MICHIGAN DEPARTMENT OF NATURAL RESOURCES
Wildlife Bureau Report No. 3303
November 1999

Printed by Authority of: P.A. 451 of 1994
Total Number of Copies Printed: 250
Cost per Copy: $137.20
Total Cost: .....$.55
Michigan Department of Natural Resources

MICHIGAN DEER HARVEST SURVEY REPORT 1998 SEASONS

By
Brian J. Frawley

ABSTRACT

A survey of Michigan deer hunters was conducted following the 1998-99 deer hunting season to determine deer harvest and hunter participation. Deer were pursued by 836,961 hunters. Hunters harvested 597,988 deer, an increase of 25% from 1997. In 1998, record numbers of deer were harvested statewide as well as during each season.

INTRODUCTION

During 1998, white-tailed deer could be harvested during (1) archery, (2) early firearm, (3) regular firearm, (4) muzzleloader, and (5) late firearm seasons. The archery, regular firearm, and muzzleloader seasons occurred statewide on public and private lands. The early and late firearm seasons generally were limited to private lands in the Lower Peninsula.

The statewide archery season was divided into an early and late season (i.e., October 1 to November 14 and December 1, 1998, to January 3, 1999). Archery, antlerless, and combination deer hunting licenses could be used to take deer during these seasons. An archery license generally allowed an individual to take one deer (either sex). Antlerless deer licenses allowed hunters to take deer without antlers or with antlers shorter than 3 inches. A combination license allowed a person to take two deer of either sex. If two antlered deer were taken, however, one of these deer needed to have at least one antler with four or more points (qualifying points must be at least 1 inch).

The statewide regular firearm season occurred November 15-30. The muzzleloader season was held December 4-13 in the Upper Peninsula and December 11-20 in the Lower Peninsula. Hunters were allowed to take deer with firearm, antlerless, and combination deer hunting licenses during these seasons. A firearm license allowed a person to take one deer with at least one antler 3 inches or longer. A hunter could take two antlered bucks with the combination license.

A contribution of Federal Aid in Wildlife Restoration, Michigan Project W-127-R.

Equal Rights for Natural Resources Users

The Michigan Department of Natural Resources (MDNR) provides equal opportunities for employment and for access to Michigan's natural resources. State and/or Federal laws prohibit discrimination on the basis of race, color, sex, national origin, religion, disability, age, martial status, height or weight. If you believe that you have been discriminated against in any program, activity, or facility, please write the MDNR, Office of Equal Opportunity and Legal Services, P.O. Box 30028, Lansing, MI 48909-7528, or the Michigan Department of Civil Rights, 1200 6th Avenue, Detroit, MI 48226, or the Office of Human Resources, U.S. Fish and Wildlife Service, Washington, DC 20240.

This publication is available in alternative formats. For additional information or assistance on this publication, contact: MDNR, Wildlife Bureau, P.O. Box 30444, Lansing, MI 48909-7944.

IC2390-8(11/18/1999)

The late firearm season, affecting most of the Lower Peninsula, occurred from December 19, 1998, through January 3, 1999. Hunters pursuing deer during this season generally possessed an antlerless license and were limited to hunting on private land.

Only hunters in the northeastern part of the Lower Peninsula (i.e., Deer Management Unit 452) pursued deer during both the early and special late firearm seasons. The early firearm season was held October 17-26, and the special late season occurred during December 11, 1998, through January 3, 1999. Hunters participating during these seasons possessed an antlerless license. Hunting was limited to private land during the early season but included both public and private lands during the special late season.

Crop Damage Block Permits and Deer Management Assistance Permits were special antlerless licenses. These permits were issued to landowners in areas experiencing severe crop damage, or areas where management objectives included controlling diseases or severe deer overpopulation. These permits allowed hunters to take an antlerless deer during any deer season on the land where issued. To use these permits, the hunter must have purchased a firearm, archery, combination, or antlerless deer license for the season in which they were hunting.

METHODS

Following the 1998-99 deer hunting seasons, a questionnaire was sent to 46,678 randomly selected people that had purchased a hunting license (firearm, archery, antlerless, or combination deer hunting licenses). Hunters receiving the questionnaire were asked to report which season they pursued deer, number of days spent afield, and number of deer harvested. The same questionnaire was used to collect information from hunters for all 1998-99 seasons. In contrast, questionnaires designed for specific seasons have been used to collect information during previous years (Table 1).

The Wildlife Bureau realigned management areas in 1998, consolidating 13 management areas (i.e., Districts) into 8 management units (Figure 1). Estimates of harvest, hunting effort, and hunter participation were calculated for both the old and new management units to maintain consistency with reports from previous years.

Questionnaires were mailed initially during early February 1999, and a reminder note and two follow-up questionnaires were mailed to nonrespondents. Although 46,678 people were sent the questionnaire, 1,946 surveys were undeliverable resulting in an adjusted sample size of 44,732 (Table 1). Questionnaires were returned by 28,631 people, yielding a 64% adjusted 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 (64% versus 74%). To reduce problems caused by this lower response rate, an adjustment was made on the 1998 estimates to make them comparable to the 1997 estimates.

RESULTS

Combination licenses were available for the first time in 1998. Because these new licenses allowed people to take two deer during any season, fewer single-season licenses were sold (Table 2). The total number of deer harvest tags sold increased 35% since last year. This increase is attributed to the sale of combination licenses and the increased sale of antlerless licenses (Table 2).

An estimated 836,961 people hunted deer during 1998. Hunter numbers for archery, regular firearm, and muzzleloader seasons were similar to previous years (Table 3). Hunter effort increased slightly from the previous year during these seasons (Tables 4-10). In contrast, hunter effort increased by 37% during the late antlerless season.

An estimated 597,988 deer were harvested in 1998, an increase of 25% from 1997 (Table 4). In 1998, record numbers of deer were harvested statewide as well as during each season (Figure 2). During the last 35 years (since 1963), the number of deer taken in the regular firearm season has nearly tripled from 124,000 to 351,000 animals. During this same period, harvest in the archery season has gone from 2,100 to 151,000 animals (more than a 70-fold increase). Moreover, about 29,000 deer were taken during the muzzleloader season in 1998, a season that did not exist 35 years ago.

Between 1997 and 1998, deer harvest for individual seasons increased from 19% for the archery season to 189% for the early antlerless season. Statewide buck harvest increased 18% from last year, while antlerless harvest increased 31%. Harvest of buck and antlerless deer increased similarly during the archery season. In contrast, harvest of antlerless deer increased more than the buck harvest during the firearm and muzzleloader seasons.

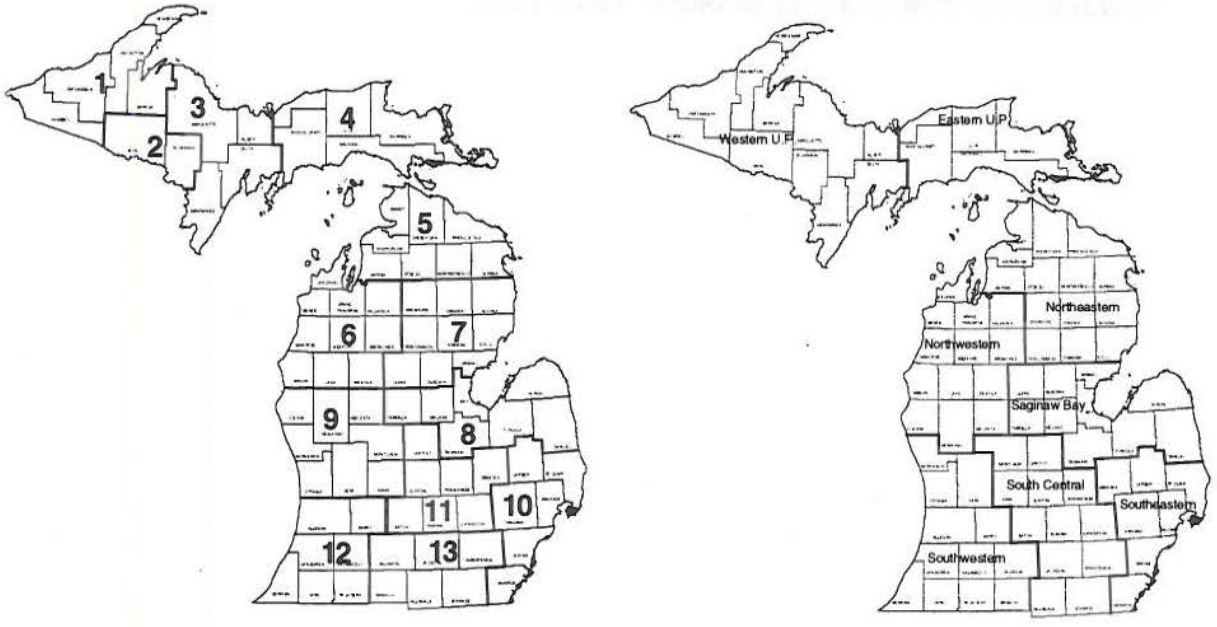

Figure 1. Boundaries of wildlife management areas during 1997 (left) and 1998 (right).

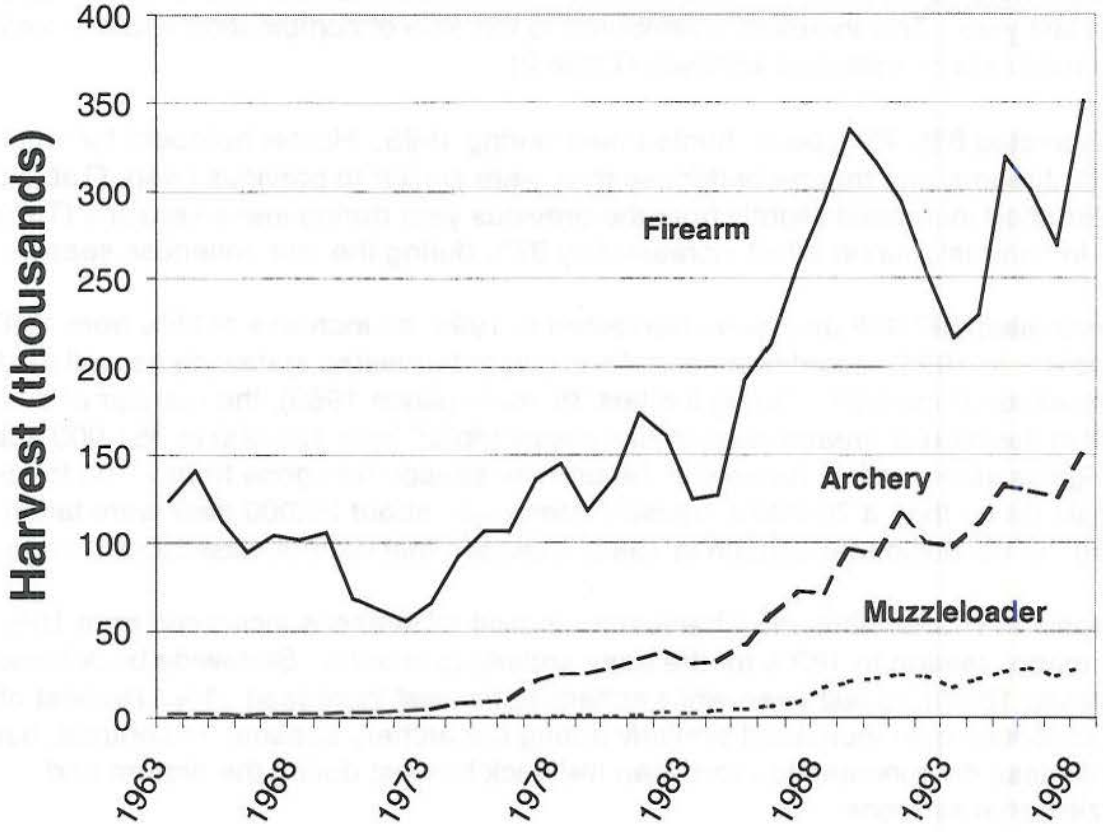

Figure 2. Deer harvest in Michigan during the regular firearm, archery, and muzzleloader deer hunting seasons, 1963-1998.

Table 1. Summary of deer questionnaire mailings and responses, 1996-1998.

	1996			1997		1998
	Firearm	**Archery**	**Antlerless**	**Multi-season***	**Antlerless**	**Multi-season***
Questionnaires sent	14,638	14,535	24,418	38,876	24,551	46,678
Questionnaires returned	11,469	11,378	18,780	28,046	19,622	28,631
Nondeliverable	329	337	424	1,214	369	1,946
Nonresponse	2,840	2,820	5,214	9,616	4,560	16,101
Percent of delivered questionnaires returned	80%	80%	78%	74%	81%	64%

*Sample for multi-season survey included hunters from firearm and archery seasons in 1997 and from firearm, archery, and antlerless seasons in 1998.

Table 2. Number of Michigan deer licenses sold, 1996-1998.

License or Permit	Number of Licenses Sold 1996	1997	1998	Change
Firearm				
Resident Firearm Deer	631,045	724,403	458,676	
Non-resident Firearm Deer	19,757	16,957	15,574	
Firearm Senior*	N/A	61,592	47,648	
Resident Military Firearm	N/A	48	92	
Archery				
Resident Archery Deer	271,174	360,694	170,693	
Non-resident Archery Deer	8,221	5,541	4,242	
Junior Archery Deer	28,903	31,028	18,989	
Archery Senior*	N/A	22,019	13,214	
Resident Military Archery	N/A	17	78	
Combination				
Senior Hunt**	82,529	N/A	N/A	
Sportsperson**	129,887	N/A	N/A	
Combo Resident***	N/A	N/A	393,037	
Combo Senior***	N/A	N/A	23,851	
Combo Junior***	N/A	N/A	26,304	
Combo Non-resident***	N/A	N/A	1,482	
Antlerless				
Resident Antlerless Deer****	386,961	400,866	644,828	
Non-resident Antlerless Deer****		3,706	6,415	
Jr. Antlerless Deer****	N/A	20,001	16,786	
Crop Damage Block	27,431	36,228	19,743	
Deer Management Assistance	1,142	1,619	747	
Early Antlerless	N/A	4,606	N/A	
Total Firearm Tags	863,218	803,000	521,990	
Total Archery Tags	520,714	419,299	207,216	
Total Combo Tags	N/A	N/A	889,348	
Total Antlerless Tags	415,534	467,026	688,519	
Total Deer Tags Sold	**1,799,466**	**1,689,325**	**2,278,636** ***	**34.9%**

* Seniors purchasing a 2nd firearm or archery tag had to purchase a 2nd resident tag.

** Each of these license types included 1 firearm deer license and 1 archery deer license.

***Allows person to take 2 deer during firearm or archery seasons; 28,437 people that had previously purchased either an archery or firearm license upgraded to a combo; 70,479 people that had previously purchased both an archery and firearm license were allowed to use their licenses as a combo license.

**** Does not include Harsens or Shiawassee antlerless permits. Permits were not separated by resident vs. non-resident in 1996.

N/A License type did not exist that year.

Table 3. Number of deer hunters in Michigan, 1996-1998.

	Statewide Number of Hunters			
Season	**1996**	**1997**	**1998**	**Change**
Archery	373,134	374,510	380,583	1.6%
Early			374,279	
Late			150,469	
Firearm	751,694	772,770	785,623	1.7%
Muzzleloader	188,753	203,640	207,445	1.9%
Late Antlerless			175,957	
All Seasons	*	*	836,961	

* Seasonal number of hunters does not add up to totals because a hunter could hunt in more than one season per year. Surveys were done separately for archery, firearm, and late antlerless seasons, so an estimate of overlap between seasons was not done.

Table 4. Michigan deer hunter-days and harvest by season, 1996-1998.

Season	Unit	1996	1997	1998	Change
Archery	Hunter-days	6,334,561	5,749,161	6,048,849	5.2%
	Buck Harvest	69,743	62,311	74,949	20.3%
	Antlerless Harvest	59,407	64,202	76,064	18.5%
	Total Harvest	129,150	126,513	151,013	19.4%
Firearm	Hunter-days	5,715,779	5,252,226	5,489,688	4.5%
	Buck Harvest	187,353	159,148	187,632	17.9%
	Antlerless Harvest	113,476	110,025	163,843	48.9%
	Total Harvest	300,829	269,173	351,475	30.6%
Muzzleloader	Hunter-days	874,259	879,331	923,691	5.0%
	Buck Harvest	10,212	8,973	9,319	3.9%
	Antlerless Harvest	18,049	14,579	19,765	35.6%
	Total Harvest	28,261	23,552	29,084	23.5%
Early Antlerless	Hunter-days	N/A	N/A	92,956	
	Antlerless Harvest	N/A	2,305	6,655	188.7%
Late Antlerless	Hunter-days	N/A	577,290	789,350	36.7%
	Buck Harvest*	N/A	251	453	80.5%
	Antlerless Harvest	N/A	30,933	43,631	41.1%
	Total Harvest	0	31,184	44,084	41.4%
Subtotal	Hunter-days	12,924,599	12,458,008	13,251,578	6.4%
(excluding Crop	Buck Harvest	267,308	230,683	272,353	18.1%
Damage Block	Antlerless Harvest	190,932	222,044	309,958	39.6%
and Deer Mgt. Asst. Permits)	Total Harvest	458,240	452,727	582,311	28.6%
Crop Damage Block & Deer Management Assistance Permits:	Hunter-days	N/A	N/A	N/A	
	Antlerless Harvest	20,102	25,998	15,679	-39.7%
Grand Total					
	Buck Harvest	267,308	230,683	272,352	18.1%
	Antlerless Harvest	211,034	248,042	325,636	31.3%
	Total Harvest	478,342	478,725	597,988	24.9%

N/A Not available.

*Antlerless deer reported as bucks.

Table 5. Number of archery deer hunter and hunter-days in Michigan by management unit, 1996-1998.

Management Unit*	1996 Hunters	1996 Hunter-days	1997** Hunters	1997** Hunter-days	1998** Hunters	1998** Change	1998** Hunter-days	1998** Change
District								
1	8,167	94,425	6,575	76,274	7,307	11.1%	99,277	30.2%
2	8,708	91,381	5,803	66,568	6,615	14.0%	73,525	10.5%
3	17,250	205,793	14,077	177,030	14,712	4.5%	191,121	8.0%
4	12,625	138,347	10,187	118,423	9,271	-9.0%	113,611	-4.1%
5	28,751	331,145	26,610	300,045	25,946	-2.5%	305,742	1.9%
6	50,376	612,692	50,287	589,257	50,996	1.4%	623,363	5.8%
7	69,210	801,911	65,537	725,880	65,765	0.3%	753,136	3.8%
8	45,335	655,997	43,805	625,332	44,315	1.2%	644,550	3.1%
9	57,376	999,603	57,356	904,523	56,957	-0.7%	913,991	1.0%
10	39,209	560,544	36,982	508,782	36,374	-1.6%	534,499	5.1%
11	42,459	680,056	41,674	615,720	41,663	0.0%	664,543	7.9%
12	32,418	585,878	30,777	494,657	31,889	3.6%	555,789	12.4%
13	37,126	576,789	35,624	546,670	37,715	5.9%	575,702	5.3%
Region								
West UP	NA	391,600	NA	319,872	27,390	NA	363,923	13.8%
East UP	NA	138,346	NA	118,423	9,270	NA	113,611	-4.1%
NE LP	NA	824,203	NA	715,032	66,419	NA	732,020	2.4%
NW LP	NA	1,019,632	NA	946,373	76,315	NA	979,705	3.5%
Sag. Bay	NA	964,851	NA	936,226	67,830	NA	971,408	3.8%
SW LP	NA	1,080,170	NA	977,887	62,522	NA	1,072,210	9.6%
SC LP	NA	1,228,099	NA	1,129,123	74,579	NA	1,175,707	4.1%
SE LP	NA	687,664	NA	606,224	42,676	NA	640,266	5.6%
Statewide* **	**373,134**	**6,334,561**	**374,510**	**5,749,161**	**380,583**	**1.6%**	**6,048,850**	**5.2%**

*Alger County totals included District 3 and West UP.

**Hunter-days during the late antlerless season are not included in this table.

***Number of hunters may not add up to statewide total because hunters may hunt in more than one area of the state during a season.

N/A Estimates not available.

Table 6. Number of firearm deer hunter and hunter-days in Michigan by management unit, 1996-1998.

Management Unit*	1996		1997**		1998**			
	Hunters	Hunter-days	Hunters	Hunter-days	Hunters	Change	Hunter-days	Change
District								
1	25,957	200,705	24,349	177,778	24,818	1.9%	187,853	5.7%
2	23,018	145,433	18,254	127,775	19,297	5.7%	135,078	5.7%
3	50,374	384,691	45,883	348,919	44,739	-2.5%	356,193	2.1%
4	34,423	240,708	29,237	203,773	26,864	-8.1%	193,260	-5.2%
5	70,175	460,551	63,703	397,515	67,286	5.6%	443,616	11.6%
6	104,947	664,572	106,027	614,653	103,835	-2.1%	641,700	4.4%
7	118,171	685,368	119,207	674,932	117,026	-1.8%	701,302	3.9%
8	74,163	455,855	77,347	471,311	78,287	1.2%	501,777	6.5%
9	102,568	728,965	106,460	695,666	104,622	-1.7%	681,588	-2.0%
10	42,749	251,762	43,160	239,463	42,984	-0.4%	254,528	6.3%
11	65,137	516,305	68,777	430,178	69,834	1.5%	465,496	8.2%
12	66,537	512,439	66,456	447,915	62,986	-5.2%	471,811	5.3%
13	66,606	468,427	65,002	422,348	66,724	2.6%	455,487	7.8%
Region								
West UP	NA	730,829	NA	654,473	86,861	NA	679,124	3.8%
East UP	NA	240,708	NA	203,774	26,868	NA	193,260	-5.2%
NE LP	NA	948,254	NA	833,808	146,479	NA	914,099	9.6%
NW LP	NA	966,217	NA	914,182	150,552	NA	934,162	2.2%
Sag. Bay	NA	653,520	NA	709,947	113,845	NA	732,596	3.2%
SW LP	NA	899,203	NA	790,748	114,212	NA	823,378	4.1%
SC LP	NA	925,039	NA	859,193	133,998	NA	904,887	5.3%
SE LP	NA	352,011	NA	286,102	50,848	NA	308,182	7.7%
Statewide* **	**751,694**	**5,715,779**	**772,770**	**5,252,226**	**785,623**	**1.7%**	**5,489,688**	**4.5%**

*Alger County totals included District 3 and West UP.

**Hunter-days during the late antlerless season are not included in this table.

***Number of hunters may not add up to statewide total because hunters may hunt in more than one area of the state during a season. Management unit estimates for hunter-days may not equal statewide total because of rounding errors.

N/A Estimates not available.

Table 7. Number of muzzleloader deer hunter and hunter-days in Michigan by management unit, 1996-1998.

Management Unit*	1996 Hunters	1996 Hunter-days	1997** Hunters	1997** Hunter-days	1998** Hunters	1998** Change	1998** Hunter-days	1998** Change
District								
1	3,004	16,236	3,334	15,720	3,477	4.3%	17,742	12.9%
2	3,143	12,712	2,717	12,233	2,928	7.8%	14,079	15.1%
3	8,313	35,719	8,489	39,574	8,499	0.1%	45,375	14.7%
4	7,265	39,934	4,877	24,190	5,342	9.5%	26,763	10.6%
5	14,110	61,006	11,854	53,610	12,837	8.3%	59,768	11.5%
6	16,555	76,690	17,102	65,965	19,094	11.6%	76,379	15.8%
7	20,467	74,756	21,886	85,906	22,053	0.8%	88,177	2.6%
8	21,934	82,631	24,510	100,309	24,476	-0.1%	103,337	3.0%
9	27,034	117,038	27,659	119,057	27,202	-1.7%	115,057	-3.4%
10	14,530	58,311	15,188	58,993	14,832	-2.3%	61,705	4.6%
11	21,235	90,438	22,720	95,081	23,326	2.7%	102,061	7.3%
12	23,262	111,926	23,121	107,160	23,759	2.8%	113,080	5.5%
13	21,166	96,864	23,214	101,533	22,845	-1.6%	100,166	-1.3%
Region								
West UP	NA	64,667	NA	67,528	14,449	NA	77,196	14.3%
East UP	NA	39,934	NA	24,189	5,344	NA	26,763	10.6%
NE LP	NA	113,377	NA	104,652	26,150	NA	113,086	8.1%
NW LP	NA	112,755	NA	107,435	28,553	NA	115,356	7.4%
Sag. Bay	NA	105,016	NA	135,173	32,665	NA	138,197	2.2%
SW LP	NA	189,030	NA	185,573	41,673	NA	192,560	3.8%
SC LP	NA	180,462	NA	183,280	42,387	NA	184,693	0.8%
SE LP	NA	69,020	NA	71,501	17,735	NA	75,841	6.1%
Statewide* **	**188,753**	**874,259**	**203,640**	**879,331**	**207,445**	**1.9%**	**923,691**	**5.0%**

*Alger County totals included District 3 and West UP.

**Hunter-days during the late antlerless season are not included in this table.

***Number of hunters may not add up to statewide total because hunters may hunt in more than one area of the state during a season. Management unit estimates for hunter-days may not equal statewide total because of rounding errors.

N/A Estimates not available.

Table 8. Michigan archery deer harvest by management unit, 1997-1998.

Management Unit*	1997 Buck	1997 Antlerless	1997 Total	1998 Buck	1998 Antlerless	1998 Total	Change
District							
1	542	1,018	1,560	1,010	1,366	2,376	52.3%
2	673	673	1,346	1,104	1,138	2,242	66.6%
3	1,517	2,717	4,234	2,546	2,533	5,078	19.9%
4	503	1,821	2,324	1,113	1,385	2,498	7.5%
5	2,491	3,473	5,964	3,252	4,341	7,594	27.3%
6	8,013	7,612	15,625	9,429	8,240	17,669	13.1%
7	8,931	10,479	19,410	9,798	13,728	23,526	21.2%
8	7,841	6,916	14,757	8,262	8,482	16,744	13.5%
9	9,520	9,057	18,577	12,473	10,408	22,880	23.2%
10	4,213	4,777	8,990	4,507	4,599	9,106	1.3%
11	6,779	5,818	12,597	8,037	6,927	14,965	18.8%
12	4,893	4,800	9,693	5,939	5,186	11,125	14.8%
13	6,395	5,041	11,436	7,478	7,732	15,210	33.0%
Region							
West UP	2,733	4,408	7,141	4,660	5,037	9,697	35.8%
East UP	503	1,822	2,325	1,113	1,385	2,498	7.4%
NE LP	7,641	9,588	17,229	8,686	12,945	21,631	25.6%
NW LP	11,944	12,125	24,069	14,567	13,777	28,345	17.8%
Sag. Bay	11,623	11,279	22,902	12,626	13,606	26,232	14.5%
SW LP	9,383	9,299	18,682	12,170	10,145	22,315	19.4%
SC LP	13,388	9,831	23,219	15,929	13,895	29,824	28.4%
SE LP	5,098	5,849	10,947	5,197	5,275	10,472	-4.3%
Statewide**	**62,311**	**64,202**	**126,513**	**74,949**	**76,064**	**151,012**	**19.4%**

*Alger County totals included District 3 and West UP.

**Management unit estimates for harvest may not equal statewide total because of rounding errors.

Table 9. Michigan firearm deer harvest by management unit, 1997-1998.

Management Unit*	1997 Buck	1997 Antlerless	1997 Total	1998 Buck	1998 Antlerless	1998 Total	Change
District							
1	6,418	N/A	6,418	9,571	N/A	9,571	49.1%
2	3,541	N/A	3,541	5,616	133	5,749	62.4%
3	10,444	5,645	16,089	13,920	5,257	19,177	19.2%
4	3,423	N/A	3,423	4,319	N/A	4,319	26.2%
5	13,017	8,083	21,100	14,720	12,927	27,647	31.0%
6	19,565	11,207	30,772	22,777	14,843	37,620	22.3%
7	23,680	6,530	30,210	24,022	17,748	41,770	38.3%
8	16,734	12,305	29,039	18,209	19,827	38,035	31.0%
9	22,241	18,037	40,278	23,937	29,566	53,503	32.8%
10	4,056	4,188	8,244	5,705	7,125	12,830	55.6%
11	12,541	11,224	23,765	15,318	19,121	34,439	44.9%
12	11,118	15,278	26,396	14,483	16,692	31,174	18.1%
13	12,370	17,528	29,898	15,036	20,605	35,641	19.2%
Unit							
West UP	20,403	5,645	26,048	29,107	5,390	34,496	32.4%
East UP	3,424	N/A	3,424	4,319	N/A	4,319	26.1%
NE LP	27,693	11,112	38,805	29,716	25,585	55,301	42.5%
NW LP	29,816	18,756	48,572	34,126	29,004	63,130	30.0%
Sag. Bay	25,742	15,806	41,548	27,234	24,917	52,151	25.5%
SW LP	20,188	27,839	48,027	25,673	31,431	57,105	18.9%
SC LP	27,193	26,164	53,357	30,627	39,389	70,016	31.2%
SE LP	4,696	4,707	9,403	6,830	8,127	14,957	59.1%
Statewide**	**159,148**	**110,025**	**269,173**	**187,632**	**163,843**	**351,474**	**30.6%**

N/A No antlerless tags were issued in this unit.

*Alger County totals included District 3 and West UP.

**Management unit estimates for harvest may not equal statewide total because of rounding errors.

Table 10. Michigan muzzleloader deer harvest by management unit, 1997-1998.

Management Unit*	1997 Buck	1997 Antlerless	1997 Total	1998 Buck	1998 Antlerless	1998 Total	Change
District							
1	153	NA	153	238	NA	238	55.4%
2	153	NA	153	187	25	212	38.3%
3	307	1,016	1,323	625	724	1,349	1.9%
4	428	NA	428	147	NA	147	-65.7%
5	513	920	1,433	476	1,502	1,978	38.0%
6	471	832	1,303	898	1,416	2,314	77.6%
7	848	859	1,707	993	2,468	3,461	102.8%
8	899	1,893	2,792	1,241	2,504	3,745	34.1%
9	967	1,745	2,712	988	2,863	3,851	42.0%
10	752	766	1,518	472	1,103	1,575	3.7%
11	1,163	1,624	2,787	969	2,333	3,302	18.5%
12	864	2,173	3,037	979	2,419	3,398	11.9%
13	1,455	2,751	4,206	1,106	2,409	3,515	-16.4%
Unit							
West UP	614	1,016	1,630	1,049	749	1,798	10.3%
East UP	427	NA	427	147	NA	147	-65.6%
NE LP	1,067	1,327	2,394	1,202	2,977	4,179	74.5%
NW LP	954	1,368	2,322	1,228	2,589	3,817	64.4%
Sag. Bay	1,192	2,344	3,536	1,507	3,498	5,005	41.5%
SW LP	1,629	3,811	5,440	1,786	3,963	5,748	5.7%
SC LP	2,177	3,858	6,035	1,836	4,638	6,474	7.3%
SE LP	914	853	1,767	564	1,352	1,916	8.4%
Statewide**	**8,973**	**14,579**	**23,552**	**9,319**	**19,765**	**29,084**	**23.5%**

N/A No antlerless tags were issued in this unit.

*Alger County totals included District 3 and West UP.

**Management unit estimates for harvest may not equal statewide total because of rounding errors.