



STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES  
WILDLIFE DIVISION  
LANSING, MICHIGAN 48909-7944

Report No. 3259  
January 1997

BOBCAT SURVEY - 1995-1996 <sup>[1]</sup>

by

Thomas M. Cooley, Stephen M. Schmitt, Paul D. Friedrich and Tim F. Reis

Introduction


In order to allow the export of bobcat (*Felis rufus*) pelts under the Convention on International Trade in Endangered Species (CITES), the United States Fish and Wildlife Service compiles data on the harvest and status of bobcats. This documentation is necessary to verify the stability of bobcat populations to allow for their continued harvest and exportation of pelts. This is the sixteenth consecutive year of the bobcat survey in Michigan (Cooley et al. 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995).

During the 1995-96 bobcat hunting and trapping season, furtakers were allowed 2 bobcats per person. However, no more than one bobcat could be taken in management Zone 2. As in previous years, the Wildlife Division of the Department of Natural Resources required trappers and hunters to submit bobcat skulls or teeth for examination and the pelt for sealing. The age and sex of harvested bobcats were determined by canine tooth examination. Survey results are summarized by management zone (Zone 1 - Upper Peninsula, Zone 2 - Northern Lower Peninsula) in tables 1-3.

Materials & Methods

A lower canine tooth was extracted after the skull was boiled in water for 1 hour. Maximum root width and thickness of the canine allowed for sex determination (Friedrich et al. 1983). Age was estimated by counting cementum annuli in longitudinal thin sections of the tooth root (Crowe 1975).

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## Results and Discussion

### Zone I

The number of samples submitted (183) and the registered harvest (280) was less than half of last year's figures, 457 and 595 animals, respectively. The sex ratio of bobcats examined from Zone I (Table 1) was 147:100 (actual 109:74) males to females. This was the thirteenth time in sixteen years of data collection that the ratio favored males (Cooley et al. 1981, 1982, 1983, 1986, 1987, 1988, 1989, 1990, 1991, 1993, 1994 and 1995). The percentage of young-of-the-year (19.7%) was less than last year (26.9%), and well below the average (33.6%) of the previous 15 years. Of the bobcats submitted, 70.0% were less than 3 years of age, consistent with previous years' data. The 1-2 years old (33.9%) and the 0-1 year old (19.7%) age classes occurred most frequently in the sample.

### Zone II

The number of samples collected (139) and the registered harvest (152) from Zone II were down from last year, 179 and 200 animals, respectively. The sex ratio of Zone II bobcats (Table 2) was 152:100 (actual 84:55) males to females. The data was consistent with past years' data in that males were predominant in the sample. The percentage of young-of-the-year (18.0%) was down from last year (22.4%) and down considerably from the 15-year average (25.1%). Of the bobcats submitted, 72.0% were less than 3 years of age, consistent with previous years' data. The yearling (1-2 years) age class occurred most frequently (36.7%) in the sample.

### Zones I and II

The number of bobcats registered during the 1995-96 season (432) was markedly less than last year (795), but similar to the 1993-94 figure (448). The low harvest figures may have been the result of poor trapping and hunting success due to severe weather conditions experienced in the two zones this winter. The mandatory submission of bobcat heads or teeth to the DNR for examination resulted in 322 useable samples (down from last year's 636 samples) for a compliance rate of 74.5% (322/432). The combined totals of the submitted samples from both zones (Table 3) exhibited a distribution in the age classes and sex ratios consistent with past years' data except the young-of-the-year age class was lower than expected.

## Management Implications

The collection and examination of bobcat teeth provides baseline information on the status of bobcat populations. Using dental measurements for sex determination has allowed for easier data collection. These data, in conjunction with the results from current bobcat research in Michigan will allow the Wildlife Division to develop a population model and to help assure Michigan trappers and hunters have the opportunity to harvest and export this furbearing species in the future.

## Acknowledgments

We thank the bobcat trappers and hunters for their cooperation and Wildlife Division personnel for collecting the bobcat heads and teeth and submitting them for examination. Thanks is also extended to Jean Fierke for assisting in analysis and to Dona Redmond for assisting in the preparation of this report.



3  
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Table 1. Estimated age and sex ratio of Zone I bobcats, 1995-96 season

Age	Number	Male	Female	Percent of Total
0-1	36	16	20	19.7
1-2	62	33	29	33.9
2-3	30	25	5	16.4
3-4	25	16	9	13.7
4-5	8	5	3	4.4
5-6	9	3	6	4.9
6-7	2	2	0	1.1
7-8	2	2	0	1.1
8-9	6	5	1	3.3
9-10	2	1	1	1.1
10-11	1	1	0	0.5
Total	183	109	74	100

Table 2. Estimated age and sex ratio of Zone II bobcats, 1995-96 season

Age	Number	Male	Female	Percent of Total
0-1	25	14	11	18.0
1-2	51	33	18	36.7
2-3	24	15	9	17.3
3-4	12	9	3	8.6
4-5	15	5	10	10.8
5-6	4	1	3	2.9
6-7	4	3	1	2.9
7-8	2	2	0	1.4
8-9	1	1	0	0.7
9-10	1	1	0	0.7
Total	139	84	55	100

Table 3. Estimated age and sex ratio of Zone I and II bobcats, 1995-96 season

Age	Number	Male	Female	Percent of Total
0-1	61	30	31	18.9
1-2	113	66	47	35.1
2-3	54	40	14	16.8
3-4	37	25	12	11.5
4-5	23	10	13	7.1
5-6	13	4	9	4.0
6-7	6	5	1	1.9
7-8	4	4	0	1.2
8-9	7	6	1	2.2
9-10	3	2	1	0.9
10-11	1	1	0	0.3
Total	322	193	129	100

## APPENDIX I.

## 1995-96 BOBCAT DATA - ZONE I

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
1	Baraga	47N	34W	25	4	18	96	9500396	F	0.5	Road Kill	
1	Baraga	48N	34W	26	11	5	95	9500552			Trapping	
1	Baraga	50N	33W	18	10	28	95	9500301	M	1.5	Trapping	
1	Gogebic	43N	38W	1	11	19	95	9500391	M	1.5	Hunting	
1	Gogebic	47N	42W	12	11	21	95	9500620			Trapping	
1	Gogebic	48N	48W	14	11	20	95	9500616			Trapping	
1	Gogebic	48N	48W	14	11	20	95	9500617			Trapping	
1	Gogebic	45N	39W	9	2	20	96	9500619			Hunting	
1	Gogebic	45N	38W	29	12	5	95	9500556	F	0.5	Trapping	upper, broken
1	Gogebic	45N	38W	30	12	5	95	9500555	F	4.5	Trapping	upper, field F, age +/- 1 yr.
1	Houghton	48N	35W	32	2	27	96	9500605	M	2.5	Trapping	
1	Houghton	47N	36W	4	3	1	96	9500607	M	2.5	Trapping	
1	Houghton	48N	35W		10	15	95	9500399			Road Kill	
1	Houghton	53N	33W	5	11	18	95	9500601	M	1.5	Trapping	
1	Keweenaw	58N	28W	34	12	23	95	9500604	M	8.5	Trapping	
1	Ontonagon	48N	39W	27	11	11	95	9500554	F	2.5	Trapping	
1	Ontonagon	51N	40W	19	11	17	95	9500613			Hunting	
1	Ontonagon	49N	42W	20	10	28	95	9500612			Road Kill	
1	Ontonagon	50N	42W	16	11	7	95	9500611			Trapping	
1	Ontonagon	50N	42W	10	12	8	95	9500614			Trapping	
1	Ontonagon	47N	38W	29	11	15	95	9500553			Hunting	
1	Ontonagon	47N	38W	27	10	28	95	9500551			Trapping	
2	Dickinson	42N	30W	33	3	1	96	9500357	M	2.5	Hunting	
2	Dickinson	42N	30W	20	3	1	96	9500356			Hunting	
2	Dickinson	44N	30W	14	1	14	96	9500350			Hunting	
2	Dickinson	44N	30W	20	1	9	96	9500349			Hunting	
2	Dickinson	43N	30W	1	1	7	96	9500348			Hunting	
2	Dickinson	40N	28W	13	1	3	96	9500347	F	5.5	Hunting	age +/- 1 yr.
2	Dickinson	44N	30W	1	11	19	95	9500341	M	1.5	Trapping	
2	Dickinson	41N	28W	14	11	4	95	9500401			Trapping	
2	Dickinson	44N	29W	17	12	3	95	9500431	M	3.5	Hunting	
2	Dickinson	43N	30W	29	2	9	96	9500393			Hunting	
2	Dickinson	41N	28W	2	2	25	96	9500402			Trapping	
2	Dickinson	43N	28W	24	10	25	95	9500403			Road Kill	
2	Dickinson	44N	28W	22	2	19	96	9501489	M	1.5	Hunting	
2	Dickinson	41N	30W	32	10	28	95	9501531	F	0.5	Trapping	
2	Dickinson	43N	28W	11	2	2	96	9500950	M	3.5	Hunting	
2	Dickinson	44N	28W	25	2	1	96	9500974	F	1.5	Hunting	
2	Dickinson	44N	28W	21	11	25	95	9500307			Hunting	
2	Dickinson	44N	28W	21	11	25	95	9500306	F	2.5	Trapping	
2	Dickinson	43N	27W	4	11	3	95	9501571	M	0.5	Hunting	
2	Iron	46N	31W	4	11	25	95	9500343	M	1.5	Hunting	
2	Iron	42N	31W	23	11	28	95	9500346			Hunting	
2	Iron	44N	31W	3	2	27	96	9500926			Trapping	
2	Iron	45N	37W	29	1	19	96	9500558			Trapping	
2	Iron	45N	37W	29	1	19	96	9500557			Trapping	
2	Iron	44N	33W	32	11	21	95	9500392	M	1.5	Hunting	
2	Iron	46N	36W	10	12	4	95	9500432	M	2.5	Trapping	
2	Iron	45N	36W	32	12	6	95	9500434			Trapping	
2	Iron	42N	35W	13	12	1	95	9500433			Hunting	
2	Iron	46N	37W	22	1	6	96	9500396			Hunting	



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## 1995-96 BOBCAT DATA - ZONE I

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
2	Iron	46N	37W	2	1	13	96	9500441			Hunting	
2	Iron	44N	37W	26	1	21	96	9500397			Hunting	
2	Iron	42N	33W	29	2	18	96	9500435			Hunting	
2	Iron	45N	36W	29	2	20	96	9500436	F	1.5	Hunting	
2	Iron	42N	36W	7	2	19	96	9500438	M	3.5	Trapping	
2	Iron	42N	36W	7	2	19	96	9500437	M	2.5	Trapping	
2	Iron	44N	35W	17	2	28	96	9500440	M	1.5	Trapping	
2	Iron	44N	37W	11	2	28	96	9500439	M	1.5	Trapping	
2	Iron	43N	34W	3	3	28	96	9500561			Trapping	
2	Iron	46N	37W	36	1	26	96	9501573	M	2.5	Hunting	
2	Iron	46N	33W	35	3	1	96	9501575	M	3.5	Hunting	
2	Iron	46N	33W	35	3	1	96	9501576	F	1.5	Hunting	
2	Iron	43N	35W	3	2	11	96	9500757			Road Kill	
2	Iron	45N	33W	8	10	27	95	9500400	M	1.5	Hunting	
2	Iron	45N	33W	13	12	16	95	9501580	M	3.5	Hunting	
2	Menominee	38N	28W	15	2	26	96	9500355	F	0.5	Trapping	
2	Menominee	37N	28W	32	2	23	96	9500353	M	0.5	Trapping	
2	Menominee	37N	28W	32	2	25	96	9500354	F	0.5	Trapping	
2	Menominee	40N	27W	8	11	29	95	9500345	M	0.5	Hunting	
2	Menominee	38N	28W	15	11	23	95	9500342			Hunting	
2	Menominee	37N	28W	30	11	26	95	9500344	M	8.5	Hunting	
2	Menominee	40N	26W	13	11	1	95	9500903			Trapping	
2	Menominee	40N	25W	28	11	17	95	9500904	F	1.5	Found Dead	
2	Menominee	40N	26W	13	11	14	95	9500631	M	2.5	Trapping	
2	Menominee	39N	27W	31	11	22	95	9500907	M	1.5	Trapping	
2	Menominee	40N	25W	36	11	25	95	9500909	M	1.5	Hunting	
2	Menominee	39N	25W	12	12	3	95	9500913	F	1.5	Hunting	
2	Menominee	40N	25W	33	1	17	96	9500918	F	0.5	Trapping	
2	Menominee	39N	26W	28	2	14	96	9500921	M	1.5	Hunting	
2	Menominee	39N	25W	5	2	26	96	9500923	M	1.5	Trapping	
2	Menominee	39N	26W	27	2	26	96	9501534	M	1.5	Hunting	
2	Menominee	39N	26W	4	2	20	96	9500334	F	0.5	Hunting	
2	Menominee	36N	26W	2	12	9	95	9500990	F	1.5	Hunting	
2	Menominee	38N	26W	20	11	11	95	9501321	F	1.5	Trapping	
3	Alger	44N	20W	19	11	25	95	9500908	M	1.5	Hunting	
3	Alger	44N	20W	7	2	28	96	9500767			Trapping	
3	Alger	47N	21W	21	1	1	96	9500756			Trapping	
3	Alger	46N	21W	3	2	14	96	9500764			Trapping	
3	Alger	46N	21W	3	2	14	96	9500763			Trapping	
3	Alger	47N	19W	30	11	8	95	9501403			Trapping	
3	Alger	47N	19W	30	11	8	95	9501401			Trapping	
3	Alger	46N	20W	4	11	26	95	9501540	F	5.5	Hunting	
3	Alger	44N	20W	10	1	1	96	9501492	F	3.5	Trapping	
3	Alger	44N	20W	10	1	1	96	9501491	F	1.5	Trapping	
3	Alger	44N	19W	14	11	4	95	9501131	F	1.5	Hunting	
3	Alger	44N	19W	16	1	28	96	9500089	F	0.5	Hunting	upper, field F
3	Alger	44N	20W	2	1	1	96	9501511	F	0.5	Trapping	
3	Alger	47N	21W	34	12	8	95	9500090	F	1.5	Trapping	
3	Alger				12	13	95	9501161	F	9.5	Trapping	age +/- 1 yr.
3	Delta	43N	23W	36	10	30	95	9500902	M	4.5	Trapping	
3	Delta	43N	22W	33	10	29	95	9500901	F	0.5	Trapping	

## APPENDIX I.

## 1995-96 BOBCAT DATA - ZONE I

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
3	Delta	38N	24W	14	11	19	95	9500905	M	3.5	Hunting	
3	Delta	41N	24W	21	11	21	95	9500906	M	2.5	Hunting	
3	Delta	39N	24W	8	11	24	95	9500910	M	2.5	Hunting	
3	Delta	43N	21W	14	11	28	95	9500912	F	5.5	Hunting	
3	Delta	43N	23W	34	12	3	95	9500914	M	1.5	Hunting	
3	Delta	38N	21W	5	11	28	95	9500911	M	2.5	Trapping	
3	Delta	42N	22W	26	12	7	95	9500915	F	4.5	Hunting	age +/- 1 yr.
3	Delta	39N	21W	16	1	19	96	9500917	F	0.5	Hunting	
3	Delta	39N	21W	15	1	19	96	9500916	M	2.5	Hunting	
3	Delta	40N	24W	8	1	27	96	9500919	M	1.5	Trapping	
3	Delta	43N	21W	30	2	14	96	9500920	F	5.5	Hunting	
3	Delta	43N	21W	26	3	1	96	9500925	M	2.5	Hunting	
3	Delta	43N	22W	10	2	27	96	9500924	M	1.5	Trapping	
3	Delta	41N	22W	2	11	23	95	9500797			Hunting	
3	Delta	41N	23W	9	3	1	96	9501574	M	6.5	Hunting	
3	Delta	42N	20W	24	2	10	96	9500977	M	2.5	Hunting	
3	Delta	42N	20W	33	2	12	96	9500976	M	1.5	Hunting	
3	Delta	43N	21W	26	2	13	96	9500107	M	3.5	Hunting	
3	Delta	43N	20W	30	2	14	96	9500108	M	3.5	Hunting	
3	Delta	42N	21W	13	2	10	96	9501355	M	1.5	Hunting	
3	Delta	39N	24W	29	2	9	96	9501513	F	1.5	Hunting	
3	Delta	39N	18W	22	2	29	96	9500144	M	8.5	Hunting	broken, age +/- 1 yr.
3	Delta	41N	20W	35	2	12	96	9501164	M	0.5	Hunting	
3	Delta	42N	19W	22	10	26	95	9500082			Trapping	
3	Delta	40N	21W	27	11	26	95	9501462	M	3.5	Hunting	
3	Delta	43N	21W	14	12	29	95	9501532	F	2.5	NA	
3	Delta	43N	20W	6	1	20	96	9500087	F	1.5	Hunting	
3	Delta	43N	20W	36	1	21	96	9500086	M	1.5	Hunting	
3	Delta	40N	18W	36	12	31	95	9501133	M	6.5	Hunting	
3	Delta	43N	21W	28	12	9	95	9500084	M	0.5	Trapping	mostly crown
3	Delta	43N	20W	6	11	23	95	9500332	M	4.5	Hunting	
3	Marquette	43N	26W	17	11	19	95	9500303	M	2.5	Hunting	
3	Marquette	46N	29W	13	1	21	96	9500352	M	10.5	Trapping	age +/- 1yr.
3	Marquette	46N	29W	13	12	10	95	9500351	F	1.5	Trapping	
3	Marquette	46N	28W	34	10	29	95	9500840			Trapping	
3	Marquette	48N	28W	33	12	8	95	9500838			Trapping	
3	Marquette	46N	29W	11	11	1	95	9500839	M	1.5	Trapping	
3	Marquette	44N	26W	18	2	15	96	9500811			Trapping	
3	Marquette	44N	25W	20	11	11	95	9500794			Trapping	
3	Marquette	45N	25W	10	11	3	95	9500795	F	0.5	Trapping	
3	Marquette	46N	26W	35	12	6	95	9500796			Road Kill	
3	Marquette	46N	26W	35	11	19	95	9500798			Hunting	
3	Marquette	45N	27W	33	11	4	95	9500799	M	2.5	Trapping	
3	Marquette	45N	27W	33	11	4	95	9500800			Trapping	
3	Marquette	45N	26W	23	10	31	95	9500791	F	3.5	Trapping	
3	Marquette	44N	26W	13	10	27	95	9500801			Trapping	
3	Marquette	45N	26W	23	10	31	95	9500792	M	4.5	Trapping	
3	Marquette	43N	26W	24	10	27	95	9500802			Trapping	
3	Marquette	47N	29W	33	2	17	96	9500849			Trapping	
3	Marquette	47N	29W	33	2	17	96	9500850			Trapping	
3	Marquette	48N	27W	19	2	14	96	9500848			Trapping	



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## 1995-96 BOBCAT DATA - ZONE I

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
3	Marquette	46N	28W	7	2	27	96	9500845			Trapping	
3	Marquette	48N	27W	19	2	14	96	9500847			Trapping	
3	Marquette	46N	28W	3	1	19	95	9500833			Trapping	
3	Marquette	46N	30W	8	12	30	95	9500837			Trapping	
3	Marquette	46N	30W	9	1	6	96	9500836			Trapping	
3	Marquette	46N	28W	13	1	12	96	9500835			Trapping	
3	Marquette	46N	28W	13	1	12	96	9500834			Trapping	
3	Marquette	45N	29W	3	2	24	96	9500846			Trapping	
3	Marquette	46N	26W	5	1	13	96	9500832			Trapping	
3	Marquette	46N	26W	5	1	15	96	9500831			Trapping	
3	Marquette	45N	23W	10	2	29	96	9500770			Trapping	
3	Marquette	47N	24W	15	3	1	96	9500769			Trapping	
3	Marquette				2	29	96	9500768			Trapping	
3	Marquette	46N	30W	24	2	20	96	9500766			Trapping	
3	Marquette	46N	30W	24	2	20	96	9500765			Trapping	
3	Marquette	46N	30W	17	2	17	96	9500762			Trapping	
3	Marquette	46N	24W	6	11	27	95	9500752	M	2.5	Hunting	
3	Marquette	47N	25W	5	1	9	96	9500754			Trapping	
3	Marquette	46N	30W	12	1	15	96	9500755			Road Kill	
3	Marquette	46N	24W	32	2	10	96	9500758			Trapping	
3	Marquette	46N	24W	32	2	10	96	9500759			Trapping	
3	Marquette	51N	28W	32	11	16	95	9500751			Hunting	
3	Marquette	48N	26W	4	2	15	96	9500760			Trapping	
3	Marquette	48N	26W	4	2	14	96	9500761			Trapping	
3	Marquette	47N	24W	23	12	17	95	9500753	F	2.5	Hunting	
4	Alger	46N	17W	11	2	24	96	9500092	M	1.5	Hunting	
4	Chippewa	44N	06W		12	28	95		F	3.5	Hunting	
4	Chippewa	43N	06E	35	2	21	96	9500014	M	1.5	Hunting	
4	Chippewa	46N	03W	31	2	27	96	9500016	M	0.5	Hunting	
4	Chippewa	41N	07E	11	2	25	96	9500015	F	3.5	Trapping	
4	Chippewa	45N	02W	11	2	28	96	9500018	F	1.5	Hunting	upper
4	Chippewa	45N	02W	14	2	28	96	9500019	F	1.5	Hunting	upper
4	Chippewa	44N	01E	36	2	28	96	9500020	F	1.5	Trapping	
4	Chippewa	46N	02E		2	1	96	9501056	M	3.5	Hunting	broken
4	Chippewa	45N	04W	6	10	27	95	9501300	F	1.5	Trapping	
4	Chippewa	47N	06W	4	12	18	95	9500259			Trapping	
4	Chippewa	44N	04W	2	1	17	96	9500136	M	0.5	Trapping	
4	Chippewa	44N	01W	16	1	12	96	9500010	M	0.5	Trapping	upper, broken, field M
4	Chippewa				12	31	95	9501322	M	3.5	Hunting	
4	Chippewa	45N	01E	22	12	4	95	9500308	M	2.5	Hunting	
4	Chippewa	41N	06E	6	11	1	95	9500302	M	0.5	Trapping	tooth broken
4	Chippewa	41N	06E	3	11	21	95	9500006	M	0.5	Trapping	
4	Chippewa	47N	02W	36	10	30	95	9500002	M	1.5	Trapping	
4	Chippewa	43N	06E	26	11	18	95	9500004	F	1.5	Trapping	
4	Chippewa	44N	01W	21	11	26	95	9500009	F	1.5	Hunting	
4	Chippewa	41N	03E	32	11	28	95	9501480	M	1.5	Hunting	
4	Luce	46N	11W	20	2	26	96	9501121			Hunting	
4	Luce	45N	08W		10	29	95	9501060	M	7.5	Hunting	
4	Luce				1	6	96	9501382	F	1.5	Hunting	
4	Luce	45N	08W	31	1	27	96	9500333	F	0.5	Hunting	
4	Luce	47N	11W	15	12	16	95	9501132	F	0.5	Hunting	



## APPENDIX I.

## 1995-96 BOBCAT DATA - ZONE I

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
4	Luce	46N	12W	23	1	1	96	9500934			Hunting	
4	Luce	46N	11W	24	11	2	95	9501182			Hunting	
4	Luce	47N	09W	26	11	7	95	9500132	F	8.5	Trapping	age +/-1yr
4	Luce	47N	09W	26	11	10	95	9500133	F	0.5	Trapping	
4	Mackinac	43N	11W	32	2	21	96	9500922	M	2.5	Hunting	
4	Mackinac	43N	08W	16	3	1	96	9501294	M	8.5	Hunting	age +/- 1 yr.
4	Mackinac	44N	07W	24	2	29	96	9501221	M	0.5	Hunting	
4	Mackinac	41N	04W	23	2	27	96	9501487	F	0.5	Hunting	
4	Mackinac	42N	04W	23	2	26	96	9501486	F	1.5	Hunting	
4	Mackinac	43N	12W	31	2	26	96	9500142			Trapping	
4	Mackinac	44N	12W	18	2	27	96	9500141			Trapping	
4	Mackinac	43N	08W	17	2	25	96	9500135	F	5.5	Hunting	upper, field F
4	Mackinac	44N	07W	14	2	19	96	9501360	M	5.5	Hunting	
4	Mackinac	44N	07W	21	2	17	96	9501361	M	1.5	Hunting	
4	Mackinac	42N	12W	11	2	20	96	9501488	F	3.5	Hunting	
4	Mackinac	43N	09W	20	2	13	96	9500137	M	3.5	Hunting	
4	Mackinac	43N	01W	7	2	10	96	9500012	M	2.5	Trapping	
4	Mackinac	42N	06W	24	2	19	96	9500111	F	0.5	Trapping	
4	Mackinac	44N	11W	18	2	20	96	9500138	F	4.5	Hunting	
4	Mackinac	42N	02W	9	2	10	96	9500013	F	1.5	Road Kill	
4	Mackinac	43N	07W	21	2	17	96	9501291	F	0.5	Hunting	
4	Mackinac	44N	08W	17	2	18	96	9501295	M	8.5	Hunting	
4	Mackinac	43N	10W	8	3	24	96	9500225			Trapping	
4	Mackinac	40N	04W	2	12	30	95	9501071	F	1.5	Hunting	
4	Mackinac	41N	04W	34	12	28	95	9501072	F	0.5	Hunting	
4	Mackinac	43N	08W	21	12	21	95	9500106			Hunting	
4	Mackinac	42N	05W	36	11	26	95	9500031	F	0.5	Trapping	upper, crown, field F
4	Mackinac	41N	01W	11	2	25	96	9500036	M	1.5	Trapping	upper, broken
4	Mackinac	41N	01W	11	2	24	96	9500037	F	1.5	Trapping	upper
4	Mackinac	43N	07W	33	12	6	95	9500033			Trapping	
4	Mackinac	41N	05W	14	11	25	95	9500032	M	9.5	Trapping	age +/- 1 yr.
4	Mackinac	41N	05W	12	2	2	96	9500034			Trapping	
4	Mackinac	42N	05W	36	11	26	95	9500030			Trapping	
4	Mackinac	40N	04W	2	2	20	96	9500035			Hunting	
4	Mackinac	43N	01W	19	2	28	96	9500017	M	0.5	Hunting	upper
4	Mackinac	42N	01E	19	2	18	96	9500993	M	2.5	Hunting	
4	Mackinac	42N	01E	19	2	18	96	9500994	F	1.5	Hunting	
4	Mackinac	42N	12W	22	1	21	96	9501477	M	3.5	Hunting	
4	Mackinac	41N	05W	10	11	17	95	9501461	F	3.5	Hunting	
4	Mackinac	43N	08W	21	12	28	95	9501572	M	3.5	Hunting	
4	Mackinac	43N	10W	22	1	17	96	9501218	M	0.5	Hunting	upper
4	Mackinac	44N	12W	29	12	28	95	9500110	M	0.5	Trapping	
4	Mackinac	41N	05W	22	12	22	95	9501140	M	4.5	Hunting	
4	Mackinac	42N	04W	27	12	29	95	9501301			Hunting	
4	Mackinac	43N	08W	3	11	5	95	9501299	F	1.5	Hunting	
4	Mackinac	42N	01W	26	1	14	96	9500320	M	2.5	Hunting	
4	Mackinac	43N	02W	9	1	13	96	9500011			Trapping	
4	Mackinac	43N	04W	24	1	21	96	9501113	M	1.5	Hunting	
4	Mackinac	43N	12W	26	1	13	96	9500971	F	1.5	Hunting	
4	Mackinac	40N	04W	34	1	25	96	9501512	F	3.5	Hunting	age +/- 1 yr.
4	Mackinac	42N	11W	28	12	21	95	9501162	M	7.5	Hunting	

## APPENDIX I.

## 1995-96 BOBCAT DATA - ZONE I

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
4	Mackinac	43N	10W	8	12	7	95	9500105			Hunting	
4	Mackinac	42N	01W	35	11	25	95	9501271	F	2.5	Hunting	
4	Mackinac	43N	02W	35	11	19	95	9500007	F	1.5	Hunting	
4	Mackinac	43N	11W	27	11	16	95	9500102			Hunting	
4	Mackinac	44N	11W	24	11	18	95	9500103	M	4.5	Hunting	
4	Mackinac	43N	01W	29	10	27	95	9500001			Trapping	
4	Mackinac	42N	10W	18	10	27	95	9500101	M	1.5	Trapping	
4	Mackinac	42N	11W	31	11	2	95	9500131	F	1.5	Trapping	
4	Mackinac	42N	01W	2	11	18	95	9500003	M	1.5	Trapping	
4	Mackinac	43N	03W	35	11	19	95	9500005	F	1.5	Trapping	
4	Mackinac	43N	01W	7	11	26	95	9500008	M	1.5	Hunting	
4	Mackinac	42N	06W	2	2	29	96	9500606	F	4.5	NA	Rd. Kill?
4	Mackinac	43N	08W	17	2	25	96	9500139	F	5.5	Hunting	upper
4	Schoolcraft	42N	17W	10	2	27	96	9500093	M	2.5	Hunting	
4	Schoolcraft	43N	17W	11	2	29	96	9500143			Hunting	
4	Schoolcraft	44N	17W	27	2	18	96	9500091			Hunting	
4	Schoolcraft	41N	17W	26	2	17	96	9501481	F	3.5	Hunting	
4	Schoolcraft	42N	14W	16	10	27	95	9500061			Trapping	
4	Schoolcraft	43N	15W	23	10	31	95	9500062			Trapping	
4	Schoolcraft	42N	14W	10	10	12	95	9500063			Trapping	
4	Schoolcraft	40N	17W	35	11	17	95	9500064			Hunting	
4	Schoolcraft	43N	15W	28	11	30	95	9500065			Hunting	
4	Schoolcraft	42N	16W	26	1	9	96	9500066			Road Kill	
4	Schoolcraft	44N	13W	4	3	14	96	9500145			Road Kill	
4	Schoolcraft	43N	15W	17	2	29	96	9500112	M	2.5	Hunting	
4	Schoolcraft	41N	17W	34	11	18	95	9501396	F	1.5	Hunting	
4	Schoolcraft	45N	18W	20	12	30	95	9500085	F	0.5	Hunting	
4	Schoolcraft	43N	15W	7	11	16	95	9500331	F	I.S.	Hunting	upper, broken, field F
4	Schoolcraft	45N	18W	12	1	23	96	9500088	M	2.5	Hunting	
4	Schoolcraft	45N	17W	11	2	10	96	9500975	F	3.5	Hunting	mostly crown, age +/- 1 yr.
4	Schoolcraft	45N	17W	35	1	29	96	9500973	M	3.5	Hunting	
4	Schoolcraft	43N	15W	31	1	28	96	9501298	M	5.5	Hunting	
4	Schoolcraft	41N	16W	19	1	28	96	9501500	M	0.5	Hunting	
4	Schoolcraft	44N	13W	1	1	6	96	9501163	M	5.5	Trapping	
4	Schoolcraft	45N	18W	11	12	1	95	9500083	M	2.5	Hunting	molar, field M
4	Schoolcraft	45N	13W	35	11	20	95	9500134	M	3.5	Trapping	
4	Schoolcraft	43N	16W	35	11	19	95	9500104	F	2.5	Hunting	
4	Schoolcraft	42N	13W	11	11	11	95	9500140	M	0.5	Trapping	



## APPENDIX II.

## 1995-96 BOBCAT DATA - ZONE II

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
5	Alpena	31N	07E	12	2	16	96	9501054	M	1.5	Hunting	
5	Alpena	31N	07E	7	2	17	96	9501064	M	3.5	Hunting	broken
5	Alpena	31N	09E	17	2	14	96	9501066	M	1.5	Hunting	
5	Alpena	31N	07E	18	2	19	96	9501062	M	1.5	Hunting	
5	Alpena	31N	07E	7	2	15	96	9501061	M	4.5	Hunting	
5	Alpena	31N	08E	31	1	25	96	9501058	F	0.5	Hunting	
5	Alpena	32N	07E	25	2	28	96	9501001	F	1.5	Hunting	
5	Alpena	31N	05E	8	2	17	96	9501078	F	1.5	Hunting	
5	Alpena	32N	05E	21	1	18	96	9501073	M	5.5	Hunting	
5	Alpena	31N	05E	6	2	18	96	9501077	M	1.5	Hunting	
5	Alpena	29N	07E	26	2	24	96	9501389	M	3.5	Hunting	age +/- 1 yr. , partial
5	Alpena	29N	09E	20	2	23	96	9501386	M	8.5	Hunting	broken or rotted
5	Alpena	31N	07E	18	2	15	96	9501055	F	5.5	Hunting	
5	Alpena	31N	09E	16	2	17	96	9501069	F	1.5	Hunting	
5	Alpena	31N	07E	7	1	6	96	9501051	M	3.5	Hunting	age +/- 1 yr.
5	Alpena	30N	05E	32	1	14	96	9501070	F	1.5	Hunting	prob F, broken
5	Alpena	31N	06E	18	1	6	96	9501059	F	0.5	Hunting	
5	Alpena	30N	06E	10	1	2	96	9501031	F	1.5	Hunting	
5	Antrim	30N	07W	1	2	21	96	9501186	M	1.5	Hunting	upper, broken, field M
5	Antrim	30N	07W	2	2	10	96	9500981	M	0.5	Hunting	
5	Antrim	32N	09W	2	2	15	96	9501165	M	1.5	Hunting	
5	Charlevoix	33N	05W	24	2	29	96	9501497	F	0.5	Hunting	
5	Charlevoix	33N	04W	19	2	17	96	9501496			Hunting	
5	Charlevoix	33N	04W	21	2	16	96	9501115	M	0.5	Hunting	
5	Charlevoix	33N	05W	11	2	29	96	9500940	M	4.5	Hunting	broken
5	Charlevoix	33N	05W	15	2	24	96	9501495	M	2.5	Hunting	
5	Charlevoix	32N	05W	27	1	14	96	9501478	F	1.5	Hunting	
5	Charlevoix	33N	08W	28	1	22	96	9500972	M	1.5	Hunting	
5	Cheboygan	33N	01E	1	1	10	96	9501102			Hunting	
5	Cheboygan	35N	01E	5	2	29	96	9501122	M	1.5	Hunting	
5	Cheboygan	35N	01E	31	1	25	96	9501081	M	3.5	Hunting	
5	Cheboygan	33N	01W	5	2	20	96	9501118	M	1.5	Hunting	
5	Cheboygan	34N	01W	19	2	20	96	9501117	M	0.5	Hunting	
5	Cheboygan	33N	01W	11	2	19	96	9501119	M	2.5	Hunting	
5	Cheboygan	35N	01E	20	2	18	96	9501120	M	1.5	Hunting	
5	Cheboygan	35N	02W	8	2	17	96	9501514	M	7.5	Hunting	
5	Cheboygan	39N	03W	32	2	19	96	9501091	M	0.5	Hunting	
5	Cheboygan	36N	01E	20	2	24	96	9501082	F	4.5	Hunting	
5	Cheboygan	34N	01W	23	1	28	96	9501332	M	0.5	Hunting	
5	Cheboygan				2	9	96	9501385	M	3.5	Hunting	broken
5	Cheboygan	36N	03W	12	2	13	96	9501114	F	1.5	Hunting	
5	Cheboygan	35N	03W	31	2	3	96	9501100			Hunting	
5	Cheboygan	33N	02W	17	10	17	95	9500931	M	1.5	Road Kill	
5	Cheboygan	34N	01W	30	1	1	96	9501111	M	1.5	Hunting	
5	Cheboygan	33N	01W	3	1	19	96	9501097	F	3.5	Hunting	
5	Cheboygan	33N	01E	28	2	4	96	9500979	F	6.5	Hunting	
5	Cheboygan	36N	02W	6	1	21	96	9501112	M	1.5	Hunting	
5	Cheboygan	35N	01W	27	2	3	96	9501099	M	4.5	Hunting	
5	Cheboygan	33N	01E	11	1	29	96	9501098	M	1.5	Hunting	
5	Cheboygan	37N	03W	25	1	1	96	9500933	F	1.5	Hunting	
5	Cheboygan	33N	01E	5	11	19	95	9501096	M	1.5	Accidental Trap	



## APPENDIX II.

## 1995-96 BOBCAT DATA - ZONE II

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
5	Montmorency	30N	03E	7	2	5	96	9501057	M	1.5	Hunting	
5	Montmorency	32N	02E	35	2	28	96	9501067			Hunting	
5	Montmorency	29N	03E	14	2	16	96	9501441	NA	0.5	Hunting	P4 crown
5	Montmorency	29N	03E	22	2	19	96	9500942	F	1.5	Hunting	
5	Montmorency	30N	03E	26	2	19	96	9501522	M	6.5	Hunting	upper
5	Montmorency	30N	02E	8	2	14	96	9500991			Hunting	
5	Montmorency	31N	02E	1	2	15	96	9500995			Road Kill	
5	Montmorency	29N	02E	24	2	23	96	9501578	M	1.5	Hunting	
5	Montmorency	30N	02E	26	1	5	96	9501405	F	0.5	Road Kill	
5	Montmorency	29N	02E	9	1	28	96	9501408	F	2.5	Hunting	
5	Montmorency	31N	02E	16	2	10	96	9500941	M	1.5	Hunting	
5	Montmorency	32N	03E	2	1	12	96	9501052	M	2.5	Hunting	
5	Montmorency	31N	02E	35	12	8	95	9500309	F	1.5	Road Kill	
5	Otsego	29N	02W	14	2	17	96	9500935	F	4.5	Hunting	upper
5	Otsego	29N	04W	30	2	29	96	9500978	M	2.5	Hunting	
5	Otsego	32N	02W	1	2	15	96	9501494	F	1.5	Hunting	
5	Otsego	29N	04W	17	1	1	96	9500932	M	1.5	Hunting	
5	Presque Isle	34N	02E	19	1	5	96	9501381	M	2.5	Hunting	
5	Presque Isle	34N	02E	31	1	10	96	9501101			Hunting	
5	Presque Isle	34N	04E	36	1	25	96	9501053	F	1.5	Hunting	
5	Presque Isle	33N	07E	8	2	18	96	9501065	M	2.5	Hunting	
5	Presque Isle	34N	03E	23	2	12	96	9500992			Trapping	
5	Presque Isle	33N	08E	18	2	16	96	9501002	M	2.5	Hunting	
5	Presque Isle	33N	07E	8	2	25	96	9501068	F	0.5	Hunting	
5	Presque Isle	35N	02E	9	2	17	96	9501116	F	4.5	Hunting	
5	Presque Isle	35N	03E	15	2	24	96	9501485	F	0.5	Hunting	
5	Presque Isle	35N	02E	11	1	1	96	9501080	M	2.5	Hunting	
5	Presque Isle	35N	02E	13	1	3	96	9501079	F	1.5	Hunting	
5	Presque Isle	33N	04E	3	2	14	96	9501075	M	1.5	Hunting	broken, field M
5	Presque Isle	35N	05E	29	2	18	96	9501076	F	4.5	Hunting	
5	Presque Isle	33N	03E	5	1	28	96	9501384	M	3.5	Hunting	
5	Presque Isle	33N	03E	5	2	17	96	9501103	M	3.5	Hunting	
6	Kalkaska	25N	07W	14	2	10	96	9501185			Hunting	
6	Kalkaska	27N	07W	20	10	11	95	9501181	M	7.5	Road Kill	
6	Kalkaska	25N	07W	6	1	26	96	9501184	M	0.5	Hunting	
6	Kalkaska	27N	07W	1	1	22	96	9501183	M	2.5	Hunting	
6	Lake	17N	11W	13	12	24	95	9501157	F	2.5	Road Kill	
6	Leelanau	28N	12W	17	9	14	95	9401000			Road Kill	
6	Manistee	22N	16W	25	11	8	95	9501219	F	6.5	Accidental Trap	age +/- 1 yr.
6	Manistee	22N	16W	28	10	31	95	9501220			Road Kill	
6	Missaukee	21N	06W	25	2	15	96	9501358	M	1.5	Hunting	
6	Missaukee	23N	05W	2	2	13	96	9501356	M	4.5	Hunting	ET 087
6	Missaukee	24N	05W	22	2	13	96	9501275	M	2.5	Hunting	
6	Missaukee	24N	05W	22	2	6	96	9501274	F	0.5	Hunting	
6	Missaukee	22N	05W	8	1	16	96	9501213	F	2.5	Hunting	
6	Missaukee	24N	07W	1	1	23	96	9501352	M	0.5	Hunting	
6	Missaukee	23N	05W	26	1	25	96	9501351	M	1.5	Hunting	
6	Missaukee	22N	05W	4	1	26	96	9501353	M	0.5	Hunting	
6	Osceola	20N	07W	16	2	14	96	9501273			Hunting	
6	Wexford	21N	12W	11	1	15	96	9501211	F	4.5	Hunting	
6	Wexford	21N	12W	10	2	3	96	9501156			Hunting	



## APPENDIX II.

## 1995-96 BOBCAT DATA - ZONE II

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
6	Wexford	24N	12W	7	1	15	96	9501212	F	2.5	Hunting	P4, field F
6	Wexford	22N	10W	27	2	10	96	9501499	F	2.5	Hunting	
6	Wexford	23N	09W	18	1	16	96	9501542	F	4.5	Hunting	
7	Alcona	26N	08E	12	2	16	96	9501483	M	1.5	Hunting	
7	Alcona	26N	08E	12	2	16	96	9501484	F	0.5	Hunting	
7	Alcona	25N	05E	11	2	20	96	9501413	F	0.5	Hunting	
7	Alcona	28N	05E	31	1	12	95	9501406	M	1.5	Hunting	
7	Alcona	25N	08E	8	1	1	96	9501336	M	6.5	Hunting	broken, age +/- 1 yr.
7	Alcona	27N	07E	26	1	9	96	9501337	M	1.5	Hunting	broken
7	Alcona	27N	08E	25	2	19	96	9501338	F	3.5	Hunting	
7	Alcona	26N	07E	35	2	20	96	9501388	M	2.5	Hunting	broken
7	Alcona	25N	05E	35	2	21	96	9501387	M	1.5	Hunting	
7	Alcona	26N	09E	2	2	17	96	9501063	M	1.5	Hunting	
7	Alcona	26N	05E	33	1	23	96	9500313	F	0.5	Hunting	
7	Alcona	28N	08E	31	1	22	96	9501383	F	1.5	Hunting	
7	Alcona	25N	06E	13	1	6	96	9500310	M	4.5	Hunting	
7	Alcona	28N	05E	29	1	20	96	9500311	F	4.5	Hunting	
7	Alcona	25N	05E	15	1	5	96	9501463	F	3.5	Hunting	
7	Alcona	27N	07E	3	10	27	95	9501032	F	0.5	Road Kill	milk tooth, field F
7	Arenac	20N	03E	30	2	13	96	9501473	M	1.5	Hunting	
7	Arenac	20N	03E	7	2	15	96	9501476	F	1.5	Hunting	
7	Arenac	19N	06E	32	1	20	96	9501464	F	1.5	Found Dead	
7	Arenac	20N	03E	6	1	15	96	9501467	F	2.5	Road Kill	
7	Arenac	20N	03E	36	2	4	96	9501543	M	1.5	Hunting	
7	Clare	18N	06W	35	1	24	96	9501074	M	1.5	Hunting	sawed-off, field M
7	Clare	20N	06W	8	1	31	96	9501493	F	5.5	Hunting	
7	Clare	20N	05W	26	1	28	96	9501521	F	1.5	Hunting	upper, field F
7	Clare	20N	05W	22	2	3	96	9501217	F	2.5	Hunting	
7	Clare	19N	03W	23	2	15	96	9502083	M	7.5	Hunting	
7	Clare	20N	04W	3	1	9	96	9501397	F	0.5	Road Kill	
7	Gladwin	20N	02E	35	1	27	96	9501469	F	4.5	Hunting	ET 024
7	Gladwin	17N	02E	3	2	15	96	9501475	F	0.5	Hunting	
7	Gladwin	17N	01W	5	1	26	96	9501297	M	1.5	Road Kill	
7	Gladwin	19N	02E	33	2	7	96	9501293	M	2.5	Hunting	
7	Gladwin	19N	02E	3	2	8	96	9501472			Hunting	
7	Iosco	22N	08E	7	1	29	96	9500314			Hunting	
7	Iosco	22N	05E	28	1	22	96	9501391	M	3.5	Hunting	
7	Iosco	21N	07E	19	1	16	96	9501471	M	0.5	Hunting	
7	Iosco	21N	07E	30	1	28	96	9501468	M	6.5	Hunting	age +/- 1 yr. , partial
7	Iosco	21N	07E	19	2	5	96	9501292	M	0.5	Hunting	
7	Iosco	22N	07E	23	11	21	95	9501354	F	0.5	Road Kill	
7	Ogemaw	23N	04E	20	2	15	96	9501482	M	3.5	Hunting	
7	Ogemaw	23N	04E	7	1	28	96	9501331	M	0.5	Hunting	
7	Ogemaw	24N	03E	34	2	11	96	9501333	F	2.5	Hunting	
7	Ogemaw	22N	04E	34	2	13	96	9501412	F	1.5	Hunting	P4, field F
7	Ogemaw	23N	02E	13	2	12	96	9501411	F	1.5	Hunting	
7	Ogemaw	23N	04E	10	2	9	96	9501410	M	2.5	Hunting	
7	Ogemaw	22N	03E	14	2	4	96	9501324	M	2.5	Hunting	
7	Ogemaw	21N	01E	23	1	26	96	9501325	M	1.5	Hunting	
7	Ogemaw	23N	04E	20	1	24	96	9501323	M	0.5	Hunting	
7	Ogemaw	24N	03E	21	1	21	96	9501533	M	2.5	Hunting	

## APPENDIX II.

## 1995-96 BOBCAT DATA - ZONE II

DIST	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	SEX	AGE	METHOD	REMARKS
7	Ogemaw	23N	01E	3	1	30	96	9501490	M	1.5	Hunting	
7	Ogemaw	23N	03E	11	1	27	96	9501466	F	4.5	Hunting	
7	Ogemaw	23N	03E	23	2	10	96	9501451	M	1.5	Hunting	upper
7	Oscoda	26N	02E	26	3	1	96	9501281	F	2.5	Hunting	
7	Oscoda	26N	01E	17	2	19	96	9501359	F	1.5	Hunting	
7	Oscoda	25N	03E	25	2	12	96	9501414	M	0.5	Hunting	
7	Oscoda	27N	04E	1	1	24	96	9501407			Road Kill	
7	Oscoda	26N	02E	5	2	23	96	9501498	M	9.5	Hunting	
7	Oscoda	25N	02E	4	2	7	96	9501409	F	2.5	Hunting	
7	Oscoda	26N	03E	12	2	1	96	9500312	F	0.5	Hunting	
7	Oscoda	28N	01E	34	1	21	96	9500980	M	1.5	Hunting	
7	Oscoda	26N	03E	11	11	14	95	9501404			Road Kill	
7	Roscommon	23N	03W	2	1	26	96	9501465	M	1.5	Hunting	
7	Roscommon	21N	04W	22	2	16	96	9501357	F	5.5	Hunting	ET 034
7	Roscommon	22N	02W	29	2	15	96	9502085	F	4.5	Hunting	ET 076
7	Roscommon	22N	02W	9	2	11	96	9501296	M	0.5	Hunting	
7	Roscommon	22N	02W	19	2	15	96	9502082	F	2.5	Hunting	