MICHIGAN DEPARTMENT OF NATURAL RESOURCES
Wildlife Report No. 3454
June 2006

Printed by Authority of: P.A. 451 of 1994
Total Number of Copies Printed: 25
Cost per Copy: $2.59
Total Cost: $64.75

Michigan Department of Natural Resources

MICHIGAN DEER HARVEST SURVEY REPORT 2005 SEASONS

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ABSTRACT

A survey of deer hunters was conducted following the 2005 hunting seasons to estimate hunter participation, harvest, and hunting effort. In 2005, an estimated 671,000 hunters spent 10.2 million days afield. Statewide, the number of people hunting deer declined by about 6% and hunting effort declined by about 1% between 2004 and 2005. Hunters harvested nearly 417,000 deer, a decrease of nearly 9% from the number taken in 2004. Statewide, 42% of hunters harvested a deer. About 22% of the hunters took an antlerless deer and 29% took an antlered buck. About 14% of deer hunters harvested two or more deer.

INTRODUCTION

The Michigan Department of Natural Resources (DNR) has 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 by the DNR to accomplish its statutory responsibility. Estimating hunter participation, harvest, and hunting effort are the primary objectives of these surveys. Estimates derived from harvest surveys as well as information from deer harvest check stations, deer pellet group surveys, reports of automobile accidents involving deer, and population modeling are some of the methods used to monitor deer populations and establish harvest regulations.

During 2005, white-tailed deer (*Odocoileus virginianus*) could be harvested primarily during the following hunting seasons: youth, archery, regular firearm, muzzleloader, and late antlerless. In order to harvest a deer, hunters had to possess a hunting license (firearm, archery, combination, or antlerless license) (Table 1).

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

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IC2390-11 (06/01/2006)

A harvest tag was issued as part of the hunting license. Hunters could purchase a maximum of two harvest tags 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 (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 deer during both seasons (Table 1). If two antlered deer were taken, one of these deer needed to have at least one antler with four or more points (qualifying points must be at least one inch).

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 deer management unit (DMU) designated at the time of purchase. Antlerless licenses were available for most of the state except in portions of the Upper Peninsula (UP) and two DMUs in the Lower Peninsula (LP). Antlerless licenses were valid 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 DNR.

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 properties. A private land antlerless deer hunting license was valid for taking antlerless deer only from any privately owned lands within the DMU specified on the license with permission of the landowner. A private land license was not valid on publicly-owned lands or Commercial Forest Lands.

Antlerless licenses for use on public lands were allocated among people that applied for these licenses using a random drawing. In contrast, antlerless licenses for private lands could be purchased directly from a license vendor on a first-come, first-served basis. Hunters could purchase one antlerless license for private lands per day until the license quota had been met.

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 the deer population). 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 firearm, archery, combination, or antlerless deer license for the season in which they were hunting.

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 lottery-style drawings. To use these permits, the hunter also must have purchased a valid deer hunting license.

The youth season was held during September 24-25 on public and private lands statewide. Youths 12-16 years of age could take one deer using either a firearm license, combination license, antlerless license, or DMA permit. Youths participating during this season had to be accompanied by an adult at least 18 years old. All youths 12 and 13 years of age were restricted to archery-only hunting. 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 to November 14 and December 1, 2005, to January 1, 2006). Archery licenses, antlerless licenses, combination licenses, and DMA permits could be used to take deer during the archery seasons using archery equipment.

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

The late antlerless firearm season occurred from December 19, 2005, through January 1, 2006. Hunters pursuing deer during this season had to possess an unused antlerless license (including DMA permits) and were limited to hunting on private land. The area open to hunting during the late antlerless season was limited to 23 counties in the LP.

Deer could also be taken on private lands during the special disabled firearm hunt October 15-16, 2005. Only hunters that were issued a permit to hunt from a standing vehicle could participate in this season, and this study did not attempt to estimate harvest or participation during this limited hunt.

METHODS

Following the 2005 deer hunting seasons, a questionnaire was sent to 50,053 randomly selected individuals who had purchased a hunting license (firearm, archery, antlerless, or combination deer hunting licenses). Hunters receiving the questionnaire were asked to report seasons in which they pursued deer, number of days spent afield, and number of deer harvested. 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 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 confidence limit 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 three groups (strata). The first stratum consisted of people eligible only for the archery, regular firearm, and muzzleloader hunting seasons (N = 557,114). The second stratum consisted of people eligible to hunt during archery, regular firearm, muzzleloader, and late antlerless seasons (N = 128,774). The third stratum consisted of people eligible to hunt during archery, regular firearm, muzzleloader, late antlerless, and youth seasons (N = 26,578). The random sample consisted of 35,903 people from the first stratum, 8,189 from the second stratum, and 5,961 from the third stratum. The stratified sampling design accounted for the varying probabilities of being selected from the three 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, except in the UP where two ecoregions were combined (Albert 1995). Ecoregions are regions having similar soils, vegetation, climate, geology, and physiography. Estimates were also calculated for each DMU (Figure 2, Appendix A). 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 2006, and two follow-up questionnaires were mailed to nonrespondents. To increase the number of questionnaires returned, everybody that returned their questionnaire promptly was eligible to win a prize of a firearm or bow. Although 50,053 people were sent the questionnaire, 1,141 surveys were undeliverable resulting in an adjusted sample size of 48,912. Questionnaires were returned by 33,396 of people receiving the questionnaire (68% 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 previous years. To reduce bias caused by this lower response rate, an adjustment was made on the 2005 estimates to make them

comparable to the 2004 estimates (74% response rate). Estimates of harvest, hunting effort, and hunter numbers were reduced by 1.3, 1.3, and 0.6%, respectively, to make estimates comparable to 2004. These reductions reflected the average decline noted between estimates calculated when 68 and 74% of the responses were used in 2000 and 2001 surveys.

RESULTS

In 2005, 712,466 people purchased a license to hunt deer in Michigan. The number of people buying a license in 2005 declined 6% from 2004 (755,930 people purchased a license in 2004). Most of the people buying a license were male (92%), and the average age of license buyers was 42 years (Figure 3). Nearly 7.5% (53,221) of the license buyers were younger than 17 years old.

The number of 2005 deer harvest tags sold for all license types combined decreased 8% since 2004 (Table 2). License buyers were issued an average of 2.2 harvest tags. About 89% of the license buyers obtained three or fewer harvest tags, and 98% had five or fewer harvest tags (Figure 4). Hunters most frequently obtained antlerless and combination harvest tags (Figure 5). About 49% of the license buyers purchased at least one antlerless license (346,520 people), and 98% of antlerless license buyers purchased three or fewer antlerless licenses (Figure 6).

The number of hunting licenses sold decreased by 10%, while the number of harvest tags issued decreased 8% between 2004 and 2005 (Table 2). The decrease in harvest tags issued was smaller than the decline in license sales because combination licenses included two harvest tags, and combination licenses declined less than other license types.

About 94.2 $\pm$ 0.2% (670,858 hunters) of the people buying a license in 2005 actually spent time hunting deer (Table 3). Most hunters (610,663) pursued deer during the regular firearm season (Figure 7). Statewide, the number of people hunting deer during all seasons combined declined 6%. Hunter numbers declined about 9% in the UP, 9% in the northern LP, and 4% in the southern LP between 2004 and 2005.

Hunter participation declined during the regular firearm (7%), archery (3%), and muzzleloader (3%) seasons (Table 3). The number of people hunting in the youth season was nearly unchanged between 2004 and 2005. In contrast, greater numbers of people hunted during the late antlerless season (33%).

About 46% of the days hunters spent pursuing deer throughout the state occurred in the archery season (Figure 9). About 42% of the hunting effort occurred during the regular firearm season. Nearly 12% of the hunting effort occurred in the muzzleloader and late antlerless seasons. Statewide, hunters devoted an average of 15.2 days afield hunting deer during all seasons combined (Table 4). Archers had the greatest number of days available to hunt deer (78 days) and devoted the greatest number of days afield ($\bar{x}$ = 15.0 days/hunter) (Figure 10, Table 4).

For all seasons combined, hunting effort statewide was virtually unchanged between 2004 and 2005 (Table 3). Hunting effort increased during the late antlerless season but declined during the regular firearm and muzzleloader seasons. Hunting effort during the archery and youth seasons was similar to levels reported in 2004.

Nearly 417,000 deer were harvested in 2005, a decrease of nearly 9% from the number taken in 2004 (Figure 11, Tables 5-6). Statewide, the harvest of antlered bucks decreased 5%, and the antlerless deer harvest decreased 12% from last year (Table 5). Between 2004 and 2005, deer harvest decreased significantly during the youth (25%), archery (11%), and regular firearm (9%) seasons. Harvest in the muzzleloader and late antlerless seasons did not change significantly between 2004 and 2005.

About 58% of the deer harvested (sexes combined) in 2005 were taken during the regular firearm season (Figure 13). Most of the antlerless deer (53%) and antlered bucks (63%) were harvested in the regular firearm season. Hunters took 27% of the harvested deer (sexes combined) during archery season. During the archery season, hunters took 24% of the antlerless deer and 30% of the antlered bucks harvested. Few antlered bucks (6%) were taken in the muzzleloader season. The muzzleloader and antlerless seasons accounted for about 22% of the antlerless deer harvested.

About 87% of the animals harvested (sexes combined) in 2005 were taken on private lands (Table 7). Statewide, most of the antlerless deer (90%) and antlered bucks (84%) were harvested on private lands. Overall, harvest decreased 9% and 8% between 2004 and 2005 on public and private lands, respectively.

Statewide, 42% of the deer hunters harvested at least one deer (all deer seasons and sexes combined) in 2005 (Figure 14, Table 8). About 22% of the hunters took an antlerless deer, and 29% took an antlered buck. About 14% of deer hunters harvested two or more deer.

Hunters were most successful in taking a deer during the regular firearm season (Figure 15, Table 9); 33% of the hunters in this season took a deer. Nearly 22% of the hunters took an antlered buck and 15% harvested an antlerless deer during the regular firearm season. Hunter success was lowest in the muzzleloader season (20% successful).

ACKNOWLEDGEMENTS

I thank all the deer hunters that provided information. Dona Rumrill, Jaclyn Mapes, Theresa Riebow and Becky Walker completed data entry. Rod Clute, Pat Lederle, Bill Moritz, Cheryl Nelson-Fliearman, and Brent Rudolph reviewed a previous version of this report.

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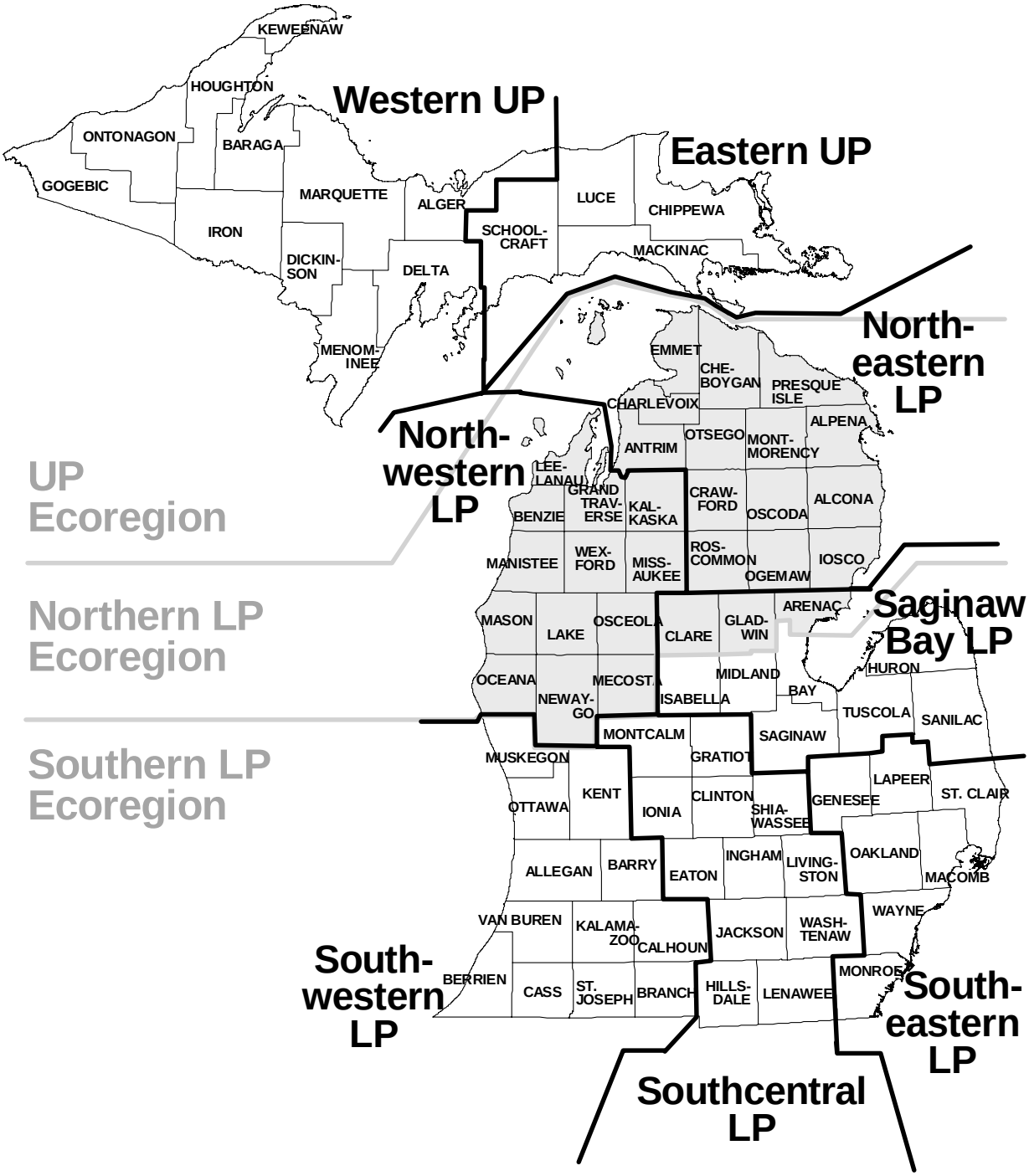

Figure 1. Areas used to summarize deer harvest in Michigan for the 2005 hunting seasons.

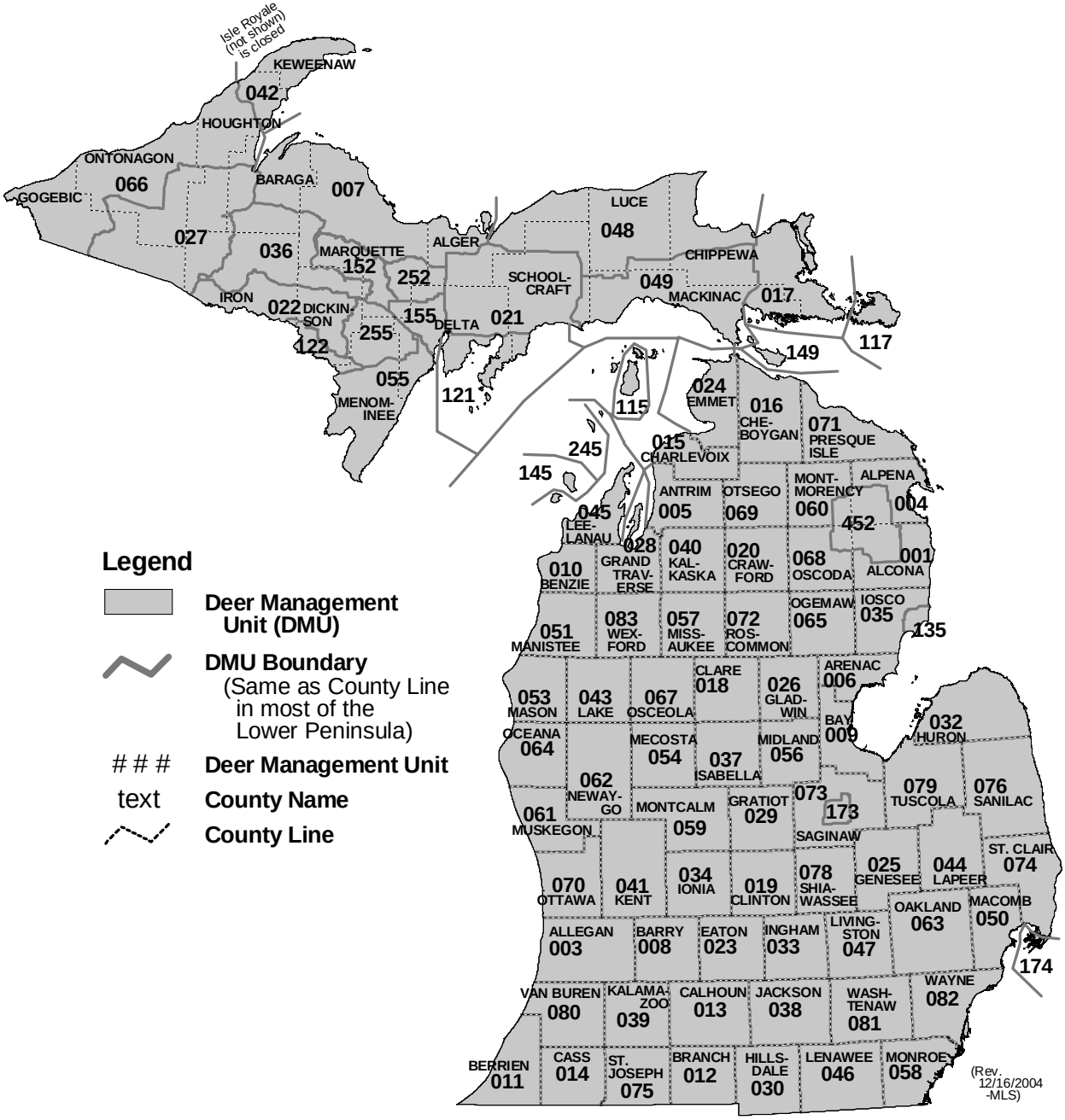

Figure 2. Deer Management Units in Michigan for the 2005 hunting seasons.

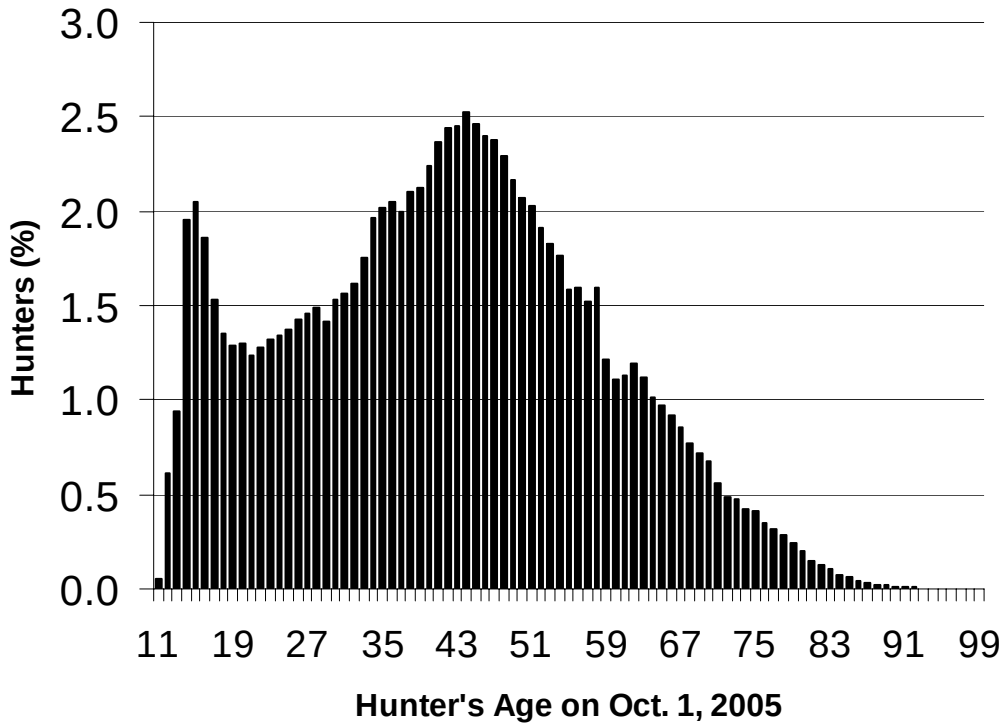

Figure 3. Age of people that purchased a deer hunting license in Michigan for the 2005 hunting seasons ($\bar{x}$ = 42 years).

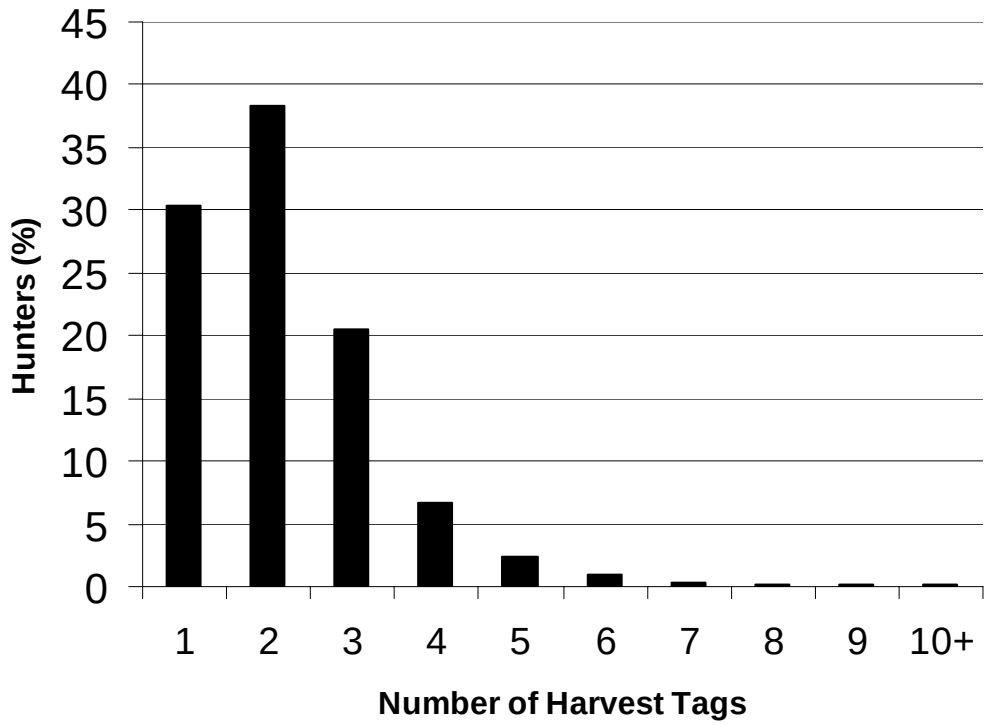

Figure 4. Number of harvest tags (all license and tag types) issued per person for hunting deer in Michigan during the 2005 hunting seasons ($\bar{x}$ = 2.2 tags). Licenses were purchased by 712,466 people.

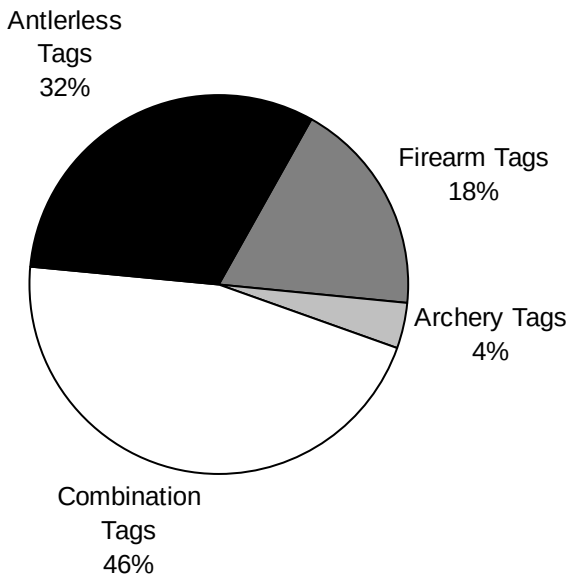

Figure 5. Types of harvest tags issued for deer hunting in Michigan during the 2005 hunting seasons.

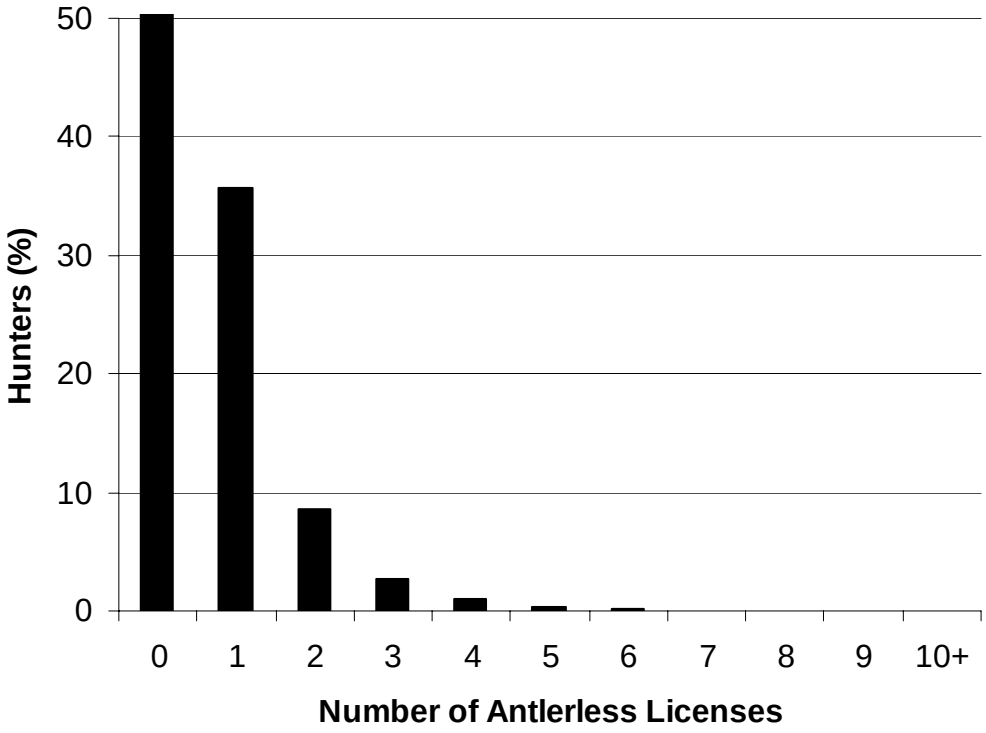

Figure 6. Percentage of deer hunting license buyers (all license types) purchasing an antlerless license in Michigan, 2005. Antlerless licenses were purchased by 346,520 of 712,466 people (49%) buying deer hunting licenses.

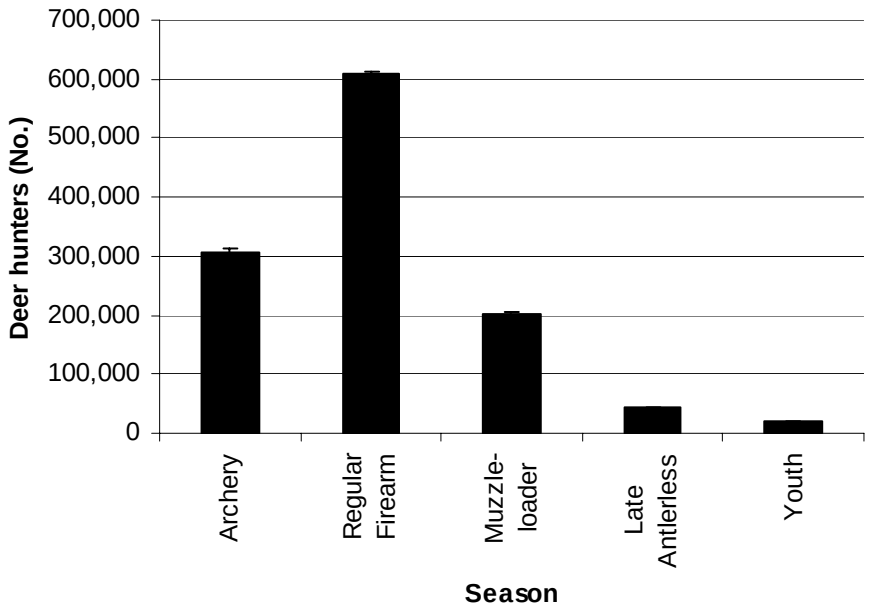

Figure 7. Number of people hunting deer in Michigan during the 2005 hunting seasons. Error bars represent the 95% confidence limits.

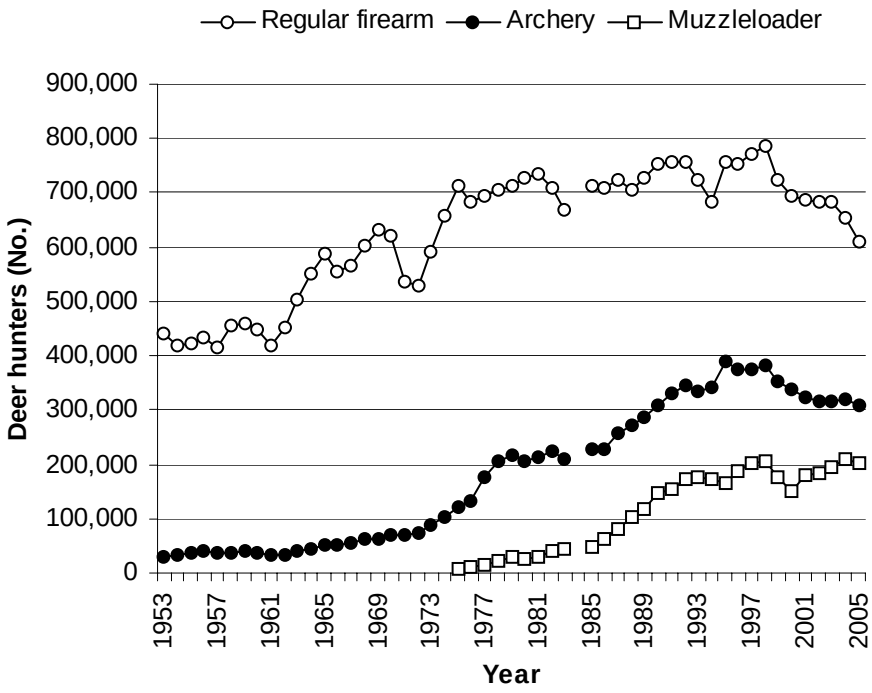

Figure 8. Number of people hunting deer in Michigan during the regular firearm, archery, and muzzleloader seasons, 1953-2005.

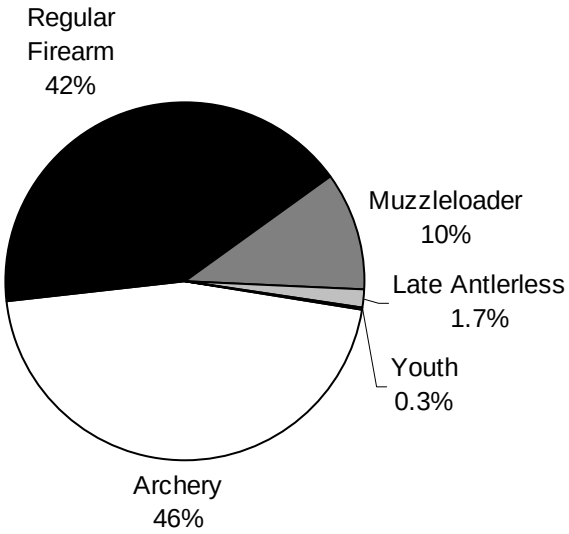

Figure 9. Distribution of hunting effort among deer hunting seasons in Michigan, 2005.

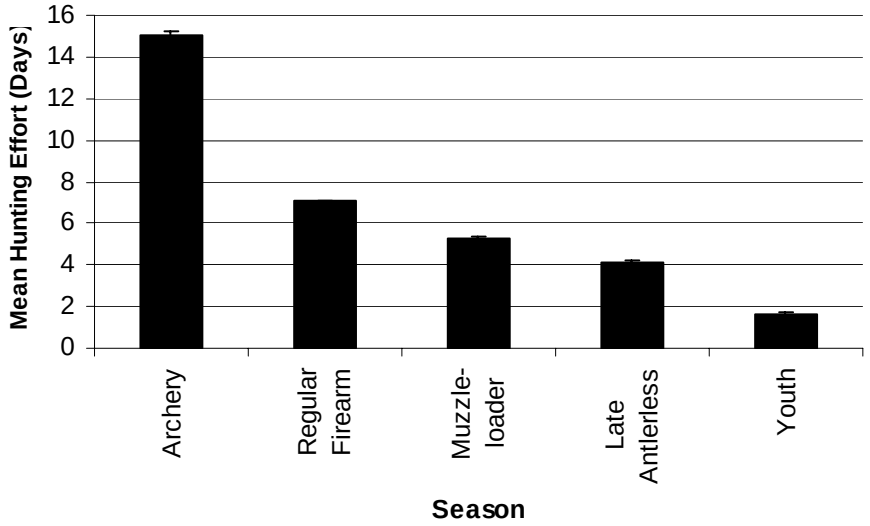

Figure 10. Mean number of days spent hunting deer in Michigan during the 2005 hunting seasons. Error bars represent the 95% confidence limits.

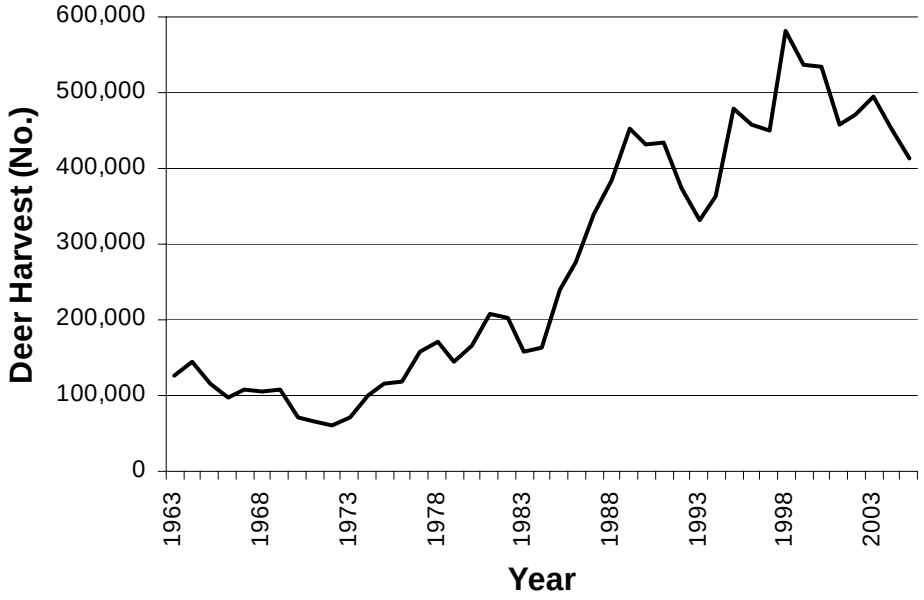

Figure 11. Number of deer harvested in Michigan's hunting seasons, 1963-2005. Harvest from all seasons and for all deer sexes was combined.

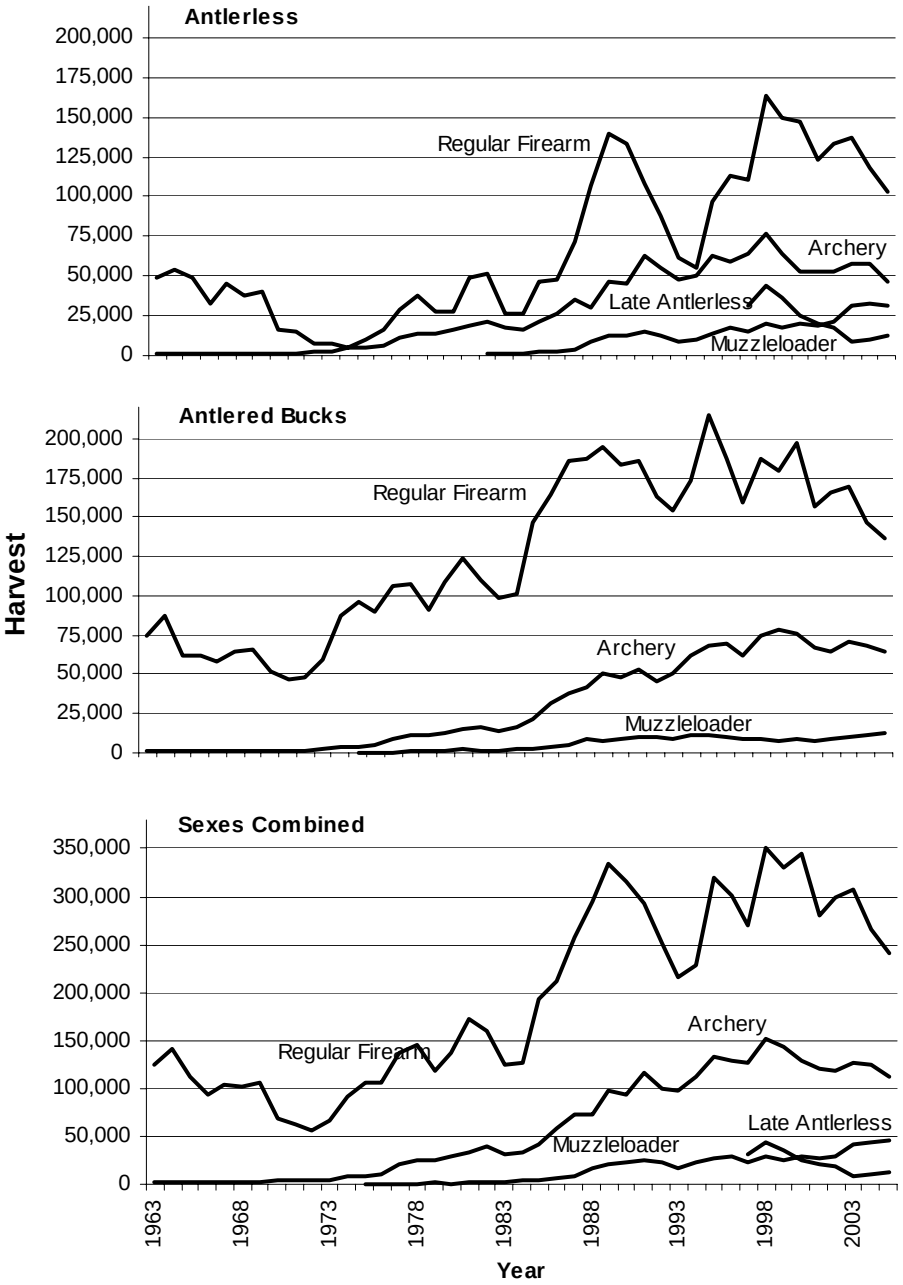

Figure 12. Number of deer harvested in Michigan's hunting seasons, 1963-2005. Harvests for early antlerless, early antlerless in DMU 055, and youth seasons were not shown.

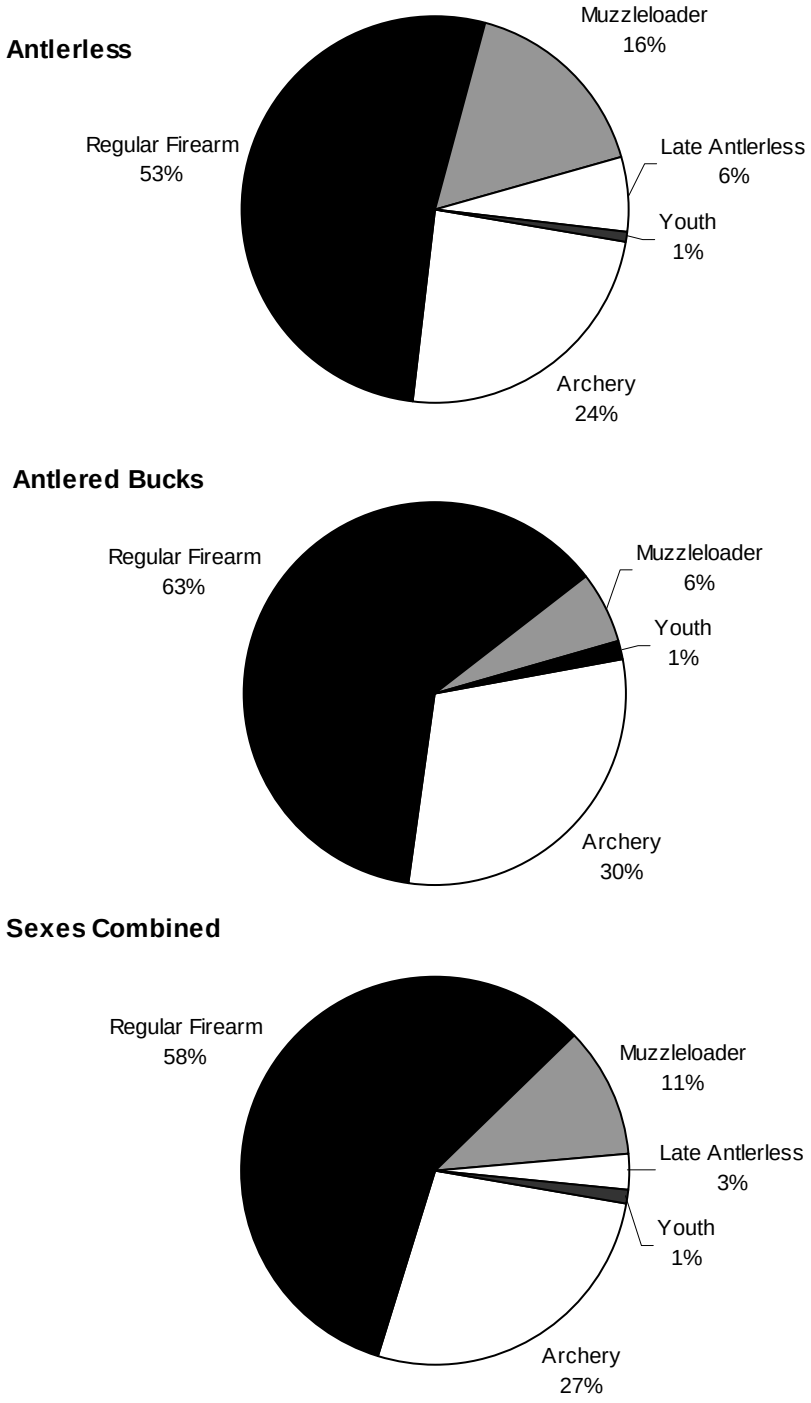

Figure 13. Distribution of harvest among deer hunting seasons in Michigan, 2005. Antlered deer had antlers at least 3 inches in length; antlerless deer included deer without antlers and deer with antlers less than 3 inches in length.

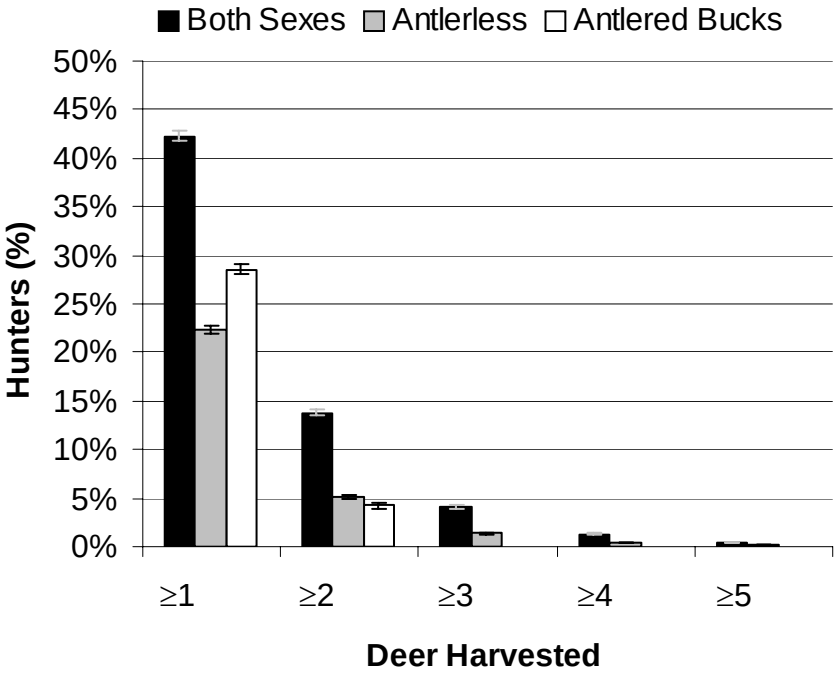

Figure 14. Percentage of hunters harvesting a deer in Michigan, 2005. Error bars represent the 95% confidence limits.

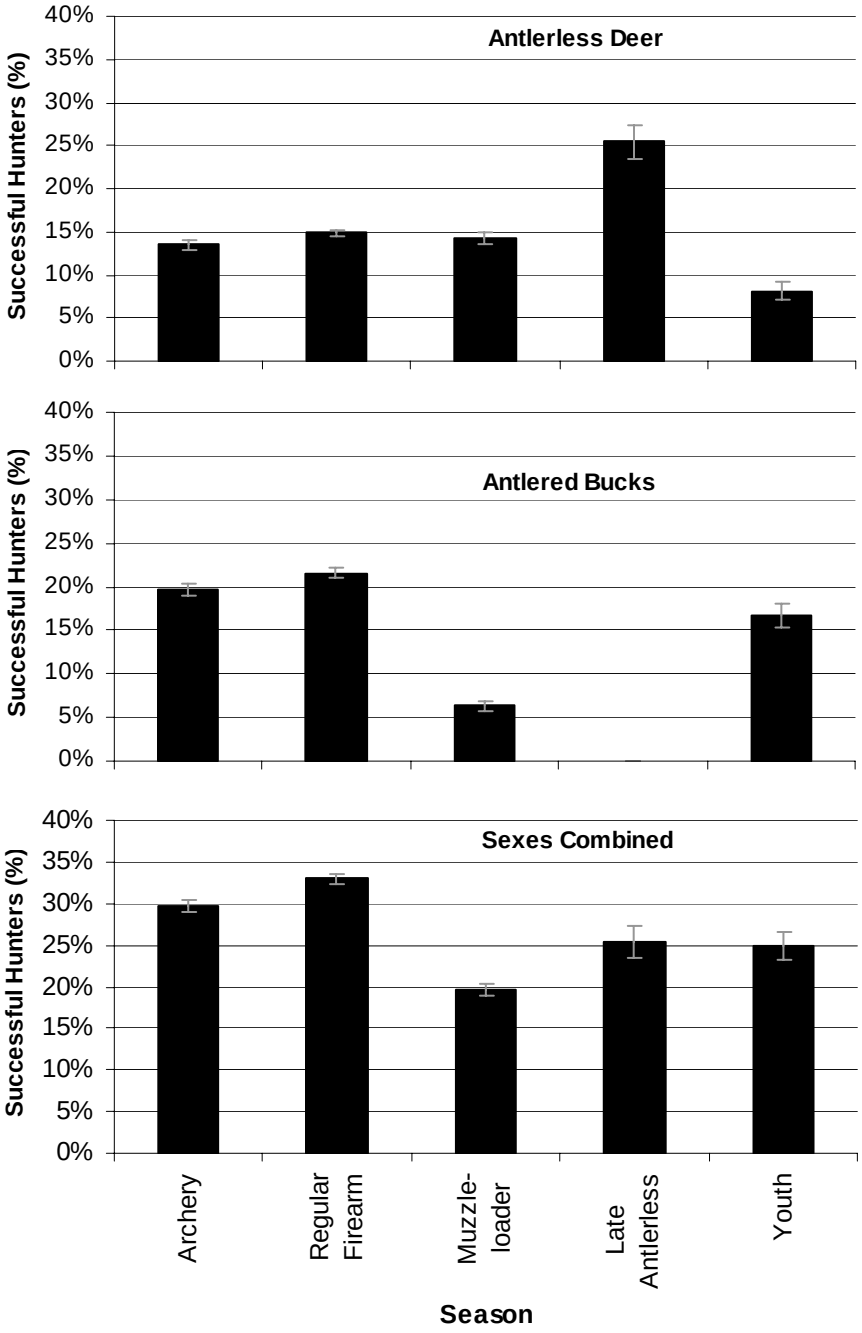

Figure 15. Percentage of hunters harvesting a deer in Michigan's deer hunting seasons, 2005. Error bars represent the 95% confidence limits. Antlered deer had antlers at least 3 inches in length; antlerless deer included deer without antlers and deer with antlers less than 3 inches in length.

Table 1. Kind of deer that could be taken during the 2005 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, Youth[c], or Muzzleloading seasons	Antlered deer only[b]
Combination License[d] (Regular harvest tag)	Archery season	Antlerless or antlered deer
Combination License[d] (Regular harvest tag)	Regular Firearm, Youth, or Muzzleloading seasons	Antlered deer only
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 Muzzleloading seasons	A deer that 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); maximum antlerless limit varied by region of the state.

[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, 1 or more inches in length.

[c]All youths 12 and 13 years of age were restricted to archery-only hunting. Hunters could harvest only 1 deer in the youth 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 kills 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, 2003-2005.

Licenses or Harvest Tags	Number Purchased or Issued 2003	2004	2005	Change Between 2004 and 2005 (%)
Firearm Licenses				
Resident	296,570	267,661	244,210	-8.8
Non-resident	14,791	13,229	12,107	-8.5
Senior	32,719	32,638	31,967	-2.1
Military	27	444	559	25.9
Subtotal	344,107	313,972	288,843	-8.0
Archery Licenses				
Resident	51,724	47,984	44,486	-7.3
Non-resident	3,122	2,840	2,853	0.5
Junior	8,946	8,337	7,653	-8.2
Senior	3,182	3,166	3,103	-2.0
Military	19	135	161	19.3
Subtotal	66,993	62,462	58,256	-6.7
Combination Licenses[a]				
Resident	309,319	307,592	294,660	-4.2
Non-resident	1,688	1,738	1,637	-5.8
Junior	33,040	33,895	33,179	-2.1
Senior	27,650	29,074	30,050	3.4
Military	157	356	649	82.3
Subtotal	371,854	372,655	360,175	-3.3
Antlerless Licenses[b]				
Resident	575,077	568,138	484,734	-14.7
Non-resident	4,930	4,824	3,413	-29.2
Junior	4,941	4,667	4,084	-12.5
Military	23	266	486	82.7
Deer Management Assistance	6,434	6,728	5,182	-23.0
Managed Deer Hunt	0	0	1,156	
Subtotal	591,405	584,623	499,055	-14.6
Total Licenses Sold	1,374,359	1,333,712	1,206,329	-9.6
Harvest Tags Issued				
Firearm	344,107	313,972	288,843	-8.0
Archery	66,993	62,462	58,256	-6.7
Combination	743,708	745,310	720,350	-3.3
Antlerless	631,734	584,623	499,055	-14.6
Total Harvest Tags	1,786,542	1,706,367	1,566,504	-8.2

[a]Combination licenses included two harvest tags. Other license types had one harvest tag.
[b]In 2003, two harvest tags were issued with 40,329 antlerless licenses sold for eight management units in northeast LP.

Table 3. Number of deer hunters and hunting effort in Michigan by hunting season, 2004-2005.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2004	2005	95% CL[b]	Change from 2004 to 2005 (%)	2004	2005	95% CL[b]	Change from 2004 to 2005 (%)
Archery								
West UP	23,496	21,310	1,297	-9.3	261,903	243,633	19,493	-7.0
East UP	9,612	8,676	837	-9.7	94,942	95,564	12,704	0.7
NE LP	49,372	44,701	1,845	-9.5*	502,677	482,460	27,619	-4.0
NW LP	63,253	61,339	2,123	-3.0	759,157	739,630	34,393	-2.6
Sag. Bay	56,803	58,207	2,077	2.5	718,878	777,534	37,242	8.2
SW LP	57,171	55,507	2,018	-2.9	799,367	792,853	37,038	-0.8
SC LP	67,073	65,620	2,183	-2.2	929,624	929,520	40,615	0.0
SE LP	37,537	34,989	1,638	-6.8	512,910	473,299	29,306	-7.7
UP	32,899	29,691	2,581	-9.8	356,844	339,197	23,267	-4.9
NLP	129,047	123,479	3,612	-4.3	1,505,356	1,476,445	48,935	-1.9
SLP	189,839	186,011	3,589	-2.0	2,717,256	2,718,850	69,414	0.1
Statewide[c]	318,161	307,928	3,753	-3.2*	4,579,457	4,534,492	88,289	-1.0
Regular Firearm								
West UP	78,293	70,613	2,266	-9.8*	588,690	517,557	19,673	-12.1*
East UP	27,673	25,909	1,428	-6.4	189,923	178,220	11,368	-6.2
NE LP	121,369	107,871	2,735	-11.1*	732,052	672,535	21,112	-8.1*
NW LP	129,837	117,757	2,797	-9.3*	772,457	718,490	21,606	-7.0*
Sag. Bay	101,342	97,387	2,612	-3.9	618,802	609,953	20,211	-1.4
SW LP	97,750	93,621	2,518	-4.2	633,793	623,466	20,815	-1.6
SC LP	116,149	109,698	2,725	-5.6*	708,498	699,288	21,825	-1.3
SE LP	43,555	40,727	1,759	-6.5	250,649	243,356	12,606	-2.9
UP	105,292	95,993	1,521	-8.8*	778,613	695,777	22,722	-10.6*
NLP	281,152	254,180	2,868	-9.6*	1,715,448	1,596,165	32,405	-7.0*
SLP	313,003	299,711	3,285	-4.2*	2,000,802	1,970,923	36,599	-1.5
Statewide[c]	652,798	610,663	2,572	-6.5*	4,494,864	4,262,864	54,224	-5.2*

[a]Excludes people that did not hunt during the season.
[b]95% confidence limit for the 2005 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, 2004-2005.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2004	2005	95% CL[b]	Change from 2004 to 2005 (%)	2004	2005	95% CL[b]	Change from 2004 to 2005 (%)
Muzzleloader								
West UP	18,543	16,347	1,146	-11.8	92,537	82,921	6,466	-10.4
East UP	7,125	7,314	772	2.7	34,430	37,364	4,321	8.5
NE LP	26,165	24,092	1,382	-7.9	110,184	107,117	7,075	-2.8
NW LP	29,965	27,566	1,469	-8.0	118,038	125,591	7,818	6.4
Sag. Bay	35,175	35,554	1,659	1.1	143,953	168,302	9,434	16.9*
SW LP	39,852	39,963	1,739	0.3	170,073	208,941	11,067	22.9*
SC LP	43,574	42,923	1,807	-1.5	179,314	215,519	11,190	20.2*
SE LP	19,724	19,961	1,256	1.2	79,932	98,754	7,546	23.5*
UP	25,537	23,593	1,368	-7.6	126,968	120,285	7,776	-5.3
NLP	66,015	61,335	2,139	-7.1*	271,024	276,789	11,460	2.1
SLP	124,191	124,621	2,834	0.3	530,469	647,435	19,325	22.0*
Statewide[c]	207,666	202,138	3,411	-2.7	928,461	1,044,509	23,897	12.5*
Late Antlerless								
West UP	0	0	0		0	0	0	
East UP	0	0	0		0	0	0	
NE LP	3,848	3,599	537	-6.5	14,927	14,164	2,638	-5.1
NW LP	0	0	0		0	0	0	
Sag. Bay	2,412	6,199	694	157.0*	10,327	22,690	3,178	119.7*
SW LP	12,955	15,231	1,049	17.6*	53,216	61,680	5,437	15.9
SC LP	9,752	12,481	961	28.0*	38,866	47,705	4,709	22.7
SE LP	2,844	5,078	632	78.6*	10,960	20,395	3,045	86.1*
UP	0	0	0		0	0	0	
NLP	3,848	3,599	537	-6.5	14,927	14,164	2,638	-5.1
SLP	27,619	38,372	1,496	38.9*	113,368	152,470	8,433	34.5*
Statewide[c]	31,898	42,467	1,541	33.1*	128,295	166,634	8,864	29.9*

[a]Excludes people that did not hunt during the season.
[b]95% confidence limit for the 2005 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, 2004-2005.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2004	2005	95% CL[b]	Change from 2004 to 2005 (%)	2004	2005	95% CL[b]	Change from 2004 to 2005 (%)
Youth								
West UP	676	691	139	2.2	1,158	1,094	227	-5.5
East UP	273	191	71	-30.0	474	333	128	-29.6
NE LP	1,823	1,965	221	7.8	3,230	3,255	392	0.8
NW LP	4,034	3,117	274	-22.7*	6,890	5,230	501	-24.1*
Sag. Bay	4,077	3,833	299	-6.0	6,775	6,246	543	-7.8
SW LP	3,194	3,228	281	1.0	5,239	5,183	488	-1.1
SC LP	4,327	4,518	317	4.4	6,929	7,503	594	8.3
SE LP	1,654	1,766	210	6.8	2,708	2,946	372	8.8
UP	934	882	155	-5.6	1,632	1,428	260	-12.5
NLP	7,035	6,115	359	-13.1*	12,172	10,245	703	-15.8*
SLP	11,960	12,257	424	2.5	19,599	20,118	967	2.6
Statewide[c]	19,947	19,261	388	-3.4	33,402	31,791	1,227	-4.8
All Seasons								
West UP	87,490	78,859	2,376	-9.9*	945,779	844,498	35,922	-10.7*
East UP	31,885	29,836	1,527	-6.4	319,633	311,248	22,861	-2.6
NE LP	137,084	121,980	2,869	-11.0*	1,379,058	1,279,050	46,013	-7.3*
NW LP	149,424	137,460	2,965	-8.0*	1,656,773	1,588,998	52,690	-4.1
Sag. Bay	120,310	116,171	2,801	-3.4	1,499,002	1,585,024	57,305	5.7
SW LP	116,544	110,924	2,694	-4.8*	1,661,775	1,692,328	60,078	1.8
SC LP	137,266	130,898	2,916	-4.6*	1,863,553	1,899,923	63,986	2.0
SE LP	61,379	57,383	2,055	-6.5	857,641	839,222	43,229	-2.1
UP	118,192	107,343	2,701	-9.2*	1,265,412	1,155,745	42,579	-8.7*
NLP	317,687	290,246	3,694	-8.6*	3,535,268	3,373,497	76,810	-4.6*
SLP	372,108	356,902	3,627	-4.1*	5,382,533	5,511,048	108,856	2.4
Statewide[c]	712,894	670,858	1,701	-5.9*	10,183,213	10,040,291	140,322	-1.4

[a]Excludes people that did not hunt during the season.
[b]95% confidence limit for the 2005 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, 2005.[a]

	Season											
	Archery		Regular Firearm		Muzzle-loader		Late Antlerless		Youth		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]	$\bar{x}$ days	95% CL[b]
West UP	11.4	0.6	7.3	0.1	5.1	0.2	0.0	0.0	1.6	0.1	10.7	0.3
East UP	11.0	1.0	6.9	0.2	5.1	0.3	0.0	0.0	1.8	0.1	10.4	0.6
NE LP	10.9	0.4	6.3	0.1	4.5	0.1	4.1	0.4	1.7	0.1	10.6	0.3
NW LP	12.1	0.4	6.1	0.1	4.6	0.2	0.0	0.0	1.7	0.0	11.5	0.3
Sag. Bay	13.5	0.4	6.3	0.1	4.8	0.2	3.7	0.3	1.6	0.0	13.7	0.4
SW LP	14.5	0.4	6.7	0.1	5.3	0.2	4.2	0.2	1.6	0.0	15.3	0.4
SC LP	14.4	0.4	6.4	0.1	5.1	0.2	4.0	0.2	1.7	0.0	14.6	0.4
SE LP	13.7	0.6	6.0	0.2	5.0	0.2	4.2	0.3	1.7	0.1	14.7	0.5
UP	11.4	0.5	7.2	0.1	5.1	0.1	0.0	0.0	1.6	0.1	10.7	0.3
NLP	12.1	0.3	6.3	0.1	4.6	0.1	4.1	0.4	1.7	0.0	11.7	0.2
SLP	14.8	0.2	6.6	0.1	5.3	0.1	4.1	0.1	1.6	0.0	15.5	0.2
Statewide	15.0	0.2	7.1	0.0	5.3	0.1	4.1	0.1	1.7	0.0	15.2	0.2

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

Table 5. Number of deer harvested in Michigan, 2003-2005.

Season or permit	Type of deer	2003	2004	2005	Change from 2004 to 2005 (%)
Season					
Archery	Antlerless	57,299	57,658	46,725	-19.0
	Antlered bucks	70,292	67,719	64,784	-4.3
	Sexes combined	127,592	125,377	111,508	-11.1
Regular firearm	Antlerless	136,625	118,028	103,439	-12.4
	Antlered bucks	169,720	146,793	137,158	-6.6
	Sexes combined	306,345	264,821	240,597	-9.1
Muzzleloader	Antlerless	31,684	32,215	31,823	-1.2
	Antlered bucks	10,589	10,793	12,919	19.7
	Sexes combined	42,273	43,008	44,742	4.0
Early antlerless[a]	Antlerless	2,875	1,640	0	
Late antlerless	Antlerless	9,165	9,905	12,015	21.3
Youth	Antlerless	2,325	1,991	1,553	-22.0
	Antlered bucks	3,872	4,350	3,197	-26.5
	Sexes combined	6,197	6,341	4,750	-25.1
DMU 055[a]	Antlerless	798	713	0	
Special permits[b]	Antlerless	4,502	4,617	3,640	-21.2
Grand Total	Antlerless	245,274	226,768	199,194	-12.2
	Antlered bucks	254,473	229,654	218,057	-5.0
	Sexes combined	499,747	456,422	417,251	-8.6

[a]Season did not occur in 2005.
[b]Includes deer harvested with DMA permits. These permits could be used during any deer hunting season.

Table 6. Number of deer harvested in Michigan by hunting season, 2004-2005.[a]

Season and Area	Antlerless 2004 Harvest	Antlerless 2005 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2004 to 2005 (%)	Antlered Bucks 2004 Harvest	Antlered Bucks 2005 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2004 to 2005 (%)	Sexes Combined 2004 Harvest	Sexes Combined 2005 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2004 to 2005 (%)
Archery												
West UP	5,184	3,345	572	-35.5*	2,948	2,873	501	-2.5	8,130	6,215	796	-23.6*
East UP	1,336	1,195	327	-10.5	1,026	928	280	-9.6	2,362	2,122	444	-10.2
NE LP	5,560	4,051	609	-27.1*	4,994	3,991	575	-20.1	10,553	8,039	885	-23.8*
NW LP	8,276	6,816	796	-17.6	9,546	9,493	909	-0.6	17,822	16,309	1,296	-8.5
Sag. Bay	9,429	7,556	858	-19.9*	11,160	11,118	992	-0.4	20,588	18,674	1,407	-9.3
SW LP	10,006	8,858	979	-11.5	13,172	13,315	1,104	1.1	23,179	22,174	1,639	-4.3
SC LP	11,485	10,788	1,044	-6.1	17,524	17,522	1,288	0.0	29,011	28,313	1,839	-2.4
SE LP	6,381	4,116	592	-35.5*	7,350	5,545	696	-24.6*	13,731	9,661	979	-29.6*
UP	6,520	4,540	659	-30.4*	3,974	3,800	574	-4.4	10,492	8,337	911	-20.5*
NLP	17,258	13,489	1,125	-21.8*	17,268	16,672	1,199	-3.5	34,525	30,159	1,753	-12.6*
SLP	33,879	28,695	1,696	-15.3*	46,477	44,312	2,016	-4.7	80,360	73,012	2,898	-9.1*
Statewide	57,658	46,725	2,147	-19.0*	67,719	64,784	2,420	-4.3	125,377	111,508	3,519	-11.1*
Regular Firearm												
West UP	8,858	7,799	893	-12.0	19,287	19,147	1,292	-0.7	28,151	26,965	1,687	-4.2
East UP	1,386	1,310	339	-5.5	4,821	4,987	648	3.4	6,210	6,305	753	1.5
NE LP	13,595	11,726	1,027	-13.8	20,306	18,700	1,265	-7.9	33,904	30,433	1,723	-10.2*
NW LP	16,832	11,345	1,106	-32.6*	21,550	20,478	1,333	-5.0	38,382	31,835	1,833	-17.1
Sag. Bay	20,379	19,010	1,383	-6.7	22,884	22,034	1,385	-3.7	43,261	41,038	2,137	-5.1
SW LP	22,697	20,504	1,455	-9.7	22,017	20,152	1,340	-8.5	44,710	40,640	2,166	-9.1
SC LP	27,521	26,358	1,657	-4.2	29,726	25,834	1,516	-13.1*	57,243	52,171	2,451	-8.9
SE LP	6,760	5,388	694	-20.3	6,201	5,825	717	-6.1	12,959	11,210	1,057	-13.5
UP	10,244	9,109	956	-11.1	24,108	24,134	1,446	0.1	34,360	33,270	1,848	-3.2
NLP	36,429	28,784	1,675	-21.0*	48,320	45,635	1,983	-5.6	84,751	74,436	2,765	-12.2*
SLP	71,355	65,546	2,594	-8.1*	74,365	67,389	2,443	-9.4*	145,709	132,891	3,882	-8.8*
Statewide	118,028	103,439	3,256	-12.4%*	146,793	137,158	3,478	-6.6%*	264,821	240,597	5,141	-9.1%*

[a]Harvest estimates do not include deer taken with DMA permits. An additional 3,640 deer were taken with these permits.
[b]95% confidence limit for the 2005 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2004-2005.[a]

Season and Area	Antlerless 2004 Harvest	Antlerless 2005 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2004 to 2005 (%)	Antlered Bucks 2004 Harvest	Antlered Bucks 2005 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2004 to 2005	Sexes Combined 2004 Harvest	Sexes Combined 2005 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2004 to 2005
Muzzleloader												
West UP	2,548	2,071	464	-18.7	1,114	1,220	318	9.5	3,661	3,290	585	-10.1
East UP	710	509	237	-28.2	562	411	183	-26.8	1,270	920	299	-27.6
NE LP	2,623	2,684	508	2.3	962	1,344	327	39.7	3,585	4,028	640	12.4
NW LP	2,855	2,917	543	2.2	937	877	264	-6.4	3,791	3,795	625	0.1
Sag. Bay	6,482	5,789	779	-10.7	1,622	2,184	427	34.6	8,105	7,973	906	-1.6
SW LP	6,151	6,340	768	3.1	2,338	2,759	473	18.0	8,488	9,099	933	7.2
SC LP	8,531	8,977	944	5.2	2,149	3,001	514	39.6	10,682	11,980	1,108	12.1
SE LP	2,316	2,535	485	9.4	1,108	1,123	304	1.3	3,424	3,658	595	6.8
UP	3,257	2,581	521	-20.8	1,676	1,631	367	-2.7	4,932	4,210	657	-14.6
NLP	7,402	6,975	832	-5.8	2,190	2,754	469	25.8	9,593	9,730	991	1.4
SLP	21,556	22,267	1,477	3.3	6,926	8,534	848	23.2	28,483	30,802	1,758	8.1
Statewide	32,215	31,823	1,784	-1.2	10,793	12,919	1,044	19.7*	43,008	44,742	2,137	4.0
Late Antlerless												
West UP	0	0	0		0	0			0	0	0	
East UP	0	0	0		0	0			0	0	0	
NE LP	1,110	1,069	313	-3.7	0	0			1,110	1,069	313	-3.7
NW LP	0	0	0		0	0			0	0	0	
Sag. Bay	515	1,811	430	251.6*	0	0			515	1,811	430	251.6*
SW LP	4,347	4,437	666	2.1	0	0			4,347	4,437	666	2.1
SC LP	2,890	3,277	581	13.4	0	0			2,890	3,277	581	13.4
SE LP	1,043	1,420	395	36.1	0	0			1,043	1,420	395	36.1
UP	0	0	0		0	0			0	0	0	
NLP	1,110	1,069	313	-3.7	0	0			1,110	1,069	313	-3.7
SLP	8,795	10,946	1,060	24.5*	0	0			8,795	10,946	1,060	24.5*
Statewide	9,905	12,015	1,109	21.3	0	0			9,905	12,015	1,109	21.3

[a]Harvest estimates do not include deer taken with DMA permits. An additional 3,640 deer were taken with these permits.
[b]95% confidence limit for the 2005 estimate.
*P<0.005.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2004-2005.[a]

Season and Area	Antlerless 2004 Harvest	Antlerless 2005 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2004 to 2005 (%)	Antlered Bucks 2004 Harvest	Antlered Bucks 2005 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2004 to 2005 (%)	Sexes Combined 2004 Harvest	Sexes Combined 2005 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2004 to 2005 (%)
Youth												
West UP	44	70	56	58.7	101	175	68	73.8	145	245	88	69.2
East UP	43	24	25	-44.6	50	24	25	-52.6	93	48	35	-48.9
NE LP	243	175	68	-28.3	288	223	77	-22.6	531	397	102	-25.2
NW LP	429	167	66	-61.2*	870	493	114	-43.3*	1,300	660	132	-49.3*
Sag. Bay	401	262	83	-34.7	1,007	716	137	-28.9*	1,407	977	160	-30.5*
SW LP	322	316	98	-1.8	582	366	98	-37.2*	905	682	139	-24.6
SC LP	394	397	102	0.8	1,165	946	158	-18.8	1,558	1,343	188	-13.8
SE LP	115	143	61	24.7	288	254	82	-11.5	402	397	102	-1.2
UP	87	94	61	7.8	151	199	72	31.7	238	293	95	22.9
NLP	809	444	108	-45.1*	1,431	883	152	-38.3*	2,240	1,327	187	-40.8*
SLP	1,095	1,014	167	-7.4	2,768	2,115	236	-23.6*	3,863	3,130	289	-19.0*
Statewide	1,991	1,553	209	-22.0*	4,350	3,197	291	-26.5*	6,341	4,750	358	-25.1*
All Seasons												
West UP	17,312	13,284	1,259	-23.3*	23,445	23,399	1,463	-0.2	40,760	36,699	2,119	-10.0
East UP	3,478	3,041	578	-12.6	6,457	6,346	757	-1.7	9,937	9,392	1,006	-5.5
NE LP	24,762	19,698	1,431	-20.4*	26,547	24,246	1,484	-8.7	51,310	43,949	2,292	-14.3*
NW LP	28,401	21,251	1,598	-25.2*	32,903	31,349	1,704	-4.7	61,307	52,614	2,566	-14.2*
Sag. Bay	37,219	34,424	2,055	-7.5	36,673	36,053	1,867	-1.7	73,891	70,473	3,143	-4.6
SW LP	43,525	40,455	2,309	-7.1	38,111	36,597	1,922	-4.0	81,632	77,036	3,476	-5.6
SC LP	50,831	49,792	2,572	-2.0	50,568	47,315	2,201	-6.4	101,398	97,092	3,910	-4.2
SE LP	16,623	13,610	1,259	-18.1*	14,949	12,752	1,105	-14.7	31,570	26,357	1,887	-16.5*
UP	20,789	16,325	1,385	-21.5*	29,903	29,745	1,647	-0.5	50,697	46,091	2,345	-9.1
NLP	64,653	50,763	2,377	-21.5*	69,207	65,941	2,468	-4.7	133,862	116,721	3,803	-12.8*
SLP	136,708	128,466	4,088	-6.0	130,544	122,372	3,501	-6.3*	267,246	250,799	6,179	-6.2*
Statewide	222,151	195,554	4,959	-12.0*	229,654	218,057	4,608	-5.0*	451,805	413,611	7,666	-8.5*

[a]Harvest estimates do not include deer taken with DMA permits. An additional 3,640 deer were taken with these permits.
[b]95% confidence limit for the 2005 estimate.
*P<0.005.

Table 7. Number of deer harvested on public and private lands during all seasons combined in Michigan by management region, 2004-2005.[a]

Season and Area	Antlerless 2004 Harvest	Antlerless 2005 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2004 to 2005 (%)	Antlered Bucks 2004 Harvest	Antlered Bucks 2005 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2004 to 2005 (%)	Sexes Combined 2004 Harvest	Sexes Combined 2005 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2004 to 2005 (%)
Public Lands												
West UP	4,426	3,110	566	-29.7*	8,550	7,654	828	-10.5	12,977	10,770	1,057	-17.0*
East UP	639	442	207	-30.8	2,703	2,191	455	-18.9	3,344	2,637	511	-21.1
NE LP	4,982	3,844	588	-22.8	7,304	6,035	727	-17.4	12,285	9,876	989	-19.6*
NW LP	2,333	1,696	385	-27.3	7,176	7,474	802	4.2	9,513	9,184	910	-3.5
Sag. Bay	4,408	3,777	569	-14.3	4,196	4,348	636	3.6	8,601	8,117	921	-5.6
SW LP	2,487	2,449	497	-1.5	2,359	2,369	469	0.4	4,844	4,812	726	-0.7
SC LP	2,835	2,780	508	-1.9	2,957	3,369	566	13.9	5,791	6,144	831	6.1
SE LP	907	985	330	8.6	968	1,121	315	15.8	1,874	2,104	468	12.3
UP	5,065	3,552	603	-29.9*	11,253	9,845	945	-12.5	16,321	13,407	1,174	-17.9*
NLP	9,038	6,844	775	-24.3*	16,168	15,415	1,162	-4.7	25,208	22,268	1,462	-11.7
SLP	8,913	8,686	912	-2.5	8,793	9,303	930	5.8	17,700	17,969	1,398	1.5
Statewide	23,016	19,082	1,353	-17.1*	36,213	34,562	1,769	-4.6	59,229	53,644	2,352	-9.4*
Private Lands												
West UP	12,895	10,182	1,090	-21.0*	14,905	15,741	1,196	5.6	27,801	25,931	1,774	-6.7
East UP	2,840	2,599	537	-8.5	3,758	4,154	606	10.5	6,598	6,755	861	2.4
NE LP	19,789	15,863	1,273	-19.8*	19,249	18,209	1,293	-5.4	39,038	34,074	2,022	-12.7*
NW LP	26,066	19,553	1,548	-25.0*	25,731	23,872	1,498	-7.2	51,797	43,431	2,383	-16.2*
Sag. Bay	32,813	30,649	1,962	-6.6	32,474	31,706	1,751	-2.4	65,287	62,355	2,972	-4.5
SW LP	41,031	38,000	2,250	-7.4	35,745	34,231	1,862	-4.2	76,774	72,222	3,387	-5.9
SC LP	47,988	47,003	2,510	-2.1	47,601	43,950	2,124	-7.7	95,589	90,945	3,793	-4.9
SE LP	15,713	12,623	1,213	-19.7*	13,979	11,632	1,057	-16.8*	29,691	24,252	1,816	-18.3*
UP	15,735	12,781	1,215	-18.8*	18,663	19,895	1,340	6.6	34,399	32,687	1,972	-5.0
NLP	55,623	43,927	2,226	-21.0*	53,050	50,521	2,174	-4.8	108,672	94,456	3,463	-13.1*
SLP	127,777	119,763	3,968	-6.3	121,729	113,079	3,369	-7.1*	249,504	232,824	5,981	-6.7*
Statewide	199,135	176,472	4,737	-11.4*	193,441	183,495	4,246	-5.1*	392,576	359,967	7,222	-8.3*

[a]Harvest estimates do not include deer taken with DMA permits. An additional 3,640 deer were taken with these permits.
[b]95% confidence limit for the 2005 estimate.
*P<0.005.

Table 8. Percentage of deer hunters harvesting deer in Michigan during all seasons, 2005.[a]

Sex and Area	Number of deer harvested									
	≥1 deer		≥2 deer		≥3 deer		≥4 deer		≥5 deer	
	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]	Success	95% CL[b]
Antlerless										
West UP	13.5	1.1	2.5	0.5	0.5	0.2	0.1	0.1	0.1	0.1
East UP	8.4	1.4	1.5	0.6	0.2	0.3	0.0	0.0	0.0	0.0
NE LP	14.0	0.9	1.7	0.3	0.3	0.1	0.1	0.1	0.0	0.1
NW LP	12.6	0.8	2.0	0.3	0.5	0.2	0.2	0.1	0.0	0.0
Sag. Bay	23.1	1.1	4.7	0.6	1.1	0.3	0.4	0.2	0.2	0.1
SW LP	27.1	1.2	6.6	0.7	1.7	0.4	0.6	0.2	0.2	0.1
SC LP	28.3	1.1	7.0	0.6	1.7	0.3	0.5	0.2	0.2	0.1
SE LP	19.3	1.5	3.2	0.7	0.8	0.3	0.2	0.2	0.1	0.1
UP	14.8	3.0	1.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0
NLP	5.2	3.4	1.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
SLP	22.3	3.1	3.7	1.4	1.0	0.7	0.3	0.4	0.0	0.0
Statewide	22.3	0.4	5.1	0.2	1.4	0.1	0.4	0.1	0.2	0.0
Antlered bucks[c]										
West UP	27.3	1.4	2.2	0.5						
East UP	19.9	2.1	1.3	0.6						
NE LP	18.3	1.0	1.4	0.3						
NW LP	20.5	1.0	2.0	0.3						
Sag. Bay	26.8	1.2	3.7	0.5						
SW LP	28.0	1.2	4.6	0.6						
SC LP	29.8	1.1	5.7	0.6						
SE LP	19.5	1.5	2.4	0.6						
UP	25.7	1.2	2.0	0.4						
NLP	20.7	0.7	2.0	0.2						
SLP	29.2	0.7	5.0	0.3						
Statewide	28.5	0.5	4.2	0.2						

[a]Excludes 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, 2005.[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	36.4	1.6	7.7	0.9	1.6	0.4	0.4	0.2	0.0	0.0
East UP	26.5	2.3	4.3	1.1	0.6	0.4	0.1	0.1	0.1	0.1
NE LP	28.5	1.2	5.9	0.6	1.1	0.3	0.3	0.1	0.1	0.1
NW LP	29.5	1.1	6.8	0.6	1.3	0.3	0.4	0.2	0.2	0.2
Sag. Bay	42.3	1.3	13.2	0.9	3.5	0.5	1.0	0.3	0.2	0.2
SW LP	44.6	1.3	16.6	1.0	5.6	0.6	1.5	0.3	0.2	0.2
SC LP	47.9	1.2	17.6	0.9	5.5	0.6	1.8	0.3	0.1	0.1
SE LP	33.7	1.8	8.7	1.1	2.5	0.6	0.6	0.3	0.5	0.5
UP	34.1	1.3	6.9	0.7	1.4	0.3	0.3	0.2	0.1	0.1
NLP	30.8	0.8	7.3	0.4	1.5	0.2	0.4	0.1	0.1	0.1
SLP	45.7	0.7	16.4	0.6	5.3	0.3	1.7	0.2	0.5	0.5
Statewide	42.3	0.5	13.8	0.4	4.1	0.2	1.3	0.1	0.4	0.1

[a]Excludes 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, 2005.[a]

Sex and Area	Season											
	Archery		Regular Firearm		Muzzleloader		Late Antlerless		Youth		All Seasons	
	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	13.8	2.1	9.6	1.0	11.6	2.3	0.0	0.0	10.2	7.6	13.5	1.1
East UP	12.9	3.3	4.7	1.2	6.0	2.5	0.0	0.0	12.5	12.4	8.4	1.4
NE LP	8.5	1.2	10.1	0.8	10.2	1.8	27.7	6.8	8.9	3.3	14.0	0.9
NW LP	10.3	1.1	8.2	0.7	9.2	1.6	0.0	0.0	5.4	2.1	12.6	0.8
Sag. Bay	11.7	1.2	17.1	1.1	14.0	1.7	25.4	5.0	6.8	2.1	23.1	1.1
SW LP	13.7	1.3	18.8	1.1	14.7	1.6	26.3	3.2	9.8	2.9	27.1	1.2
SC LP	14.6	1.2	20.6	1.1	18.8	1.7	22.8	3.4	8.8	2.2	28.3	1.1
SE LP	11.3	1.5	12.3	1.5	11.8	2.1	24.3	5.5	8.1	3.4	19.3	1.5
UP	13.7	1.8	8.3	0.8	9.9	1.8	0.0	0.0	10.7	6.5	14.8	3.0
NLP	10.0	0.8	10.1	0.5	10.2	1.1	27.7	6.8	7.3	1.7	5.2	3.4
SLP	13.7	0.7	18.8	0.6	16.0	0.9	25.2	2.0	8.3	1.3	22.3	3.1
Statewide	13.5	0.6	14.9	0.4	14.2	0.7	25.4	1.9	8.1	1.0	22.3	0.4
Antlered Bucks												
West UP	13.0	2.1	26.0	1.5	7.3	1.8	0.0	0.0	25.3	8.7	27.3	1.4
East UP	10.5	3.0	18.8	2.2	5.6	2.4	0.0	0.0	12.5	12.4	19.9	2.1
NE LP	8.9	1.2	16.8	1.0	5.5	1.3	0.0	0.0	11.3	3.7	18.3	1.0
NW LP	14.7	1.3	16.6	1.0	3.2	0.9	0.0	0.0	15.8	3.4	20.5	1.0
Sag. Bay	18.0	1.4	21.6	1.2	6.0	1.1	0.0	0.0	18.7	3.3	26.8	1.2
SW LP	22.5	1.6	20.3	1.2	6.8	1.1	0.0	0.0	11.3	2.9	28.0	1.2
SC LP	24.3	1.5	22.2	1.1	6.6	1.1	0.0	0.0	21.0	3.1	29.8	1.1
SE LP	15.2	1.7	13.6	1.5	5.5	1.4	0.0	0.0	14.4	4.3	19.5	1.5
UP	12.4	1.7	24.2	1.3	6.8	1.5	0.0	0.0	22.6	7.3	25.7	1.2
NLP	12.9	0.9	17.3	0.7	4.5	0.8	0.0	0.0	14.4	2.3	20.7	0.7
SLP	22.1	0.9	21.3	0.7	6.6	0.6	0.0	0.0	17.3	1.8	29.2	0.7
Statewide	19.7	0.6	21.6	0.5	6.3	0.5	0.0	0.0	16.7	1.4	28.5	0.5

[a]Excludes 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, 2005.[a]

Sex and Area	Season											
	Archery		Regular Firearm		Muzzleloader		Late Antlerless		Youth		All Seasons	
	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	25.2	2.7	32.7	1.6	18.1	2.7	0.0	0.0	35.5	10.0	36.4	1.6
East UP	22.5	4.1	22.7	2.4	11.6	3.4	0.0	0.0	25.0	16.2	26.5	2.3
NE LP	16.3	1.6	25.1	1.2	14.7	2.1	27.7	6.8	20.2	4.7	28.5	1.2
NW LP	23.0	1.5	23.2	1.1	12.1	1.8	0.0	0.0	21.2	3.8	29.5	1.1
Sag. Bay	27.2	1.7	35.0	1.4	19.5	1.9	25.4	5.0	25.5	3.7	42.3	1.3
SW LP	31.8	1.8	34.6	1.4	20.6	1.8	26.3	3.2	21.2	3.8	44.6	1.3
SC LP	34.3	1.7	38.0	1.3	24.5	1.9	22.8	3.4	29.8	3.5	47.9	1.2
SE LP	24.3	2.1	24.2	1.9	16.6	2.4	24.3	5.5	22.5	5.1	33.7	1.8
UP	24.6	2.3	30.2	1.3	16.1	2.2	0.0	0.0	33.2	8.6	34.1	1.3
NLP	21.3	1.1	25.3	0.8	14.0	1.3	27.7	6.8	21.7	2.7	30.8	0.8
SLP	31.6	1.0	35.8	0.8	21.7	1.1	25.2	2.0	25.6	2.1	45.7	0.7
Statewide	29.6	0.7	33.0	0.5	19.7	0.8	25.4	1.9	24.9	1.6	42.3	0.5

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

Appendix A. Number of deer hunters, days spent hunting, and deer harvested in Michigan during 2005, summarized by Deer Management Unit.

Appendix A. Number of deer hunters, hunting effort, and deer harvested in Michigan during 2005, 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	7,140	760	63,313	9,650	1,202	333	1,387	352	2,589	529
003	14,960	1,090	215,292	21,746	4,077	693	3,636	591	7,713	1,026
004	5,156	647	53,022	9,467	1,150	350	1,396	357	2,546	556
005	7,313	768	72,918	11,508	1,590	461	1,368	353	2,959	664
006	9,007	846	126,771	16,843	2,569	553	2,534	501	5,103	850
007	8,117	811	83,885	11,525	272	172	1,815	392	2,088	432
008	14,158	1,053	176,254	18,237	4,458	723	3,998	616	8,456	1,093
009	4,530	599	51,209	8,797	727	270	804	250	1,531	383
010	5,206	647	57,622	10,706	439	207	1,300	324	1,740	422
011	5,355	656	76,595	13,089	1,136	353	1,846	447	2,982	649
012	7,347	763	107,790	15,603	3,963	821	3,168	583	7,130	1,161
013	12,929	1,003	191,515	20,759	6,617	994	5,629	768	12,245	1,464
014	7,098	754	109,190	15,906	2,723	638	2,859	541	5,582	1,023
015	4,706	616	49,550	9,645	925	315	1,213	331	2,138	543
016	7,366	773	73,888	11,034	493	208	1,589	382	2,082	464
017	7,108	757	80,237	12,075	1,076	340	1,687	382	2,763	547
018	16,742	1,148	180,818	17,804	3,593	602	3,671	589	7,263	953
019	10,726	922	140,817	17,381	3,771	678	3,981	651	7,752	1,068
020	10,076	900	89,474	11,463	944	292	1,068	312	2,011	477
021	10,476	922	108,350	13,940	371	183	2,646	497	3,019	544
022	10,855	936	97,565	11,500	2,045	477	2,935	515	4,981	791
023	10,496	916	141,847	17,220	3,572	676	3,821	634	7,393	1,060
024	5,099	641	55,324	9,943	985	318	1,210	335	2,195	543
025	10,223	904	134,682	16,827	2,252	493	1,787	407	4,038	724
026	16,377	1,139	198,064	20,150	3,650	629	4,140	622	7,790	1,002
027	6,938	751	60,007	8,397	659	252	1,406	378	2,066	516
028	6,026	698	66,759	11,196	402	208	794	267	1,197	349
029	9,782	874	124,280	16,214	2,626	532	3,586	593	6,212	933
030	10,124	894	142,327	17,801	3,633	691	2,946	547	6,578	987
032	11,416	953	130,788	15,798	3,865	752	4,898	704	8,764	1,182
033	9,674	878	121,307	15,566	3,189	624	2,942	558	6,131	976
034	12,398	983	157,505	18,354	5,923	981	4,793	709	10,714	1,411

[a]Harvest estimates do not include deer taken with DMA permits. An additional 3,640 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 A (continued). Number of deer hunters, hunting effort, and deer harvested in Michigan during 2005, 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	10,666	924	112,855	14,175	2,216	480	2,132	440	4,348	750
036	5,675	681	53,615	8,634	507	220	923	286	1,430	391
037	11,612	958	148,868	18,425	3,417	631	3,719	593	7,135	982
038	17,963	1,179	264,041	24,880	6,309	950	5,964	802	12,273	1,430
039	9,182	857	122,407	15,939	3,191	621	2,575	516	5,766	940
040	8,606	834	73,922	10,692	418	191	1,180	308	1,598	373
041	16,649	1,141	210,506	20,662	4,351	733	4,268	637	8,619	1,125
042	3,613	543	37,707	7,278	160	110	930	299	1,091	319
043	17,167	1,171	157,710	16,185	394	178	2,238	448	2,633	501
044	16,352	1,124	232,408	22,428	5,082	833	4,129	647	9,211	1,201
045	3,631	542	40,641	8,939	492	241	831	286	1,324	384
046	8,594	822	120,717	17,006	2,491	554	2,098	452	4,588	800
047	14,417	1,067	185,456	19,414	4,093	711	4,127	624	8,220	1,093
048	5,835	689	56,600	9,285	212	144	1,058	305	1,271	337
049	8,764	842	86,921	11,809	1,207	364	1,483	361	2,690	566
050	4,485	600	54,289	10,350	955	303	1,083	330	2,038	491
051	10,926	934	102,982	12,414	1,138	360	2,201	455	3,340	626
053	12,049	977	141,300	16,202	3,180	720	3,545	604	6,726	1,087
054	15,166	1,094	168,445	17,365	4,259	788	4,372	630	8,631	1,105
055	13,183	1,028	132,169	13,857	4,128	741	4,940	703	9,069	1,136
056	12,694	1,000	173,478	19,550	2,767	553	2,740	505	5,506	832
057	11,105	943	110,338	12,862	1,788	430	1,831	415	3,619	670
058	4,150	579	46,400	9,661	508	237	492	208	1,000	332
059	16,731	1,143	209,673	20,364	6,923	966	6,348	805	13,270	1,459
060	9,524	874	84,060	11,369	1,310	353	1,487	371	2,797	567
061	10,031	888	137,839	16,797	1,994	464	2,015	435	4,009	708
062	24,288	1,372	270,039	21,954	3,726	603	5,443	715	9,170	1,035
063	11,820	967	167,923	19,896	2,100	474	2,626	489	4,725	775
064	11,010	935	139,072	16,767	2,274	501	2,309	454	4,583	750
065	13,817	1,051	146,396	16,211	2,916	584	2,784	510	5,700	855
066	9,729	887	101,591	13,260	1,017	302	2,594	476	3,611	587
067	13,184	1,021	135,152	14,945	2,321	492	3,362	566	5,683	812

[a]Harvest estimates do not include deer taken with DMA permits. An additional 3,640 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 A (continued). Number of deer hunters, hunting effort, and deer harvested in Michigan during 2005, 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
068	10,688	925	82,152	10,374	1,187	336	1,259	347	2,445	524
069	7,102	758	64,058	9,715	396	189	1,046	297	1,442	372
070	9,891	880	139,036	16,901	2,925	624	2,092	445	5,017	850
071	7,702	788	83,624	12,023	1,203	323	2,080	442	3,283	615
072	13,605	1,039	136,125	15,529	1,041	321	1,755	389	2,796	522
073	9,554	870	141,395	17,981	1,926	460	2,695	523	4,621	766
074	12,831	1,007	183,696	20,722	2,382	482	2,446	480	4,828	765
075	6,073	693	82,706	13,132	2,218	516	1,826	448	4,043	814
076	16,507	1,128	185,449	18,333	6,633	974	5,421	717	12,053	1,354
078	9,701	874	130,049	16,841	3,365	659	3,303	577	6,668	1,028
079	15,716	1,099	226,685	22,912	4,984	811	4,911	697	9,895	1,236
080	8,077	807	124,047	16,872	2,719	587	2,730	535	5,449	921
081	12,278	982	165,656	19,099	3,834	716	3,406	578	7,240	1,084
082	1,236	313	17,755	7,298	136	105	212	130	348	178
083	12,093	984	125,985	14,522	363	172	1,943	414	2,307	460
115	725	246	5,100	2,057	113	129	113	96	227	183
117	1,679	370	15,066	4,577	212	144	455	189	667	238
121	3,145	507	30,284	7,082	484	216	945	283	1,430	414
122	2,455	449	25,647	6,336	711	302	642	236	1,353	446
135	914	275	11,285	5,240	136	122	189	123	325	183
145	0	0	0	0	0	0	0	0	0	0
149	311	158	2,184	1,246	46	61	45	61	91	86
152	4,912	633	49,391	8,469	212	130	937	283	1,149	328
155	6,161	708	65,168	10,442	1,726	501	2,207	448	3,934	740
173	2,087	413	20,113	5,616	295	155	453	220	748	301
174	297	149	3,014	2,338	159	188	23	43	182	193
245	91	87	408	418	0	0	23	43	23	43
252	3,001	495	32,598	7,221	612	282	598	226	1,211	366
255	3,181	511	27,551	5,770	651	238	1,225	338	1,877	460
452	10,747	931	99,578	12,280	2,139	483	2,396	457	4,536	738

[a]Harvest estimates do not include deer taken with DMA permits. An additional 3,640 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.