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Michigan Department of Natural Resources

MICHIGAN DEER HARVEST SURVEY REPORT 2002 SEASONS

Brian J. Frawley

ABSTRACT

A survey of deer hunters was conducted following the 2002 hunting seasons to estimate hunter participation, harvest, and hunting effort. In 2002, an estimated 740,529 hunters spent 10,449,426 days afield. Statewide, the number of people hunting deer declined by nearly 2%, and hunting effort declined by 1% between 2001 and 2002. Hunters harvested 476,215 deer, an increase of 3% from the number taken in 2001. Harvest of both antlerless deer and antlered bucks increased by 3%. Statewide, 43% of hunters harvested a deer. About 23% of the hunters took an antlerless deer and 28% 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 primary 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 summer deer observations, deer harvest check stations, deer pellet group surveys, and population modeling are used to monitor deer populations and establish harvest regulations.

During 2002, white-tailed deer (*Odocoileus virginianus*) could be harvested primarily during (1) youth, (2) archery, (3) early antlerless, (4) early antlerless in Deer Management Unit (DMU) 055, (5) regular firearm, (6) muzzleloader, and (7) late antlerless hunting seasons. In order to harvest a deer, hunters had to possess a hunting license (firearm, archery, combination, or antlerless license) (Table 1).

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A harvest tag was issued as part of the hunting license. Hunters could purchase a maximum of two harvest tags (either one combination license or both firearm and archery licenses), excluding tags associated with antlerless licenses and Deer Management Assistance (DMA) permits. 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 3 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 or two antlered deer during the firearm season (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 1 inch).

An antlerless license 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 3 inches. Use of each antlerless license was restricted to a single DMU designated at the time of purchase. Two harvest tags were issued with each antlerless deer license purchased for 8 special regulation DMUs in northeastern Lower Peninsula (Alcona, Alpena, Crawford, Montmorency, Oscoda, Otsego, and Presque Isle counties). One harvest tag was issued with each license purchased for all other DMUs. Antlerless licenses were available for most of the state except in portions of the Upper Peninsula (UP). Antlerless licenses were valid on either public or private lands. The number of licenses available in DMUs open to antlerless deer hunting was restricted by quota. Hunters could purchase one antlerless license per day until the quota had been met.

DMA Permits were special antlerless permits issued to landowners in areas experiencing severe crop damage, or areas where management objectives included controlling disease or deer population. These permits allowed hunters to take an antlerless deer per permit during any deer season on the land where issued or adjacent private lands, with the landowners permission. 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.

The youth season was held during September 28-29 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 (i.e., October 1 to November 14 and December 1, 2002, to January 1, 2003). 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 6-15 in the UP and December 13-22 in the 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 season, open in most of the LP, occurred from December 23, 2002, through January 1, 2003. Hunters pursuing deer during this season had to possess an unused antlerless license (including DMA permits) and were limited to hunting on private land.

In 7 counties in the LP (Alcona, Alpena, Crawford, Montmorency, Oscoda, Otsego, and Presque Isle counties), an early firearm season for antlerless deer was held October 12-20. There also was an early antlerless firearm deer season in DMU 055 in the UP during September 21-27. Hunters participating during these early antlerless seasons had to possess an antlerless license, and hunting was restricted to private lands only.

METHODS

Following the 2002 deer hunting seasons, a questionnaire was sent to 52,589 randomly selected individuals that had purchased a hunting license (firearm, archery, antlerless, or combination deer hunting licenses). Hunters receiving the questionnaire were asked to report which seasons 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 were required to report the number of deer harvested.

Estimates were calculated using a stratified random sampling design (Cochran 1977) and were presented along with their 95% confidence limit (CL). 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 that the true value would be within this interval 95 times out of 100.

License buyers were assigned to one of four groups (strata). The first stratum consisted of people eligible only for the archery, regular firearm, and muzzleloader hunting seasons (N = 487,383). The second stratum consisted of people eligible to hunt during archery, regular firearm, muzzleloader, early antlerless, and late antlerless seasons (N = 273,021). Hunters in the third stratum were eligible to hunt during archery, regular firearm, muzzleloader, early antlerless, and late antlerless seasons, as well as the special early antlerless season in DMU 055 (N = 2,784). The fourth stratum consisted of people eligible to hunt during archery, regular firearm, muzzleloader, early antlerless, late antlerless, and youth seasons (N=25,083). The random sample consisted of 28,325 people from the first stratum and 15,598 people from the second stratum. An additional 2,747 people were included from the third stratum, and 5,919 people were from the fourth stratum. The stratified sampling design accounted for the varying probabilities of being selected from the four 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 were regions having similar soils, vegetation, climate, geology, and physiography. Estimates were also calculated for each DMU (Figure 2, Appendix 1). Deer harvested from unknown locations were allocated among areas in proportion to the known harvest.

Questionnaires were initially mailed during mid-January 2003, 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. Although 52,589 people were sent the questionnaire, 1,243 surveys were undeliverable resulting in an adjusted sample size of 51,346. Questionnaires were returned by 35,293 of 51,346 people receiving the questionnaire (69% 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 last year (69% versus 74%). To reduce bias caused by this lower response rate, an adjustment was made on the 2002 estimates to make them comparable to the 2001 estimates. Estimates of harvest, hunting effort, and hunter numbers were reduced by 1.15, 1.20, and 0.50%, respectively, to make estimates comparable to 2001. These reductions reflected the average decline noted between estimates calculated when 69 and 74% of the responses were used in 2000 and 2001 surveys.

RESULTS

In 2002, 788,271 people purchased a license to hunt deer in Michigan. The number of people buying a license in 2002 declined about 2% from 2001 (801,436 people purchased a license in 2001). Most of the people buying a license were male (92.1%), although 7.9% of the licensees were female. The average age of the license buyers was 41 years (Figure 3).

The number of 2002 deer harvest tags sold for all license types combined increased 1% since 2001 (Table 2). License buyers purchased an average of 2.3 harvest tags. About 86% of the license buyers purchased three or fewer harvest tags and 98% purchased five or fewer harvest tags (Figure 4). Hunters most frequently purchased antlerless and combination harvest tags (Figure 5). About 52% of the license buyers purchased at least one antlerless license (409,181 people), and 97% of antlerless license buyers purchased three or fewer antlerless licenses (Figure 6).

Although the number of harvest tags available increased by 1%, the sales of deer hunting licenses declined slightly (about 1%) in 2002 (Table 2). The increase in harvest tags occurred because two harvest tags were provided for antlerless licenses sold for the special-regulations DMUs in NE Lower Peninsula (7 counties).

About 94.0 ± 0.2% (740,529 ± 1,968 hunters) of the people buying a license in 2002 actually spent time hunting deer (Table 3). Most hunters (684,036 ± 2,811) pursued deer during the regular firearm season (Figure 7). Statewide, the number of people hunting deer during all seasons combined declined by nearly 2%. Hunter numbers declined by about 2% in the UP and about 3% in the northern LP. Hunter numbers were unchanged in the southern LP between 2001 and 2002.

Fewer people participated in early antlerless (-45%), archery (-2%), and regular firearm (-1%) seasons between 2001 and 2002 (Figure 8, Table 3). The decline during the early antlerless season occurred because fewer counties were open to hunting in 2002 (i.e., 7 versus 12 counties in 2001). Greater numbers of people hunted during the early antlerless in DMU 055 (+23%), late antlerless (+9%), youth (+7%), and muzzleloader (+2%) seasons.

About 45% of the days that hunters spent pursuing deer throughout the state occurred in the regular firearm season (Figure 9). Likewise, about 44% of the hunting effort occurred during the archery season. Nearly 11% of the hunting effort occurred in the muzzleloader and late antlerless seasons. Statewide, hunters devoted an average of 14.3 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 ($\bar{x}$ = 14.7 days/hunter) (Figure 10, Table 4).

For all seasons and areas combined, hunting effort was virtually unchanged between 2001 and 2002 (Table 3). Hunting effort increased during the special early antlerless season in DMU 055, but declined during the regular early and late antlerless seasons. Hunting effort during the archery, regular firearm, muzzleloader, and youth seasons was similar to levels reported in 2001.

An estimated 476,215 deer were harvested in 2002, an increase of nearly 3% from the number taken in 2001 (Figure 11, Tables 5-6). Statewide, the harvest of both antlerless deer and antlered bucks increased 3% from last year (Table 5). Between 2001 and 2002, deer harvest increased during the early antlerless in DMU 055 (+16%), muzzleloader (+11%), youth (+9%), and regular firearm (+6%) seasons (Figure 12, Tables 5-6). Harvest declined in the early antlerless (-56%), and late antlerless (-13%) seasons.

About 64% of the animals harvested (sexes combined) in 2002 were taken during the regular firearm season (Figure 13). Most of the antlerless deer (58%) and antlered bucks (69%) were harvested in the regular firearm season. Hunters took 25% of the harvested deer (sexes combined) during archery season. During the archery season, hunters took 23% of the antlerless deer and 27% of the antlered bucks harvested. Few antlered bucks (3%) were taken in the muzzleloader season. The muzzleloader and antlerless seasons accounted for 18% of the antlerless deer harvested.

About 85% of the animals harvested (sexes combined) in 2002 were taken on private lands (Table 7). Statewide, most of the antlerless deer (87%) and antlered bucks (83%) were harvested on private lands. Overall, harvest increased 6% between 2001 and 2002 on private lands but decreased 12% on public lands.

Statewide, 43% of the deer hunters harvested at least one deer (all deer seasons and sexes combined) in 2002 (Figure 14, Table 8). About 23% of the hunters took an antlerless deer and 28% took an antlered buck. About 14% of deer hunters harvested two or more deer.

Hunters were most successful in taking a deer during the early antlerless season in DMU 055 (Figure 15, Table 9); 67% of the hunters in this early antlerless season took a deer. About 35% of the hunters harvested a deer (sexes combined) during the regular firearm season. Hunter success was slightly lower during the early antlerless, archery, and youth seasons (30% success for each season). Nearly 23% of the hunters took an antlered buck and 17% harvested an antlerless deer during the regular firearm season. Hunter success was lowest in the muzzleloader season (14% successful).

ACKNOWLEDGEMENTS

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Frawley, B. J. 2002. Michigan deer harvest survey report, 2001 seasons. Wildlife Division Report 3371. Michigan Department of Natural Resources, Lansing, USA

Figure 1. Areas used to summarize deer harvest in Michigan for the 2002 hunting seasons.

Figure 2. Deer Management Units in Michigan for the 2002 hunting seasons.

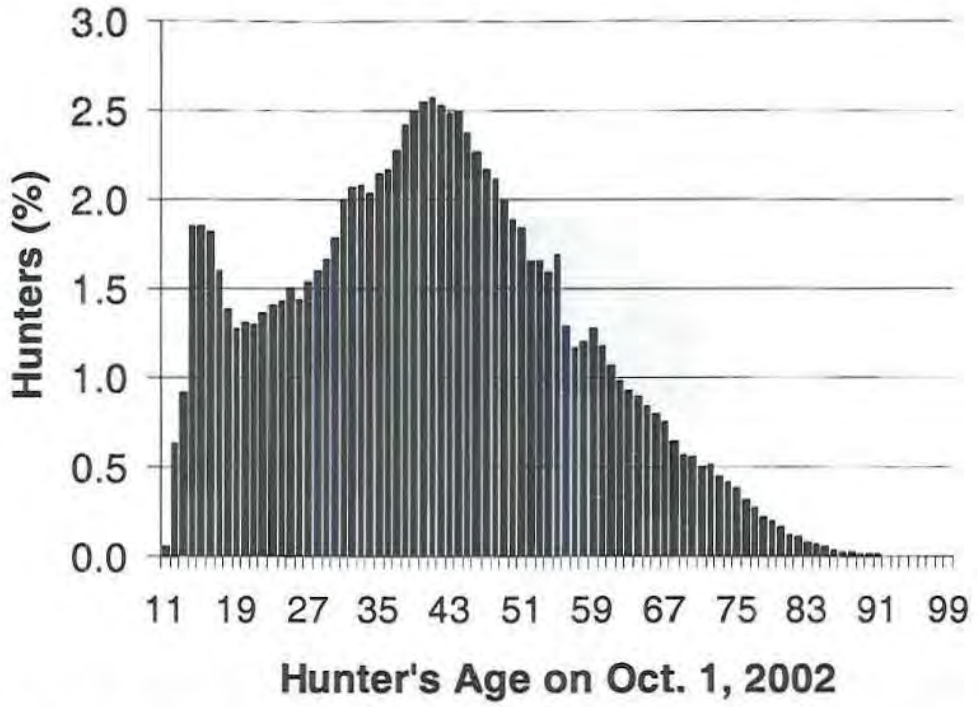

Figure 3. Age of people that purchased a deer hunting license in Michigan for the 2002 hunting seasons ($\bar{x}$ = 41 years).

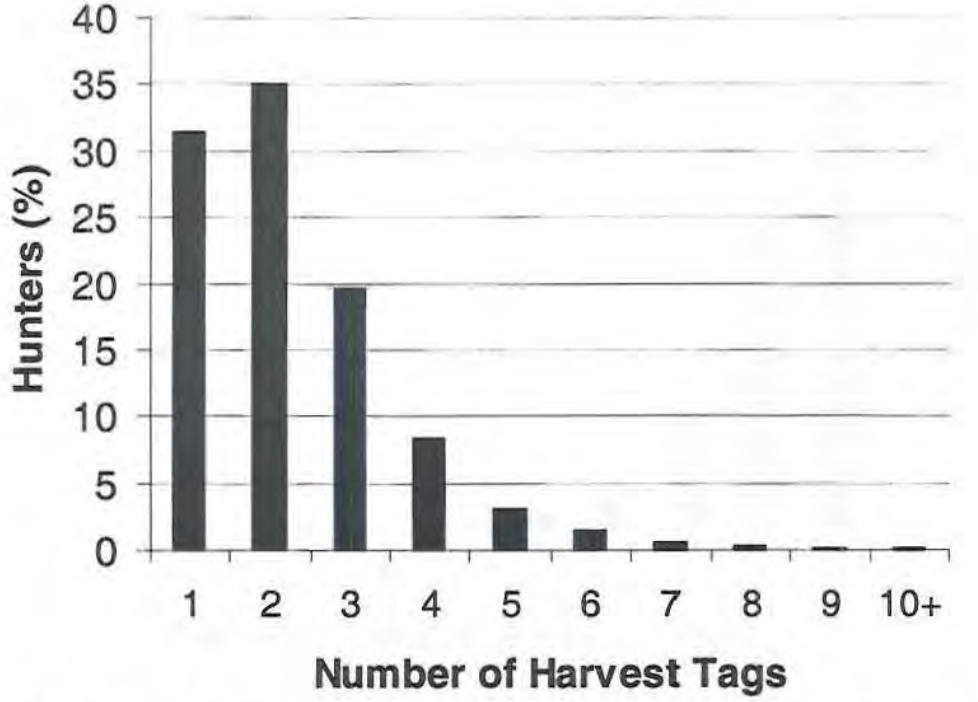

Figure 4. Number of harvest tags (all license and tag types) purchased per person for hunting deer in Michigan during the 2002 hunting seasons ($\bar{x}$ = 2.3 tags). Licenses were purchased by 788,271 people.

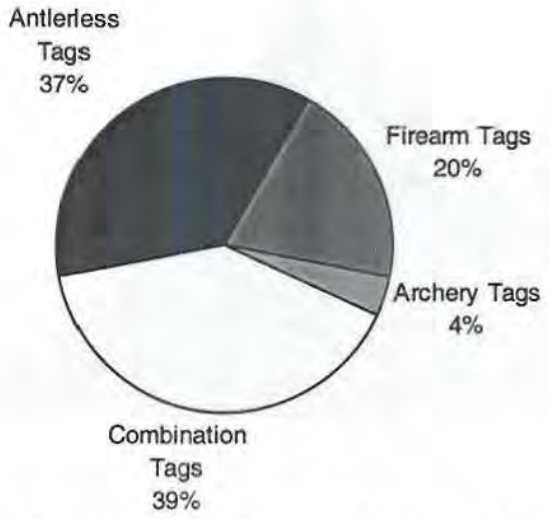

Figure 5. Types of harvest tags purchased for deer hunting in Michigan during the 2002 hunting seasons.

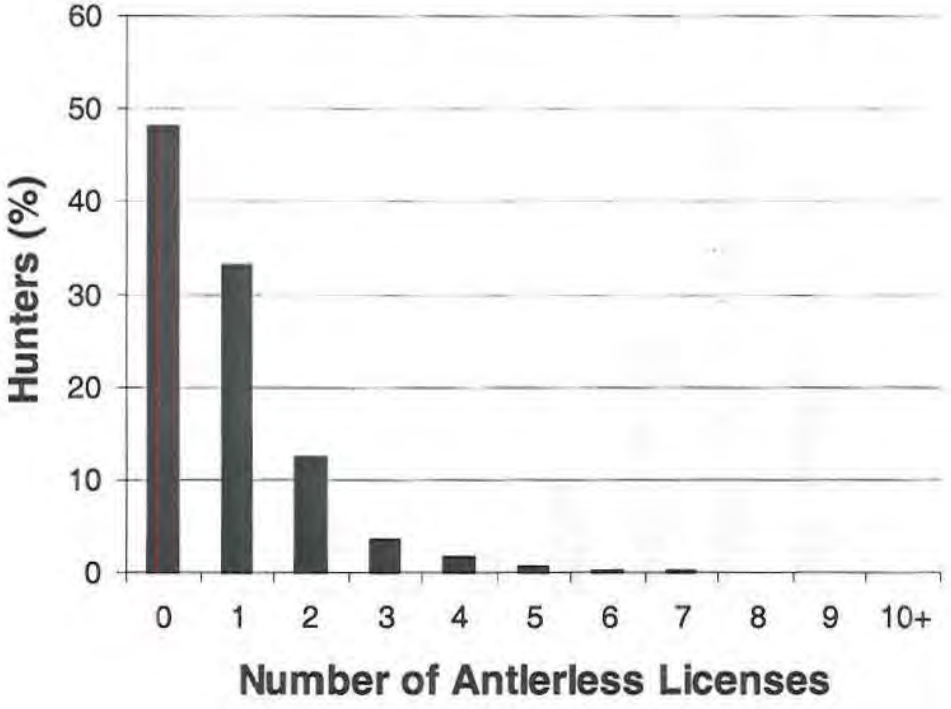

Figure 6. Percentage of deer hunting license buyers (all license types) purchasing an antlerless license in Michigan, 2002. Antlerless licenses were purchased by 409,181 of 788,271 people (52%) buying deer hunting licenses.

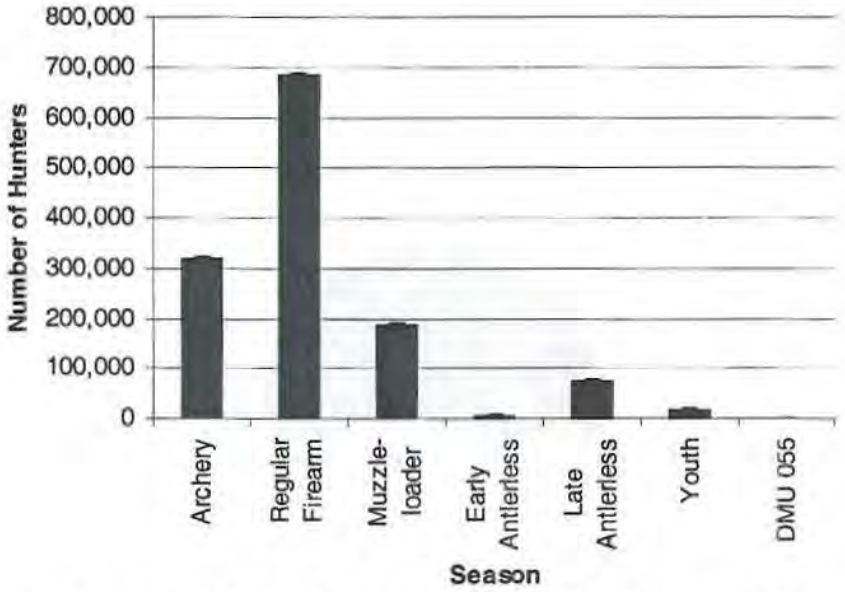

Figure 7. Number of people hunting deer in Michigan during the 2002 hunting seasons. Error bars represent the 95% confidence limits.

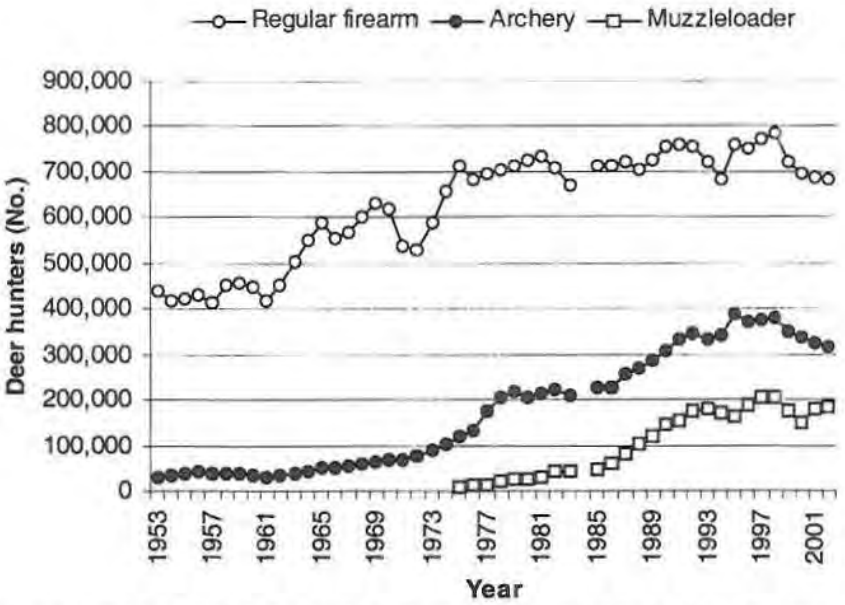

Figure 8. Number of people hunting deer in Michigan during the regular firearm, archery, and muzzleloader seasons, 1953-2002.

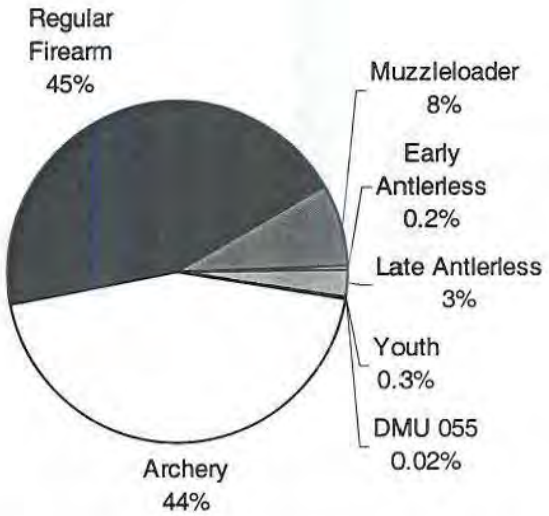

Figure 9. Distribution of hunting effort among deer hunting seasons in Michigan, 2002.

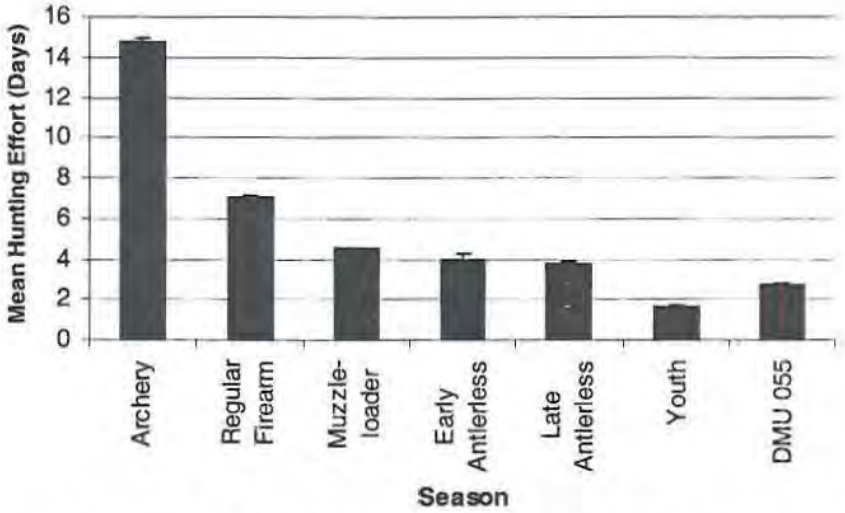

Figure 10. Mean number of days spent hunting deer in Michigan during the 2002 hunting seasons. Error bars represent the 95% confidence limits.

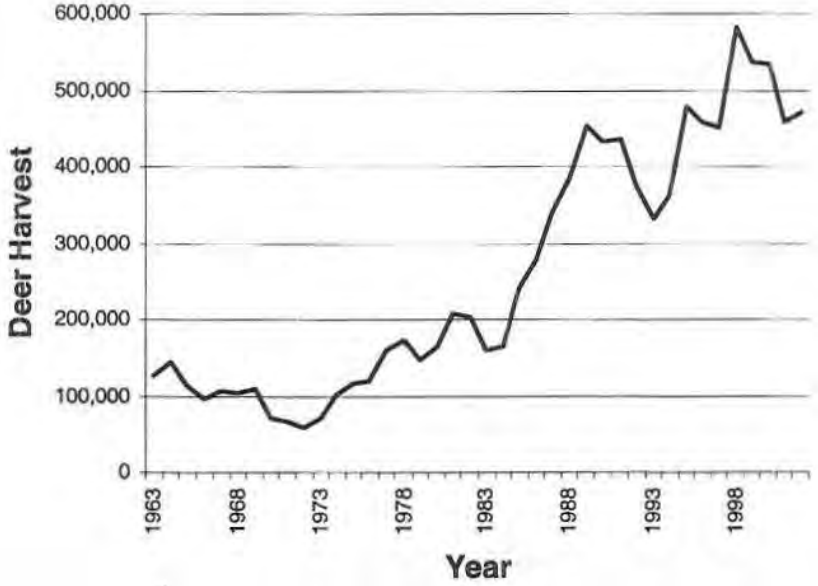

Figure 11. Number of deer harvested in Michigan's hunting seasons, 1963-2002. Harvest from all seasons and for all deer sexes was combined.

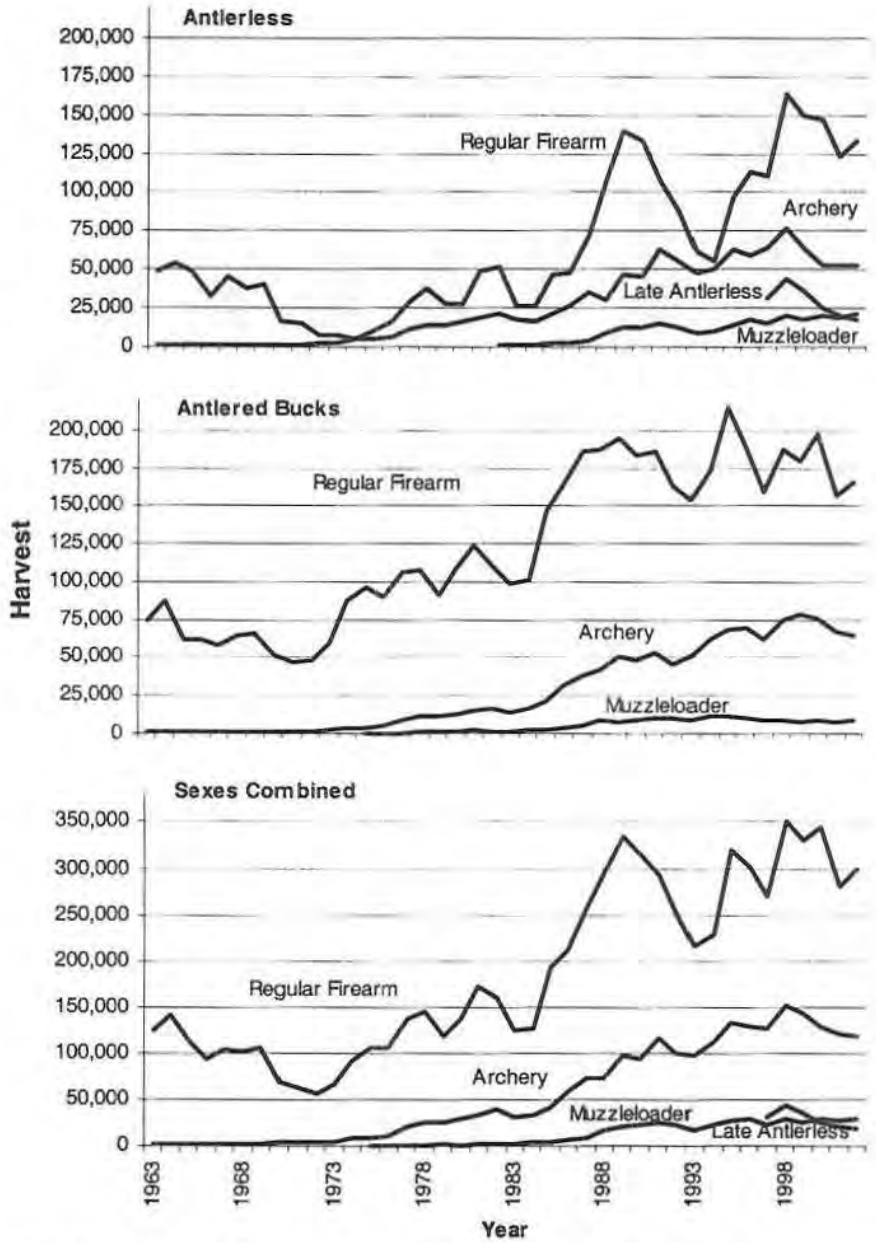

Figure 12. Number of deer harvested in Michigan's hunting seasons, 1963-2002. Harvests for early antlerless, early antlerless in DMU 055, and youth seasons were not shown.

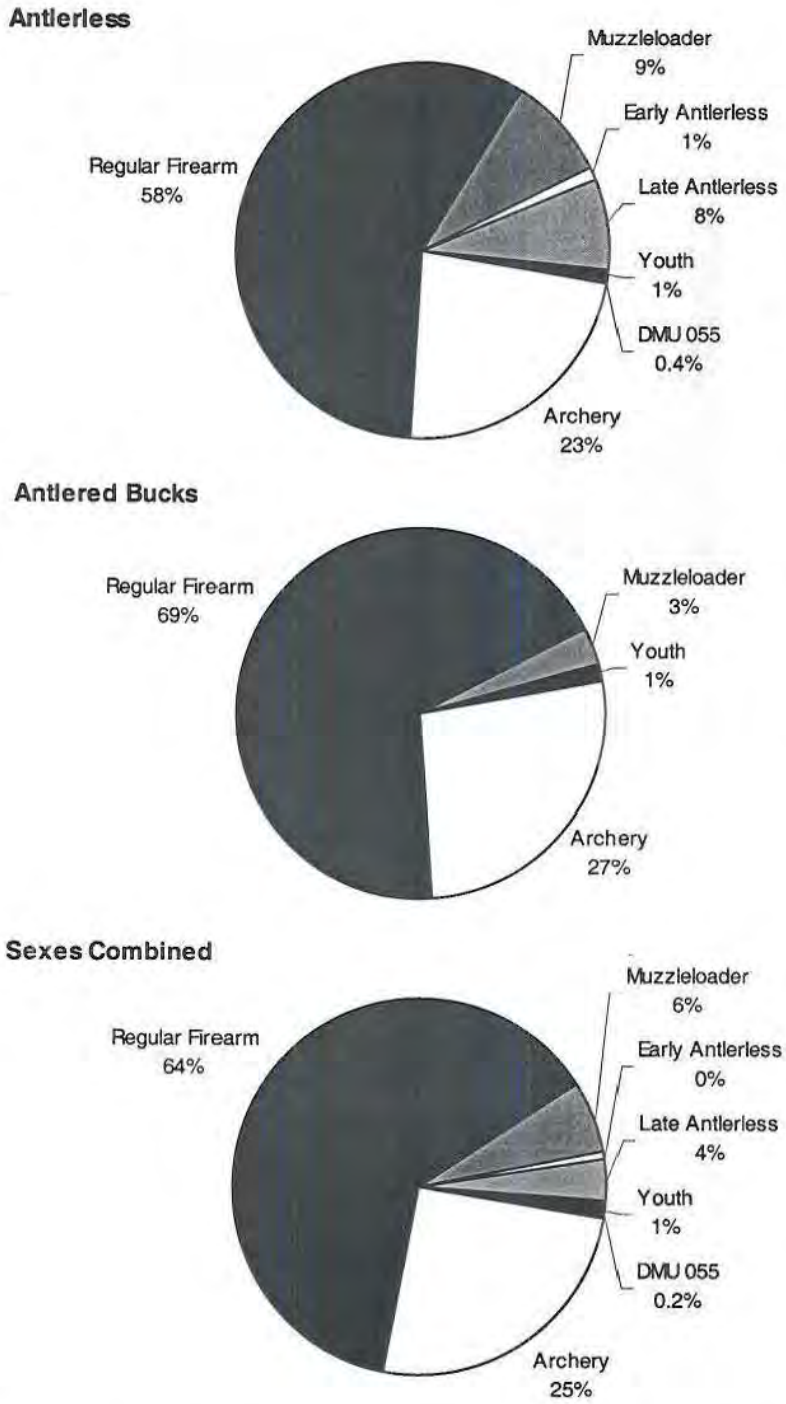

Figure 13. Distribution of harvest among deer hunting seasons in Michigan, 2002.

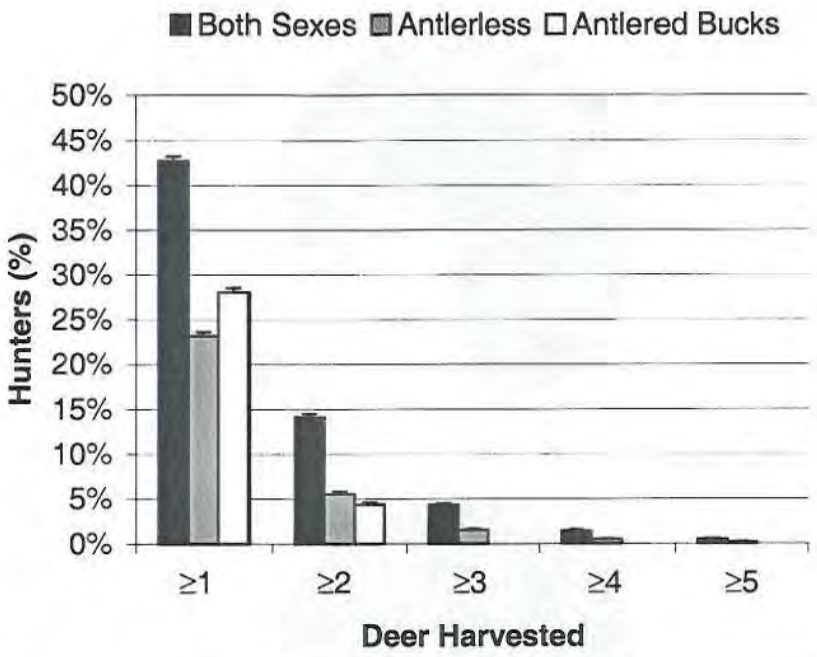

Figure 14. Percentage of hunters harvesting a deer in Michigan, 2002. Error bars represent the 95% confidence limits.

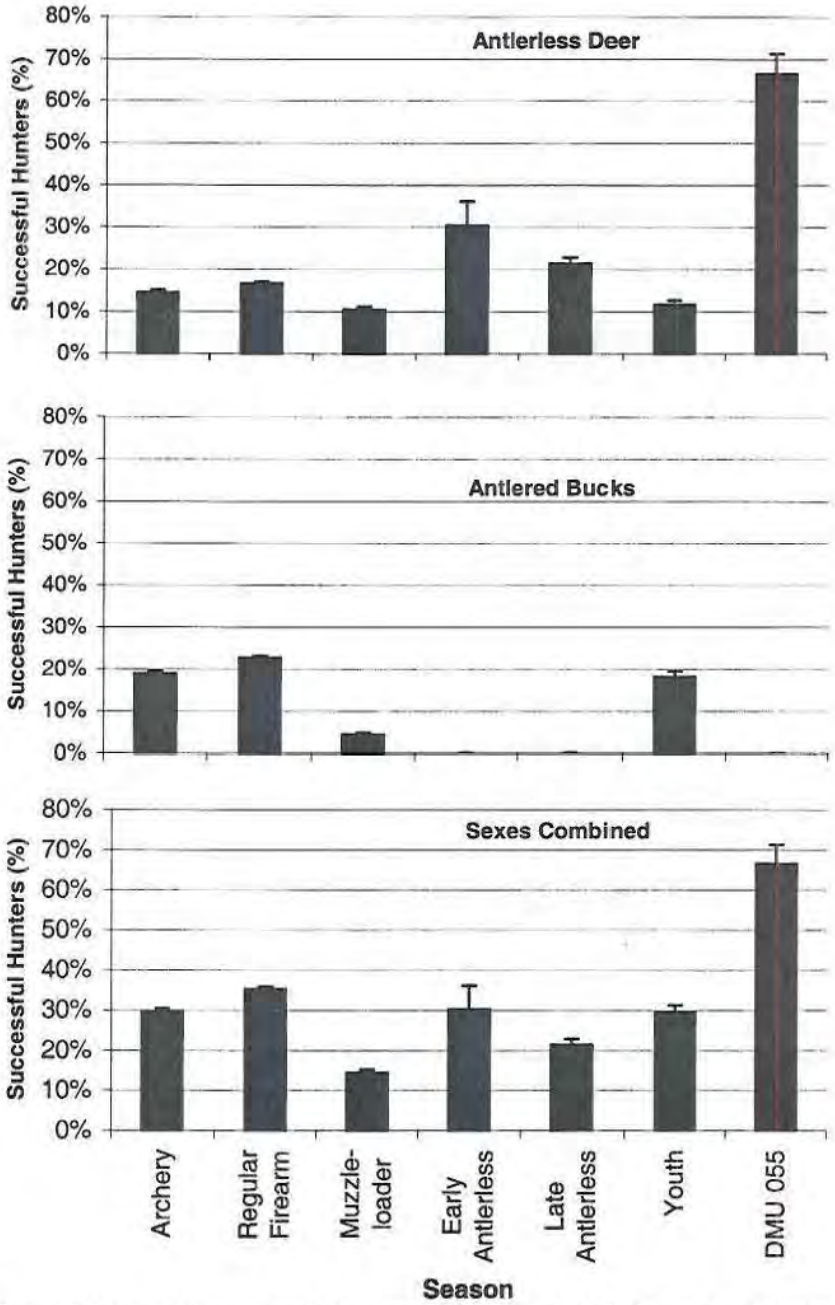

Figure 15. Percentage of hunters harvesting a deer in Michigan's deer hunting seasons, 2002. Error bars represent the 95% confidence limits.

Table 1. Kind of deer that could be taken during the hunting seasons for each combination of season and deer 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, or Muzzleloading seasons	Antlered deer only[b]
Combination License (Regular harvest tag)	Archery or Youth[c] seasons	Antlerless or antlered deer
Combination License (Regular harvest tag)	Regular Firearm, Youth, or Muzzleloading seasons	Antlered deer only
Combination License (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 (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	All seasons	Antlerless deer only
Deer Management Assistance (DMA) permit[d]	All seasons	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 takes 2 antlered deer during all seasons combined, one of the antlered deer must have at least 1 antler with 4 or more antler points, 1 or more inches in length.

[c]Youth hunters that used archery equipment could harvest either an antlered or antlerless deer; all youths 12 and 13 years of age were restricted to archery-only hunting.

[d]Permits issued to landowners in areas experiencing severe crop damage or areas where management objectives included controlling diseases or severe deer overpopulation. 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.

Table 2. Number of Michigan deer licenses and harvest tags purchased, 2000-2002.

Licenses or Harvest Tags	Number purchased 2000	2001[a]	2002	Change (%) Between 2001 and 2002
Firearm Licenses				
Resident	303,489	306,935	304,294	-0.9%
Non-resident	14,075	13,760	14,772	7.4%
Senior	32,170	32,816	32,461	-1.1%
Military	31	28	24	-14.3%
Subtotal	349,765	353,539	351,551	-0.6%
Archery Licenses				
Resident	67,372	62,028	54,136	-12.7%
Non-resident	3,695	3,569	3,228	-9.6%
Junior	10,173	9,789	9,254	-5.5%
Senior	3,209	3,238	2,962	-8.5%
Military	18	26	29	11.5%
Subtotal	84,467	78,650	69,609	-11.5%
Combination Licenses[b]				
Resident	313,878	304,799	299,140	-1.9%
Non-resident	1,516	1,497	1,603	7.1%
Junior	29,187	31,146	30,852	-0.9%
Senior	25,707	25,734	25,813	0.3%
Military	147	131	137	4.6%
Subtotal	370,435	363,307	357,545	-1.6%
Antlerless Licenses[c]				
Resident	573,616	582,775	597,721	2.6%
Non-resident	6,695	5,986	5,312	-11.3%
Junior	10,509	11,475	4,890	-57.4%
Deer Management Assistance[d]	12,130	9,814	6,312	-35.7%
Subtotal	602,950	610,050	614,235	0.7%
Total Licenses	1,407,617	1,405,546	1,392,940	-0.9%
Harvest Tags				
Firearm	349,765	353,539	351,551	-0.6%
Archery	84,467	78,650	69,609	-11.5%
Combination	740,869	726,614	715,090	-1.6%
Antlerless	602,950	610,050	653,446	7.1%
Total Harvest Tags	1,778,051	1,768,853	1,789,696	1.2%

[a]The number of antlerless licenses reported sold in 2001 was incorrectly reported in Frawley (2002).
[b]Combination licenses included two harvest tags. Most other license types had one harvest tag.
[c]In 2002, two harvest tags were issued with 39,211 antlerless licenses sold for eight management units in NE Lower Peninsula.
[d]Prior to 2001, Block Permits were included with DMA permits.

Table 3. Number of deer hunters and hunting effort in Michigan by hunting season, 2001-2002.

Season and Area	Number of hunters[a] 2001	2002	95% CL[b]	Change from 2001 to 2002	Hunting effort (days) 2001	2002	95% CL[b]	Change from 2001 to 2002
Archery								
West UP	25,512	24,735	1,470	-3.0%	268,197	267,459	21,280	-0.3%
East UP	9,813	9,734	950	-0.8%	100,397	102,581	14,284	2.2%
NE LP	54,172	49,006	2,072	-9.5%	531,437	508,238	30,079	-4.4%
NW LP	68,147	66,409	2,369	-2.6%	794,074	796,552	38,214	0.3%
Sag. Bay	59,537	58,247	2,228	-2.2%	757,015	755,001	38,681	-0.3%
SW LP	53,782	52,795	2,115	-1.8%	766,867	748,673	38,932	-2.4%
SC LP	63,914	64,327	2,330	0.6%	925,253	930,039	44,332	0.5%
SE LP	35,893	35,664	1,774	-0.6%	478,981	469,500	31,086	-2.0%
UP	34,990	34,125	2,919	-2.5%	368,594	370,039	25,629	0.4%
NLP	141,023	132,572	4,171	-6.0%	1,577,807	1,548,048	53,149	-1.9%
SLP	183,259	182,680	4,036	-0.3%	2,675,820	2,659,955	74,053	-0.6%
Statewide[c]	323,686	317,295	4,176	-2.0%	4,622,221	4,578,043	95,000	-1.0%
Regular Firearm								
West UP	85,748	83,698	2,575	-2.4%	629,683	615,778	22,645	-2.2%
East UP	30,201	30,789	1,662	1.9%	207,311	207,286	13,059	0.0%
NE LP	134,692	131,424	3,206	-2.4%	819,016	800,009	24,584	-2.3%
NW LP	144,472	144,588	3,313	0.1%	859,997	879,609	25,465	2.3%
Sag. Bay	100,781	101,959	2,870	1.2%	631,331	613,645	21,235	-2.8%
SW LP	97,703	97,572	2,772	-0.1%	664,795	646,725	22,649	-2.7%
SC LP	112,891	113,213	2,986	0.3%	717,945	725,553	23,873	1.1%
SE LP	43,115	42,674	1,936	-1.0%	250,507	252,744	13,768	0.9%
UP	115,266	113,390	1,722	-1.6%	836,994	823,064	26,140	-1.7%
NLP	308,547	306,222	3,197	-0.8%	1,890,031	1,888,921	37,438	-0.1%
SLP	308,142	309,088	3,564	0.3%	2,053,561	2,029,364	39,681	-1.2%
Statewide[c]	688,374	684,036	2,811	-0.6%	4,780,586	4,741,349	60,906	-0.8%

[a]Excludes people that did not hunt during the season.
[b]95% confidence limit for the 2002 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.

Table 3 (continued). Number of deer hunters and hunting effort in Michigan by hunting season, 2001-2002.

Season and Area	Number of hunters[a]				Hunting effort (days)			
	2001	2002	95% CL[b]	Change from 2001 to 2002	2001	2002	95% CL[b]	Change from 2001 to 2002
Muzzleloader								
West UP	16,499	15,475	1,169	-6.2%	77,834	78,705	6,661	1.1%
East UP	7,145	7,092	816	-0.8%	33,055	32,552	4,256	-1.5%
NE LP	25,157	24,787	1,502	-1.5%	101,270	104,201	7,331	2.9%
NW LP	27,959	29,036	1,617	3.9%	109,597	119,750	7,626	9.3%
Sag. Bay	28,937	30,439	1,651	5.2%	113,432	121,466	7,587	7.1%
SW LP	33,820	34,186	1,732	1.1%	147,376	143,732	8,401	-2.5%
SC LP	35,908	37,209	1,813	3.6%	149,853	151,006	8,537	0.8%
SE LP	16,363	16,907	1,240	3.3%	65,000	63,827	5,486	-1.8%
UP	23,492	22,459	1,410	-4.4%	110,889	111,257	7,904	0.3%
NLP	60,748	61,152	2,297	0.7%	243,342	257,075	11,302	5.6%
SLP	103,366	107,315	2,897	3.8%	443,186	446,907	14,673	0.8%
Statewide[c]	180,814	185,106	3,601	2.4%	797,417	815,239	20,274	2.2%
Early Antlerless								
West UP	0	0	0		0	0	0	
East UP	0	0	0		0	0	0	
NE LP	6,656	5,481	704	-17.6%	24,727	21,976	3,127	-11.1%
NW LP	3,259	0	0	-100.0%	10,303	0	0	-100.0%
Sag. Bay	0	0	0		0	0	0	
SW LP	0	0	0		0	0	0	
SC LP	0	0	0		0	0	0	
SE LP	0	0	0		0	0	0	
UP	0	0	0		0	0	0	
NLP	9,915	5,481	704	-44.7%	35,030	21,976	3,127	-37.3%
SLP	0	0	0		0	0	0	
Statewide[c]	9,915	5,481	704	-44.7%	35,030	21,976	3,174	-37.3%

[a]Excludes people that did not hunt during the season.
[b]95% confidence limit for the 2002 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.

Table 3 (continued). Number of deer hunters and hunting effort in Michigan by hunting season, 2001-2002.

	Number of hunters[a]				Hunting effort (days)			
Season and Area	2001	2002	95% CL[b]	Change from 2001 to 2002	2001	2002	95% CL[b]	Change from 2001 to 2002
Late Antlerless								
West UP	0	0	0		0	0	0	
East UP	0	0	0		0	0	0	
NE LP	8,610	8,813	885	2.4%	37,418	31,177	3,720	-16.7%
NW LP	12,297	11,986	1,023	-2.5%	49,721	41,679	4,270	-16.2%
Sag. Bay	10,587	11,628	1,006	9.8%	42,700	39,257	4,093	-8.1%
SW LP	17,564	20,074	1,301	14.3%	78,106	70,466	5,499	-9.8%
SC LP	15,218	16,171	1,178	6.3%	64,760	56,532	4,908	-12.7%
SE LP	5,495	6,577	768	19.7%	22,798	23,054	3,146	1.1%
UP	0	0	0		0	0	0	
NLP	22,433	22,522	1,376	0.4%	92,992	78,720	5,872	-15.3%
SLP	46,856	52,042	1,968	11.1%	202,511	183,446	8,864	-9.4%
Statewide[c]	69,307	75,425	2,249	8.8%	295,503	262,166	10,784	-11.3%
Youth								
West UP	866	766	123	-11.5%	1,536	1,337	224	-13.0%
East UP	204	329	81	61.5%	397	539	139	35.8%
NE LP	1,797	1,719	181	-4.3%	3,234	2,940	328	-9.1%
NW LP	3,378	3,584	251	6.1%	6,733	6,216	475	-7.7%
Sag. Bay	3,001	3,314	251	10.4%	5,664	5,560	463	-1.8%
SW LP	2,502	2,657	225	6.2%	4,630	4,338	393	-6.3%
SC LP	3,066	3,427	250	11.8%	5,101	5,501	445	7.8%
SE LP	1,269	1,486	175	17.0%	2,439	2,377	301	-2.6%
UP	1,070	1,095	146	2.4%	1,933	1,876	263	-3.0%
NLP	5,983	6,322	314	5.7%	11,427	10,913	636	-4.5%
SLP	8,994	9,770	362	8.6%	16,374	16,018	766	-2.2%
Statewide[c]	16,059	17,238	350	7.3%	29,733	28,807	1,035	-3.1%

[a]Excludes people that did not hunt during the season.
[b]95% confidence limit for the 2002 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.

Table 3 (continued). Number of deer hunters and hunting effort in Michigan by hunting season, 2001-2002.

Season and Area	Number of hunters[a] 2001	2002	95% CL[b]	Change from 2001 to 2002	Hunting effort (days) 2001	2002	95% CL[b]	Change from 2001 to 2002
Early Antlerless in DMU 055								
West UP	604	708	56	17.3%	1,644	1,847	168	12.4%
East UP	0	0	0		0	0	0	
NE LP	0	0	0		0	0	0	
NW LP	0	0	0		0	0	0	
Sag. Bay	0	0	0		0	0	0	
SW LP	0	0	0		0	0	0	
SC LP	0	0	0		0	0	0	
SE LP	0	0	0		0	0	0	
UP	604	708	56	17.3%	1,644	1,847	168	12.4%
NLP	0	0	0		0	0	0	
SLP	0	0	0		0	0	0	
Statewide[c]	612	752	56	22.8%	1,644	1,847	169	12.4%
All Seasons								
West UP	95,666	93,136	2,694	-2.6%	978,463	964,533	39,421	-1.4%
East UP	34,709	35,419	1,776	2.0%	341,024	342,799	25,206	0.5%
NE LP	154,839	147,479	3,348	-4.8%	1,516,675	1,467,376	51,887	-3.3%
NW LP	168,423	164,463	3,472	-2.4%	1,830,405	1,843,914	60,267	0.7%
Sag. Bay	121,219	121,152	3,078	-0.1%	1,550,356	1,535,460	58,178	-1.0%
SW LP	114,460	114,659	2,966	0.2%	1,661,974	1,613,963	61,142	-2.9%
SC LP	133,130	133,214	3,186	0.1%	1,863,226	1,869,246	66,754	0.3%
SE LP	58,886	59,175	2,247	0.5%	820,010	812,135	44,220	-1.0%
UP	129,033	126,869	3,052	-1.7%	1,319,487	1,307,332	46,791	-0.9%
NLP	355,174	343,675	4,239	-3.2%	3,850,245	3,804,836	85,640	-1.2%
SLP	365,257	365,743	4,130	0.1%	5,392,402	5,337,258	111,914	-1.0%
Statewide[c]	753,059	740,529	1,968	-1.7%	10,562,134	10,449,426	149,135	-1.1%

[a]Excludes people that did not hunt during the season.
[b]95% confidence limit for the 2002 estimate.
[c]Number of hunters does not add up to statewide total because hunters can hunt in more than one area.

Table 4. Mean number of days hunters spent hunting deer in Michigan by hunting season, 2002.[a]

	Season															
	Archery		Regular Firearm		Muzzle-loader		Early Antlerless		Late Antlerless		Youth		Early Antlerless in DMU 055		All Seasons	
Area	Hunting effort ($\bar{x}$ days)	95% CL[b]	Hunting effort ($\bar{x}$ days)	95% CL[b]	Hunting effort ($\bar{x}$ days)	95% CL[b]	Hunting effort ($\bar{x}$ days)	95% CL[b]	Hunting effort ($\bar{x}$ days)	95% CL[b]	Hunting effort ($\bar{x}$ days)	95% CL[b]	Hunting effort ($\bar{x}$ days)	95% CL[b]	Hunting effort ($\bar{x}$ days)	95% CL[b]
West UP	10.9	0.6	7.3	0.1	5.1	0.2	0.0	0.0	0.0	0.0	1.8	0.1	2.7	0.1	10.3	0.3
East UP	10.7	1.1	6.7	0.2	4.6	0.3	0.0	0.0	0.0	0.0	1.6	0.1	0.0	0.0	9.7	0.5
NE LP	10.4	0.4	6.1	0.1	4.2	0.2	4.0	0.3	3.7	0.2	1.7	0.0	0.0	0.0	9.9	0.3
NW LP	12.0	0.4	6.1	0.1	4.1	0.1	0.0	0.0	3.6	0.2	1.7	0.0	0.0	0.0	11.2	0.3
Sag. Bay	13.1	0.5	6.0	0.1	4.0	0.1	0.0	0.0	3.5	0.2	1.7	0.0	0.0	0.0	12.7	0.4
SW LP	14.3	0.5	6.7	0.1	4.2	0.1	0.0	0.0	3.7	0.2	1.6	0.0	0.0	0.0	14.2	0.4
SC LP	14.7	0.5	6.4	0.1	4.1	0.1	0.0	0.0	3.6	0.2	1.6	0.0	0.0	0.0	14.1	0.4
SE LP	13.4	0.6	6.0	0.2	3.8	0.2	0.0	0.0	3.6	0.3	1.6	0.1	0.0	0.0	13.8	0.5
UP	10.9	0.6	7.2	0.1	4.9	0.2	0.0	0.0	0.0	0.0	1.7	0.1	2.7	0.1	10.3	0.3
NLP	11.7	0.3	6.2	0.1	4.2	0.1	4.0	0.3	3.7	0.1	1.7	0.0	0.0	0.0	11.1	0.2
SLP	14.7	0.3	6.6	0.1	4.2	0.1	0.0	0.0	3.7	0.1	1.6	0.0	0.0	0.0	14.6	0.2
Statewide	14.7	0.2	7.1	0.0	4.5	0.1	4.0	0.3	3.7	0.1	1.7	0.0	2.7	0.1	14.3	0.2

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

Table 5. Number of deer harvested in Michigan, 2000-2002.

Season or permit	Type of deer	2000	2001	2002	Change from 2001 to 2002
Season					
Archery	Antlerless	52,760	52,942	53,258	0.6%
	Antlered bucks	76,166	66,975	64,517	-3.7%
	Sexes combined	128,926	119,918	117,775	-1.8%
Regular firearm	Antlerless	146,734	123,440	133,524	8.2%
	Antlered bucks	197,290	157,388	165,412	5.1%
	Sexes combined	344,024	280,828	298,936	6.4%
Muzzleloader	Antlerless	20,187	18,230	20,792	14.1%
	Antlered bucks	8,830	7,929	8,233	3.8%
	Sexes combined	29,017	26,159	29,026	11.0%
Early antlerless	Antlerless	2,287	5,232	2,307	-55.9%
Late antlerless	Antlerless	25,129	20,421	17,876	-12.5%
Youth	Antlerless	1,366	1,754	2,004	14.2%
	Antlered bucks	3,626	2,978	3,142	5.5%
	Sexes combined	4,992	4,733	5,146	8.7%
DMU 055[a]	Antlerless	0	698	811	16.2%
Special permits[b]	Antlerless	7,327	5,717	4,338	-24.1%
Grand Total	Antlerless	255,790	228,435	234,911	2.8%
	Antlered bucks	285,911	235,271	241,304	2.6%
	Sexes combined	541,701	463,706	476,215	2.7%

[a]Special early antlerless season in DMU 055 did not occur prior to 2001.
[c]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, 2001-2002.[a]

Season and Area	Antlerless 2001 Harvest	Antlerless 2002 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2001 to 2002	Antlered Bucks 2001 Harvest	Antlered Bucks 2002 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2001 to 2002	Sexes Combined 2001 Harvest	Sexes Combined 2002 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2001 to 2002
Archery												
West UP	6,311	5,559	737	-11.9%	4,790	3,816	595	-20.3%	11,104	9,371	995	-15.6%
East UP	1,927	1,159	332	-39.8%	816	883	286	8.2%	2,744	2,042	466	-25.6%
NE LP	6,588	4,917	703	-25.4%	5,841	4,631	686	-20.7%	12,431	9,546	1,038	-23.2%
NW LP	9,907	10,673	1,125	7.7%	11,336	9,976	1,002	-12.0%	21,244	20,645	1,643	-2.8%
Sag. Bay	8,716	8,586	1,023	-1.5%	10,897	11,495	1,091	5.5%	19,613	20,082	1,606	2.4%
SW LP	6,814	7,532	914	10.5%	11,831	10,937	1,066	-7.6%	18,642	18,471	1,526	-0.9%
SC LP	8,464	9,959	1,089	17.7%	15,835	16,554	1,327	4.5%	24,294	26,519	1,910	9.2%
SE LP	4,217	4,873	715	15.6%	5,630	6,225	786	10.6%	9,847	11,099	1,178	12.7%
UP	8,237	6,718	808	-18.4%	5,606	4,700	661	-16.2%	13,848	11,413	1,099	-17.6%
NLP	20,216	18,471	1,441	-8.6%	20,673	17,702	1,336	-14.4%	40,894	36,166	2,119	-11.6%
SLP	24,489	28,069	1,807	14.6%	40,696	42,116	2,096	3.5%	65,176	70,196	3,038	7.7%
Statewide	52,942	53,258	2,473	0.6%	66,975	64,517	2,582	-3.7%	119,918	117,775	3,889	-1.8%
Regular Firearm												
West UP	13,646	11,977	1,188	-12.2%	27,540	24,661	1,558	-10.5%	41,188	36,647	2,108	-11.0%
East UP	2,980	2,688	570	-9.8%	6,463	4,272	644	-33.9%	9,443	6,961	913	-26.3%
NE LP	18,651	16,628	1,399	-10.8%	25,017	23,975	1,541	-4.2%	43,669	40,606	2,242	-7.0%
NW LP	27,128	26,931	1,778	-0.7%	28,965	26,596	1,622	-8.2%	56,092	53,521	2,583	-4.6%
Sag. Bay	16,669	19,177	1,481	15.0%	21,011	24,475	1,585	16.5%	37,680	43,653	2,354	15.9%
SW LP	17,814	23,791	1,750	33.6%	18,564	24,576	1,589	32.4%	36,377	48,362	2,601	32.9%
SC LP	21,529	26,204	1,734	21.7%	23,907	29,604	1,733	23.8%	45,435	55,805	2,666	22.8%
SE LP	5,023	6,128	791	22.0%	5,921	7,253	841	22.5%	10,944	13,381	1,218	22.3%
UP	16,625	14,665	1,318	-11.8%	34,003	28,933	1,686	-14.9%	50,631	43,608	2,297	-13.9%
NLP	50,863	49,140	2,395	-3.4%	60,692	57,838	2,395	-4.7%	111,553	106,975	3,641	-4.1%
SLP	55,952	69,720	2,875	24.6%	62,694	78,641	2,832	25.4%	118,644	148,353	4,398	25.0%
Statewide	123,440	133,524	4,003	8.2%	157,388	165,412	4,104	5.1%	280,828	298,936	6,204	6.4%

[a]Harvest estimates do not include deer taken with DMA permits. An additional 4,338 deer were taken with these permits.
[b]95% confidence limit for the 2002 estimate.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2001-2002.[a]

Season and Area	Antlerless 2001 Harvest	Antlerless 2002 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2001 to 2002	Antlered Bucks 2001 Harvest	Antlered Bucks 2002 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2001 to 2002	Sexes Combined 2001 Harvest	Sexes Combined 2002 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2001 to 2002
Muzzleloader												
West UP	2,831	2,298	481	-18.8%	1,076	1,371	356	27.4%	3,907	3,665	615	-6.2%
East UP	831	551	254	-33.6%	454	345	179	-23.9%	1,285	895	310	-30.3%
NE LP	1,682	1,676	411	-0.3%	968	991	300	2.4%	2,651	2,664	514	0.5%
NW LP	2,986	3,158	565	5.8%	492	796	267	61.7%	3,474	3,959	648	14.0%
Sag. Bay	2,506	3,333	592	33.0%	1,054	754	262	-28.5%	3,561	4,092	655	14.9%
SW LP	3,055	3,781	620	23.8%	1,572	1,827	408	16.2%	4,628	5,604	764	21.1%
SC LP	3,345	4,899	694	46.5%	1,714	1,476	366	-13.9%	5,061	6,380	814	26.1%
SE LP	995	1,096	325	10.2%	598	673	242	12.6%	1,593	1,766	412	10.9%
UP	3,662	2,850	544	-22.2%	1,530	1,716	398	12.2%	5,191	4,560	689	-12.2%
NLP	5,682	5,659	754	-0.4%	1,660	2,026	429	22.0%	7,338	7,687	890	4.8%
SLP	8,886	12,284	1,114	38.2%	4,738	4,491	637	-5.2%	13,629	16,779	1,318	23.1%
Statewide	18,230	20,792	1,460	14.1%	7,929	8,233	880	3.8%	26,159	29,026	1,748	11.0%
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	3,135	2,307	546	-26.4%	0	0	0		3,135	2,307	546	-26.4%
NW LP	2,097	0	0	-100.0%	0	0	0		2,097	0	0	-100.0%
Sag. Bay	0	0	0		0	0	0		0	0	0	
SW LP	0	0	0		0	0	0		0	0	0	
SC LP	0	0	0		0	0	0		0	0	0	
SE LP	0	0	0		0	0	0		0	0	0	
UP	0	0	0		0	0	0		0	0	0	
NLP	5,232	2,307	546	-55.9%	0	0	0		5,232	2,307	546	-55.9%
SLP	0	0	0		0	0	0		0	0	0	
Statewide	5,232	2,307	561	-55.9%	0	0	0		5,232	2,307	561	-55.9%

[a]Harvest estimates do not include deer taken with DMA permits. An additional 4,338 deer were taken with these permits.
[b]95% confidence limit for the 2002 estimate.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2001-2002.[a]

Season and Area	Antlerless 2001 Harvest	Antlerless 2002 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2001 to 2002	Antlered Bucks 2001 Harvest	Antlered Bucks 2002 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2001 to 2002	Sexes Combined 2001 Harvest	Sexes Combined 2002 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2001 to 2002
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	2,378	2,098	471	-11.8%	0	0	0		2,378	2,098	471	-11.8%
NW LP	4,485	3,242	574	-27.7%	0	0	0		4,485	3,242	574	-27.7%
Sag. Bay	2,971	2,514	499	-15.4%	0	0	0		2,971	2,514	499	-15.4%
SW LP	4,570	4,232	698	-7.4%	0	0	0		4,570	4,232	698	-7.4%
SC LP	4,745	4,134	685	-12.9%	0	0	0		4,745	4,134	685	-12.9%
SE LP	1,272	1,656	411	30.2%	0	0	0		1,272	1,656	411	30.2%
UP	0	0	0		0	0	0		0	0	0	
NLP	7,484	5,629	763	-24.8%	0	0	0		7,484	5,629	763	-24.8%
SLP	12,938	12,247	1,159	-5.3%	0	0	0		12,938	12,247	1,159	-5.3%
Statewide	20,421	17,876	1,395	-12.5%	0	0	0		20,421	17,876	1,395	-12.5%
Youth												
West UP	90	127	51	41.2%	231	128	51	-44.5%	321	255	71	-20.5%
East UP	36	38	28	5.9%	24	44	30	84.7%	60	82	41	37.3%
NE LP	257	254	71	-1.5%	265	273	74	3.1%	522	526	103	0.8%
NW LP	407	425	92	4.3%	691	787	126	13.8%	1,099	1,211	156	10.3%
Sag. Bay	311	368	86	18.1%	752	634	113	-15.6%	1,063	1,002	142	-5.7%
SW LP	234	247	71	5.9%	319	331	93	3.8%	552	578	116	4.7%
SC LP	311	406	90	30.3%	511	672	116	31.6%	822	1,078	147	31.1%
SE LP	108	140	68	29.6%	186	273	74	46.4%	294	412	101	40.2%
UP	126	165	58	31.1%	255	173	59	-32.3%	381	337	82	-11.4%
NLP	808	812	128	0.4%	1,118	1,256	159	12.3%	1,927	2,068	204	7.3%
SLP	820	1,027	150	25.2%	1,605	1,714	191	6.8%	2,425	2,741	242	13.0%
Statewide	1,754	2,004	206	14.2%	2,978	3,142	256	5.5%	4,733	5,146	329	8.7%

[a]Harvest estimates do not include deer taken with DMA permits. An additional 4,338 deer were taken with these permits.
[b]95% confidence limit for the 2002 estimate.

Table 6 (continued). Number of deer harvested in Michigan by hunting season, 2001-2002.[a]

Season and Area	Antlerless 2001 Harvest	Antlerless 2002 Harvest	Antlerless 95% CL[b]	Antlerless Change from 2001 to 2002	Antlered Bucks 2001 Harvest	Antlered Bucks 2002 Harvest	Antlered Bucks 95% CL[b]	Antlered Bucks Change from 2001 to 2002	Sexes Combined 2001 Harvest	Sexes Combined 2002 Harvest	Sexes Combined 95% CL[b]	Sexes Combined Change from 2001 to 2002
Early Antlerless in DMU 055												
West UP	698	811	46	16.2%	0	0	0		698	811	46	16.2%
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	0	0		0	0	0		0	0	0	
Sag. Bay	0	0	0		0	0	0		0	0	0	
SW LP	0	0	0		0	0	0		0	0	0	
SC LP	0	0	0		0	0	0		0	0	0	
SE LP	0	0	0		0	0	0		0	0	0	
UP	698	811	46	16.2%	0	0	0		698	811	46	16.2%
NLP	0	0	0		0	0	0		0	0	0	
SLP	0	0	0		0	0	0		0	0	0	
Statewide	698	811	46	16.2%	0	0	0		698	811	46	16.2%
All Seasons												
West UP	23,581	20,766	1,577	-11.9%	33,624	29,949	1,771	-10.9%	57,206	50,723	2,604	-11.3%
East UP	5,776	4,439	728	-23.2%	7,755	5,539	741	-28.6%	13,531	9,979	1,126	-26.3%
NE LP	32,687	27,776	1,937	-15.0%	32,081	29,855	1,778	-6.9%	64,767	57,629	2,904	-11.0%
NW LP	47,004	44,453	2,496	-5.4%	41,477	38,164	2,005	-8.0%	88,480	82,606	3,572	-6.6%
Sag. Bay	31,180	33,999	2,190	9.0%	33,718	37,376	2,045	10.8%	64,898	71,374	3,376	10.0%
SW LP	32,480	39,603	2,436	21.9%	32,294	37,669	2,086	16.6%	64,774	77,265	3,686	19.3%
SC LP	38,390	45,628	2,590	18.9%	41,979	48,332	2,366	15.1%	80,369	93,957	4,046	16.9%
SE LP	11,621	13,910	1,305	19.7%	12,342	14,435	1,265	17.0%	23,963	28,343	2,057	18.3%
UP	29,357	25,205	1,737	-14.1%	41,379	35,489	1,920	-14.2%	70,737	60,702	2,836	-14.2%
NLP	90,282	81,941	3,339	-9.2%	84,126	78,819	2,890	-6.3%	174,406	160,749	4,911	-7.8%
SLP	103,079	123,427	4,240	19.7%	109,766	127,012	3,817	15.7%	212,845	250,426	6,532	17.7%
Statewide	222,718	230,573	5,723	3.5%	235,271	241,320	5,194	2.6%	457,989	471,877	8,719	3.0%

[a]Harvest estimates do not include deer taken with DMA permits. An additional 4,338 deer were taken with these permits.
[b]95% confidence limit for the 2002 estimate.

Table 7. Number of deer harvested on public and private lands during all seasons combined in Michigan by management region, 2001-2002.[a]

Season and Area	Antlerless				Antlered Bucks				Sexes Combined			
	2001 Harvest	2002 Harvest	95% CL[b]	Change from 2001 to 2002	2001 Harvest	2002 Harvest	95% CL[b]	Change from 2001 to 2002	2001 Harvest	2002 Harvest	95% CL[b]	Change from 2001 to 2002
Public Lands												
West UP	6,858	5,471	764	-20.2%	12,207	10,277	1,023	-15.8%	19,064	15,751	1,351	-17.4%
East UP	1,484	1,082	320	-27.1%	2,986	2,253	472	-24.5%	4,470	3,336	604	-25.4%
NE LP	8,838	6,070	804	-31.3%	9,574	9,119	970	-4.8%	18,413	15,189	1,336	-17.5%
NW LP	8,798	6,990	845	-20.5%	10,710	8,962	941	-16.3%	19,508	15,951	1,340	-18.2%
Sag. Bay	2,930	3,312	582	13.0%	4,475	4,868	709	8.8%	7,405	8,180	1,004	10.5%
SW LP	2,282	2,522	512	10.5%	2,417	2,466	495	2.0%	4,700	4,986	777	6.1%
SC LP	2,635	3,317	598	25.9%	2,795	3,459	589	23.8%	5,430	6,774	907	24.7%
SE LP	1,111	807	276	-27.3%	1,282	871	290	-32.0%	2,393	1,678	425	-29.9%
UP	8,342	6,553	828	-21.4%	15,193	12,530	1,127	-17.5%	23,534	19,088	1,479	-18.9%
NLP	18,522	14,263	1,213	-23.0%	22,230	20,225	1,430	-9.0%	40,753	34,487	1,994	-15.4%
SLP	8,072	8,754	961	8.5%	9,023	9,521	980	5.5%	17,096	18,270	1,490	6.9%
Statewide	34,937	29,570	1,772	-15.4%	46,447	42,275	2,086	-9.0%	81,383	71,845	2,920	-11.7%
Private Lands												
West UP	16,715	15,311	1,341	-8.4%	21,411	19,691	1,428	-8.0%	38,128	35,006	2,139	-8.2%
East UP	4,291	3,359	639	-21.7%	4,767	3,291	554	-31.0%	9,058	6,650	905	-26.6%
NE LP	23,840	21,720	1,732	-8.9%	22,504	20,748	1,477	-7.8%	46,343	42,467	2,507	-8.4%
NW LP	38,202	37,470	2,325	-1.9%	30,765	29,207	1,761	-5.1%	68,966	66,670	3,254	-3.3%
Sag. Bay	28,254	30,681	2,091	8.6%	29,245	32,499	1,918	11.1%	57,500	63,182	3,178	9.9%
SW LP	30,204	37,067	2,348	22.7%	29,881	35,185	2,019	17.8%	60,084	72,251	3,550	20.2%
SC LP	35,763	42,297	2,511	18.3%	39,189	44,851	2,287	14.4%	74,952	87,151	3,911	16.3%
SE LP	10,512	13,097	1,267	24.6%	11,061	13,557	1,231	22.6%	21,573	26,654	1,995	23.6%
UP	21,006	18,671	1,485	-11.1%	26,179	22,981	1,532	-12.2%	47,186	41,656	2,322	-11.7%
NLP	71,750	67,700	3,074	-5.6%	61,890	58,612	2,496	-5.3%	133,638	126,304	4,398	-5.5%
SLP	95,025	114,632	4,093	20.6%	100,755	117,435	3,682	16.6%	195,781	232,071	6,285	18.5%
Statewide	187,781	201,003	5,375	7.0%	188,824	199,029	4,734	5.4%	376,605	400,032	8,073	6.2%

[a]Harvest estimates do not include deer taken with DMA permits. An additional 4,338 deer were taken with these permits.
[b]95% confidence limit for the 2002 estimate.

Table 8. Percentage of deer hunters harvesting deer in Michigan during all seasons, 2002.[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	17.2%	1.1%	3.4%	0.5%	0.8%	0.2%	0.2%	0.1%	0.1%	0.1%
East UP	10.6%	1.6%	1.5%	0.6%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%
NE LP	14.7%	0.9%	2.9%	0.4%	0.6%	0.2%	0.2%	0.1%	0.0%	0.0%
NW LP	20.4%	0.9%	4.5%	0.5%	1.2%	0.3%	0.3%	0.1%	0.0%	0.1%
Sag. Bay	21.3%	1.1%	4.3%	0.6%	1.3%	0.3%	0.4%	0.2%	0.2%	0.1%
SW LP	25.0%	1.2%	6.2%	0.7%	1.6%	0.3%	0.7%	0.2%	0.2%	0.1%
SC LP	25.3%	1.1%	5.8%	0.6%	1.8%	0.3%	0.4%	0.2%	0.1%	0.1%
SE LP	19.1%	1.5%	3.4%	0.7%	0.5%	0.3%	0.1%	0.1%	0.0%	0.0%
UP	15.6%	0.9%	2.9%	0.4%	0.6%	0.2%	0.1%	0.1%	0.1%	0.0%
NLP	18.3%	0.6%	3.8%	0.3%	0.9%	0.2%	0.2%	0.1%	0.0%	0.0%
SLP	24.7%	0.7%	5.9%	0.4%	1.6%	0.2%	0.5%	0.1%	0.2%	0.1%
Statewide	23.2%	0.4%	5.5%	0.2%	1.5%	0.1%	0.5%	0.1%	0.2%	0.0%
Antlered Bucks[c]										
West UP	28.3%	1.4%	3.1%	0.5%						
East UP	14.7%	1.8%	0.6%	0.4%						
NE LP	18.2%	1.0%	1.6%	0.3%						
NW LP	20.2%	0.9%	2.1%	0.3%						
Sag. Bay	26.0%	1.2%	3.8%	0.5%						
SW LP	27.3%	1.3%	4.7%	0.6%						
SC LP	29.8%	1.2%	5.4%	0.6%						
SE LP	20.6%	1.6%	2.9%	0.7%						
UP	25.0%	1.2%	2.4%	0.4%						
NLP	20.5%	0.7%	2.1%	0.2%						
SLP	29.0%	0.7%	5.1%	0.3%						
Statewide	28.1%	0.5%	4.3%	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, 2002.[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	39.7%	1.5%	10.4%	0.9%	2.2%	0.4%	0.6%	0.2%	0.0%	0.0%
East UP	23.0%	2.1%	3.8%	1.0%	0.6%	0.4%	0.2%	0.2%	0.1%	0.1%
NE LP	29.2%	1.1%	6.8%	0.6%	1.7%	0.3%	0.5%	0.2%	0.1%	0.1%
NW LP	35.3%	1.1%	9.9%	0.7%	2.9%	0.4%	0.8%	0.2%	0.2%	0.2%
Sag. Bay	40.5%	1.3%	12.3%	0.9%	3.2%	0.5%	1.0%	0.3%	0.2%	0.2%
SW LP	43.0%	1.4%	15.3%	1.0%	4.9%	0.6%	1.9%	0.4%	0.2%	0.2%
SC LP	45.6%	1.3%	15.7%	0.9%	5.2%	0.6%	1.7%	0.3%	0.1%	0.1%
SE LP	34.1%	1.9%	9.9%	1.2%	2.2%	0.6%	0.7%	0.3%	0.5%	0.5%
UP	35.6%	1.3%	8.7%	0.7%	1.8%	0.3%	0.5%	0.1%	0.1%	0.1%
NLP	33.7%	0.8%	8.9%	0.5%	2.4%	0.3%	0.6%	0.1%	0.1%	0.1%
SLP	44.2%	0.8%	15.4%	0.6%	4.8%	0.3%	1.7%	0.2%	0.5%	0.5%
Statewide	42.7%	0.5%	14.1%	0.4%	4.3%	0.2%	1.4%	0.1%	0.5%	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, 2002.[a]

Sex and Area	Season															
	Archery		Regular Firearm		Muzzleloader		Early Antlerless		Late Antlerless		Youth		Early Antlerless in DMU 055		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]	Success	95% CL[b]	Success	95% CL[b]
Antlerless																
West UP	19.9%	2.4%	11.9%	1.0%	13.0%	2.5%	0.0%	0.0%	0.0%	0.0%	16.3%	6.0%	67.4%	5.1%	17.2%	1.1%
East UP	11.4%	3.1%	7.4%	1.4%	6.5%	2.8%	0.0%	0.0%	0.0%	0.0%	11.4%	7.9%	0.0%	0.0%	10.6%	1.6%
NE LP	9.5%	1.3%	10.8%	0.8%	6.3%	1.5%	29.8%	5.9%	21.7%	4.2%	14.5%	3.8%	0.0%	0.0%	14.7%	0.9%
NW LP	13.5%	1.3%	15.6%	0.9%	10.0%	1.7%	0.0%	0.0%	24.5%	3.7%	11.7%	2.4%	0.0%	0.0%	20.4%	0.9%
Sag. Bay	12.2%	1.3%	16.1%	1.1%	10.0%	1.6%	0.0%	0.0%	20.1%	3.5%	10.9%	2.4%	0.0%	0.0%	21.3%	1.1%
SW LP	12.3%	1.4%	19.8%	1.2%	10.0%	1.6%	0.0%	0.0%	18.0%	2.6%	9.2%	2.5%	0.0%	0.0%	25.0%	1.2%
SC LP	13.3%	1.3%	19.9%	1.1%	12.4%	1.6%	0.0%	0.0%	22.6%	3.1%	11.7%	2.5%	0.0%	0.0%	25.3%	1.1%
SE LP	12.4%	1.7%	13.2%	1.6%	6.2%	1.8%	0.0%	0.0%	23.6%	5.0%	9.3%	4.3%	0.0%	0.0%	19.1%	1.5%
UP	17.7%	1.9%	10.8%	0.9%	11.0%	1.9%	0.0%	0.0%	0.0%	0.0%	14.8%	4.8%	67.4%	5.1%	15.6%	0.9%
NLP	12.1%	0.9%	13.6%	0.6%	8.6%	1.1%	29.8%	5.9%	22.7%	2.6%	12.7%	1.9%	0.0%	0.0%	18.3%	0.6%
SLP	13.1%	0.8%	19.0%	0.7%	10.6%	0.9%	0.0%	0.0%	20.8%	1.7%	10.4%	1.4%	0.0%	0.0%	24.7%	0.7%
Statewide	14.5%	0.6%	16.6%	0.4%	10.4%	0.7%	29.8%	5.9%	21.4%	1.4%	11.6%	1.1%	67.4%	5.1%	23.2%	0.4%
Antlered Bucks																
West UP	14.7%	2.1%	27.3%	1.5%	8.4%	2.1%	0.0%	0.0%	0.0%	0.0%	16.5%	6.0%	0.0%	0.0%	28.3%	1.4%
East UP	8.9%	2.8%	13.3%	1.9%	4.7%	2.4%	0.0%	0.0%	0.0%	0.0%	13.3%	8.4%	0.0%	0.0%	14.7%	1.8%
NE LP	8.9%	1.2%	17.2%	1.0%	3.9%	1.2%	0.0%	0.0%	0.0%	0.0%	15.6%	3.9%	0.0%	0.0%	18.2%	1.0%
NW LP	14.0%	1.3%	17.3%	1.0%	2.6%	0.9%	0.0%	0.0%	0.0%	0.0%	21.6%	3.1%	0.0%	0.0%	20.2%	0.9%
Sag. Bay	18.2%	1.5%	22.0%	1.2%	2.4%	0.8%	0.0%	0.0%	0.0%	0.0%	18.9%	3.1%	0.0%	0.0%	26.0%	1.2%
SW LP	19.0%	1.6%	23.0%	1.3%	5.2%	1.2%	0.0%	0.0%	0.0%	0.0%	12.3%	3.2%	0.0%	0.0%	27.3%	1.3%
SC LP	23.3%	1.6%	24.1%	1.2%	3.8%	1.0%	0.0%	0.0%	0.0%	0.0%	19.3%	3.0%	0.0%	0.0%	29.8%	1.2%
SE LP	16.5%	1.9%	16.1%	1.7%	3.9%	1.4%	0.0%	0.0%	0.0%	0.0%	18.1%	4.5%	0.0%	0.0%	20.6%	1.6%
UP	13.2%	1.7%	23.7%	1.2%	7.3%	1.7%	0.0%	0.0%	0.0%	0.0%	15.5%	4.9%	0.0%	0.0%	25.0%	1.2%
NLP	12.5%	0.9%	17.8%	0.7%	3.2%	0.7%	0.0%	0.0%	0.0%	0.0%	19.6%	2.2%	0.0%	0.0%	20.5%	0.7%
SLP	21.1%	0.9%	23.4%	0.7%	4.0%	0.6%	0.0%	0.0%	0.0%	0.0%	17.3%	1.8%	0.0%	0.0%	29.0%	0.7%
Statewide	18.8%	0.7%	22.7%	0.5%	4.4%	0.5%	0.0%	0.0%	0.0%	0.0%	18.1%	1.3%	0.0%	0.0%	28.1%	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, 2002.[a]

Sex and Area	Season															
	Archery		Regular Firearm		Muzzleloader		Early Antlerless		Late Antlerless		Youth		Early Antlerless in DMU 055		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]	Success	95% CL[b]	Success	95% CL[b]
Sexes combined																
West UP	32.3%	2.8%	35.5%	1.6%	20.6%	3.0%	0.0%	0.0%	0.0%	0.0%	32.8%	7.6%	67.4%	5.1%	39.7%	1.5%
East UP	18.7%	3.8%	19.4%	2.2%	11.2%	3.6%	0.0%	0.0%	0.0%	0.0%	24.7%	10.7%	0.0%	0.0%	23.0%	2.1%
NE LP	17.2%	1.6%	25.7%	1.2%	10.1%	1.8%	29.8%	5.9%	21.7%	4.2%	30.2%	5.0%	0.0%	0.0%	29.2%	1.1%
NW LP	24.6%	1.6%	30.0%	1.1%	12.1%	1.8%	0.0%	0.0%	24.5%	3.7%	33.3%	3.5%	0.0%	0.0%	35.3%	1.1%
Sag. Bay	28.1%	1.8%	34.2%	1.4%	12.2%	1.8%	0.0%	0.0%	20.1%	3.5%	29.8%	3.6%	0.0%	0.0%	40.5%	1.3%
SW LP	28.3%	1.9%	37.8%	1.5%	14.7%	1.8%	0.0%	0.0%	18.0%	2.6%	21.4%	3.8%	0.0%	0.0%	43.0%	1.4%
SC LP	32.0%	1.8%	39.3%	1.4%	15.5%	1.8%	0.0%	0.0%	22.6%	3.1%	31.0%	3.6%	0.0%	0.0%	45.6%	1.3%
SE LP	25.6%	2.2%	27.4%	2.1%	9.9%	2.2%	0.0%	0.0%	23.6%	5.0%	27.4%	5.6%	0.0%	0.0%	34.1%	1.9%
UP	28.8%	2.3%	31.5%	1.3%	17.7%	2.4%	0.0%	0.0%	0.0%	0.0%	30.4%	6.2%	67.4%	5.1%	35.6%	1.3%
NLP	22.5%	1.1%	28.7%	0.8%	11.5%	1.2%	29.8%	5.9%	22.7%	2.6%	32.2%	2.6%	0.0%	0.0%	33.7%	0.8%
SLP	30.3%	1.0%	37.8%	0.8%	14.2%	1.0%	0.0%	0.0%	20.8%	1.7%	27.6%	2.1%	0.0%	0.0%	44.2%	0.8%
Statewide	29.7%	0.8%	35.3%	0.5%	14.4%	0.8%	29.8%	5.9%	21.4%	1.4%	29.7%	1.6%	67.4%	5.1%	42.7%	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 2002, summarized by Deer Management Unit.

Appendix A. Number of deer hunters, days spent hunting, and deer harvested in Michigan during 2002, 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	No.	95% CL	No.	95% CL	No.	95% CL	No.	95% CL
001	9,344	930	75,752	11,082	1,852	527	1,531	395	3,383	743
003	16,960	1,234	217,196	22,208	4,469	876	3,929	680	8,398	1,263
004	5,591	721	56,862	10,385	1,700	505	1,504	420	3,204	741
005	8,969	908	86,887	13,673	1,743	476	1,556	419	3,300	729
006	10,557	985	122,203	16,196	2,547	562	2,761	548	5,308	889
007	10,591	994	104,407	13,829	613	259	2,480	515	3,092	584
008	15,158	1,169	175,332	19,226	4,862	823	4,851	743	9,713	1,270
009	4,157	615	49,376	10,255	533	230	1,122	340	1,655	444
010	6,125	755	64,373	11,360	488	230	745	272	1,233	363
011	5,397	709	66,179	12,140	985	367	1,472	425	2,457	600
012	7,106	809	76,039	11,855	2,833	644	2,559	540	5,392	958
013	12,479	1,063	167,274	19,647	5,827	983	4,962	763	10,790	1,454
014	6,882	792	98,229	14,976	2,988	726	2,651	558	5,639	1,080
015	6,010	745	57,256	10,052	1,229	409	1,487	413	2,716	658
016	8,468	887	85,210	12,932	998	356	1,497	392	2,495	561
017	7,709	847	80,276	12,265	1,510	451	1,382	373	2,893	642
018	13,561	1,111	131,706	15,265	2,717	604	3,125	586	5,842	944
019	9,824	940	127,792	17,144	2,471	575	3,600	648	6,070	983
020	12,080	1,056	107,586	14,388	2,009	524	1,346	384	3,356	703
021	15,066	1,177	145,664	15,747	2,015	486	2,951	550	4,966	786
022	16,007	1,206	150,099	16,534	3,753	675	5,285	742	9,037	1,104
023	11,353	1,014	159,677	20,785	3,325	667	3,753	644	7,078	1,042
024	5,056	684	53,678	11,060	1,099	353	1,358	383	2,457	586
025	10,735	990	147,444	20,052	2,258	509	2,538	510	4,796	828
026	17,837	1,272	188,162	20,395	3,154	565	3,759	628	6,913	932
028	7,529	837	82,314	13,361	563	257	1,221	342	1,784	476
029	9,384	925	119,562	17,073	2,485	539	3,707	660	6,191	981
030	10,573	978	116,001	15,402	3,533	722	2,948	568	6,481	1,069
032	12,638	1,075	133,139	16,177	3,310	700	4,152	692	7,462	1,105
033	9,985	962	125,368	16,385	2,974	682	3,405	632	6,379	1,069
034	12,388	1,059	156,357	19,336	5,100	950	4,667	737	9,767	1,377

[a]Harvest estimates do not include deer taken with DMA permits. An additional 4,338 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.

Appendix A (continued). Number of deer hunters, days spent hunting, and deer harvested in Michigan during 2002, 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	No.	95% CL	No.	95% CL	No.	95% CL	No.	95% CL
035	12,902	1,089	129,191	15,959	2,442	563	3,057	564	5,499	879
036	17,116	1,254	143,914	13,909	3,711	690	4,609	705	8,320	1,107
037	11,549	1,024	143,337	17,551	3,869	794	3,810	642	7,680	1,136
038	18,540	1,293	251,833	25,697	6,633	1,005	6,047	858	12,680	1,555
039	9,650	938	128,638	18,001	3,819	751	3,401	655	7,220	1,184
040	11,597	1,034	103,974	13,103	1,478	402	1,129	326	2,607	557
041	16,601	1,219	197,308	20,521	3,879	698	3,852	647	7,731	1,068
042	3,595	578	35,600	7,658	71	58	1,114	364	1,184	370
043	24,288	1,478	217,131	19,680	5,318	802	3,709	623	9,028	1,107
044	16,166	1,205	212,651	23,104	4,864	814	4,572	727	9,437	1,252
045	4,183	623	49,687	10,536	471	218	972	306	1,443	425
046	9,234	920	109,447	15,235	2,289	551	2,635	537	4,924	880
047	14,468	1,150	195,731	22,198	3,763	698	3,827	670	7,589	1,135
048	6,745	797	57,528	9,668	254	166	993	303	1,246	353
049	11,982	1,052	109,549	14,493	1,852	457	1,619	405	3,472	680
050	5,081	686	60,452	11,539	989	343	1,039	307	2,028	519
051	15,831	1,199	154,293	17,582	5,010	885	3,246	583	8,258	1,202
053	15,353	1,174	161,234	17,745	6,439	992	4,531	693	10,971	1,349
054	16,015	1,199	171,698	18,974	5,335	949	4,894	747	10,229	1,382
055	13,199	1,010	121,282	11,573	6,069	824	5,779	727	11,848	1,209
056	12,907	1,079	180,960	21,871	4,227	801	3,833	665	8,060	1,196
057	12,394	1,066	115,625	13,897	3,219	629	2,724	538	5,943	946
058	4,715	657	50,311	9,376	513	238	686	268	1,199	385
059	18,536	1,285	222,493	22,371	6,377	963	6,586	879	12,963	1,442
060	9,990	964	78,283	11,259	1,386	438	1,465	380	2,851	628
061	10,517	974	137,567	19,024	2,290	548	2,196	497	4,486	819
062	26,982	1,548	295,788	25,053	6,407	953	6,315	841	12,722	1,427
063	11,855	1,042	148,678	18,830	2,340	522	2,606	551	4,946	843
064	12,176	1,050	141,571	18,051	2,724	601	2,707	531	5,431	923
065	17,692	1,270	181,103	18,609	3,198	644	4,178	658	7,375	1,052
066	13,522	1,119	131,578	15,401	1,887	479	4,600	715	6,486	971

[a]Harvest estimates do not include deer taken with DMA permits. An additional 4,338 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.

Appendix A (continued). Number of deer hunters, days spent hunting, and deer harvested in Michigan during 2002, 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	No.	95% CL	No.	95% CL	No.	95% CL	No.	95% CL
067	15,728	1,191	155,750	17,519	4,062	768	3,689	599	7,752	1,045
068	13,387	1,111	112,089	13,616	1,485	448	1,366	380	2,851	647
069	8,573	893	71,642	10,569	1,587	470	1,028	347	2,615	635
070	10,904	990	136,666	18,062	2,438	577	2,700	559	5,138	898
071	9,054	918	85,688	11,947	2,193	601	2,233	495	4,427	851
072	16,889	1,242	143,249	15,510	2,131	499	2,457	510	4,587	751
073	9,762	944	130,855	17,976	2,114	580	2,328	506	4,441	876
074	12,620	1,067	169,046	19,735	2,788	572	2,624	547	5,411	889
075	6,939	794	99,930	16,235	2,577	638	2,464	528	5,041	962
076	17,619	1,258	191,092	19,695	5,624	921	6,521	891	12,145	1,433
078	10,107	961	135,957	18,074	2,709	594	3,273	615	5,982	1,006
079	15,498	1,178	194,340	21,619	4,139	761	4,432	698	8,571	1,180
080	8,476	880	120,655	17,527	2,604	616	2,777	559	5,382	970
081	12,470	1,068	160,157	19,539	3,932	835	4,116	700	8,049	1,311
082	1,732	401	22,911	7,610	186	130	389	216	576	287
083	15,146	1,177	136,061	15,703	2,855	596	2,281	481	5,137	820
115	680	254	4,604	1,916	135	130	339	191	474	242
117	2,340	465	18,790	5,781	144	133	333	174	477	219
118	4,965	674	49,804	9,389	1,346	423	1,114	347	2,460	609
122	2,119	444	18,357	4,796	477	250	719	275	1,196	410
135	916	288	10,858	4,788	256	218	170	123	426	250
145	26	50	157	299	0	0	0	0	0	0
149	449	206	3,720	2,605	26	49	0	0	26	49
152	6,106	757	69,932	12,396	1,091	367	792	282	1,883	494
155	5,935	735	58,531	9,794	1,273	383	1,667	410	2,940	607
173	2,484	479	20,765	6,579	364	230	508	247	872	409
174	205	132	1,539	1,220	26	49	26	49	51	69
245	26	50	131	249	26	50	26	50	52	100
252	2,901	520	28,391	6,649	438	201	517	225	956	302
452	14,678	1,166	131,872	14,970	2,477	553	3,380	584	5,856	868

[a]Harvest estimates do not include deer taken with DMA permits. An additional 4,338 deer were taken with these permits.

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