

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Wildlife Division Report No. 2900

September 1981

THE 1980 DEER SEASONS*

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INTRODUCTION

White-tailed deer (*Odocoileus virginianus*) were legal game in 1980 during several types of seasons. First, a split bow and arrow season where all deer were legal, ran from October 1 to November 14 statewide and again from December 1 to 31 in the Lower Peninsula and December 1 to 15 in the Upper Peninsula. Second, the traditional firearm hunting season ran from November 15 to 30 statewide and was for adult, male deer with 3-inch or longer antlers. In conjunction with this season, sixty-six areas were also open to the taking of limited numbers of antlerless deer by hunter's choice permit holders. The season dates were November 15-30 in the northern two-thirds of the state, and November 15-21 in the southern Lower Peninsula. Third, there was a statewide season on antlered bucks for hunters using muzzleloading rifles from December 5 to 14. Hunters were restricted to using a .44 caliber or larger muzzleloader loaded with black powder and firing a patched round ball. Properly licensed hunters could legally kill two deer, one with bow and arrow and one with a firearm.

The total deer harvest by all hunters in 1980 (165,490) was the second highest on record, surpassed only by 1978 (171,240).

REGULAR FIREARM SEASON

During the regular season, the largest number of hunters in history, 727,210, bagged the largest number of bucks ever - 108,250. Compared to 1979, there was a slight drop in hunters in the Upper Peninsula (96,040 to 94,040), but virtually the same number of bucks were killed (15,870 to 15,850). Both the hunters and harvest, however, increased in the northern Lower Peninsula. Hunters went from 409,740 to 415,850, while the kill increased about 27 percent (50,700 to 64,290). The southern Lower Peninsula set new records in both categories. Hunters increased from 205,560 to 217,320, more than double the number in the Upper Peninsula. The buck kill went from 24,870 to 28,110.

HUNTER'S CHOICE SEASON

Statewide, some 108,960 hunter's choice permit holders harvested 28,210 antlerless deer, slightly more than the 27,040 taken in 1979. A total of 1,800 hunter's choice permit holders harvested 640 antlerless deer in two Upper Peninsula areas, down from 1,380 in 1979. In the northern Lower Peninsula, lowered quotas resulted in a drop of 8 percent in permit hunters

*A contribution of Federal Aid in Wildlife Restoration, Michigan Project W-124-R.

Distribution C and Conservation Officers

(42,720 in 35 areas) and a 10 percent decrease in antlerless deer killed (13,800). In the southern Lower Peninsula, both the number of permit hunters (64,440 in 29 areas) and the antlerless harvest (13,770) were higher than ever before.

MUZZLELOADER SEASON

While the number of hunters (26,080) and bucks killed (920) were down slightly compared to 1979, the 1980 season was still second best of the six seasons held to date.

BOW and ARROW SEASON

For the first time since 1971, the number of archers was less than the previous year (216,190 to 204,550). The deer harvest (28,110) however, was an all-time record, nearly 10 percent above the 1979 figure.

CAMP PERMITS

The camp permit was eliminated by Legislative action in 1980.

SOURCES OF HUNTING INFORMATION

These estimates of deer killed and hunter numbers are derived from mail surveys of randomly selected license purchasers and permit holders. Reports were solicited from 17,578 firearm deer hunters, of whom 87 percent responded; from 16,410 hunter's choice permittees, of whom 94 percent responded; and from 6,421 hunters licensed to bow hunt, of whom 89 percent responded.

HOW RECENT FIREARM DEER SEASONS COMPARE

	1975	1976	1977	1978	1979	1980
<u>LICENSE SALES</u>						
Resident deer	562,738	511,158	482,002	457,320	452,424	651,333
Non-resident deer	13,710	13,781	14,990	16,301	15,937	10,597
Sportsman's	117,047	144,269	189,477	219,656	235,155	47,024
Military	2,236	1,877	2,099	2,045	1,426	*
Senior Sportsman's	23,603	23,941	25,625	26,015	27,002	56,199
Senior resident deer	24,353	24,392	25,144	25,691	25,663	*
	<u>743,687</u>	<u>719,418</u>	<u>739,337</u>	<u>747,028</u>	<u>757,607</u>	<u>765,153</u>
<u>UPPER PENINSULA</u>						
Total hunters**	103,120	105,780	102,300	98,680	96,040	94,040
Hunter's choice permittees**	0	0	3,400	6,550	4,990	1,800
Buck kill	16,250	15,700	16,140	15,400	15,870	15,850
Antlerless kill	0	0	1,180	2,330	1,380	640
Total kill	16,250	15,700	17,320	17,730	17,250	16,490
Percentage of hunters successful	15.8%	14.8%	16.9%	18.0%	18.0%	17.5%
<u>NORTHERN LOWER PENINSULA</u>						
Total hunters**	413,690	392,840	418,500	423,270	409,740	415,850
Hunter's choice permittees**	18,710	29,980	60,680	78,660	46,630	42,720
Buck kill	60,670	58,000	71,080	67,930	50,700	64,290
Antlerless kill***	5,460	9,180	22,000	27,110	15,280	13,800
Total kill	66,130	67,180	93,080	95,040	65,980	78,090
Percentage of hunters successful	16.0%	17.1%	22.2%	22.5%	16.1%	18.8%
<u>SOUTHERN LOWER PENINSULA</u>						
Total hunters**	194,730	184,340	173,080	182,090	205,560	217,320
Hunter's choice permittees**	29,330	39,060	37,980	44,090	54,290	64,440
Buck kill	19,450	16,520	19,560	23,660	24,870	28,110
Antlerless kill***	4,720	7,530	6,300	8,550	10,380	13,770
Total kill	24,170	24,050	25,860	32,210	35,250	41,880
Percentage of hunters successful	12.4%	13.0%	14.9%	17.7%	17.1%	19.3%
<u>TOTAL STATE</u>						
Total hunters**	711,540	682,960	693,880	704,040	711,340	727,210
Hunter's choice permittees**	48,040	69,040	102,060	129,300	105,910	108,960
Buck kill	96,370	90,220	106,780	106,990	91,440	108,250
Antlerless kill	10,180	16,710	29,480	37,990	27,040	28,210
Total kill	106,550	106,930	136,260	144,980	118,480	136,460
Percentage of hunters successful	15.0%	15.7%	19.6%	20.6%	16.7%	18.8%

*License types eliminated by new legislation enacted in 1980.

**These are the numbers of license holders and permittees actually hunting.

***Management area boundaries do not correspond exactly to counties, hence antlerless kill figures may be slightly different here from those given by area.



1980 BUCK HUNTING INFORMATION

UNIT	BUCK KILL		BUCK KILL PER SQ. MILE		TOTAL HUNTERS		DEER HUNTERS PER SQ. MILE		TOTAL HUNTER SUCCESS FOR BUCKS (PERCENT)	
	10-year average 1970-79	1980	10-year average 1970-79	1980	10-year average 1970-79	1980	10-year average 1970-79	1980	10-year average 1970-79	1980
1	2,320	2,110	0.5	0.5	20,820	17,970	4.4	3.8	11.1	11.7
2	5,890	6,110	2.0	2.0	28,630	30,150	9.6	10.1	20.6	20.3
3	2,750	3,740	0.8	1.1	22,730	20,850	6.4	5.9	12.1	17.9
4	2,460	3,890	0.5	0.8	26,860	25,070	5.3	4.9	9.2	15.5
5a	2,500	3,570	1.2	1.7	23,410	25,780	11.3	12.4	10.7	13.8
5b	6,050	7,210	2.6	3.1	42,800	43,870	18.6	19.0	14.1	16.4
6a	4,600	6,130	2.1	2.8	36,460	42,010	16.4	18.9	12.6	14.6
6b	8,390	9,420	3.4	3.8	64,320	70,790	26.2	28.8	13.0	13.3
7a	6,120	9,110	2.6	3.8	55,060	62,200	23.2	26.3	11.1	14.6
7b	7,330	10,030	3.3	4.5	62,140	67,260	28.2	30.5	11.8	14.9
8a	8,440	11,120	4.2	5.5	58,020	66,170	28.7	32.7	14.6	16.8
8b	4,920	7,700	2.3	3.7	30,030	37,770	14.3	18.0	16.4	20.4
9	5,550	8,950	1.2	2.1	46,380	62,560	10.6	14.4	11.9	14.3
11	2,790	5,660	0.5	1.1	30,220	42,100	5.8	8.0	9.2	13.4
12	2,800	5,040	0.7	1.2	34,620	40,670	8.4	9.8	8.1	12.4
13	5,150	7,800	0.9	1.4	54,630	63,890	9.6	11.2	9.4	12.2
14	390	660	0.1	0.2	6,640	8,100	2.0	2.5	5.8	8.1

1980 ANTLERLESS DEER KILL

Area	Number of antlerless deer killed	Antlerless kill per sq. mile	Number of permit hunters	Permit hunters per sq. mile	Permit hunter antlerless success %
15	380	1.15	1,010	3.06	38
16	260	0.52	790	1.59	33
Total U.P.	640		1,800		
36	230	1.51	800	5.26	29
37	110	0.72	580	3.82	19
41	40	8.00	100	20.00	40
42	910	1.85	3,670	7.44	25
47	410	1.81	1,520	6.70	27
48	200	1.36	750	5.10	27
49	180	1.02	710	4.03	25
50	270	2.29	890	7.54	30
51	200	2.04	570	5.82	35
52	440	2.78	2,270	14.37	19
57	550	1.69	1,390	4.26	40
59	180	1.25	690	4.79	26
63	350	2.08	1,210	7.20	29
69	320	3.14	1,910	18.73	17
70	820	3.45	3,410	14.33	24
79	420	3.65	1,210	10.52	35
81	400	3.45	1,150	9.91	35
88	400	1.61	840	3.39	48
91	490	2.01	1,220	5.00	40
95	200	2.50	600	7.50	33
96	330	2.43	870	6.40	38
99	500	1.44	1,430	4.11	35
100	150	0.92	540	3.31	28
101	90	1.36	260	3.94	35
102	340	2.60	860	6.56	40
103	280	1.07	840	3.22	33
106	550	2.99	1,340	7.28	41
107	520	2.89	1,360	7.56	38
109	650	2.26	1,630	5.68	40
110	940	4.05	1,990	8.58	47
111	1,030	3.50	2,450	8.33	42
113	520	1.83	1,120	3.94	46
116	360	1.73	730	3.51	49
117	250	1.77	650	4.61	38
118	400	1.45	1,160	4.22	34
Total NLP	14,030		42,720		
120	1,970	3.33	5,060	8.56	39
121	200	0.52	780	2.03	26
122	160	0.33	680	1.40	24
123	310	0.19	1,980	1.22	16
126	*	*	600	0.91	*
129	100	0.10	950	0.92	11

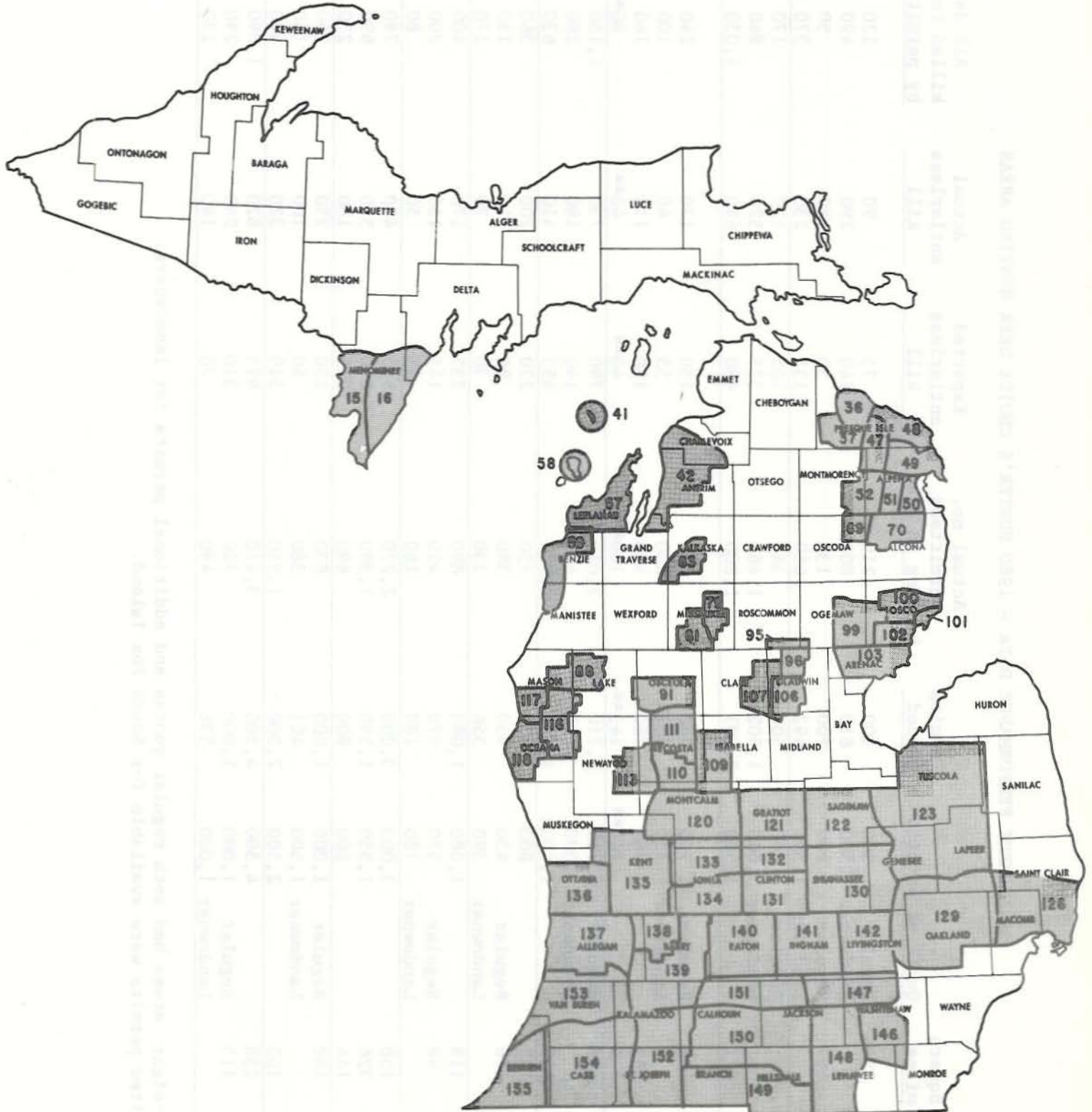
*Kill less than 10 deer.

1980 ANTLERLESS DEER KILL (Continued)

Area	Number of antlerless deer killed	Antlerless kill per sq. mile	Number of permit hunters	Permit hunters per sq. mile	Permit hunter antlerless success %
130	200	0.31	1,110	1.72	18
131	520	1.35	1,910	4.97	27
132	500	1.74	1,450	5.03	34
133	1,090	3.01	3,130	8.65	35
134	480	1.29	1,510	4.07	32
135	690	1.00	3,960	5.73	17
136	270	0.51	1,190	2.25	23
137	130	0.25	1,390	2.68	9
138	140	0.59	560	2.35	25
139	780	1.02	4,110	5.38	19
140	470	0.81	2,970	5.10	16
141	300	0.58	1,560	3.02	19
142	80	0.16	1,710	3.31	5
146	190	0.54	1,220	3.49	16
147	240	0.75	1,360	4.28	18
148	670	1.00	3,350	4.99	20
149	780	1.23	3,150	4.98	25
150	1,560	1.46	6,390	5.99	24
151	530	1.06	3,100	6.22	17
152	270	0.40	2,680	3.96	10
153	120	0.18	1,910	2.91	6
154	660	0.69	3,660	3.85	18
155	130	0.29	1,010	2.24	13
Total SLP 13,540			64,440		

Total State	28,210		108,960		
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1980 HUNTER'S CHOICE AREAS



MANAGEMENT PERFORMANCE DATA - 1980 HUNTER'S CHOICE DEER HUNTING AREAS

Area	Square miles	Quota of permits*	Permits issued	Actual no. permittees hunting in area	Expected antlerless kill	Actual antlerless kill	All deer killed in area by permittees
15	330	Regular 300	300	210	75	90	120
		Landowner 1,500	810	800	240	290	490
16	497	Regular 200	200	130	30	30	50
		Landowner 1,500	692	660	135	230	370
Total U.P.		Regular 500	500	340	105	120	170
		Landowner 3,000	1,502	1,460	375	520	860
TOTAL	827	3,500	2,002	1,800	480	640	1,030
36	152	Regular 750	750	570	150	170	240
		Landowner 750	252	230	55	60	100
37	152		760	580	150	110	160
41	5		140**	100**	40**	40**	80**
42	493	Regular 3,710	3,710	3,010	790	730	1,150
		Landowner 1,030	715	660	140	180	280
47	227		1,700	1,520	455	410	630
48	147		800	750	220	200	360
49	176	Regular 430	430	380	90	110	150
		Landowner 390	356	330	30	70	170
50	118		1,080	890	235	270	400
51	98	Regular 570	570	410	145	150	200
		Landowner 180	180	160	15	50	80
52	158		3,000	2,270	635	440	780
57	326		1,550	1,390	650	550	690
59	144		800	690	215	180	230
63	168	Regular 1,000	1,000	830	150	250	260
		Landowner 1,500	401	380	60	100	150
69	102		2,500	1,910	510	320	480
70	238		4,500	3,410	995	820	1,090
79	115	Regular 1,000	1,000	720	310	260	290
		Landowner 1,000	536	490	70	160	230

* Forty-eight areas had both regular quotas and additional permits for landowners.

** Unlimited permits were available for South Fox Island.

MANAGEMENT PERFORMANCE DATA - 1980 HUNTER'S CHOICE DEER HUNTING AREAS

(Continued)

Area	Square miles	Quota of permits*		Permits issued	Actual no. permittees hunting in area	Expected antlerless kill	Actual antlerless kill	All deer killed in area by permissess
81	116	Regular	900	900	580	260	210	270
		Landowner	1,000	643	570	120	190	290
88	248		970	970	840	370	400	430
91	244	Regular	330	330	290	120	140	150
		Landowner	980	980	930	175	350	520
95	80	Regular	350	350	300	90	100	110
		Landowner	1,100	324	300	85	100	180
96	136	Regular	420	420	360	135	120	140
		Landowner	560	560	510	110	210	310
99	348	Regular	750	750	570	185	190	260
		Landowner	2,000	960	860	180	310	530
100	163	Regular	300	300	240	55	70	90
		Landowner	1,400	319	300	190	80	140
101	66	Regular	150	150	120	20	50	60
		Landowner	750	148	140	105	40	70
102	131	Regular	600	600	510	190	210	270
		Landowner	1,200	384	350	70	130	230
103	261	Regular	380	380	290	130	130	160
		Landowner	1,050	582	550	100	150	270
106	184	Regular	510	510	430	185	150	180
		Landowner	960	960	910	190	400	570
107	180	Regular	510	510	440	180	130	160
		Landowner	1,000	974	920	175	390	520
109	287	Regular	760	760	660	285	290	370
		Landowner	1,480	1,011	970	265	360	540
110	232	Regular	1,250	1,250	1,120	465	490	630
		Landowner	1,210	916	870	180	450	570
111	294	Regular	1,650	1,650	1,270	590	580	770
		Landowner	1,560	1,235	1,180	270	450	730
113	284		1,250	1,250	1,120	570	520	590
116	208		800	800	730	415	360	390
117	141	Regular	420	420	380	175	150	190
		Landowner	420	291	270	70	100	160

* Forty-eight areas had both regular quotas and additional permits for landowners.

MANAGEMENT PERFORMANCE DATA - 1980 HUNTER'S CHOICE DEER HUNTING AREAS

(Continued)

Area	Square miles	Quota of permits*	Permits issued	Actual no. permittees hunting in area	Expected antlerless kill	Actual antlerless kill	All deer killed in area by permittees
118	275	Regular 830	830	740	345	250	310
		Landowner 830	460	420	125	150	220
Total N.L.P.		Regular 37,420	37,423	30,420	10,505	9,550	12,720
		Landowner 22,350	13,187	12,300	2,780	4,480	6,860
TOTAL	6,697	59,770	50,610	42,720	13,285	14,030	19,580
120	591	Regular 4,500	4,500	3,870	1,425	1,600	2,060
		Landowner 1,300	1,300	1,190	375	370	520
121	384	Regular 600	600	460	160	120	170
		Landowner 1,000	367	320	40	80	100
122	487	Regular 500	500	330	100	100	140
		Landowner 800	455	350	60	60	100
123	1,618	Regular 1,800	1,800	1,300	390	180	280
		Landowner 1,680	866	680	140	130	180
126	656		980	600	50	***	***
129	1,031		1,610	950	115	100	170
130	644	Regular 700	700	610	140	110	150
		Landowner 1,100	561	500	85	90	140
131	384	Regular 1,800	1,800	1,400	310	400	540
		Landowner 800	563	510	90	120	180
132	288	Regular 1,200	1,200	1,050	355	400	520
		Landowner 700	443	400	80	100	150
133	362	Regular 2,500	2,500	2,270	845	740	980
		Landowner 1,200	899	860	260	350	450
134	371	Regular 1,300	1,300	1,120	380	350	500
		Landowner 600	416	390	70	130	200
135	691	Regular 4,000	4,000	3,490	390	650	1,020
		Landowner 2,000	575	470	75	40	90
136	530	Regular 1,000	1,000	760	170	150	190
		Landowner 600	506	430	60	120	130
137	518	Regular 1,370	1,370	1,070	140	70	140
		Landowner 2,000	388	320	20	60	80
138	238	Regular 340	340	280	120	60	80
		Landowner 1,000	311	280	50	80	100

* Forty-eight areas had both regular quotas and additional permits for landowners.

*** Less than ten deer killed.

MANAGEMENT PERFORMANCE DATA - 1980 HUNTER'S CHOICE DEER HUNTING AREAS

(Continued)

Area	Square miles	Quota of permits*	Permits issued	Actual no. permittees hunting in area	Expected antlerless kill	Actual antlerless kill	All deer killed in area by permittees
139	764		4,470	4,445	4,110	780	1,300
140	582	Regular	3,100	2,844	2,380	310	540
		Landowner	550	660	590	160	210
141	516	Regular	1,700	1,700	1,300	250	360
		Landowner	500	308	260	50	70
142	516	Regular	1,870	1,870	1,450	50	120
		Landowner	500	318	260	30	50
146	350	Regular	1,500	1,411	1,010	150	250
		Landowner	350	231	210	40	60
147	318	Regular	1,400	1,400	1,040	190	230
		Landowner	350	350	320	50	90
148	672	Regular	3,900	3,532	2,900	590	820
		Landowner	650	477	450	80	120
149	633	Regular	3,500	3,064	2,680	710	940
		Landowner	600	515	470	70	110
150	1,067	Regular	6,500	5,981	5,470	1,350	1,920
		Landowner	1,050	995	920	210	320
151	498	Regular	3,200	2,781	2,610	410	520
		Landowner	500	516	490	120	160
152	676		3,190	3,190	2,680	270	530
153	656	Regular	2,160	1,918	1,660	100	180
		Landowner	1,000	326	250	20	50
154	950	Regular	3,650	3,650	3,180	600	1,000
		Landowner	1,000	540	480	60	140
155	450		1,500	1,238	1,010	130	150
Total S.L.P.		Regular	65,840	63,224	53,040	10,920	15,800
		Landowner	21,830	12,886	11,400	2,620	3,800
TOTAL	17,441		87,670	76,110	64,440	13,540	19,600
Total State		Regular	103,760	101,147	83,800	20,590	28,690
		Landowner	47,180	27,575	25,160	7,620	11,520
TOTAL	24,965		150,940	128,722	108,960	28,210	40,210

* Forty-eight areas had both regular quotas and additional permits for landowners.

HOW RECENT BOW AND ARROW DEER SEASONS COMPARE

<u>LICENSE SALES</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
Resident Bow and Arrow	54,199	56,915	62,013	63,536	65,590	152,521
Non-resident Bow and Arrow	3,582	4,287	5,464	6,793	7,300	4,039
Senior Resident Bow and Arrow	192	269	388	846	613	*
Junior Resident Bow and Arrow						16,365
Sportsman's	117,047	144,269	189,477	219,656	235,155	47,024
Senior Sportsman's	23,603	23,941	25,625	26,015	27,002	56,199
Military ¹	2,236	1,877	2,099	2,045	1,426	*
TOTAL	200,859	231,558	285,066	318,891	337,086	276,148
<u>UPPER PENINSULA</u>						
Hunters ²	8,100	9,240	12,550	13,540	13,780	10,170
Deer kill ³	600	1,200	1,850	2,100	2,670	2,290
Hunter-days	112,200	118,050	166,520	180,810	186,500	144,300
Percentage of hunters successful	7.4%	13.0%	14.7%	15.5%	19.4%	22.5%
<u>NORTHERN LOWER PENINSULA</u>						
Hunters ²	66,060	74,600	104,120	122,650	115,910	109,470
Deer kill ³	6,020	6,430	13,820	15,840	14,220	15,970
Hunter-days	786,330	889,370	1,237,710	1,457,150	1,507,190	1,427,930
Percentage of hunters successful	9.1%	8.6%	13.3%	12.9%	12.3%	14.6%
<u>SOUTHERN LOWER PENINSULA</u>						
Hunters ²	46,540	47,840	60,090	69,510	86,500	84,910
Deer kill ³	2,140	2,590	5,520	7,200	8,750	9,850
Hunter-days	686,790	707,900	928,940	1,122,120	1,511,630	1,565,520
Percentage of hunters successful	4.6%	5.4%	9.2%	10.4%	10.1%	11.6%
<u>TOTAL STATE</u>						
Hunters ²	120,700	131,680	176,760	205,700	216,190	204,550
Deer kill ³	8,760	10,220	21,190	25,140	25,640	28,110
Hunter-days	1,585,320	1,715,320	2,333,170	2,760,080	3,205,320	3,137,750
Percentage of hunters successful	7.3%	7.8%	12.0%	12.2%	11.9%	13.7%

*License types eliminated by new legislation enacted in 1980.

¹This is the total number of military licenses issued for all seasons.

²These are the number of license holders actually hunting.

³Antlered-antlerless breakdown not available.

TOTAL MICHIGAN DEER HARVEST - ALL SEASONS

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
<u>License Sales</u>						
Firearm deer -						
Resident	562,738	511,158	482,002	457,320	452,424	651,333
Non-resident	13,710	13,781	14,990	16,301	15,937	10,597
Senior resident	24,353	24,392	25,144	25,691	25,663	5
Bow and arrow -						
Resident	54,199	56,915	62,013	63,536	65,590	152,521
Non-resident	3,582	4,287	5,464	6,793	7,300	4,039
Senior resident	192	269	388	846	613	5
Junior resident						16,365
Sportsman's ¹	117,047	144,269	189,477	219,656	235,155	47,024
Senior Hunting ¹	23,603	23,941	25,625	26,015	27,002	56,199
Camp Permits ²	402	624	952	1,097	958	5
Military ³	2,236	1,877	2,099	2,045	1,426	5
Muzzleloaders -						
Resident	1,431	1,205	1,117	1,664	1,491	5
Non-resident	11	16	39	87	93	5
Senior resident	14	8	15	0 ⁴	0 ⁴	5
TOTAL	803,518	782,742	809,325	821,051	833,652	938,078
<u>Firearm Season</u>						
Hunters	711,540	682,960	693,880	704,040	711,340	727,210
Buck kill	96,370	90,220	106,780	106,990	91,440	108,250
Hunter's choice -						
Permits issued	61,783	83,427	119,837	147,847	122,573	128,722
Hunters	48,040	69,040	102,060	129,300	105,910	108,960
Antlerless deer kill	10,180	16,710	29,480	37,990	27,040	28,210
Deer killed under						
Camp permits ²	130	180	340	390	260	5
<u>Archery Season</u>						
Hunters	120,700	131,680	176,760	205,700	216,190	204,550
Deer kill	8,760	10,220	21,190	25,140	25,640	28,110
<u>Muzzleloader Season</u>						
Hunters	8,500	11,540	13,930	21,160	27,620	26,080
Buck kill	150	550	570	730	1,310	920
Total deer kill	115,590	117,880	158,360	171,240	145,690	165,490

¹Sportsman's and Senior hunting licenses are valid for firearm, bow and arrow, and muzzleloader hunting in the respective seasons.

²Camp permits can be purchased for either firearm or bow and arrow deer hunting.

³Military licenses are issued for specific seasons and dates but all licenses issued are grouped here because of the difficulty in separating them into the types of hunting for which they were issued.

⁴Sample used not adequate to estimate this license type.

⁵License types eliminated by new legislation enacted in 1980.

