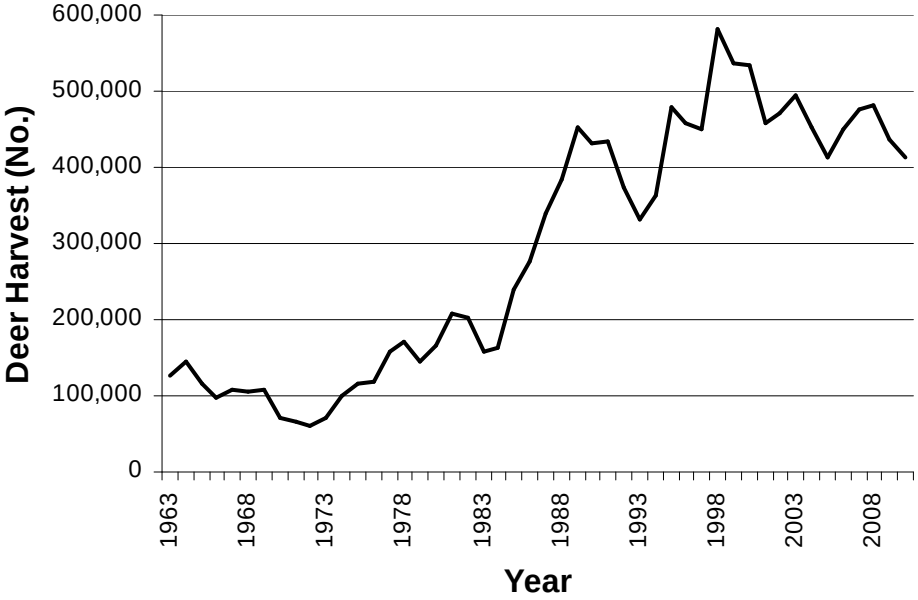

Figure 11. Number of deer harvested in Michigan's hunting seasons, 1963-2010. Harvest from all seasons and for all deer sexes was combined.

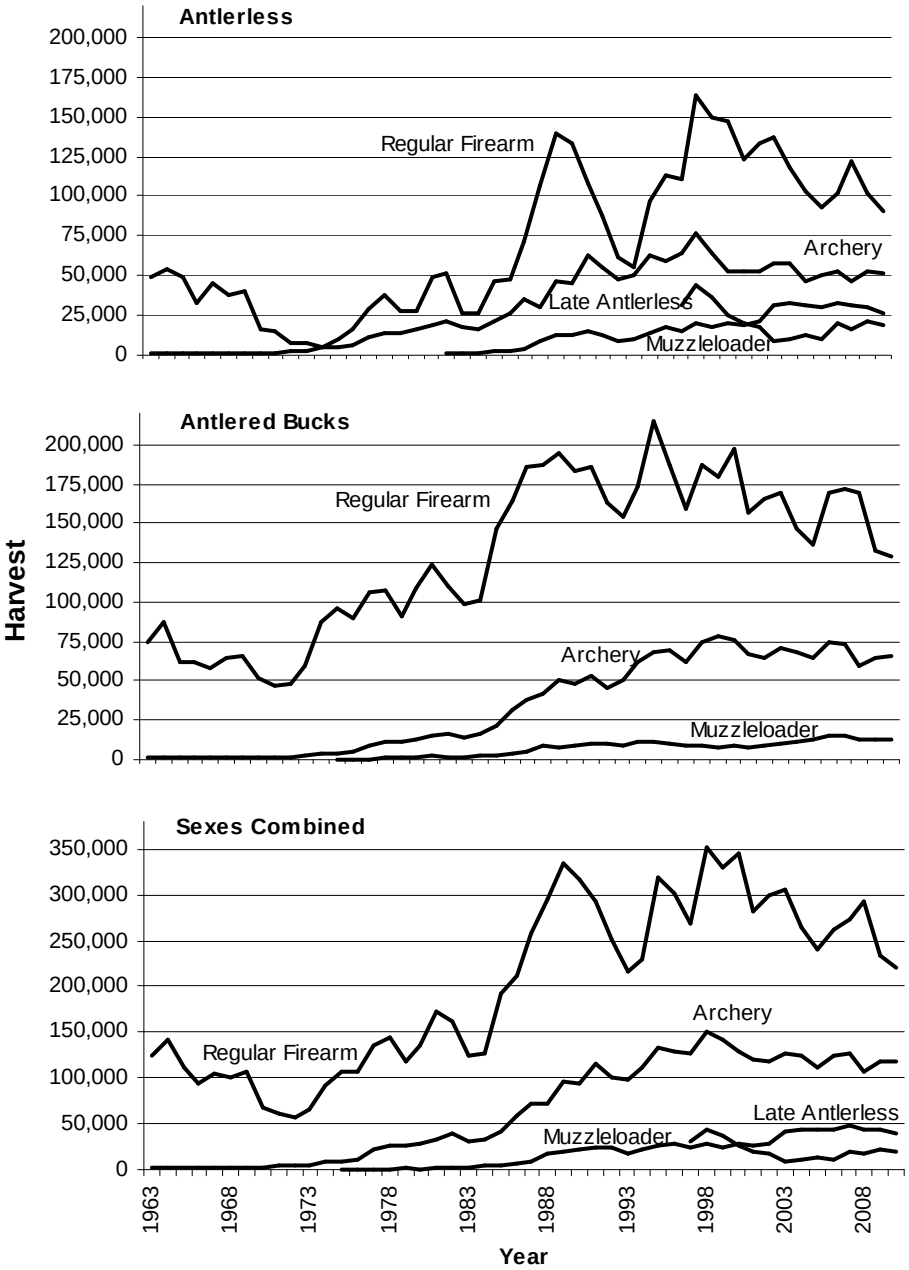

Figure 12. Number of deer harvested in Michigan's hunting seasons, 1963-2010. Harvests for early antlerless, youth, and special disabled hunter seasons were not shown.

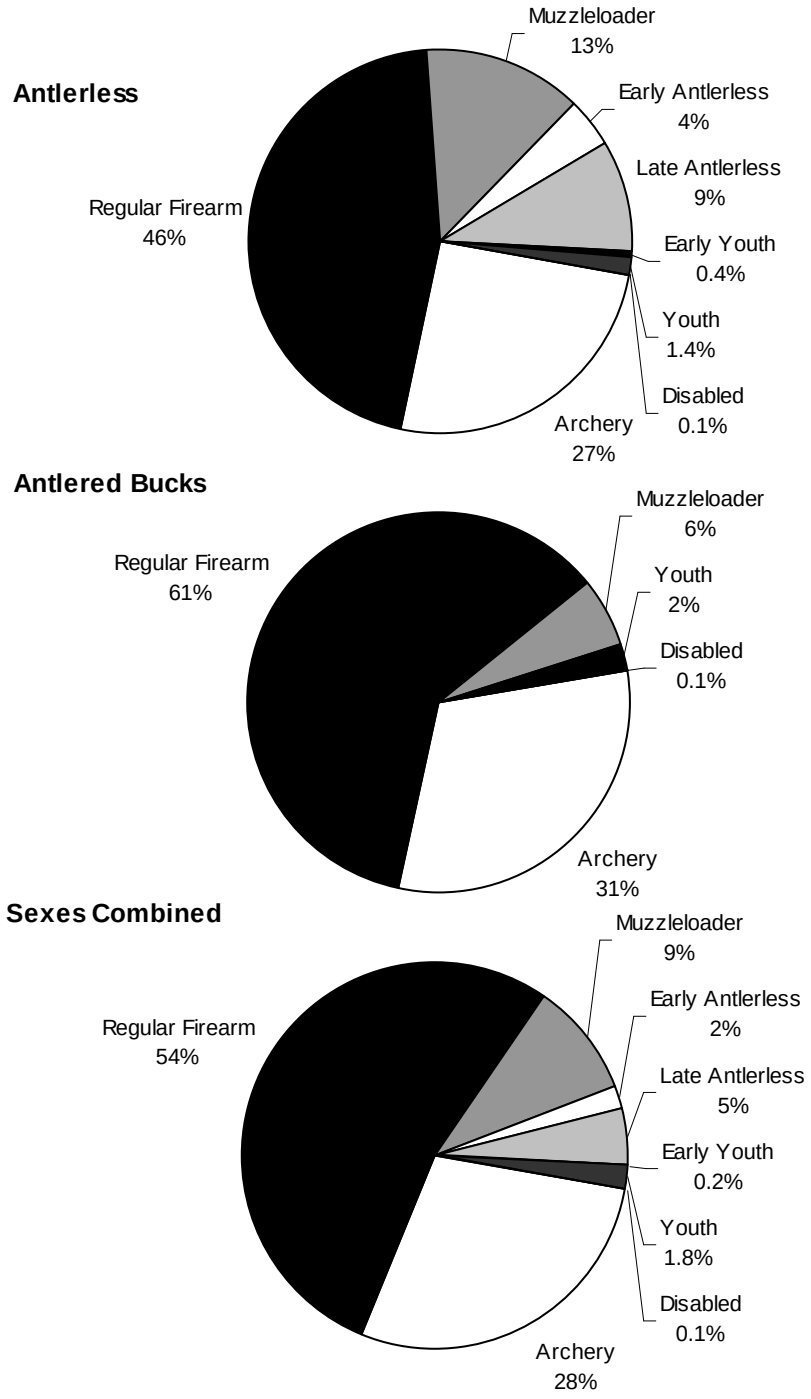

Figure 13. Distribution of harvest among deer hunting seasons in Michigan, 2010. Antlered deer had antlers at least 3 inches in length; antlerless deer included deer without antlers and deer with antlers less than 3 inches in length.

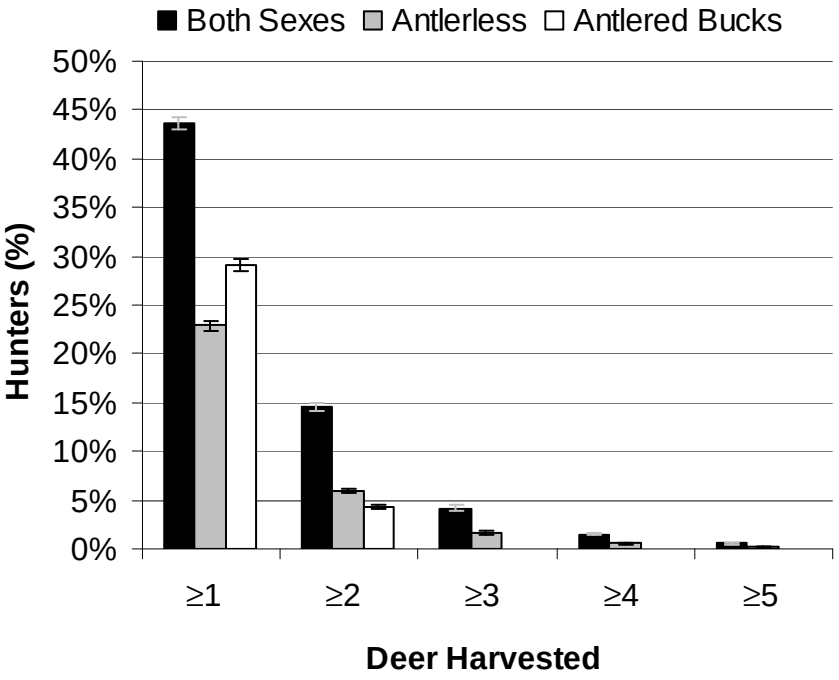

Figure 14. Percentage of hunters harvesting a deer in Michigan, 2010. Error bars represent the 95% CLs.

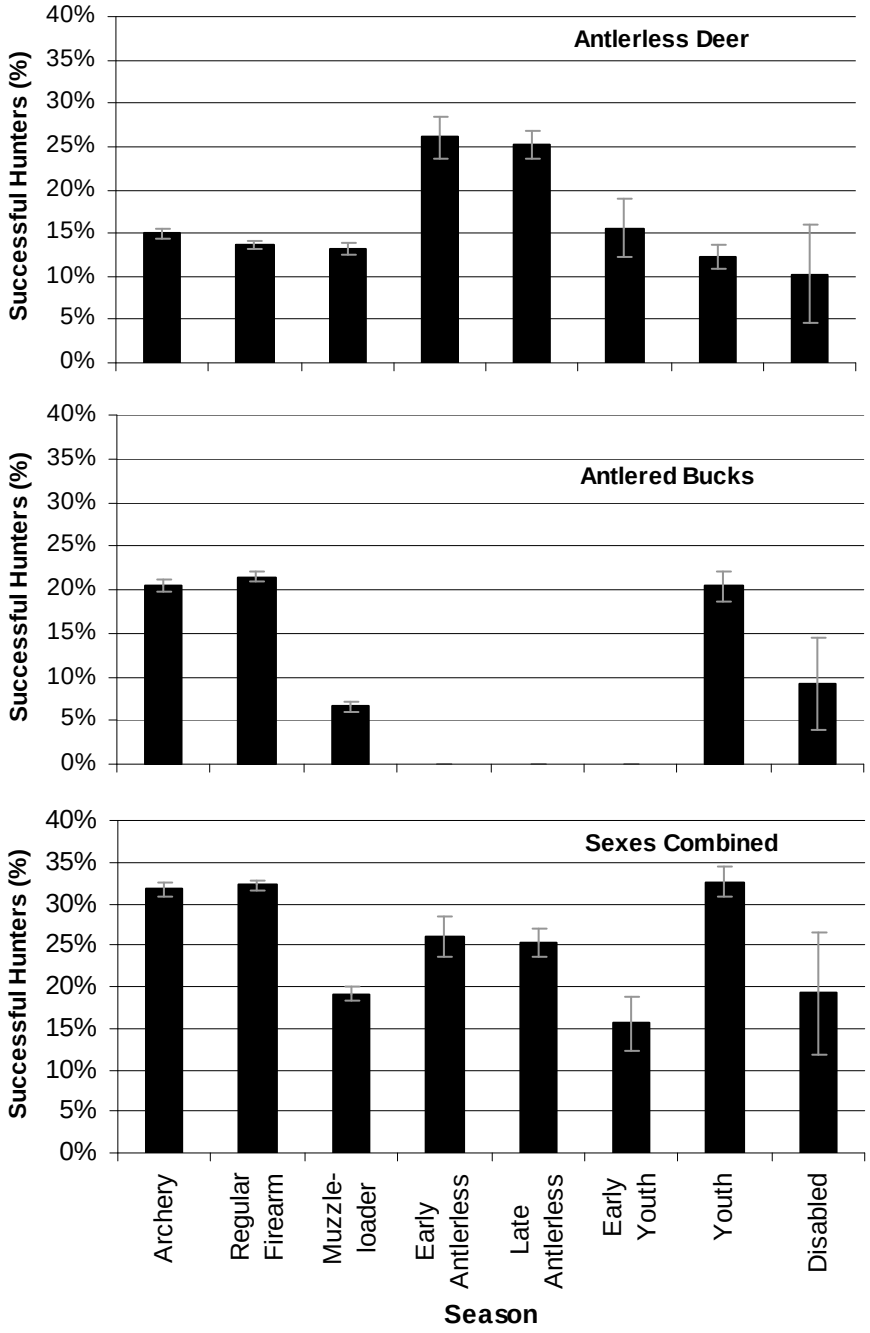

Figure 15. Percentage of hunters harvesting a deer in Michigan's deer hunting seasons, 2010. Error bars represent the 95% CLs. Antlered deer had antlers at least 3 inches in length; antlerless deer included deer without antlers and deer with antlers less than 3 inches in length.

Table 1. Kind of deer that could be taken during the 2010 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 can 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, 2008-2010.

Licenses or Harvest Tags	Number Purchased or Issued 2008	2009	2010	Change Between 2009 and 2010 (%)
Firearm Licenses				
Resident	249,345	237,282	217,816	-8.2
Non-resident	13,299	13,170	12,753	-3.2
Senior	35,243	35,568	36,606	2.9
Military	822	1,015	926	-8.8
Subtotal	298,709	287,035	268,101	-6.6
Archery Licenses				
Resident	35,564	39,246	40,803	4.0
Non-resident	2,579	2,869	3,070	7.0
Junior	4,098	3,807	4,477	17.6
Senior	3,379	4,578	5,366	17.2
Military	208	266	312	17.3
Subtotal	45,828	50,766	54,028	6.4
Combination Licenses[a]				
Resident	285,698	287,564	281,091	-2.3
Non-resident	1,889	1,861	1,952	4.9
Junior	49,092	48,247	46,632	-3.3
Senior	36,043	39,037	39,332	0.8
Military	1,484	1,669	1,583	-5.2
Subtotal	374,206	378,378	370,590	-2.1
Antlerless Licenses				
Resident	487,987	489,302	463,947	-5.2
Non-resident	3,204	2,584	2,154	-16.6
Junior	5,799	4,554	3,319	-27.1
Military	1,408	2,181	2,537	16.3
Pure Michigan Hunt	NA	NA	3	NA
Deer Management Assistance	12,213	10,679	7,771	-27.2
Managed Deer Hunt	604	245	296	20.8
Subtotal	511,215	509,545	480,027	-5.8
Total Licenses Sold	1,229,958	1,225,724	1,172,746	-4.3
Harvest Tags Issued				
Firearm	298,709	287,035	268,101	-6.6
Archery	45,828	50,766	54,028	6.4
Combination	748,412	756,756	741,180	-2.1
Antlerless	511,215	509,545	480,027	-5.8
Total Harvest Tags	1,604,164	1,604,102	1,543,336	-3.8

[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, 2009-2010.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)
Archery								
West UP	21,136	23,402	1,462	10.7	272,592	268,558	22,512	-1.5
East UP	7,421	7,016	813	-5.5	74,605	70,463	11,092	-5.6
NE LP	44,385	43,231	1,966	-2.6	486,496	457,286	29,196	-6.0
NW LP	57,538	57,036	2,222	-0.9	687,646	679,204	36,684	-1.2
Sag. Bay	53,061	54,560	2,176	2.8	673,930	692,155	36,889	2.7
SW LP	56,516	56,155	2,186	-0.6	807,863	798,703	40,703	-1.1
SC LP	67,280	64,357	2,326	-4.3	929,039	880,054	42,931	-5.3
SE LP	34,890	35,727	1,790	2.4	477,494	468,768	32,064	-1.8
UP	28,374	30,176	2,680	6.3	347,197	339,020	25,096	-2.4
NLP	116,405	115,397	3,806	-0.9	1,374,215	1,351,133	51,365	-1.7
SLP	187,080	185,686	3,678	-0.7	2,688,254	2,625,037	73,813	-2.4
Statewide[c]	305,332	306,686	3,990	0.4	4,409,666	4,315,190	93,554	-2.1
Regular Firearm								
West UP	74,095	70,546	2,405	-4.8	578,634	507,909	21,335	-12.2*
East UP	22,274	21,787	1,417	-2.2	150,775	144,467	11,042	-4.2
NE LP	112,510	106,424	2,923	-5.4*	706,251	641,583	22,435	-9.2*
NW LP	122,871	109,975	2,935	-10.5	721,616	650,035	22,577	-9.9*
Sag. Bay	97,481	93,549	2,756	-4.0	598,416	548,000	20,725	-8.4*
SW LP	93,832	91,277	2,689	-2.7	611,787	592,335	22,402	-3.2
SC LP	113,432	103,931	2,831	-8.4*	714,012	647,840	23,238	-9.3*
SE LP	43,772	40,864	1,903	-6.6	256,249	234,329	13,496	-8.6
UP	95,841	91,870	1,649	-4.1*	729,408	652,376	24,023	-10.6*
NLP	263,013	242,339	3,012	-7.9*	1,615,286	1,465,758	33,853	-9.3*
SLP	307,250	291,516	3,474	-5.1*	1,993,045	1,848,364	38,994	-7.3*
Statewide[c]	628,675	593,074	2,724	-5.7*	4,337,740	3,966,498	57,091	-8.6*

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2010 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, 2009-2010.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)
Muzzleloader								
West UP	18,956	15,266	1,189	-19.5*	99,834	77,398	6,904	-22.5*
East UP	6,003	5,719	738	-4.7	31,206	28,795	4,232	-7.7
NE LP	23,948	21,769	1,421	-9.1	104,565	95,313	7,215	-8.8
NW LP	25,234	22,830	1,451	-9.5	104,597	100,784	7,566	-3.6
Sag. Bay	33,025	32,859	1,717	-0.5	155,434	143,955	9,249	-7.4
SW LP	41,406	39,408	1,857	-4.8	222,524	211,919	12,439	-4.8
SC LP	47,707	41,717	1,909	-12.6*	248,357	210,414	12,247	-15.3*
SE LP	20,531	19,275	1,331	-6.1	108,776	90,495	7,689	-16.8*
UP	24,808	20,826	1,383	-16.1*	131,040	106,193	8,098	-19.0*
NLP	57,059	53,106	2,163	-6.9	243,523	232,171	11,321	-4.7
SLP	130,654	121,225	2,955	-7.2*	700,730	620,710	20,749	-11.4*
Statewide[c]	208,230	189,557	3,553	-9.0*	1,075,293	959,075	25,036	-10.8*
Early Antlerless								
West UP	0	0	0		0	0	0	
East UP	0	0	0		0	0	0	
NE LP	2,218	2,708	500	22.1	5,510	6,574	1,380	19.3
NW LP	1,568	1,791	404	14.2	3,392	4,270	1,113	25.9
Sag. Bay	5,310	5,754	723	8.4	12,550	13,296	1,935	6.0
SW LP	8,398	6,659	766	-20.7*	20,740	14,274	1,915	-31.2*
SC LP	10,268	8,295	861	-19.2*	23,467	18,835	2,292	-19.7
SE LP	4,610	4,230	625	-8.2	10,861	9,039	1,612	-16.8
UP	0	0	0		0	0	0	
NLP	3,849	4,724	656	22.7	9,153	11,576	1,848	26.5
SLP	28,262	24,568	1,433	-13.1*	67,367	54,714	3,872	-18.8*
Statewide[c]	32,669	29,721	656	-9.0*	76,520	66,289	4,298	-13.4*

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2010 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, 2009-2010.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)
Late Antlerless								
West UP	0	0	0		0	0	0	
East UP	0	0	0		0	0	0	
NE LP	4,070	4,223	626	3.8	15,085	16,775	3,191	11.2
NW LP	4,044	3,513	571	-13.1	14,400	13,738	2,741	-4.6
Sag. Bay	11,977	11,160	1,002	-6.8	45,227	37,986	4,367	-16.0
SW LP	22,134	19,528	1,305	-11.8	85,208	80,831	6,875	-5.1
SC LP	26,032	21,470	1,364	-17.5*	101,294	81,672	6,625	-19.4*
SE LP	6,078	7,251	814	19.3	23,497	25,755	3,650	9.6
UP	0	0	0		0	0	0	
NLP	8,291	8,143	862	-1.8	30,415	31,789	4,271	4.5
SLP	65,345	57,942	2,055	-11.3*	254,297	224,968	11,091	-11.5*
Statewide[c]	74,806	66,744	2,155	-10.8*	284,712	256,757	11,914	-9.8*
Early Youth								
West UP	NA	0	0	NA	NA	0	0	NA
East UP	NA	0	0	NA	NA	0	0	NA
NE LP	NA	0	0	NA	NA	0	0	NA
NW LP	NA	286	105	NA	NA	522	219	NA
Sag. Bay	NA	1,037	197	NA	NA	2,220	463	NA
SW LP	NA	1,457	232	NA	NA	2,743	505	NA
SC LP	NA	1,570	240	NA	NA	2,864	509	NA
SE LP	NA	355	116	NA	NA	755	279	NA
UP	NA	0	0	NA	NA	0	0	NA
NLP	NA	286	105	NA	NA	522	219	NA
SLP	NA	4,408	387	NA	NA	8,582	898	NA
Statewide[c]	NA	4,749	399	NA	NA	9,104	288	NA

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2010 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, 2009-2010.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)
Youth								
West UP	1,548	1,428	230	-7.7	2,612	2,300	394	-11.9
East UP	318	276	103	-13.0	491	447	177	-9.0
NE LP	2,790	2,673	309	-4.2	4,824	4,540	588	-5.9
NW LP	5,537	4,969	407	-10.3	9,201	8,201	748	-10.9
Sag. Bay	4,815	4,372	385	-9.2	8,048	6,961	683	-13.5
SW LP	4,276	3,464	348	-19.0*	6,783	5,380	599	-20.7*
SC LP	5,537	4,208	379	-24.0*	9,078	6,722	670	-26.0*
SE LP	2,421	1,736	252	-28.3*	4,009	2,647	423	-34.0*
UP	1,866	1,705	250	-8.6	3,103	2,747	432	-11.5
NLP	9,597	8,778	509	-8.5	16,214	14,665	1,017	-9.6
SLP	15,606	12,533	567	-19.7*	25,729	19,784	1,150	-23.1*
Statewide[c]	27,240	23,071	585	-15.3*	45,047	37,196	1,598	-17.4*
Disabled hunts								
West UP	202	158	105	-22.0	673	571	452	-15.2
East UP	40	142	114	259.5	57	241	235	325.6
NE LP	165	379	178	130.2	434	1,301	734	199.8
NW LP	228	253	129	11.1	552	722	485	30.8
Sag. Bay	342	262	137	-23.4	647	720	436	11.2
SW LP	191	245	136	28.5	470	599	466	27.5
SC LP	258	394	180	53.0	449	963	543	114.6
SE LP	97	157	114	62.2	282	339	305	20.1
UP	242	300	155	24.1	730	812	510	11.3
NLP	515	676	226	31.2	1,196	2,115	886	76.9
SLP	761	1,013	283	33.3	1,639	2,529	885	54.3
Statewide[c]	1,594	2,107	407	32.2	3,564	5,456	1,360	53.1

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2010 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, 2009-2010.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)	2009	2010	95% CL[b]	Change from 2009 to 2010 (%)
All Seasons								
West UP	81,446	79,297	2,526	-2.6	954,272	856,638	40,117	-10.2*
East UP	25,842	25,457	1,526	-1.5	257,113	244,378	20,834	-5.0
NE LP	126,247	118,859	3,050	-5.9*	1,323,251	1,223,283	49,636	-7.6*
NW LP	139,451	128,681	3,114	-7.7*	1,541,940	1,457,517	56,441	-5.5
Sag. Bay	114,350	111,603	2,954	-2.4	1,494,283	1,445,339	58,551	-3.3
SW LP	111,975	109,218	2,890	-2.5	1,755,030	1,706,794	67,856	-2.7
SC LP	134,982	127,469	3,060	-5.6*	2,025,287	1,849,391	69,551	-8.7*
SE LP	60,512	57,401	2,222	-5.1	881,367	832,224	47,209	-5.6
UP	106,155	103,729	2,814	-2.3	1,211,385	1,101,016	45,205	-9.1*
NLP	294,114	274,687	3,890	-6.6*	3,290,822	3,109,714	81,550	-5.5*
SLP	365,648	353,269	3,685	-3.4*	5,730,334	5,404,835	118,733	-5.7*
Statewide[c]	686,392	656,501	1,679	-4.4*	10,232,542	9,615,565	151,234	-6.0*

[a]Excluded people that did not hunt during the season.
[b]95% confidence limit for the 2010 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, 2010.[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	11.8	0.7	7.4	0.2	5.2	0.2	0.0	0.0
East UP	10.1	1.1	6.7	0.3	5.2	0.4	0.0	0.0
NE LP	10.7	0.5	6.2	0.1	4.5	0.2	2.7	0.2
NW LP	12.1	0.5	6.1	0.1	4.5	0.2	2.5	0.3
Sag. Bay	13.0	0.4	6.1	0.1	4.5	0.2	2.5	0.2
SW LP	14.6	0.5	6.8	0.1	5.6	0.2	2.3	0.1
SC LP	14.1	0.4	6.5	0.1	5.3	0.2	2.4	0.1
SE LP	13.4	0.6	6.0	0.2	4.9	0.2	2.4	0.2
UP	11.5	0.6	7.3	0.1	5.2	0.2	0.0	0.0
NLP	11.9	0.3	6.2	0.1	4.5	0.1	2.6	0.2
SLP	14.5	0.3	6.6	0.1	5.4	0.1	2.4	0.1
Statewide	14.5	0.2	7.0	0.1	5.3	0.1	2.5	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, 2010.[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	3.6	1.1	11.0	0.4
East UP	0.0	0.0	0.0	0.0	1.7	0.2	2.0	1.1	9.8	0.6
NE LP	4.3	0.5	0.0	0.0	1.7	0.1	4.3	0.8	10.6	0.3
NW LP	4.1	0.4	2.0	0.3	1.7	0.0	3.5	1.1	11.6	0.3
Sag. Bay	3.8	0.2	2.1	0.2	1.7	0.0	2.7	0.7	13.4	0.4
SW LP	4.6	0.2	2.1	0.2	1.6	0.1	3.2	1.3	16.2	0.5
SC LP	4.2	0.2	2.0	0.1	1.6	0.0	2.8	0.8	15.0	0.4
SE LP	3.9	0.3	2.3	0.3	1.6	0.1	2.6	1.0	15.0	0.6
UP	0.0	0.0	0.0	0.0	1.7	0.1	2.9	0.9	10.8	0.3
NLP	4.2	0.3	2.0	0.3	1.7	0.0	3.8	0.7	11.6	0.2
SLP	4.3	0.1	2.1	0.1	1.7	0.0	2.8	0.5	15.9	0.3
Statewide	4.3	0.1	2.1	0.1	1.7	0.0	3.1	0.4	15.3	0.2

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

Table 5. Number of deer harvested in Michigan, 2007-2010.

Season or permit	Type of deer	2008	2009	2010	Change from 2009 to 2010 (%)
Season					
Archery	Antlerless	46,423	53,053	51,309	-3.3
	Antlered bucks	60,016	64,580	65,871	2.0
	Sexes combined	106,439	117,633	117,180	-0.4
Regular firearm	Antlerless	122,160	101,234	90,927	-10.2*
	Antlered bucks	169,665	132,822	129,376	-2.6
	Sexes combined	291,825	234,056	220,303	-5.9*
Muzzleloader	Antlerless	31,049	30,595	26,627	-13.0*
	Antlered bucks	13,085	12,252	12,348	0.8
	Sexes combined	44,134	42,847	38,975	-9.0
Early antlerless	Antlerless	12,871	11,545	8,423	-27.0*
Late antlerless	Antlerless	16,453	21,325	18,957	-11.1
Early youth	Antlerless	0	0	720	NA
Youth	Antlerless	3,007	2,993	2,748	-8.2
	Antlered bucks	5,584	5,283	4,557	-13.7
	Sexes combined	8,590	8,275	7,305	-11.7
Disabled hunts	Antlerless	142	171	248	45.1
	Antlered bucks	184	184	189	2.8
	Sexes combined	326	354	436	23.2
Special permits[a]	Antlerless	9,468	8,195	5,551	-32.3
Grand Total	Antlerless	241,573	229,111	205,509	-10.3*
	Antlered bucks	248,533	215,120	212,341	-1.3
	Sexes combined	490,106	444,231	417,850	-5.9*

[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, 2009-2010.[a]

Season and Area	Antlerless 2009 Harvest	Antlerless 2010 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2009 to 2010 (%)	Antlered Bucks 2009 Harvest	Antlered Bucks 2010 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2009 to 2010 (%)	Sexes Combined 2009 Harvest	Sexes Combined 2010 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2009 to 2010 (%)
Archery												
West UP	3,475	4,312	721	24.1	2,236	3,478	582	55.5*	5,710	7,789	945	36.4*
East UP	990	1,060	336	7.1	879	507	217	-42.3	1,868	1,567	400	-16.1
NE LP	5,140	4,820	724	-6.2	4,807	3,644	594	-24.2	9,946	8,464	990	-14.9
NW LP	7,691	7,939	955	3.2	8,138	9,010	958	10.7	15,828	16,948	1,464	7.1
Sag. Bay	8,507	7,968	944	-6.3	11,607	12,330	1,138	6.2	20,115	20,299	1,601	0.9
SW LP	10,809	9,145	1,032	-15.4	13,477	12,470	1,148	-7.5	24,286	21,616	1,698	-11.0
SC LP	11,345	10,656	1,127	-6.1	16,876	17,006	1,331	0.8	28,223	27,663	1,940	-2.0
SE LP	5,097	5,408	778	6.1	6,561	7,426	883	13.2	11,658	12,834	1,291	10.1
UP	4,464	5,372	795	20.3	3,115	3,985	621	27.9	7,578	9,356	1,026	23.5
NLP	15,403	15,153	1,306	-1.6	15,433	15,485	1,250	0.3	30,835	30,636	1,929	-0.6
SLP	33,185	30,784	1,888	-7.2	46,032	46,402	2,208	0.8	79,221	77,188	3,206	-2.6
Statewide	53,053	51,309	2,434	-3.3	64,580	65,871	2,615	2.0	117,6 33	117,180	3,886	-0.4
Regular Firearm												
West UP	5,511	4,865	734	-11.7	16,516	21,127	1,436	27.9*	22,028	25,993	1,674	18.0*
East UP	373	52	70	-86.1*	2,663	3,353	561	25.9	3,036	3,405	565	12.2
NE LP	10,743	10,861	1,089	1.1	20,834	16,317	1,271	-21.7*	31,578	27,179	1,766	-13.9*
NW LP	15,178	12,650	1,165	-16.7*	21,976	18,583	1,350	-15.4*	37,155	31,234	1,890	-15.9*
Sag. Bay	19,183	17,564	1,403	-8.4	20,806	20,226	1,409	-2.8	39,988	37,790	2,154	-5.5
SW LP	19,290	15,941	1,412	-17.4*	18,373	18,696	1,363	1.8	37,661	34,636	2,145	-8.0
SC LP	25,552	24,484	1,779	-4.2	25,057	24,581	1,594	-1.9	50,607	49,063	2,633	-3.1
SE LP	5,404	4,511	700	-16.5	6,598	6,493	802	-1.6	12,002	11,004	1,116	-8.3
UP	5,884	4,916	738	-16.4	19,179	24,479	1,542	27.6*	25,064	29,398	1,767	17.3*
NLP	31,452	28,082	1,741	-10.7	48,424	39,871	1,977	-17.7*	79,877	67,953	2,789	-14.9*
SLP	63,898	57,929	2,671	-9.3*	65,219	65,026	2,560	-0.3	129,114	122,952	4,041	-4.8
Statewide	101,234	90,927	3,281	-10.2*	132,822	129,376	3,591	-2.6	234,056	220,303	5,229	-5.9*

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 deer were taken with these permits.
[b]95 confidence limit for the 2010 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2009-2010.[a]

Season and Area	Antlerless 2009 Harvest	Antlerless 2010 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2009 to 2010 (%)	Antlered Bucks 2009 Harvest	Antlered Bucks 2010 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2009 to 2010	Sexes Combined 2009 Harvest	Sexes Combined 2010 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2009 to 2010
Muzzleloader												
West UP	2,016	1,014	327	-49.7*	1,040	1,270	356	22.2	3,055	2,287	489	-25.2
East UP	193	52	70	-73.1	424	419	210	-1.1	617	473	222	-23.4
NE LP	2,550	2,387	500	-6.4	1,108	941	305	-15.1	3,658	3,328	603	-9.0
NW LP	3,079	2,376	491	-22.8	896	764	261	-14.8	3,975	3,139	565	-21.1
Sag. Bay	6,064	5,439	751	-10.3	1,990	2,062	436	3.6	8,054	7,499	889	-6.9
SW LP	6,606	6,234	836	-5.6	2,592	2,980	550	14.9	9,198	9,214	1,051	0.2
SC LP	8,127	6,825	867	-16.0	3,194	2,675	505	-16.2	11,321	9,499	1,034	-16.1
SE LP	1,961	2,300	485	17.3	1,007	1,237	338	22.9	2,967	3,538	596	19.2
UP	2,209	1,066	335	-51.8*	1,464	1,689	413	15.4	3,672	2,759	536	-24.9
NLP	6,902	6,030	779	-12.6	2,312	2,015	435	-12.8	9,215	8,042	912	-12.7
SLP	21,483	19,532	1,461	-9.1	8,476	8,644	913	2.0	29,960	28,174	1,780	-6.0
Statewide	30,595	26,627	1,695	-13.0*	12,252	12,348	1,094	0.8	42,847	38,975	2,076	-9.0
Early 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	806	727	299	-9.8	0	0	0		806	727	299	-9.8
NW LP	757	793	332	4.7	0	0	0		757	793	332	4.7
Sag. Bay	2,117	1,969	480	-7.0	0	0	0		2,117	1,969	480	-7.0
SW LP	2,432	1,480	384	-39.1*	0	0	0		2,432	1,480	384	-39.1*
SC LP	4,144	2,531	539	-38.9*	0	0	0		4,144	2,531	539	-38.9*
SE LP	1,288	923	299	-28.4	0	0	0		1,288	923	299	-28.4
UP	0	0	0		0	0	0		0	0	0	
NLP	1,564	1,619	457	3.5	0	0	0		1,564	1,619	457	3.5
SLP	9,981	6,804	865	-31.8*	0	0	0		9,981	6,804	865	-31.8*
Statewide	11,545	8,423	981	-27.0*	0	0	0		11,545	8,423	981	-27.0*

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 deer were taken with these permits.
[b]95 confidence limit for the 2010 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2009-2010.[a]

Season and Area	Antlerless				Antlered Bucks				Sexes Combined			
	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010 (%)	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010
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	1,033	1,157	363	12.1	0	0	0		1,033	1,157	363	12.1
NW LP	1,561	970	322	-37.8	0	0	0		1,561	970	322	-37.8
Sag. Bay	3,583	3,710	655	3.5	0	0	0		3,583	3,710	655	3.5
SW LP	6,085	4,746	756	-22.0	0	0	0		6,085	4,746	756	-22.0
SC LP	7,726	6,845	985	-11.4	0	0	0		7,726	6,845	985	-11.4
SE LP	1,337	1,528	406	14.3	0	0	0		1,337	1,528	406	14.3
UP	0	0	0		0	0	0		0	0	0	
NLP	2,645	2,217	493	-16.2	0	0	0		2,645	2,217	493	-16.2
SLP	18,680	16,740	1,458	-10.4	0	0	0		18,680	16,740	1,458	-10.4
Statewide	21,325	18,957	1,547	-11.1	0	0	0		21,325	18,957	1,547	-11.1
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	0	65	49		0	0	0		0	65	49	
Sag. Bay	0	153	75		0	0	0		0	153	75	
SW LP	0	218	89		0	0	0		0	218	89	
SC LP	0	251	96		0	0	0		0	251	96	
SE LP	0	33	35		0	0	0		0	33	35	
UP	0	0	0		0	0	0		0	0	0	
NLP	0	65	49		0	0	0		0	65	49	
SLP	0	655	155		0	0	0		0	655	155	
Statewide	0	720	164		0	0	0		0	720	164	

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 deer were taken with these permits.
[b]95 confidence limit for the 2010 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2009-2010.[a]

Season and Area	Antlerless 2009 Harvest	Antlerless 2010 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2009 to 2010 (%)	Antlered Bucks 2009 Harvest	Antlered Bucks 2010 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2009 to 2010	Sexes Combined 2009 Harvest	Sexes Combined 2010 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2009 to 2010
Youth												
West UP	212	182	82	-14.1	334	367	116	9.9	546	549	143	0.6
East UP	20	43	40	113.1	50	43	40	-14.0	70	86	57	22.5
NE LP	266	397	121	49.4	535	582	147	8.8	801	979	190	22.3
NW LP	683	805	173	17.9	1,241	936	186	-24.5	1,923	1,741	254	-9.5
Sag. Bay	568	431	126	-24.1	1,143	1,109	202	-3.0	1,712	1,540	238	-10.0
SW LP	425	333	111	-21.7	554	421	125	-24.1	979	753	167	-23.0
SC LP	567	386	120	-31.9	1,063	883	181	-16.9	1,630	1,269	217	-22.1
SE LP	253	172	80	-32.1	362	215	89	-40.6	615	387	120	-37.1
UP	233	225	92	-3.1	384	410	123	6.8	616	635	153	3.1
NLP	1,184	1,363	225	15.1	2,117	1,830	260	-13.6	3,301	3,194	344	-3.2
SLP	1,576	1,159	208	-26.4	2,782	2,317	293	-16.7	4,358	3,476	359	-20.2*
Statewide	2,993	2,748	320	-8.2	5,283	4,557	412	-13.7	8,275	7,305	521	-11.7
Disabled Hunts												
West UP	37	9	5	-75.6	53	3	3	-94.1	89	12	6	-86.3
East UP	10	26	50	159.3	10	27	50	165.8	20	52	70	161.9
NE LP	3	3	3	6.9	29	28	50	-1.3	31	31	50	-1.8
NW LP	24	38	50	60.1	24	41	50	67.4	48	78	71	63.3
Sag. Bay	58	41	50	-29.1	33	9	4	-71.5	91	51	50	-44.1
SW LP	7	65	99	824.0	29	31	50	9.0	36	97	111	171.3
SC LP	8	65	70	702.9	4	47	54	1120.7	12	112	89	837.0*
SE LP	25	2	2	-93.9	3	3	2	-8.8	28	4	3	-85.2
UP	47	35	50	-25.8	63	30	50	-52.5	109	64	70	-41.1
NLP	81	50	50	-38.6	56	72	70	29.2	137	121	86	-11.5
SLP	43	163	132	283.0	65	87	73	33.3	108	251	151	132.6
Statewide	171	248	149	45.1	184	189	113	2.8	354	436	187	23.2

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 deer were taken with these permits.
[b]95 confidence limit for the 2010 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2009-2010.[a]

Season and Area	Antlerless				Antlered Bucks				Sexes Combined			
	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010 (%)	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010 (%)	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010 (%)
All Seasons												
West UP	11,261	10,392	1,138	-7.7	20,171	26,240	1,650	30.1*	31,443	36,644	2,118	16.5*
East UP	1,588	1,235	356	-22.3	4,024	4,347	663	8.0	5,615	5,584	756	-0.5
NE LP	20,551	20,360	1,610	-0.9	27,310	21,509	1,485	-21.2*	47,868	41,869	2,387	-12.5*
NW LP	28,991	25,652	1,823	-11.5	32,279	29,331	1,764	-9.1	61,274	54,985	2,815	-10.3*
Sag. Bay	40,079	37,270	2,329	-7.0	35,580	35,739	2,003	0.4	75,655	73,006	3,490	-3.5
SW LP	45,640	38,149	2,464	-16.4*	35,027	34,602	1,984	-1.2	80,657	72,746	3,652	-9.8*
SC LP	57,442	52,027	3,071	-9.4	46,196	45,195	2,285	-2.2	103,627	97,214	4,385	-6.2
SE LP	15,364	14,874	1,417	-3.2	14,534	15,378	1,322	5.8	29,897	30,252	2,184	1.2
UP	12,850	11,627	1,192	-9.5	24,195	30,587	1,778	26.4*	37,058	42,229	2,249	14.0*
NLP	59,272	54,606	2,640	-7.9	68,344	59,265	2,489	-13.3*	127,628	113,872	4,001	-10.8*
SLP	148,794	133,725	4,677	-10.1*	122,581	122,489	3,746	-0.1	271,350	256,198	6,865	-5.6*
Statewide	220,916	199,958	5,518	-9.5*	212,341	4,845	-1.3	-1.3	436,036	412,299	8,276	-5.4*

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 deer were taken with these permits.
[b]95 confidence limit for the 2010 estimate.
*P<0.005.

Table 7. Number of deer harvested on public and private lands during all seasons combined in Michigan by management region, 2009-2010.[a]

Season and Area	Antlerless				Antlered Bucks				Sexes Combined			
	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010 (%)	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010 (%)	2009 Harvest	2010 Harvest	95% CL[b]	Change from 2009 to 2010 (%)
Public Lands												
West UP	2,733	2,818	558	3.1	6,342	8,467	943	33.5*	9,079	11,288	1,138	24.3*
East UP	377	437	214	15.8	1,219	1,258	348	3.2	1,598	1,695	409	6.1
NE LP	3,607	4,317	706	19.7	6,287	5,137	726	-18.3	9,896	9,453	1,074	-4.5
NW LP	2,054	1,722	410	-16.1	5,887	4,980	702	-15.4	7,945	6,704	843	-15.6
Sag. Bay	3,655	3,896	645	6.6	3,095	3,958	628	27.9	6,747	7,852	989	16.4
SW LP	2,270	2,161	521	-4.8	2,271	2,091	459	-7.9	4,539	4,250	746	-6.4
SC LP	3,314	3,376	632	1.9	2,478	3,293	595	32.9	5,788	6,667	980	15.2
SE LP	1,054	1,122	345	6.5	1,081	1,201	376	11.2	2,133	2,323	560	8.9
UP	3,110	3,255	598	4.7	7,561	9,725	1,006	28.6*	10,676	12,983	1,209	21.6*
NLP	6,861	7,414	913	8.1	13,246	11,486	1,073	-13.3	20,112	18,900	1,482	-6.0
SLP	9,093	9,180	1,020	1.0	7,852	9,174	984	16.8	16,936	18,350	1,574	8.3
Statewide	19,065	19,849	1,497	4.1	28,659	30,385	1,772	6.0	47,724	50,233	2,481	5.3
Private Lands												
West UP	8,535	7,573	947	-11.3	13,836	17,770	1,345	28.4*	22,377	25,351	1,731	13.3
East UP	1,212	797	284	-34.2	2,806	3,089	564	10.1	4,019	3,888	635	-3.3
NE LP	16,950	16,042	1,416	-5.4	21,027	16,371	1,291	-22.1*	37,983	32,413	2,084	-14.7*
NW LP	26,935	23,930	1,768	-11.2	26,395	24,351	1,608	-7.7	53,332	48,281	2,657	-9.5
Sag. Bay	36,424	33,374	2,210	-8.4	32,482	31,782	1,896	-2.2	68,905	65,154	3,302	-5.4
SW LP	43,364	35,989	2,396	-17.0*	32,752	32,513	1,927	-0.7	76,108	68,499	3,547	-10.0*
SC LP	54,122	48,652	2,993	-10.1	43,711	41,904	2,200	-4.1	97,826	90,550	4,246	-7.4
SE LP	14,309	13,752	1,373	-3.9	13,452	14,177	1,264	5.4	27,761	27,930	2,100	0.6
UP	9,747	8,370	989	-14.1	16,642	20,859	1,459	25.3*	26,397	29,239	1,844	10.8
NLP	52,418	47,192	2,453	-10.0*	55,105	47,778	2,236	-13.3*	107,530	94,969	3,665	-11.7*
SLP	139,686	124,547	4,537	-10.8*	114,714	113,320	3,606	-1.2	254,385	237,857	6,625	-6.5*
Statewide	201,851	180,109	5,268	-10.8*	186,461	181,957	4,494	-2.4	388,312	362,066	7,811	-6.8*

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 deer were taken with these permits.
[b]95 confidence limit for the 2010 estimate.
*P<0.005.

Table 8. Percentage of deer hunters harvesting deer in Michigan during all seasons, 2010.[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	11.2	1.1	2.1	0.5	0.1	0.1	0.0	0.1	0.0	0.1
East UP	4.6	1.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
NE LP	14.5	1.0	2.4	0.4	0.4	0.2	0.1	0.1	0.0	0.0
NW LP	16.9	1.0	2.7	0.4	0.5	0.2	0.2	0.1	0.1	0.1
Sag. Bay	25.9	1.3	6.2	0.7	1.5	0.3	0.4	0.2	0.2	0.1
SW LP	25.7	1.3	6.9	0.7	2.2	0.4	0.7	0.3	0.2	0.1
SC LP	28.6	1.2	8.8	0.8	2.4	0.4	1.0	0.3	0.6	0.2
SE LP	20.7	1.6	4.5	0.8	1.0	0.4	0.3	0.2	0.0	0.1
UP	9.6	0.9	1.7	0.4	0.1	0.1	0.0	0.0	0.0	0.0
NLP	16.8	0.7	2.8	0.3	0.5	0.1	0.1	0.1	0.1	0.0
SLP	27.3	0.7	7.8	0.4	2.3	0.2	0.8	0.1	0.3	0.1
Statewide	22.9	0.5	5.9	0.3	1.6	0.1	0.5	0.1	0.2	0.1
Antlered bucks[c]										
West UP	31.5	1.6	2.4	0.5						
East UP	16.5	2.3	1.0	0.6						
NE LP	17.4	1.1	1.2	0.3						
NW LP	21.1	1.1	2.3	0.4						
Sag. Bay	28.7	1.3	4.1	0.6						
SW LP	28.2	1.3	4.3	0.6						
SC LP	31.1	1.3	5.3	0.6						
SE LP	23.9	1.7	3.6	0.8						
UP	28.1	1.4	2.1	0.4						
NLP	20.2	0.7	1.9	0.3						
SLP	30.4	0.8	5.2	0.4						
Statewide	29.1	0.5	4.2	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, 2010.[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	39.9	1.7	6.5	0.9	0.8	0.3	0.1	0.1	0.0	0.0
East UP	20.9	2.5	1.5	0.7	0.0	0.1	0.0	0.0	0.1	0.1
NE LP	28.6	1.3	6.0	0.7	1.2	0.3	0.3	0.1	0.1	0.1
NW LP	33.3	1.3	8.1	0.7	1.7	0.3	0.3	0.2	0.2	0.2
Sag. Bay	46.0	1.4	14.9	1.0	4.0	0.6	1.3	0.3	0.3	0.3
SW LP	43.8	1.4	16.2	1.1	5.3	0.7	1.8	0.4	0.3	0.3
SC LP	48.6	1.4	19.1	1.1	6.0	0.6	2.4	0.4	0.2	0.2
SE LP	38.1	2.0	11.6	1.3	3.3	0.7	0.9	0.4	0.6	0.6
UP	35.6	1.5	5.4	0.7	0.7	0.2	0.1	0.1	0.1	0.1
NLP	32.6	0.9	7.8	0.5	1.6	0.2	0.4	0.1	0.2	0.2
SLP	47.1	0.8	17.9	0.6	5.6	0.4	2.1	0.2	0.6	0.6
Statewide	43.6	0.6	14.5	0.4	4.2	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, 2010.[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	16.2	2.3	6.3	0.9	6.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0
East UP	14.2	4.1	0.2	0.3	0.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
NE LP	10.5	1.4	9.5	0.9	10.5	2.0	23.2	7.8	24.8	6.5	0.0	0.0
NW LP	12.7	1.4	10.7	0.9	10.0	1.9	37.9	11.0	24.8	7.1	23.1	15.5
Sag. Bay	13.5	1.4	17.1	1.2	15.9	2.0	30.7	5.9	30.0	4.2	15.0	6.9
SW LP	14.3	1.4	15.1	1.2	14.5	1.7	21.4	4.8	21.4	2.9	15.2	5.8
SC LP	14.6	1.4	19.9	1.2	15.2	1.7	27.5	4.7	27.1	3.0	16.2	5.8
SE LP	13.7	1.8	10.3	1.4	11.2	2.2	21.7	6.2	20.0	4.6	9.3	9.6
UP	15.8	2.1	4.9	0.7	4.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
NLP	12.1	0.9	10.8	0.6	11.0	1.3	29.6	6.4	24.7	4.7	23.1	15.5
SLP	14.7	0.8	17.3	0.7	14.9	1.0	25.6	2.7	25.3	1.8	15.1	3.3
Statewide	14.9	0.6	13.6	0.4	13.2	0.8	26.1	2.5	25.3	1.6	15.6	3.3
Antlered Bucks												
West UP	14.9	2.3	29.8	1.7	8.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
East UP	7.4	3.1	15.7	2.4	7.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0
NE LP	8.5	1.3	15.2	1.1	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
NW LP	15.3	1.5	16.6	1.1	3.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Sag. Bay	21.6	1.7	21.4	1.3	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
SW LP	21.0	1.7	20.2	1.3	7.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0
SC LP	25.1	1.7	22.7	1.3	6.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
SE LP	19.8	2.1	15.6	1.7	6.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
UP	13.3	1.9	26.6	1.4	8.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
NLP	13.1	1.0	16.3	0.7	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
SLP	23.6	1.0	21.7	0.7	7.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Statewide	20.5	0.7	21.5	0.5	6.6	0.6	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, 2010.[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	30.4	2.9	34.7	1.8	14.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
East UP	21.6	4.8	15.9	2.4	8.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
NE LP	17.7	1.8	23.2	1.3	14.4	2.3	23.2	7.8	24.8	6.5	0.0	0.0
NW LP	25.7	1.8	25.6	1.3	13.2	2.2	37.9	11.0	24.8	7.1	23.1	15.5
Sag. Bay	32.1	1.9	35.0	1.5	21.8	2.2	30.7	5.9	30.0	4.2	15.0	6.9
SW LP	31.7	1.9	31.8	1.5	20.7	2.0	21.4	4.8	21.4	2.9	15.2	5.8
SC LP	34.5	1.8	37.6	1.5	20.9	1.9	27.5	4.7	27.1	3.0	16.2	5.8
SE LP	29.8	2.4	24.4	2.1	17.6	2.7	21.7	6.2	20.0	4.6	9.3	9.6
UP	28.5	2.5	30.4	1.5	12.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
NLP	23.4	1.2	25.3	0.9	14.5	1.5	29.6	6.4	24.7	4.7	23.1	15.5
SLP	33.8	1.1	35.0	0.9	21.3	1.1	25.6	2.7	25.3	1.8	15.1	3.3
Statewide	31.8	0.8	32.2	0.6	19.1	0.9	26.1	2.5	25.3	1.6	15.6	3.3

[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, 2010.[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	13.1	5.5	4.9	4.1	11.2	1.1
East UP	15.9	13.7	18.7	32.2	4.6	1.3
NE LP	15.2	4.3	0.8	0.8	14.5	1.0
NW LP	16.6	3.3	14.2	18.6	16.9	1.0
Sag. Bay	10.1	2.8	15.5	18.2	25.9	1.3
SW LP	9.9	3.1	15.3	19.4	25.7	1.3
SC LP	9.4	2.8	15.7	16.8	28.6	1.2
SE LP	10.2	4.5	1.0	1.4	20.7	1.6
UP	13.6	5.1	11.5	16.1	9.6	0.9
NLP	16.0	2.4	6.9	7.4	16.8	0.7
SLP	9.5	1.6	13.2	9.4	27.3	0.7
Statewide	12.3	1.3	10.2	5.7	22.9	0.5
Antlered Bucks						
West UP	26.3	7.2	2.0	2.1	31.5	1.6
East UP	15.9	13.7	18.7	32.2	16.5	2.3
NE LP	22.3	5.0	7.4	12.9	17.4	1.1
NW LP	19.3	3.5	16.0	18.6	21.1	1.1
Sag. Bay	26.0	4.1	3.6	2.5	28.7	1.3
SW LP	12.4	3.5	12.7	19.4	28.2	1.3
SC LP	21.5	3.9	11.9	13.4	31.1	1.3
SE LP	12.7	5.0	1.6	1.6	23.9	1.7
UP	24.6	6.5	9.9	16.1	28.1	1.4
NLP	21.3	2.7	10.6	10.2	20.2	0.7
SLP	18.9	2.2	8.6	7.2	30.4	0.8
Statewide	20.4	1.6	9.2	5.3	29.1	0.5

[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, 2010.[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	39.4	8.0	6.9	5.4	39.9	1.7
East UP	31.9	17.4	37.4	39.4	20.9	2.5
NE LP	37.5	5.8	8.2	12.9	28.6	1.3
NW LP	35.9	4.2	30.2	23.7	33.3	1.3
Sag. Bay	36.1	4.5	19.0	18.4	46.0	1.4
SW LP	22.3	4.4	27.4	25.0	43.8	1.4
SC LP	30.9	4.4	27.2	19.9	48.6	1.4
SE LP	22.9	6.3	2.6	2.5	38.1	2.0
UP	38.2	7.3	21.3	21.4	35.6	1.5
NLP	37.3	3.2	17.5	12.1	32.6	0.9
SLP	28.4	2.5	21.5	11.2	47.1	0.8
Statewide	32.6	1.9	19.2	7.4	43.6	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, 2009-2010.

	Satisfied hunters (%)[a]				Dissatisfied hunters (%)[b]			
Criteria and area	2009	2010	95% CL[c]	Difference from 2009 to 2010 (%)	2009	2010	95% CL[c]	Difference from 2009 to 2010 (%)
Number of deer seen								
West UP	17	29	2	12*	74	58	2	-16*
East UP	11	16	3	5*	80	73	3	-7*
NE LP	18	19	1	1	71	69	1	-2
NW LP	24	25	1	1	62	61	1	-1
Sag. Bay	34	40	2	5*	51	46	2	-5*
SW LP	39	38	2	-1	45	47	2	2
SC LP	40	46	1	6*	44	38	1	-6*
SE LP	33	41	2	8*	51	41	2	-9*
UP	15	26	1	11*	75	61	2	-14*
NLP	22	23	1	1	66	65	1	-1
SLP	39	43	1	4*	45	41	1	-4*
Statewide	29	33	1	4*	57	53	1	-5*
Number of antlered deer (bucks) seen								
West UP	13	21	2	9*	76	66	2	-10*
East UP	7	9	2	2	82	80	3	-2
NE LP	13	13	1	1	75	73	1	-2
NW LP	14	16	1	1	71	69	1	-3*
Sag. Bay	22	27	1	6*	62	55	2	-7*
SW LP	25	26	1	1	57	56	2	-1
SC LP	27	31	1	4*	55	50	1	-5*
SE LP	22	26	2	5*	60	55	2	-6*
UP	12	19	1	7*	77	69	2	-8*
NLP	14	15	1	1	73	70	1	-3*
SLP	25	29	1	4*	57	53	1	-5*
Statewide	19	22	1	3*	66	61	1	-4*

[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 2010 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, 2009-2010.

	Satisfied hunters (%)[a]				Dissatisfied hunters (%)[b]			
Criteria and area	2009	2010	95% CL[c]	Difference from 2009 to 2010 (%)	2009	2010	95% CL[c]	Difference from 2009 to 2010 (%)
Overall deer hunting experience								
West UP	30	43	2	14*	52	37	2	-15*
East UP	24	30	3	6*	58	50	3	-8*
NE LP	31	32	1	1	48	47	2	-2
NW LP	35	36	1	1	43	42	1	-1
Sag. Bay	42	48	2	6*	35	32	1	-3*
SW LP	47	47	2	0	30	31	1	1
SC LP	49	52	1	3*	29	26	1	-3*
SE LP	44	48	2	5	31	27	2	-4
UP	28	40	2	12*	53	40	2	-13*
NLP	33	35	1	2	45	44	1	-1
SLP	47	50	1	3*	30	28	1	-2*
Statewide	39	43	1	4*	39	36	1	-4*
Number of deer harvested								
West UP	22	31	2	9*	46	35	2	-11*
East UP	14	17	3	2	53	51	4	-2
NE LP	21	21	1	0	46	45	2	-1
NW LP	23	24	1	1	42	41	1	0
Sag. Bay	30	34	2	3*	35	33	2	-2
SW LP	31	32	2	1	36	34	2	-1
SC LP	34	36	1	2	34	32	1	-2
SE LP	28	30	2	3	36	33	2	-3
UP	20	28	1	7*	48	39	2	-9*
NLP	22	23	1	1	44	43	1	-1
SLP	32	34	1	2*	34	32	1	-2*
Statewide	27	29	1	2*	40	37	1	-3*

[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 2010 estimate.
*P<0.005.

Table 12. Level of support and opposition for the antler point restrictions in the Upper Peninsula among Michigan deer hunters, 2009-2010.

Preferred hunt area	Hunters supporting (%)[a]				Hunters opposing (%)[b]			
	2009	2010	95% CL[c]	Difference from 2009 to 2010 (%)	2009	2010	95% CL[c]	Difference from 2009 to 2010 (%)
West UP	54	59	2	6*	36	30	2	-7*
East UP	50	57	3	7*	39	33	3	-6
NE LP	46	46	2	-1	24	25	1	1
NW LP	47	48	1	1	23	20	1	-3*
Sag. Bay	45	47	2	2	24	21	1	-3*
SW LP	51	51	2	0	16	16	1	-1
SC LP	49	51	1	3	19	17	1	-3*
SE LP	50	53	2	3	21	18	2	-3
UP	53	59	2	6*	37	30	1	-6*
NLP	46	47	1	0	24	22	1	-1
SLP	49	51	1	2*	19	17	1	-2*
Statewide	49	50	1	2*	23	21	0	-2*

[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 2010 estimate.
*P<0.005.

Table 13. Proportion of deer hunters supporting the antler point restrictions for taking antlered deer (bucks) in DMU 487 during the 2010 deer hunting seasons in Michigan.[a]

Preferred hunt area	Level of support					
	Support[b]		Oppose[c]		Not sure	
	%	95% CL[d]	%	95% CL[d]	%	95% CL[d]
West UP	36	2	18	1	46	2
East UP	38	3	22	3	40	3
NE LP	42	2	31	1	27	1
NW LP	38	1	20	1	42	1
Sag. Bay	39	2	22	1	39	2
SW LP	39	2	14	1	47	2
SC LP	42	1	16	1	42	1
SE LP	45	2	19	2	37	2
UP	36	2	19	1	45	2
NLP	40	1	25	1	35	1
SLP	41	1	17	1	42	1
Statewide	40	1	20	0	40	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.

Table 14. Estimated proportion and number of archers that used a crossbow during 2010 archery season in Michigan, summarized by region.

	Archers using a crossbow during archery season			
Region	%	95% CL	Total	95% CL
UP	32.2	2.9	8,122	872
NLP	32.6	1.5	29,957	1,657
SLP	28.2	1.1	45,379	1,990
Unknown[a]	25.3	2.5	7,157	822
Statewide	29.5	0.8	90,615	2,733

[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 2010 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	15.4	3.9	15.9	3.9	31.3	5.1
NLP	15.3	2.0	16.1	2.1	31.5	2.8
SLP	17.8	1.8	28.5	2.1	46.3	2.8
Unknown[b]	19.7	4.6	19.8	4.6	39.5	6.7
Statewide	16.9	1.2	22.6	1.4	35.6	1.6

[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 2010 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	1,305	367	1,305	360	2,610	518
NLP	5,007	760	4,984	718	9,991	1,107
SLP	8,920	1,014	13,570	1,192	22,490	1,739
Unknown[a]	1,662	455	1,556	422	3,218	685
Statewide	16,894	1,387	21,416	1,486	38,310	2,207

[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 2010, 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	5,000	2,925	2,504	0	0	0
003	Allegan County	3,000	2,513	2,086	0	0	0
004	Alpena County	3,000	669	560	0	0	0
005	Antrim County	0	0	0	5,500	4,721	3,620
006	Arenac County	500	428	427	7,600	5,007	3,848
007	Big Bay Unit	0	0	0	0	0	0
008	Barry County	1,800	1,528	1,344	0	0	0
009	Bay County	200	171	151	0	0	0
010	Benzie County	0	0	0	200	237	237
011	Berrien County	200	167	152	0	0	0
012	Branch County	100	80	71	0	0	0
013	Calhoun County	100	80	73	0	0	0
014	Cass County	400	333	294	0	0	0
015	Charlevoix County	0	0	0	4,000	3,450	2,583
016	Cheboygan County	0	0	0	0	0	0
017	Sault Ste. Marie Unit	0	0	0	0	0	0
018	Clare County	900	743	738	9,200	8,031	6,242
019	Clinton County	1,200	1,003	785	0	0	0
020	Crawford County	1,200	1,096	1,087	1,500	1,288	1,081
021	Manistique Unit	0	0	0	0	0	0
022	Iron Mountain Unit	1,000	837	833	4,000	3,374	2,703
023	Eaton County	100	67	60	0	0	0
024	Emmet County	0	0	0	2,000	1,721	1,390
025	Genesee County	0	0	0	0	0	0
026	Gladwin County	1,200	1,028	1,027	8,900	7,750	5,811
027	Watersmeet Unit	0	0	0	0	0	0
028	Grand Traverse County	0	0	0	300	337	337
029	Gratiot County	1,600	1,349	1,071	0	0	0
030	Hillsdale County	400	334	297	0	0	0
031	Nisula Unit	0	0	0	0	0	0
032	Huron County	1,000	823	817	0	0	0
033	Ingham County	600	488	382	0	0	0
034	Ionia County	1,200	1,043	817	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]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 2010, 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	1,000	819	814	0	0	0
036	Amasa/Michigamme Unit	0	0	0	0	0	0
037	Isabella County	100	71	68	0	0	0
038	Jackson County	1,600	1,291	1,157	0	0	0
039	Kalamazoo County	900	748	666	0	0	0
040	Kalkaska County	0	0	0	0	0	0
041	Kent County	1,100	913	792	18,100	11,047	8,085
042	Keweenaw Unit	0	0	0	0	0	0
043	Lake County	0	0	0	3,000	2,599	2,589
044	Lapeer County	2,000	1,654	1,487	0	0	0
045	Leelanau County	0	0	0	300	319	317
046	Lenawee County	400	336	291	0	0	0
047	Livingston County	1,400	1,117	982	0	0	0
048	Newberry Unit	0	0	0	0	0	0
050	Macomb County	200	143	129	4,000	2,725	2,183
051	Manistee County	0	0	0	3,000	2,720	2,706
053	Mason County	0	0	0	5,000	4,577	3,875
054	Mecosta County	200	164	163	0	0	0
055	Menominee Unit	2,000	1,723	1,328	9,000	5,839	4,603
056	Midland County	1,500	1,266	1,142	0	0	0
057	Missaukee County	0	0	0	3,200	2,842	2,481
058	Monroe County	200	147	146	1,800	1,612	1,204
059	Montcalm County	1,500	1,282	1,084	0	0	0
060	Montmorency County	5,000	4,109	3,411	0	0	0
061	Muskegon County	800	669	668	0	0	0
063	Oakland County	2,500	2,035	1,711	0	0	0
064	Oceana County	500	508	506	4,500	4,060	3,236
065	Ogemaw County	1,000	874	869	7,000	6,019	4,631
066	Ontonagon County	0	0	0	0	0	0
067	Osceola County	0	0	0	5,000	4,494	3,841
068	Oscoda County	5,000	4,174	3,484	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]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 2010, 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	400	324	288	0	0	0
071	Presque Isle County	4,000	1,956	1,612	0	0	0
072	Roscommon County	0	0	0	1,000	852	770
073	Saginaw County	200	154	154	0	0	0
074	St. Clair County	700	518	483	9,500	7,856	6,194
075	St. Joseph County	300	246	213	0	0	0
076	Sanilac County	1,500	1,217	949	0	0	0
078	Shiawassee County	200	162	148	0	0	0
079	Tuscola County	2,700	2,202	1,799	0	0	0
080	Van Buren County	200	165	144	0	0	0
081	Washtenaw County	1,500	1,234	1,104	0	0	0
082	Wayne County	100	73	62	1,200	858	736
083	Wexford County	0	0	0	3,400	2,926	2,424
115	Beaver Island	100	80	72	200	170	141
117	Drummond Island	100	92	91	100	87	86
121	Bay De Noc	0	0	0	0	0	0
122	Norway Unit	200	184	157	2,500	861	722
127	Ironwood Unit	0	0	0	0	0	0
131	Twin Lakes Unit	0	0	0	0	0	0
135	Tawas Unit	200	142	122	0	0	0
145	North Manitou Island	0	0	0	0	0	0
149	Round/Bois Blanc Island	0	0	0	0	0	0
152	Gwinn Unit	0	0	0	0	0	0
155	Gladstone Unit	400	312	311	3,000	1,904	1,559
162	South Newaygo County	500	423	423	0	0	0
173	Shiawassee Flats	1,400	936	904	0	0	0
174	St. Clair Flats	400	152	115	300	108	84
245	South Fox Island	0	0	0	0	0	0
249	Trout Lake Unit	0	0	0	0	0	0
252	Rock Unit	0	0	0	0	0	0
255	LaBranche Unit	400	347	344	1,000	856	662
262	North Newaygo County	0	0	0	3,000	2,713	2,554
273	Shiawassee Unit	0	0	0	0	0	0
349	Engadine Unit	0	0	0	0	0	0
452	Core Area	3,000	1,300	1,106	0	0	0
486	Southern Multi-County	0	0	0	500,000	288,488	202,748
487	Northern Multi-County	0	0	0	72,100	25,544	19,968
NA	Deer Management Assistance Permits	NA	NA	NA	NA	7,771	696
NA	Managed Deer Hunt Permits[d]	NA	296	237	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]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 2010, 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	7,321	829	70,406	11,455	1,756	504	1,234	341	2,990	654
003	14,183	1,143	206,459	22,781	4,576	834	3,621	618	8,197	1,203
004	5,378	717	56,772	10,861	1,128	354	1,115	326	2,243	546
005	7,312	824	67,197	11,004	1,681	460	1,735	414	3,416	673
006	8,246	878	114,900	17,710	2,475	560	2,093	453	4,568	802
007	8,051	873	84,905	12,191	347	204	2,170	464	2,517	507
008	13,420	1,116	176,883	20,596	4,121	787	4,255	708	8,376	1,193
009	4,473	642	61,892	11,785	1,008	360	1,312	387	2,320	602
010	4,452	642	44,570	10,454	517	229	984	312	1,501	400
011	5,749	734	95,573	16,313	1,852	521	1,979	483	3,831	845
012	6,421	775	82,366	14,009	3,260	813	2,743	562	6,003	1,159
013	12,397	1,072	183,641	21,744	5,214	881	4,660	733	9,874	1,350
014	6,840	802	110,753	17,413	2,792	701	2,698	565	5,490	1,031
015	4,731	665	55,064	10,627	966	348	1,237	346	2,203	547
016	6,724	796	67,856	10,867	145	133	1,135	339	1,280	377
017	4,202	630	46,329	9,008	65	73	966	326	1,031	334
018	14,792	1,168	169,707	19,774	2,881	588	3,466	613	6,347	942
019	10,182	967	139,792	17,853	4,115	870	3,672	638	7,787	1,246
020	9,814	959	88,831	12,136	798	303	1,016	308	1,814	470
021	8,082	873	79,877	11,628	510	245	1,879	432	2,389	501
022	9,879	960	101,916	14,140	2,324	540	3,251	580	5,575	860
023	9,345	934	142,688	20,013	3,494	741	3,346	635	6,840	1,111
024	5,383	710	50,056	9,353	885	328	1,209	361	2,094	541
025	9,161	923	141,486	19,982	2,210	531	2,900	605	5,110	893
026	13,593	1,117	154,972	17,216	3,404	631	3,090	548	6,494	926
027	3,063	544	27,965	6,771	138	111	783	284	921	313
028	6,067	745	65,939	11,764	621	249	1,059	308	1,680	421
029	9,599	936	108,470	15,299	3,894	761	3,659	652	7,553	1,135
030	10,604	993	130,269	17,130	3,581	711	3,181	597	6,762	1,066
031	4,066	622	35,259	7,109	141	126	1,214	352	1,355	380
032	12,420	1,067	141,074	17,079	5,093	881	4,899	758	9,992	1,382
033	8,762	903	119,037	17,059	3,570	856	2,773	550	6,343	1,161
034	12,376	1,067	163,740	19,792	5,602	974	4,798	746	10,400	1,446

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 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 2010, 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	8,661	903	96,847	15,968	1,891	497	1,404	399	3,295	660
036	3,236	555	26,258	6,074	78	76	1,059	315	1,137	326
037	10,809	990	135,109	17,646	4,470	820	4,047	655	8,517	1,200
038	16,379	1,231	218,701	23,059	5,490	933	5,103	721	10,593	1,353
039	7,992	862	124,825	19,514	2,212	532	2,448	526	4,660	863
040	7,546	843	63,192	10,258	195	133	634	256	829	296
041	16,045	1,207	215,729	23,270	4,429	838	3,774	606	8,203	1,140
042	2,347	471	24,337	6,315	169	142	746	265	915	310
043	16,296	1,228	163,110	18,848	1,663	403	2,169	481	3,832	671
044	15,801	1,204	231,108	25,142	5,378	849	4,529	714	9,907	1,277
045	4,412	637	52,425	10,653	590	234	1,240	353	1,830	458
046	9,039	919	141,998	21,064	3,219	716	3,116	625	6,335	1,135
047	12,185	1,063	166,157	20,194	4,114	856	3,329	605	7,443	1,201
048	4,876	684	43,770	8,199	315	183	934	306	1,249	366
050	4,353	633	58,630	12,464	1,546	495	1,038	306	2,584	635
051	10,381	980	103,389	14,164	1,183	334	1,641	411	2,824	575
053	10,668	983	125,972	16,347	3,596	642	3,104	576	6,700	997
054	13,665	1,117	158,345	19,517	4,076	829	4,103	640	8,179	1,190
055	13,550	1,121	144,796	16,462	3,449	668	5,338	735	8,787	1,061
056	11,414	1,033	157,600	20,409	3,428	728	3,025	586	6,453	1,064
057	10,454	982	100,905	12,903	1,750	434	1,813	418	3,563	638
058	4,437	642	64,227	13,387	362	192	692	286	1,054	385
059	17,714	1,270	230,333	24,010	7,945	1,360	6,355	835	14,300	1,794
060	9,735	959	88,539	13,935	1,444	425	964	311	2,408	553
061	9,550	936	140,790	19,209	2,387	524	1,846	431	4,233	796
063	11,746	1,048	156,829	19,164	2,383	545	3,090	588	5,473	900
064	10,925	1,004	142,732	19,855	2,420	512	2,412	491	4,832	812
065	13,008	1,096	140,052	17,261	2,744	578	2,975	555	5,719	908
066	4,785	677	44,450	8,580	209	134	1,885	437	2,094	458
067	11,613	1,028	119,451	15,106	2,418	501	3,384	573	5,802	838
068	11,195	1,027	98,072	13,694	1,914	477	912	313	2,826	612
069	5,682	733	56,024	9,953	154	114	673	253	827	286

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 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 2010, 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	10,349	968	163,864	21,470	2,540	597	2,790	547	5,330	949
071	9,140	929	87,236	12,301	1,942	521	1,924	437	3,866	725
072	11,254	1,025	111,297	15,118	1,002	328	1,776	415	2,778	574
073	9,037	909	129,245	17,779	2,862	593	2,527	505	5,389	857
074	12,463	1,076	177,176	21,278	2,867	620	2,958	549	5,825	932
075	6,309	773	99,253	15,960	2,774	767	2,021	474	4,795	1,033
076	16,753	1,234	193,354	20,319	6,698	1,028	6,273	849	12,971	1,522
078	10,462	985	167,220	21,844	4,143	839	3,490	621	7,633	1,171
079	15,009	1,176	191,399	21,570	5,158	889	5,210	760	10,368	1,321
080	9,054	921	149,096	20,394	2,638	595	2,668	543	5,306	937
081	11,205	1,022	166,969	21,700	3,753	830	3,559	640	7,312	1,197
082	1,437	364	18,689	5,968	259	167	352	175	611	281
083	10,625	996	95,359	12,591	1,353	407	2,137	476	3,490	671
115	589	233	5,480	3,157	91	88	146	113	237	159
117	1,522	378	11,078	3,500	131	111	241	149	372	185
121	2,553	494	31,861	8,792	133	131	778	290	911	318
122	3,085	539	32,777	7,433	555	264	1,031	334	1,586	431
127	2,843	521	32,379	8,443	108	99	785	276	893	302
131	2,531	490	27,041	6,530	90	113	514	222	604	251
135	561	234	4,312	2,113	30	50	106	99	136	111
145	80	88	509	551	0	0	53	99	53	99
149	491	218	3,715	2,394	53	70	81	86	134	111
152	4,879	677	57,322	10,837	262	151	1,617	391	1,879	438
155	5,186	696	56,050	10,330	840	314	1,438	384	2,278	535
162	9,631	942	97,891	14,332	2,923	746	2,070	498	4,993	1,004
173	2,242	453	22,586	6,635	364	176	473	210	837	286
174	135	114	623	643	79	111	1	0	80	111
245	0	0	0	0	0	0	0	0	0	0
249	5,917	748	53,504	9,252	222	141	761	270	983	304
252	2,271	468	22,986	6,174	105	121	509	216	614	248
255	3,096	540	32,700	7,030	560	244	999	315	1,559	457
262	5,007	685	51,837	9,168	786	279	1,050	317	1,836	466
273	0	0	0	0	0	0	0	0	0	0
349	1,997	438	21,569	6,667	55	70	264	151	319	167
452	8,517	898	77,835	10,837	1,794	484	1,816	414	3,610	729

[a]Harvest estimates do not include deer taken with DMA permits. An additional 5,551 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.