



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

Report No. 3316  
July 2000

BOBCAT SURVEY - 1998-1999 <sup>[1]</sup>

by

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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 the exportation of pelts. This is the nineteenth 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, 1997a, 1997b, and 1999).

During the 1998-99 bobcat hunting and trapping season, licensed furtakers were allowed 3 bobcats per person. No more than one bobcat could be taken in management Zone 2. As in previous years, the Wildlife Bureau of the Department of Natural Resources required trappers and hunters to submit bobcat skulls or teeth for examination, and the pelts for sealing. The age and sex of harvested bobcats were determined by canine tooth examination. Survey results are summarized by management zones (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 1

There were 329 samples submitted from a registered harvest of 528 from Zone 1. The sex ratio of bobcats examined from Zone 1 (Table 1) was 142:100 (actual 193:136) males to females. This was the fifteenth time in nineteen years of data collection that the ratio favored males. The percentage of young-of-the-year (27.1%) was less than last year (30.8%). Of the bobcats submitted, 68.7% were less than 3 years of age, which is consistent with previous years' data. The 1-2 years old (27.7%), and the 0-1 year old (27.1%) age classes occurred most frequently in the sample.

### Zone 2

There were 96 samples collected from a registered harvest of 162 from Zone 2. The sex ratio of Zone 2 bobcats (Table 2) was 153:100 (actual 58:38) males to females. The percentage of young-of-the-year (18.8%) was down from last year (24.2%). Of the bobcats submitted, 60.4% were less than 3 years of age, which is consistent with previous years' data. The yearling (1-2 years) age class occurred most frequently (26.0%) in the sample.

### Zones 1 and 2

The number of bobcats registered during the 1998-99 season (690) was down from last year (1,115). The mandatory submission of bobcat heads or teeth to the DNR for examination resulted in 425 useable samples (down from last year's 854 samples) for a compliance rate of 61.6% (425/690). 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.

### Management Implications

The collection and examination of bobcat teeth provides baseline information on the status of bobcat populations in Michigan. 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 to help assure Michigan trappers and hunters continue to 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 Bureau personnel for collecting the bobcat heads and teeth and submitting them for examination. Thanks are also extended to Melinda Rath for assisting in analysis and to Dona Rumrill for assisting in the preparation of this report.



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Table 1. Estimated age and sex ratio of Zone I bobcats, 1998-99 season

Age	Number	Male	Female	Percent of Total
0-1	89	47	42	27.1
1-2	91	48	43	27.7
2-3	46	28	18	14.0
3-4	38	23	15	11.6
4-5	20	13	7	6.1
5-6	10	6	4	3.0
6-7	7	5	2	2.1
7-8	9	8	1	2.7
8-9	5	4	1	1.5
9-10	6	5	1	1.8
10-11	3	3		0.9
11-12	3	2	1	0.9
12-13	1		1	0.3
13-14	1	1		0.3
Total	329	193	136	100

Table 2. Estimated age and sex ratio of Zone II bobcats, 1998-99 season

Age	Number	Male	Female	Percent of Total
0-1	18	12	6	18.8
1-2	25	12	13	26.0
2-3	15	8	7	15.6
3-4	15	11	4	15.6
4-5	7	3	4	7.3
5-6	5	2	3	5.2
6-7	4	3	1	4.2
7-8	2	2		2.1
8-9	2	2		2.1
10-11	2	2		2.1
12-13	1	1		1.0
Total	96	58	38	100

Table 3. Estimated age and sex ratio of Zone I and II bobcats, 1998-99 season

Age	Number	Male	Female	Percent of Total
0-1	107	59	48	25.2
1-2	116	60	56	27.3
2-3	61	36	25	14.4
3-4	53	34	19	12.5
4-5	27	16	11	6.4
5-6	15	8	7	3.5
6-7	11	8	3	2.6
7-8	11	10	1	2.6
8-9	7	6	1	1.6
9-10	6	5	1	1.4
10-11	5	5		1.2
11-12	3	2	1	0.7
12-13	2	1	1	0.5
13-14	1	1		0.2
Total	425	251	174	100





## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
EUP	Alger	46N	17W	27	2	21	99	9801306	M	M	2.5	Hunting	
EUP	Chippewa	45N	03W	4	11	14	98	9801255	F	M	0.5	Trapping	
EUP	Chippewa	44N	01W	20	1	11	99	9801266	M	M	0.5	Hunting	
EUP	Chippewa	48N	06W	31	2	7	99	9801275	F	F	0.5	Trapping	
EUP	Chippewa	43N	01E	27	2	24	99	9801283	M	F	0.5	Hunting	
EUP	Chippewa	45N	01E	9	2	25	99	9801284	M	M	0.5	Hunting	
EUP	Chippewa	46N	02W	5	2	27	99	9801287	F	M	0.5	Trapping	
EUP	Chippewa	47N	07W	30	1	4	99	9801708	F	F	0.5	Hunting	
EUP	Chippewa	44N	06W	21	1	29	99	9801713	F	M	0.5	Hunting	
EUP	Chippewa	45N	06W	35	1	15	99	9800570	F	M	1.5	Hunting	
EUP	Chippewa	44N	01E	32	2	13	99	9801116	F	F	1.5	Hunting	
EUP	Chippewa	44N	01W	11	10	30	98	9801252	F	F	1.5	Trapping	
EUP	Chippewa	43N	03E	29	12	13	98	9801260	M	M	1.5	Hunting	
EUP	Chippewa	42N	02E	15	1	15	99	9801269	M	M	1.5	Hunting	
EUP	Chippewa	42N	02E	17	1	19	99	9801270	M	M	1.5	Hunting	
EUP	Chippewa	42N	06E	18	2	1	99	9801274	M	M	1.5	Hunting	
EUP	Chippewa	45N	01E	15	2	9	99	9801276	F	F	1.5	Trapping	
EUP	Chippewa	43N	02E	12	2	14	99	9801277	M	M	1.5	Hunting	
EUP	Chippewa	45N	01E	12	2	18	99	9801281	F	M	1.5	Hunting	
EUP	Chippewa	46N	07W	26	2	1	99	9801486	F	F	1.5	Trapping	
EUP	Chippewa	44N	03W	26	11	22	98	9801256	M	M	2.5	Trapping	
EUP	Chippewa	46N	06W	30	1	9	99	9801265	M	M	2.5	Hunting	
EUP	Chippewa	45N	02E	30	2	20	99	9801278	M	M	2.5	Hunting	
EUP	Chippewa	46N	05W	20	2	21	99	9802208	M	M	2.5	Hunting	
EUP	Chippewa	43N	02E	29	10	31	98	9801253	M	M	3.5	Trapping	
EUP	Chippewa	44N	06W	30	2	19	99	9801216	M	M	4.5	Hunting	
EUP	Chippewa	46N	02W	32	1	16	99	9801113	M	M	5.5	Hunting	age +/- 1 yr.
EUP	Chippewa	46N	05W	16	2	7	99	9800445	M			Hunting	
EUP	Chippewa	47N	07W	4	11	10	98	9801184	F			Trapping	
EUP	Chippewa	43N	01E	1	10	25	98	9801251	F			Trapping	
EUP	Chippewa	47N	01W	32	11	13	98	9801254	M			Trapping	
EUP	Chippewa	44N	01W	17	11	29	98	9801257	F			Trapping	
EUP	Chippewa	44N	05W	2	12	2	98	9801351	F			Hunting	
EUP	Chippewa	44N	05W	31	2	11	99	9801381	M			Hunting	
EUP	Chippewa	44N	04W	11	12	30	98	9801423	M			Trapping	
EUP	Luce	46N	09W	30	1	16	99	9802239	M	M	0.5	Hunting	
EUP	Luce	45N	12W	30	11	25	98	9801187	F	F	1.5	Trapping	
EUP	Luce	46N	10W	13	12	28	98	9801196	F	F	1.5	Trapping	
EUP	Luce	45N	08W	30	1	1	99	9801197	F	M	3.5	Hunting	
EUP	Luce	48N	11W	14	2	25	99	9801772	M	M	3.5	Hunting	
EUP	Luce	47N	08W		11	28	98	9800513	F	M	5.5	Trapping	
EUP	Luce	48N	12W	16	11	24	98	9802041	M	M	6.5	Trapping	
EUP	Luce	45N	10W	27	12	26	98	9801195	F	M	9.5	Trapping	age +/- 2 yr.
EUP	Luce	46N	12W	13	2	28	99	9801152	M			Hunting	
EUP	Luce	46N	10W	30	1	6	99	9801200	M			Hunting	
EUP	Luce	45N	08W	30	1	12	99	9801207	M			Hunting	
EUP	Luce	46N	08W	12	12	9	98	9801258	M			Hunting	
EUP	Luce	46N	10W	21	1	6	99	9801481	F			Hunting	
EUP	Luce	46N	10W	21	1	6	99	9801482	F			Hunting	
EUP	Mackinac	43N	06W	19	2	21	99	9800515	F	M	0.5	Trapping	
EUP	Mackinac	44N	08W	20	1	7	99	9800551	M	M	0.5	Hunting	
EUP	Mackinac	43N	09W	22	12	8	98	9801204	F	F	0.5	Trapping	
EUP	Mackinac	43N	09W	20	1	27	99	9801209	F	M	0.5	Trapping	
EUP	Mackinac	43N	10W	10	1	16	99	9801213	F	F	0.5	Trapping	
EUP	Mackinac	43N	12W	21	2	17	99	9801215	F	M	0.5	Trapping	
EUP	Mackinac	43N	01W	7	12	26	98	9801261	M	M	0.5	Trapping	
EUP	Mackinac	43N	02W	12	1	3	99	9801262	M	M	0.5	Trapping	
EUP	Mackinac	43N	02W	12	12	31	98	9801263	M	F	0.5	Trapping	
EUP	Mackinac	43N	02W	12	1	1	99	9801264	F	F	0.5	Trapping	
EUP	Mackinac	42N	02W	5	1	23	99	9801273	F	M	0.5	Hunting	
EUP	Mackinac	43N	03W	9	2	28	99	9801285	M	F	0.5	Trapping	



## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
EUP	Mackinac	43N	11W	24	1	17	99	9801402	F	F	0.5	Trapping	
EUP	Mackinac	44N	08W	20	1	9	99	9800552	F	F	1.5	Hunting	
EUP	Mackinac	42N	12W	26	1	7	99	9801033	F	F	1.5	Hunting	
EUP	Mackinac	41N	04W	10	2	12	99	9801117	M	M	1.5	Hunting	
EUP	Mackinac	44N	08W	29	12	9	98	9801190	F	F	1.5	Hunting	
EUP	Mackinac	42N	11W	22	11	21	98	9801203	M	M	1.5	Trapping	
EUP	Mackinac	43N	12W	22	12	8	98	9801205	F	F	1.5	Trapping	
EUP	Mackinac	43N	11W	27	1	4	99	9801206	F	F	1.5	Trapping	
EUP	Mackinac	44N	08W	16	1	15	99	9801208	F	F	1.5	Trapping	
EUP	Mackinac	42N	11W	5	1	2	99	9801212	M	M	1.5	Trapping	
EUP	Mackinac	44N	11W	23	2	25	99	9801218	M	M	1.5	Trapping	
EUP	Mackinac	43N	01W	7	12	12	98	9801271	F	F	1.5	Trapping	
EUP	Mackinac	43N	01W	8	1	31	99	9801272	M	M	1.5	Trapping	
EUP	Mackinac	43N	03W	9	2	28	99	9801286	F	F	1.5	Trapping	
EUP	Mackinac	42N	02W	8	2	15	99	9801384	F	M	1.5	Trapping	
EUP	Mackinac	44N	12W	6	12	25	98	9801701	F	M	1.5	Hunting	
EUP	Mackinac	42N	05W	14	1	22	99	9801705	F	F	1.5	Hunting	
EUP	Mackinac	43N	08W	12	1	10	99	9802062	M	M	1.5	Hunting	
EUP	Mackinac	44N	07W	24	1	15	99	9802082	M	M	1.5	Hunting	
EUP	Mackinac	44N	09W	25	12	19	98	9802241	F	F	1.5	Hunting	
EUP	Mackinac	43N	08W	25	2	19	99	9800423	M	M	2.5	Hunting	
EUP	Mackinac	42N	12W	8	2	20	99	9800449	M	M	2.5	Hunting	
EUP	Mackinac	42N	12W	17	12	6	98	9800501	F	F	2.5	Hunting	
EUP	Mackinac	43N	11W	18	12	18	98	9801192	M	M	2.5	Trapping	
EUP	Mackinac	43N	10W	20	11	4	98	9801201	F	F	2.5	Trapping	
EUP	Mackinac	44N	08W	26	2	12	99	9801214	F	F	2.5	Trapping	age +/- 1 yr.
EUP	Mackinac	43N	09W	16	2	24	99	9801219	F	F	2.5	Trapping	
EUP	Mackinac	43N	05W	18	12	12	98	9801259	M	M	2.5	Hunting	
EUP	Mackinac	43N	02W	18	1	11	99	9801268	F	M	2.5	Hunting	
EUP	Mackinac	44N	07W	15	12	19	98	9801211	M	M	3.5	Trapping	
EUP	Mackinac	43N	08W	23	2	22	99	9801282	F	M	3.5	Hunting	
EUP	Mackinac	42N	01W	14	2	27	99	9801288	F	F	3.5	Trapping	
EUP	Mackinac	44N	12W	20	1	29	99	9801485	M	M	3.5	Hunting	
EUP	Mackinac	43N	11W	20	2	18	99	9801717	M	M	3.5	Hunting	
EUP	Mackinac	42N	12W	7	2	21	99	9800448	M	M	4.5	Hunting	
EUP	Mackinac	43N	10W	21	11	8	98	9801202	M	M	4.5	Trapping	
EUP	Mackinac	43N	09W	16	2	21	99	9801217	F	F	4.5	Trapping	age +/- 1 yr.
EUP	Mackinac	44N	08W	16	12	27	98	9801709	F	F	4.5	Hunting	
EUP	Mackinac	43N	05W	23	2	6	99	9801779	M	M	4.5	Hunting	
EUP	Mackinac	43N	04W	29	2	27	99	9802140	F	F	4.5	Hunting	
EUP	Mackinac	42N	12W	2	1	8	99	9800553	M	M	5.5	Hunting	
EUP	Mackinac	42N	12W	17	12	19	98	9800502	F	F	6.5	Trapping	
EUP	Mackinac	43N	11W	20	2	19	99	9801718	M	M	6.5	Hunting	
EUP	Mackinac	43N	08W	35	2	20	99	9800424	M	M	7.5	Hunting	
EUP	Mackinac	43N	08W	23	2	21	99	9802067	M	M	7.5	Hunting	
EUP	Mackinac	43N	08W	23	2	21	99	9802068	M	M	7.5	Hunting	
EUP	Mackinac	43N	07W	27	2	6	99	9802015	M	M	11.5	Hunting	
EUP	Mackinac	42N	11W	24	2	6	99	9800981	F			Trapping	
EUP	Mackinac	43N	01W	21	10	28	98	9801051	M			Trapping	
EUP	Mackinac	43N	02W	5	1	28	99	9801101	F			Hunting	
EUP	Mackinac	43N	04W	3	1	17	99	9801143	F			Hunting	
EUP	Mackinac	39N	02W	34	2	13	99	9801149	M			Hunting	
EUP	Mackinac	42N	06W	24	2	27	99	9801168	F			Hunting	
EUP	Mackinac	44N	12W	21	11	7	98	9801183	F			Trapping	
EUP	Mackinac	43N	12W	18	11	18	98	9801186	M			Trapping	
EUP	Mackinac	44N	11W	15	12	22	98	9801194	F			Trapping	
EUP	Mackinac	42N	05W	30	12	3	98	9801352	F			Trapping	
EUP	Mackinac	42N	05W	30	12	3	98	9801353	F			Trapping	
EUP	Mackinac	42N	05W	30	12	3	98	9801354	F			Trapping	
EUP	Mackinac	42N	05W	30	12	3	98	9801355	F			Trapping	
EUP	Mackinac	43N	04W	7	12	17	98	9801356	F			Trapping	



## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
EUP	Mackinac	42N	04W	18	12	21	98	9801357	M			Trapping	
EUP	Mackinac	42N	03W	31	12	28	98	9801358	F			Trapping	
EUP	Mackinac	42N	07W	4	12	26	98	9801359	F			Trapping	
EUP	Mackinac	42N	07W	4	12	27	98	9801360	F			Trapping	
EUP	Mackinac	42N	05W	21	1	10	99	9801361	M			Hunting	
EUP	Mackinac	43N	03W	4	1	17	99	9801362	F			Trapping	
EUP	Mackinac	42N	03W	20	1	17	99	9801363	M			Hunting	
EUP	Mackinac	42N	05W	28	1	22	99	9801364	F			Hunting	
EUP	Mackinac	42N	07W	5	1	23	99	9801365	M			Trapping	
EUP	Mackinac	42N	06W		1	25	99	9801366	F			Trapping	
EUP	Mackinac	42N	04W	3	1	25	99	9801367	M			Trapping	
EUP	Mackinac	42N	06W	24	2	4	99	9801368	F			Trapping	
EUP	Mackinac	43N	04W	11	2	20	99	9801371	F			Trapping	
EUP	Mackinac	42N	06W	24	2	27	99	9801372	M			Trapping	
EUP	Mackinac	41N	05W	29	2	11	99	9801382	F			Trapping	
EUP	Mackinac	42N	05W	23	2	10	99	9801383	M			Hunting	
EUP	Mackinac	42N	10W	8	1	5	99	9802012	F			Trapping	
EUP	Mackinac	42N	03W	24	2	22	99	9802150	F			Hunting	
EUP	Schoolcraft	39N	17W	18	11	2	98	9800107	M	M	0.5	Trapping	
EUP	Schoolcraft	42N	14W	25	2	14	99	9801405	M	F	0.5	Hunting	
EUP	Schoolcraft	42N	15W	17	11	20	98	9800621	F	M	1.5	Trapping	
EUP	Schoolcraft	44N	17W	29	1	17	99	9801267	M	M	1.5	Hunting	
EUP	Schoolcraft	43N	13W	5	1	11	99	9801302	F	F	1.5	Trapping	
EUP	Schoolcraft	42N	13W	21	1	15	99	9801404	F	F	1.5	Hunting	
EUP	Schoolcraft	43N	13W	3	1	30	99	9801210	M	M	3.5	Trapping	
EUP	Schoolcraft	45N	17W	9	2	20	99	9801305	F	M	3.5	Hunting	
EUP	Schoolcraft	42N	17W	7	2	20	99	9801407	M	M	3.5	Hunting	
EUP	Schoolcraft	44N	17W	3	1	17	99	9801484	F	F	3.5	Hunting	
EUP	Schoolcraft	42N	14W	20	10	31	98	9801401	F	F	4.5	Trapping	age +/- 1 yr.
EUP	Schoolcraft	42N	13W	21	1	15	99	9801403	F	F	4.5	Hunting	
EUP	Schoolcraft	42N	17W	17	2	13	99	9801406	M	M	4.5	Hunting	
EUP	Schoolcraft	45N	18W	11	2	7	99	9801487	M	M	7.5	Hunting	age +/- 1 yr.
EUP	Schoolcraft	43N	13W	5	11	28	98	9801188	F	M	10.5	Trapping	
EUP	Schoolcraft	43N	15W	15	11	3	98	9801181	F	F	12.5	Trapping	age +/- 2 yr.
EUP	Schoolcraft	39N	17W	8	2	27	99	9801408	M	M	13.5	Trapping	age +/- 3 yr.
EUP	Schoolcraft	43N	14W	34	4	11	99	9800190	M			Trapping	
EUP	Schoolcraft	39N	17W	2	2	25	99	9800537	M			Hunting	
EUP	Schoolcraft	45N	16W	20	1	29	99	9801043	M			Hunting	
EUP	Schoolcraft	46N	13W	9	11	7	98	9801182	F			Trapping	
EUP	Schoolcraft	44N	13W	32	12	4	98	9801189	F			Trapping	
EUP	Schoolcraft	44N	13W	13	12	19	98	9801193	M			Trapping	
EUP	Schoolcraft	43N	14W	31	1	6	99	9801198	F			Hunting	
EUP	Schoolcraft	46N	13W	34	1	5	99	9801199	M			Trapping	
EUP	Schoolcraft	43N	13W	12	1	12	99	9801483	M			Trapping	
EUP	Schoolcraft	43N	13W	27	1	26	99	9801683	F			Hunting	
EUP	Schoolcraft			2	28	99	9802028	F				Hunting	
WUP	Alger	44N	21W	30	12	10	98	9800083	F	F	0.5	Trapping	
WUP	Alger	44N	21W	34	12	23	98	9800090	F	M	0.5	Trapping	
WUP	Alger	44N	22W	19	1	12	99	9800213	M	M	0.5	Trapping	
WUP	Alger	44N	21W	32	2	13	99	9800008	M	M	1.5	Trapping	
WUP	Alger	44N	21W	34	12	23	98	9800087	M	M	1.5	Trapping	
WUP	Alger	44N	20W	32	12	10	98	9801301	F	F	1.5	Trapping	
WUP	Alger	44N	19W	6	1	24	99	9801303	F	F	1.5	Hunting	
WUP	Alger	44N	21W	34	12	23	98	9800089	F	F	2.5	Trapping	
WUP	Alger	45N	20W	31	11	7	98	9800024	M	M	4.5	Trapping	
WUP	Alger	45N	22W	34	11	5	98	9800109	M	M	6.5	Trapping	
WUP	Alger				3	19	99	9800165				Sick/Injured	
WUP	Alger	44N	21W	26	2	19	99	9801309	F			Hunting	
WUP	Baraga	48N	33W	10	12	27	98	9801866	F	F	3.5	Trapping	
WUP	Baraga	50N	32W	11	12	4	98	9801882	F	M	6.5	Trapping	
WUP	Baraga	47N	34W	36	1	4	99	9800974	F			Trapping	



## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
WUP	Baraga	52N	31W	10	11	17	98	9801881	F			Trapping	
WUP	Baraga	49N	32W	5	12	5	98	9801884	F			Trapping	
WUP	Baraga	49N	32W	5	12	5	98	9801885	F			Trapping	
WUP	Baraga	48N	34W	5	2	25	99	9801981	F			Trapping	
WUP	Baraga	47N	34W	36	2	20	99	9801990	M			Trapping	
WUP	Delta	38N	19W	20	2	9	99	9800007	F	F	0.5	Trapping	
WUP	Delta	43N	20W	10	1	13	99	9800012	F	F	0.5	Hunting	
WUP	Delta	43N	20W	11	1	15	99	9800014		M	0.5	Hunting	
WUP	Delta	38N	18W	24	11	9	98	9800030	F	F	0.5	Trapping	
WUP	Delta	42N	21W	12	11	28	98	9800071		F	0.5	Trapping	
WUP	Delta	42N	23W	19	12	6	98	9800076	F	F	0.5	Trapping	
WUP	Delta	41N	22W	23	12	15	98	9800082	F	F	0.5	Trapping	
WUP	Delta	41N	21W	19	12	27	98	9800091	F	M	0.5	Trapping	
WUP	Delta	41N	22W	24	12	29	98	9800094	M	M	0.5	Trapping	
WUP	Delta	43N	21W	17	12	30	98	9800095	F	F	0.5	Trapping	
WUP	Delta	39N	24W	8	10	27	98	9800103	F	F	0.5	Trapping	
WUP	Delta	42N	22W	36	11	4	98	9800106	F	F	0.5	Trapping	
WUP	Delta				1	16	99	9800155	M	M	0.5	Hunting	
WUP	Delta	41N	23W	16	1	16	99	9800512	M	M	0.5	Hunting	
WUP	Delta	39N	21W	15	12	12	98	9801191	F	F	0.5	Trapping	
WUP	Delta	43N	20W	14	2	25	99	9801307	F	M	0.5	Hunting	
WUP	Delta	38N	18W	21	12	8	98	9801451	F	F	0.5	Trapping	
WUP	Delta	38N	18W	21	12	10	98	9801452	M	M	0.5	Trapping	
WUP	Delta	38N	19W	20	2	8	99	9801455	F	M	0.5	Trapping	
WUP	Delta	41N	19W	22	1	22	99	9802240	F	M	0.5	Hunting	
WUP	Delta	40N	24W	19	2	6	99	9800006	F	F	1.5	Trapping	
WUP	Delta	42N	19W	33	11	3	98	9800022	F	M	1.5	Trapping	
WUP	Delta	41N	18W	29	12	6	98	9800027	F	F	1.5	Trapping	
WUP	Delta	38N	23W	3	12	23	98	9800092	F	F	1.5	Trapping	
WUP	Delta	42N	23W	3	1	5	99	9800099	M	M	1.5	Trapping	
WUP	Delta	39N	23W	1	11	1	98	9800104	F	F	1.5	Trapping	
WUP	Delta	38N	23W	31	11	3	98	9800105	M	M	1.5	Trapping	
WUP	Delta	38N	19W	21	1	2	99	9801454	M	M	1.5	Trapping	
WUP	Delta	43N	20W	17	1	14	99	9800013	F	M	2.5	Hunting	
WUP	Delta	41N	19W	18	1	16	99	9800015	M	M	2.5	Trapping	
WUP	Delta	38N	18W	24	11	9	98	9800029	M	M	2.5	Trapping	
WUP	Delta	42N	22W	32	2	7	99	9800217	F	F	2.5	Trapping	
WUP	Delta	42N	20W	15	1	2	99	9801052	M	M	2.5	Hunting	
WUP	Delta				2	18	99	9801716	F	M	2.5	Hunting	
WUP	Delta	43N	21W	24	1	14	99	9800011	F	F	3.5	Hunting	
WUP	Delta	42N	22W	36	11	9	98	9800023	F	F	3.5	Trapping	
WUP	Delta	42N	22W	32	1	1	99	9800093	M	M	3.5	Trapping	
WUP	Delta	40N	18W	33	12	11	98	9801453	M	F	3.5	Hunting	
WUP	Delta	42N	21W	26	2	29	99	9800036	F	F	4.5	Trapping	age +/- 1 yr.
WUP	Delta	42N	21W	12	11	27	98	9800028		F	5.5	Trapping	
WUP	Delta	42N	23W	3	1	6	99	9800098	M	F	5.5	Trapping	
WUP	Delta	42N	19W	25	2	21	99	9800447	M	M	6.5	Hunting	
WUP	Delta	43N	22W	15	1	11	99	9800002	F	F	7.5	Trapping	age +/- 1 yr.
WUP	Delta	43N	21W	21	1	14	99	9800100	M	M	7.5	Hunting	age +/- 1 yr.
WUP	Delta	43N	23W	16	12	22	98	9800085	M	M	8.5	Trapping	
WUP	Delta	43N	23W	16	1	4	99	9800196	F	M	8.5	Trapping	
WUP	Delta	43N	23W	18	12	12	98	9800077	M	M	9.5	Trapping	
WUP	Delta	43N	23W	4	1	23	99	9800193	F	F	9.5	Hunting	age +/- 2 yr.
WUP	Delta	42N	22W	10	1	30	99	9800018	M	M	10.5	Hunting	age +/- 2 yr.
WUP	Delta	39N	21W	10	9	8	98	9800021				Road Kill	
WUP	Delta	43N	23W	20	11	19	98	9800026	M			Trapping	
WUP	Delta	38N	23W	8	2	24	99	9800035	M			Trapping	
WUP	Delta	41N	22W	22	11	16	98	9800074	M			Trapping	
WUP	Delta	41N	22W	22	11	10	98	9800075	F			Trapping	
WUP	Delta	38N	23W	16	12	11	98	9800081	F			Hunting	
WUP	Delta	37N	24W	28	1	12	99	9800127	M			Trapping	



## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
WUP	Delta	43N	23W	8	11	6	98	9800182	M			Trapping	
WUP	Delta	43N	23W	7	2	4	99	9801044	F			Hunting	
WUP	Delta	43N	20W	30	2	17	99	9801310	M			Hunting	
WUP	Delta	43N	23W	6	1	14	99	9802014	M			Hunting	
WUP	Dickinson	43N	29W	13	2	20	99	9800685	F	M	0.5	Trapping	
WUP	Dickinson	41N	29W	7	11	3	98	9800901	F	F	0.5	Trapping	
WUP	Dickinson	41N	29W	7	11	8	98	9800902	F	F	0.5	Trapping	
WUP	Dickinson	41N	29W	7	12	3	98	9800904	F	F	0.5	Trapping	
WUP	Dickinson	41N	29W	6	11	2	98	9800970	F	F	0.5	Road Kill	
WUP	Dickinson	42N	28W	33	12	11	98	9800080	M	M	1.5	Trapping	
WUP	Dickinson	44N	27W	10	10	31	98	9800144	F	F	1.5	Trapping	
WUP	Dickinson	43N	28W	28	1	25	99	9800694	M	M	1.5	Hunting	
WUP	Dickinson	40N	29W		11	4	98	9800803	M	M	1.5	Trapping	
WUP	Dickinson	41N	30W	1	2	19	99	9800830	M	M	1.5	Trapping	
WUP	Dickinson	41N	27W	2	11	14	98	9800903	F	F	1.5	Trapping	
WUP	Dickinson	41N	28W	2	12	23	98	9800086	M	M	2.5	Hunting	
WUP	Dickinson	44N	28W	15	10	27	98	9800141	F	M	3.5	Trapping	
WUP	Dickinson	43N	29W	13	2	18	99	9800684	F	F	3.5	Trapping	
WUP	Dickinson	44N	27W	13	1	19	99	9801037	M	M	3.5	Hunting	
WUP	Dickinson	40N	29W	9	12	18	98	9800810	F	M	4.5	Trapping	
WUP	Dickinson	42N	29W	2	1	24	99	9801039	F	M	10.5	Hunting	
WUP	Dickinson	44N	27W	3	11	1	98	i-9800142	M			Trapping	
WUP	Dickinson	43N	29W	35	1	15	99	9800186	M			Hunting	
WUP	Dickinson	43N	29W	35	1	16	99	9800187	M			Hunting	
WUP	Dickinson	43N	28W	1	1	16	99	9800214	F			Hunting	
WUP	Dickinson	43N	29W	15	2	4	99	9800565	F			Hunting	
WUP	Dickinson	44N	29W	16	2	22	99	9800686	F			Hunting	
WUP	Dickinson	42N	28W	9	1	26	99	9800688	M			Hunting	
WUP	Dickinson	44N	27W	17	1	21	99	9800693	F			Hunting	
WUP	Dickinson	40N	29W	11	11	1	98	9800802	F			Trapping	
WUP	Dickinson	40N	28W	2	12	1	98	9800809	M			Trapping	
WUP	Dickinson	39N	28W	10	12	6	98	9800811	F			Trapping	
WUP	Dickinson	39N	28W	27	12	6	98	9800812	M			Hunting	
WUP	Dickinson	40N	29W	12	12	11	98	9800815	F			Hunting	
WUP	Dickinson	39N	28W	12	12	26	98	9800820	M			Trapping	
WUP	Dickinson	42N	29W	16	1	12	99	9800821	F			Trapping	
WUP	Dickinson	41N	29W	1	1	26	99	9800822	M			Trapping	
WUP	Dickinson	41N	29W	1	1	28	99	9800823	F			Trapping	
WUP	Dickinson	40N	30W	17	1	31	99	9800825	F			Trapping	
WUP	Dickinson	44N	29W	18	2	10	99	9800827	M			Hunting	
WUP	Dickinson	41N	29W	33	2	13	99	9800828	M			Trapping	
WUP	Dickinson	41N	29W	22	2	21	99	9800829	M			Trapping	
WUP	Dickinson	44N	29W	32	2	26	99	9800891	F			Trapping	
WUP	Dickinson	44N	29W	32	2	28	99	9800892	F			Trapping	
WUP	Dickinson	41N	29W	4	1	7	99	9800905	F			Trapping	
WUP	Dickinson	42N	28W	26	1	18	99	9800906	F			Trapping	
WUP	Dickinson	42N	28W	26	1	19	99	9800907	F			Trapping	
WUP	Dickinson	41N	29W	7	2	27	99	9800908	F			Trapping	
WUP	Dickinson	43N	30W	21	1	1	99	9800973	F			Trapping	
WUP	Dickinson	42N	29W	1	1	21	99	9801038	M			Hunting	
WUP	Dickinson	41N	30W	28	11	4	98	9800801	F	F	IS	Trapping	
WUP	Gogebic	45N	40W	12	1	19	99	9800681	F	M	0.5	Trapping	
WUP	Gogebic	46N	42W	10	2	1	99	9801808	F	F	0.5	Trapping	
WUP	Gogebic	45N	43W	27	12	8	98	9801821	M	M	0.5	Trapping	
WUP	Gogebic	44N	38W	10	12	26	98	9801843	M	M	0.5	Trapping	
WUP	Gogebic	45N	38W	11	2	9	99	9800699	F	M	1.5	Hunting	
WUP	Gogebic	45N	40W	12	1	19	99	9800979	F	F	1.5	Trapping	
WUP	Gogebic	46N	45W	28	1	21	99	9801804	F	F	1.5	Trapping	
WUP	Gogebic	45N	38W	21	11	15	98	9801841	F	F	1.5	Trapping	
WUP	Gogebic	45N	42W	14	2	8	99	9800700	M	M	2.5	Hunting	
WUP	Gogebic	45N	43W	27	12	8	98	9801823	M	M	2.5	Trapping	



## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
WUP	Gogebic	45N	42W	14	2	7	99	9800682	M	M	3.5	Hunting	
WUP	Gogebic	45N	40W	12	1	19	99	9800980	F	F	3.5	Trapping	
WUP	Gogebic	45N	38W	15	1	10	99	9800975	M	M	5.5	Hunting	
WUP	Gogebic	46N	43W	29	12	13	98	9801810	F	M	11.5	Trapping	
WUP	Gogebic	45N	42W	30	1	30	99	9800695	M			Hunting	
WUP	Gogebic	47N	42W		12	12	98	9801681	F			Hunting	
WUP	Gogebic	47N	44W	28	1	21	99	9801800	F			Trapping	
WUP	Gogebic	45N	42W	25	12	28	98	9801801	F			Hunting	
WUP	Gogebic	44N	41W	27	1	21	99	9801802	M			Trapping	
WUP	Gogebic	47N	43W	22	1	24	99	9801805	M			Hunting	
WUP	Gogebic	47N	43W	22	1	24	99	9801806	M			Hunting	
WUP	Gogebic	47N	46W	7	1	24	99	9801807	F			Trapping	
WUP	Gogebic	46N	43W	18	12	14	98	9801809	M			Trapping	
WUP	Gogebic	46N	41W	22	12	6	98	9801811	M			Trapping	
WUP	Gogebic	47N	45W	5	1	1	99	9801812	M			Trapping	
WUP	Gogebic	47N	46W	7	2	7	99	9801813	F			Trapping	
WUP	Gogebic	45N	43W	27	12	8	98	9801822	M			Trapping	
WUP	Gogebic	45N	40W	32	1	23	99	9802180	M			Trapping	
WUP	Gogebic	47N	44W	27	1	5	99	9801799		NA	IS	Trapping	
WUP	Gogebic	44N	38W	10	12	26	98	9801844	F	F	IS	Trapping	
WUP	Houghton	47N	35W	6	11	5	98	9801862	F	F	0.5	Trapping	
WUP	Houghton	54N	35W	28	11	20	98	9801787	F	F	2.5	Trapping	
WUP	Houghton	47N	35W	6	11	5	98	9801861	F	F	2.5	Trapping	
WUP	Houghton	49N	37W	11	12	4	98	9801883	M	M	9.5	Trapping	
WUP	Houghton	55N	34W	23	2	6	99	9801790	M			Trapping	
WUP	Houghton	56N	33W	16	1	8	99	9801791	M			Trapping	
WUP	Houghton	55N	31W	6	12	13	98	9801792	M			Trapping	
WUP	Houghton	47N	33W	4	12	29	98	9801867	M			Trapping	
WUP	Houghton	48N	37W	24	2	27	99	9801869	M			Trapping	
WUP	Houghton	47N	36W	8	11	3	98	9801879	F			Trapping	
WUP	Houghton	53N	34W	3	12	3	98	9801880	F			Trapping	
WUP	Houghton	48N	37W	17	12	8	98	9801887	F			Trapping	
WUP	Iron	44N	35W	23	1	29	99	9800697		M	0.5	Trapping	
WUP	Iron	42N	32W	33	11	20	98	9800806	F	F	0.5	Trapping	
WUP	Iron	42N	32W	34	12	8	98	9800813	F	M	0.5	Trapping	
WUP	Iron	42N	32W	34	12	8	98	9800814	F	F	0.5	Trapping	
WUP	Iron	42N	32W	33	1	2	99	9800817	F	F	0.5	Trapping	
WUP	Iron	42N	34W	3	11	6	98	9800961	F	F	0.5	Trapping	
WUP	Iron	44N	33W	28	11	4	98	9800962	F	F	0.5	Trapping	
WUP	Iron	46N	35W	23	11	10	98	9800964	F	F	0.5	Trapping	
WUP	Iron	43N	37W	2	1	18	99	9801845	F	F	0.5	Trapping	
WUP	Iron	41N	31W	2	12	3	98	9800561	M	F	1.5	Hunting	
WUP	Iron	44N	35W	23	1	31	99	9800698		M	1.5	Trapping	
WUP	Iron	42N	35W	26	11	6	98	9800953	F	F	1.5	Trapping	
WUP	Iron	44N	33W	28	11	17	98	9800954	F	F	1.5	Trapping	
WUP	Iron	42N	35W	27	2	10	99	9800683	M	M	2.5	Hunting	
WUP	Iron	42N	34W	3	12	10	98	9800966	F	F	2.5	Trapping	
WUP	Iron	44N	32W	16	1	1	99	9800972	F	F	2.5	Trapping	
WUP	Iron	46N	35W	26	2	21	99	9800554	M	M	3.5	Hunting	
WUP	Iron	43N	34W	28	2	22	99	9800687	F	M	3.5	Trapping	
WUP	Iron	42N	35W	35	1	11	99	9800976	F	M	3.5	Trapping	
WUP	Iron	46N	35W	28	2	27	99	9800689	M	M	4.5	Hunting	
WUP	Iron	44N	31W	36	1	14	99	9800977	M	F	4.5	Trapping	
WUP	Iron	44N	31W	36	1	16	99	9800978	F	M	4.5	Trapping	
WUP	Iron	46N	37W	9	12	7	98	9801886	M	M	4.5	Trapping	
WUP	Iron	45N	36W	29	3	1	99	9800690	M	M	5.5	Hunting	age +/- 1 yr.
WUP	Iron	46N	33W	19	12	14	98	9800969	F	F	6.5	Trapping	age +/- 1 yr.
WUP	Iron	45N	34W	13	1	8	99	9801703	F	F	8.5	Hunting	
WUP	Iron	44N	35W	6	1	23	99	9800532	M			Hunting	
WUP	Iron	46N	32W	8	1	30	99	9800562	M			Hunting	
WUP	Iron	46N	32W	8	1		99	9800563	F			Hunting	



## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
WUP	Iron	45N	32W	32	1		99	9800564	M			Hunting	
WUP	Iron	43N	31W	19	1	17	99	9800691	F			Trapping	
WUP	Iron	43N	31W	19	1	19	99	9800692	M			Trapping	
WUP	Iron	45N	35W	34	1	29	99	9800696	M			Hunting	
WUP	Iron	44N	33W	18	2	28	99	9800781	F			Trapping	
WUP	Iron	44N	37W	5	2	13	99	9800782	M			Hunting	
WUP	Iron	44N	37W	5	2	13	99	9800783	F			Hunting	
WUP	Iron	44N	37W	33	2	14	99	9800784	F			Hunting	
WUP	Iron	43N	36W	34	10	26	98	9800951	F			Trapping	
WUP	Iron	43N	34W	14			98	9800952				Trapping	
WUP	Iron	43N	32W	9			98	9800955	M			Trapping	
WUP	Iron	43N	35W	21	11	30	98	9800956	M			Trapping	
WUP	Iron	45N	35W	29	12	3	98	9800957	F			Trapping	
WUP	Iron	46N	32W	4	11	6	98	9800958	F			Trapping	
WUP	Iron	46N	32W	22	11	4	98	9800959	M			Trapping	
WUP	Iron	46N	32W	4	11	4	98	9800960	F			Trapping	
WUP	Iron	43N	32W	11	12	8	98	9800963	F			Trapping	
WUP	Iron	43N	32W	16	12	10	98	9800965	F			Trapping	
WUP	Iron	44N	31W	9	12	18	98	9800967	M			Trapping	
WUP	Iron	43N	31W	32	12	24	98	9800971	F			Trapping	
WUP	Iron	44N	33W	2	12	19	98	9801710	F			Trapping	
WUP	Keweenaw	58N	29W	31	12	14	98	9801856	M			Trapping	
WUP	Keweenaw	57N	32W	15	12	2	98	9801857	F			Trapping	
WUP	Marquette	45N	26W	13	2	6	99	9800020	F	M	0.5	Hunting	
WUP	Marquette	43N	26W	32	12	11	98	9800078	F	M	0.5	Hunting	
WUP	Marquette	47N	28W	14	11	8	98	9800146	F	M	0.5	Hunting	
WUP	Marquette	46N	30W	9	12	20	98	9800153	F	F	0.5	Trapping	
WUP	Marquette	46N	30W	18	2	21	99	9800162	F	F	0.5	Trapping	
WUP	Marquette	48N	27W	7	2	28	99	9800164	F	M	0.5	Nuisance	Acted unnatural
WUP	Marquette	45N	25W	31	12	3	98	9800189	F	M	0.5	Trapping	
WUP	Marquette	47N	30W	17	12	6	98	9800204	F	F	0.5	Trapping	
WUP	Marquette	46N	27W	12	12	17	98	9800206	F	F	0.5	Trapping	
WUP	Marquette	46N	27W	12	12	17	98	9800207	F	M	0.5	Trapping	
WUP	Marquette	46N	30W	9	12	13	98	9800208	F	F	0.5	Trapping	
WUP	Marquette	46N	30W	9	12	13	98	9800209	F	M	0.5	Trapping	
WUP	Marquette	43N	25W	8	1	8	99	9800212	F	M	0.5	Trapping	
WUP	Marquette	48N	27W	36	1	29	99	9800216	F	F	0.5	Trapping	
WUP	Marquette	45N	27W	33	2	6	99	9801046	M	M	0.5	Hunting	
WUP	Marquette	44N	23W	19	2	24	98	9800034	F	M	1.5	Hunting	
WUP	Marquette	48N	29W	11	10	30	98	9800143	F	F	1.5	Trapping	
WUP	Marquette	45N	28W	25	11	10	98	9800147	M	M	1.5	Hunting	
WUP	Marquette	46N	28W	34	11	10	98	9800148	F	M	1.5	Hunting	
WUP	Marquette	46N	24W	35	11	27	98	9800150	F	F	1.5	Trapping	
WUP	Marquette	49N	27W	27	10	31	98	9800151	F	F	1.5	Trapping	
WUP	Marquette	46N	30W	19	2	19	99	9800161	M	F	1.5	Trapping	
WUP	Marquette	42N	25W	8	11	21	98	9800185	M	M	1.5	Trapping	
WUP	Marquette	50N	26W	21	11	7	98	9800201	M	M	1.5	Trapping	
WUP	Marquette	45N	30W	16	11	10	98	9800804	F	F	1.5	Trapping	
WUP	Marquette	46N	29W	14	2	28	99	9800893	M	M	1.5	Trapping	
WUP	Marquette	45N	26W	14	1	23	99	9801304	M	M	1.5	Trapping	
WUP	Marquette	43N	25W	28	12	19	98	9800084	F	F	2.5	Hunting	
WUP	Marquette	48N	27W	16	2	20	99	9800159	F	F	2.5	Trapping	
WUP	Marquette	49N	28W	25	2	22	99	9800160	F	F	2.5	Trapping	
WUP	Marquette	45N	23W	33	11	6	98	9800184	F	F	2.5	Trapping	
WUP	Marquette	46N	26W	20	2	8	99	9800188	F	M	2.5	Hunting	
WUP	Marquette	50N	26W	21	11	23	98	9800202	M	M	2.5	Trapping	
WUP	Marquette	46N	27W	12	12	17	98	9800205	M	M	2.5	Trapping	
WUP	Marquette	46N	23W	35	11	19	98	9800025	F	M	3.5	Trapping	
WUP	Marquette	43N	26W	32	12	11	98	9800079	M	M	3.5	Hunting	
WUP	Marquette	46N	30W	20	1	30	99	9800157	M	M	3.5	Trapping	
WUP	Marquette	46N	30W	9	12	12	98	9800210	F	F	3.5	Trapping	age +/- 1 yr.



## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
WUP	Marquette	46N	23W	10	1	24	99	9800215	F	F	3.5	Trapping	
WUP	Marquette	46N	29W	13	2	28	99	9800894	M	M	3.5	Trapping	
WUP	Marquette	42N	24W	5	10	25	98	9800110	F	M	4.5	Trapping	
WUP	Marquette	46N	30W	15	12	26	98	9800211	M	M	4.5	Trapping	
WUP	Marquette	44N	26W	24	11	28	98	9800152	F	M	5.5	Trapping	age +/- 1 yr.
WUP	Marquette	48N	27W	18	2	25	99	9800163	F	F	5.5	Trapping	age +/- 1 yr.
WUP	Marquette	44N	26W	13	10	31	98	9800281	F	F	5.5	Trapping	
WUP	Marquette	46N	30W	7	2	8	99	9800158	F	M	7.5	Hunting	
WUP	Marquette	44N	24W	31	10	28	98	9800181	M	M	7.5	Trapping	
WUP	Marquette	46N	30W	15	2	27	99	9800220	M	M	7.5	Trapping	
WUP	Marquette	44N	24W	30	12	30	98	9800511	M	M	8.5	Hunting	
WUP	Marquette	46N	29W	18	2	15	99	9800218	M	M	9.5	Hunting	
WUP	Marquette	47N	30W	17	12	6	98	9800203	F	F	11.5	Trapping	age +/- 1 yr.
WUP	Marquette	44N	24W	33	1	12	99	9800001	M			Trapping	
WUP	Marquette	45N	26W	13	11	30	99	9800003	F			Trapping	
WUP	Marquette	45N	26W	13	11	30	99	9800004	F			Trapping	
WUP	Marquette	48N	26W	34	11	2	98	9800145	F			Trapping	
WUP	Marquette	48N	29W	11	11	8	98	9800149	F			Trapping	
WUP	Marquette	47N	27W	34	1	17	99	9800154	F			Hunting	
WUP	Marquette	46N	29W	6	1	25	99	9800156	F			Found	
WUP	Marquette	44N	25W	29	11	6	98	9800183	F			Trapping	
WUP	Marquette	45N	25W	31	11	29	98	9800190	F			Trapping	
WUP	Marquette	43N	25W	22	12	16	98	9800191	M			Trapping	
WUP	Marquette	45N	26W	17	12	28	98	9800192	F			Trapping	
WUP	Marquette	45N	25W	34	3	22	99	9800194	F			Road Kill	
WUP	Marquette	45N	28W	32	11	23	98	9800753	M			Trapping	
WUP	Menominee	38N	25W		1	29	99	9800019	F	M	0.5	Trapping	
WUP	Menominee	37N	25W	19	1	1	99	9800122	M	M	0.5	Trapping	
WUP	Menominee	37N	25W	19	1	1	99	9800123	M	M	0.5	Trapping	
WUP	Menominee	39N	26W	33	1	1	99	9800124		F	0.5	Trapping	
WUP	Menominee	39N	26W	29	1	18	99	9800129	M	M	0.5	Hunting	
WUP	Menominee	36N	27W	5	11	27	98	9800807	M	M	0.5	Trapping	
WUP	Menominee	36N	27W	5	11	26	98	9800808	F	M	0.5	Trapping	
WUP	Menominee	37N	27W	12	12	12	98	9801700	F	M	0.5	Trapping	
WUP	Menominee	39N	26W	20	1	16	99	9802081	F	F	0.5	Hunting	
WUP	Menominee	40N	25W	24	2	18	99	9800010	M	M	1.5	Trapping	
WUP	Menominee	40N	25W	36	1	22	99	9800017	F	F	1.5	Trapping	
WUP	Menominee	40N	25W	24	2	18	99	9800032	M	M	1.5	Trapping	
WUP	Menominee	40N	25W	21	2	26	99	9800040	M	M	1.5	Trapping	
WUP	Menominee	40N	26W	12	12	24	98	9800088	M	M	1.5	Trapping	
WUP	Menominee	40N	25W	26	1	4	99	9800096	F	F	1.5	Trapping	
WUP	Menominee	40N	25W	8	10	27	98	9800102	M	M	1.5	Trapping	
WUP	Menominee	36N	26W	34	10	29	98	9800111		F	1.5	Trapping	
WUP	Menominee	37N	26W	20	11	7	98	9800112	F	M	1.5	Trapping	
WUP	Menominee	34N	25W	8	12	26	98	9800121	F	M	1.5	Trapping	
WUP	Menominee	39N	27W	10	2	26	99	9800132	M	F	1.5	Hunting	
WUP	Menominee	37N	28W	13	1	6	99	9801707	F	F	1.5	Trapping	
WUP	Menominee	40N	25W	7	1	20	99	9800016	M	M	2.5	Trapping	
WUP	Menominee	39N	25W	26	2	21	99	9800033	F	F	2.5	Trapping	
WUP	Menominee	39N	26W	34	11	29	98	9800072	F	F	2.5	Trapping	
WUP	Menominee	40N	25W	26	1	4	99	9800097	M	M	2.5	Trapping	
WUP	Menominee	37N	27W	29	12	19	98	9800118	M	M	2.5	Trapping	
WUP	Menominee	39N	27W	28	1	13	99	9800128	M	M	2.5	Hunting	
WUP	Menominee	40N	26W	6	2	25	99	9800131	M	M	2.5	Hunting	
WUP	Menominee	40N	25W	33	2	4	99	9800005	M	F	3.5	Trapping	
WUP	Menominee	40N	25W	26	2	14	99	9800031	M	M	3.5	Trapping	
WUP	Menominee	40N	25W	8	10	26	98	9800101	F	F	3.5	Trapping	
WUP	Menominee	38N	27W	5	11	14	98	9800805	F	F	3.5	Trapping	
WUP	Menominee	37N	28W	32	12	20	98	9800816	F	F	3.5	Trapping	
WUP	Menominee	37N	28W	13	1	16	99	9801704	F	M	3.5	Trapping	
WUP	Menominee	40N	25W	24	2	18	99	9800009	M	M	4.5	Trapping	



## APPENDIX I.

## 1998-99 BOBCAT DATA - ZONE 1

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
WUP	Menominee	35N	25W	13	12	1	98	9800113	F	M	8.5	Hunting	
WUP	Menominee	40N	25W	8	11	3	98	9800108	M	M	9.5	Trapping	
WUP	Menominee	39N	26W	2	12	8	98	9800073	F			Trapping	
WUP	Menominee	39N	26W	2	12	5	98	9800114	F			Trapping	
WUP	Menominee	39N	26W	3	12	5	98	9800115	F			Trapping	
WUP	Menominee	37N	25W	19	12	8	98	9800116	F			Trapping	
WUP	Menominee	36N	27W	31	12	10	98	9800117	F			Trapping	
WUP	Menominee	38N	26W	25	12	21	98	9800119	M			Trapping	
WUP	Menominee	37N	26W	14	12	28	98	9800120	F			Trapping	
WUP	Menominee	35N	25W	14	1	4	99	9800125	F			Trapping	
WUP	Menominee	34N	26W	9	1	7	99	9800126	M			Hunting	
WUP	Menominee	35N	27W	17	2	19	99	9800130	M			Trapping	
WUP	Menominee	36N	27W	24	2	24	99	9800133	F			Hunting	
WUP	Menominee	40N	25W	22	12	30	98	9800818	F			Hunting	
WUP	Menominee	40N	27W	13	12	25	98	9800819	F			Trapping	
WUP	Menominee	38N	28W	5	2	2	99	9800826	M			Trapping	
WUP	Menominee	41N	25W	20	12	1	98	9802061				Hunting	
WUP	Ontonagon	48N	40W	5	1	8	99	9801873	M	M	0.5	Hunting	
WUP	Ontonagon	51N	42W	13	12	8	98	9801794	F	F	1.5	Trapping	
WUP	Ontonagon	50N	41W	18	12	10	98	9801835	M	M	1.5	Trapping	
WUP	Ontonagon	51N	41W	13	12	17	98	9801836	M	M	1.5	Trapping	
WUP	Ontonagon	48N	39W		11	22	98	9801864	M	M	1.5	Trapping	
WUP	Ontonagon	49N	39W	1	1	10	99	9801870	M	M	1.5	Trapping	
WUP	Ontonagon	48N	38W	27	11	8	98	9801863	F	F	2.5	Trapping	
WUP	Ontonagon	48N	39W		12	7	98	9801865	F	F	2.5	Trapping	
WUP	Ontonagon	46N	38W	35	2	27	99	9801982	M	M	2.5	Trapping	





## APPENDIX II.

## 1998-99 BOBCAT DATA - ZONE 2

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
NE	Alcona	27N	09E	1	2	27	99	9802182	F	M	0.5	Hunting	
NE	Alcona	25N	06E	21	2	26	99	9800452	M			Hunting	
NE	Alcona	28N	09E	8	1	2	99	9801081	F			Hunting	
NE	Alcona	28N	09E	8	1	2	99	9801082	F			Hunting	
NE	Alcona	28N	06E	8	2	12	99	9801771	F			Hunting	
NE	Alcona	27N	09E	30	1	3	99	9802021	M			Hunting	
NE	Alcona	26N	09E	36	1	29	99	9802024				Hunting	
NE	Alcona	26N	08E	36	2	20	99	9802025	F			Hunting	
NE	Alcona	27N	08E	22	2	25	99	9802027	F			Hunting	
NE	Alcona	27N	08E	25	2	27	99	9802029	F			Hunting	
NE	Alcona	27N	08E	25	3	1	99	9802030	F			Hunting	
NE	Alcona	26N	07E	24	2	24	99	9802109	F			Hunting	
NE	Alcona	27N	08E	22	2	8	99	9802110	M			Hunting	
NE	Alcona	26N	07E	19	3	17	99	9802209				Road Kill	
NE	Alpena	30N	08E	17	1	18	99	9801086	F	M	0.5	Hunting	
NE	Alpena	32N	08E	25	2	17	99	9801091	F	M	0.5	Hunting	
NE	Alpena	30N	06E	29	1	17	99	9801099	F	M	0.5	Hunting	
NE	Alpena	31N	07E	30	1	11	99	9801084	F	F	1.5	Hunting	
NE	Alpena	32N	07E	6	1	20	99	9801089	F	F	1.5	Hunting	
NE	Alpena	32N	07E	17	2	21	99	9801092	M	M	1.5	Hunting	
NE	Alpena	32N	07E	3	2	22	99	9801110	M	F	1.5	Hunting	
NE	Alpena	30N	06E	29	1	17	99	9801100	M	F	2.5	Hunting	
NE	Alpena	30N	08E	17	1	18	99	9801087		F	3.5	Hunting	
NE	Alpena	31N	07E	36	1	23	99	9801088	M	M	3.5	Hunting	
NE	Alpena	31N	07E	26	2	20	99	9801098	M	M	6.5	Hunting	
NE	Alpena	31N	05E	28	1	27	99	9802023	M	M	8.5	Hunting	
NE	Alpena	29N	06E	22	2	24	99	9802026	M			Hunting	
NE	Alpena	31N	06E	23	1	14	99	9802192	F			Hunting	
NE	Alpena	31N	06E	23	1	14	99	9802193	F			Hunting	
NE	Antrim	29N	07W	15	1	22	99	9800531	F	M	0.5	Hunting	
NE	Antrim	29N	06W	10	12	13	98	9800421	M	M	1.5	Road Kill	
NE	Antrim	30N	05W	12	2	24	99	9800516	F	F	1.5	Hunting	
NE	Antrim	31N	06W	31	1	27	99	9801050	M	M	1.5	Hunting	
NE	Antrim	31N	07W	27	1	31	99	9801714		F	2.5	Hunting	
NE	Antrim	30N	06W	1	2	17	99	9800514	M	M	3.5	Hunting	
NE	Antrim	30N	06W	4	2	24	99	9801167	F			Trapping	
NE	Charlevoix	33N	04W	8	2	18	99	9801163	M			Hunting	
NE	Charlevoix	33N	04W	20	2	21	99	9801166	F			Hunting	
NE	Cheboygan	33N	01E	29	1	28	99	9801134	M	M	0.5	Hunting	
NE	Cheboygan	35N	03W	20	2	14	99	9801715	F	M	0.5	Hunting	
NE	Cheboygan	33N	01W	36	1	15	99	9801114	M	M	1.5	Hunting	
NE	Cheboygan	33N	01E	4	1	14	99	9801173	F	F	1.5	Hunting	
NE	Cheboygan	34N	01E	9	1	29	99	9801682	F	F	1.5	Hunting	
NE	Cheboygan	34N	01E	23	2	9	99	9801136	F	F	2.5	Hunting	
NE	Cheboygan	33N	01E	1	1	13	99	9801171	F	M	2.5	Hunting	
NE	Cheboygan	33N	02W	2	1	2	99	9801141	M	F	3.5	Hunting	
NE	Cheboygan	35N	02W	12	1	15	99	9802013	F	M	5.5	Hunting	
NE	Cheboygan	37N	01E	31	2	27	99	9801151	F	M	10.5	Hunting	
NE	Cheboygan	37N	01E	35	2	13	99	9800534	M			Hunting	
NE	Cheboygan	34N	01W	30	1	17	99	9800622	F			Hunting	
NE	Cheboygan	37N	02W		12	8	98	9801112				Found	
NE	Cheboygan	36N	02W	5	2	14	99	9801121	M			Hunting	
NE	Cheboygan	33N	01E	5	3	1	99	9801125	M			Hunting	
NE	Cheboygan	38N	03W	2	1	10	99	9801142	F			Hunting	
NE	Cheboygan	37N	02W	13	1	18	99	9801144	M			Hunting	
NE	Cheboygan	39N	03W	33	1	25	99	9801145	F			Hunting	
NE	Cheboygan	37N	01W	20	1	31	99	9801146	M			Hunting	
NE	Cheboygan	36N	02W	7	2	7	99	9801147	M			Hunting	
NE	Cheboygan	33N	01W	24	2	8	99	9801148	M			Hunting	
NE	Cheboygan	37N	02W	7	2	17	99	9801150	M			Hunting	
NE	Cheboygan	34N	01E	23	1	9	99	9802243	M			Hunting	



## APPENDIX II.

## 1998-99 BOBCAT DATA - ZONE 2

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
NE	Cheboygan	36N	01E	20	1	9	99	9802244	F			Hunting	
NE	Crawford	27N	04W	7	2	5	99	9801045	M	M	3.5	Hunting	
NE	Crawford	26N	02W	12	1	22	99	9802134	F	F	5.5	Hunting	age +/- 1 yr.
NE	Crawford	27N	01W	14	2	3	99	9802136	M	M	8.5	Hunting	
NE	Crawford	28N	04W	23	1	31	99	9801042	F			Hunting	
NE	Crawford	28N	04W	18	2	13	99	9801047	M			Hunting	
NE	Crawford	28N	01W	3	3	17	99	9801058	M			Trapping	
NE	Crawford	28N	01W	3	3	10	99	9801059	M			Trapping	
NE	Crawford				1	15	99	9802022	F			Hunting	
NE	Emmet	35N	04W	27	2	7	99	9801115	F	F	1.5	Hunting	
NE	Emmet	35N	04W	33	1	30	99	9801119	M	M	1.5	Hunting	
NE	Emmet	34N	05W	21	1	30	99	9801118	M	M	2.5	Hunting	
NE	Emmet	35N	04W	35	1	30	99	9801135	M	M	3.5	Hunting	
NE	Emmet	38N	04W	21	1	9	99	9801111	M			Hunting	
NE	Emmet	37N	05W	25	1	26	99	9801120	M			Hunting	
NE	Emmet	37N	05W	34	2	23	99	9801124	M			Hunting	
NE	Iosco	21N	05E	19	1	17	99	9802123	M	M	1.5	Hunting	
NE	Iosco	23N	05E	18	2	6	99	9802137	F	M	1.5	Road Kill	
NE	Iosco	23N	05E	6	2	8	99	9802139	F	M	1.5	Hunting	
NE	Iosco	22N	08E	8	1	30	99	9802141	F	F	4.5	Hunting	
NE	Iosco	22N	06E	19	1	23	99	9802112	F			Hunting	
NE	Montmorency	31N	03E	19	1	29	99	9801174	F	M	0.5	Hunting	
NE	Montmorency	31N	01E	28	1	6	99	9801031	M	M	1.5	Hunting	
NE	Montmorency	29N	01E	1	1	19	99	9802133	F	F	1.5	Hunting	
NE	Montmorency	30N	04E	1	1	5	99	9801083	F	F	2.5	Hunting	
NE	Montmorency	32N	01E	6	1	30	99	9801049		M	3.5	Hunting	
NE	Montmorency	28N	04E	16	1	10	99	9801085	F	F	3.5	Hunting	
NE	Montmorency	30N	03E	11	1	4	99	9801702	F	M	4.5	Hunting	
NE	Montmorency	30N	03E	11	1	3	99	9800982	M	M	6.5	Hunting	
NE	Montmorency	30N	04E	2	2	27	99	9801175	M	M	6.5	Hunting	
NE	Montmorency	30N	04E	27	2	21	99	9801093	M			Hunting	
NE	Ogemaw	21N	04E	2	1	29	99	9801711	M	M	0.5	Hunting	
NE	Ogemaw	21N	04E	2	1	29	99	9801712	F	F	0.5	Hunting	
NE	Ogemaw	21N	01E	20	1	65	99	9802042	F	F	1.5	Hunting	
NE	Ogemaw	21N	01E	15	1	19	99	9802124	F	M	1.5	Hunting	
NE	Ogemaw	24N	03E	20	1	30	99	9802135	M	M	1.5	Hunting	
NE	Ogemaw	23N	03E	25	2	6	99	9802138	F	F	1.5	Hunting	
NE	Ogemaw	22N	03E	31	1	30	99	9802129	F	F	2.5	Hunting	
NE	Ogemaw	24N	04E	34	2	6	99	9802205	M	M	3.5	Hunting	
NE	Ogemaw	22N	03E	6	1	30	99	9802130	F	F	4.5	Hunting	
NE	Ogemaw	23N	02E	11	1	19	99	9802125	M			Hunting	
NE	Ogemaw	23N	02E	11	1	18	99	9802126	F			Hunting	
NE	Oscoda	27N	01E	22	1	8	99	9802122	F	F	0.5	Hunting	
NE	Oscoda	25N	04E	17	1	2	99	9802132	F	M	0.5	Hunting	
NE	Oscoda	27N	01E	34	2	28	99	9802203	F	F	0.5	Hunting	
NE	Oscoda	28N	01E	27	2	14	99	9802246	M	M	3.5	Hunting	ET 134
NE	Oscoda	28N	04E	35	2	7	99	9802181	F	F	6.5	Hunting	
NE	Oscoda	27N	01E	33	1	29	99	9802128		M	7.5	Hunting	
NE	Oscoda	26N	01E	36	2	20	99	9802066	F	M	12.5	Hunting	age +/- 2 yr.
NE	Oscoda	25N	03E	29	1	9	99	9802111	F			Hunting	
NE	Oscoda	28N	02E	12	1	1	99	9802236	F			Hunting	
NE	Oscoda	27N	01E	33	2	18	99	9802201	M	M	IS	Hunting	
NE	Otsego	29N	01W	26	2	17	99	9802206	M	M	0.5	Hunting	
NE	Otsego	29N	02W	4	1	8	99	9801032		M	2.5	Hunting	
NE	Otsego	32N	01W	6	2	21	99	9801165	M	M	2.5	Trapping	
NE	Otsego	31N	02W	22	1	10	99	9801034	M			Hunting	
NE	Otsego	31N	02W		1	5	99	9801035	M			Hunting	
NE	Otsego	29N	02W	23	1	17	99	9801036	M			Hunting	
NE	Otsego	31N	01W	27	1	23	99	9801040	F			Hunting	
NE	Otsego	31N	03W	2	1	7	99	9801041	M			Hunting	
NE	Otsego	31N	01W	12	2	14	99	9801048	F			Hunting	



## APPENDIX II.

## 1998-99 BOBCAT DATA - ZONE 2

MGT UNIT	COUNTY	TWN	RNG	SEC	MO	DAY	YR	SEAL	FIELD SEX	LAB SEX	AGE	METHOD	REMARKS
NE	Otsego	32N	01W	34	2	13	99	9801161	F			Hunting	
NE	Otsego	32N	01W	33	2	17	99	9801162	M			Trapping	
NE	Otsego	31N	02W	22	2	19	99	9801164	M			Hunting	
NE	Otsego	29N	02W	26	2	26	99	9802202	M	M	IS	Hunting	
NE	Presque Isle	34N	07E	30	1	16	99	9802249	F	M	0.5	Hunting	
NE	Presque Isle	34N	03E	4	1	1	99	9801131	M	M	1.5	Hunting	
NE	Presque Isle	34N	02E	11	1	10	99	9801132	M	M	1.5	Hunting	
NE	Presque Isle	34N	02E	12	1	17	99	9800569	M	M	2.5	Hunting	
NE	Presque Isle	34N	02E	33	2	17	99	9801123	F	F	2.5	Hunting	
NE	Presque Isle	36N	03E	34	2	18	99	9801063	M	M	3.5	Hunting	
NE	Presque Isle	34N	07E	30	1	15	99	9802250	M	F	3.5	Hunting	
NE	Presque Isle	34N	02E	6	1	15	99	9800592	F	F	5.5	Hunting	age +/- 2 yr.
NE	Presque Isle	33N	02E	6	2	27	99	9801064	F	M	5.5	Hunting	age +/- 1 yr.
NE	Presque Isle	34N	03E	27	2	18	99	9801122	M	M	10.5	Hunting	
NE	Presque Isle	34N	06E	21	1	8	99	9801061	M			Road Kill	
NE	Presque Isle	35N	03E	1	2	17	99	9801062	F			Hunting	
NE	Presque Isle	33N	08E	21	1	5	99	9801090	F			Hunting	
NE	Presque Isle	34N	03E	34	1	12	99	9801172	M			Hunting	
NE	Roscommon	23N	03W	12	1	31	99	9801780	F	F	1.5	Hunting	
NE	Roscommon	22N	01W	7	2	14	99	9802207	M	M	1.5	Hunting	
NE	Roscommon	21N	03W	36	2	6	99	9802065	F	F	2.5	Hunting	
NE	Roscommon	22N	01W	11	12	28	98	9802093	M	M	2.5	Road Kill	
NE	Roscommon	22N	03W	26	1	30	99	9802051	M	M	4.5	Hunting	
NE	Roscommon	24N	01W	21	1	23	99	9802127	M	M	4.5	Hunting	
NE	Roscommon	24N	01W	11	2	8	99	9802114	M			Hunting	
NE	Roscommon	23N	04W	7	11		98	9802191	F			Accidental	
NW	Kalkaska	26N	06W	15	2	14	99	9800422	F	F	4.5	Hunting	
NW	Manistee	22N	14W	7	6	8	98	6700382	M			Road Kill	
NW	Mason	20N	17W	4	12	19	98	9800441	M			Road Kill	
NW	Missaukee	21N	08W	31	1	23	99	9800442	F	F	0.5	Hunting	
NW	Missaukee	21N	05W	23	2	15	99	9800451	M	M	0.5	Hunting	
NW	Missaukee	22N	05W	15	12	21	98	9802092	M	M	0.5	Accidental	
NW	Missaukee	23N	06W	5	2	14	99	9802095	F	F	1.5	Hunting	
NW	Missaukee	22N	05W	15	12	20	98	9802091	F	F	2.5	Accidental	
NW	Missaukee	23N	07W	23	1	26	99	9802094	M	M	2.5	Hunting	
NW	Missaukee	21N	06W	14	2	13	99	9800446	F			Hunting	
NW	Missaukee	22N	08W	13	2	10	99	9800533	M			Hunting	
NW	Newaygo	16N	13W	35	7	25	98	9701755			0.5	Road Kill	No sample, Juv.
NW	Newaygo	16N	13W	35	7	25	98	9701756			0.5	Road Kill	No sample, Juv.
NW	Newaygo	16N	13W		9	19	98		M			Road Kill	
NW	Osceola	18N	08W	25	2	6	99	9800593	F	F	0.5	Hunting	
NW	Wexford	24N	10W	1	2	13	99	9800624	M	M	2.5	Hunting	
NW	Wexford	24N	10W	1	2	13	99	9800625	M	F	4.5	Hunting	
NW	Wexford	21N	11W	23	2	7	99	9800626	F	M	7.5	Hunting	
NW	Wexford	22N	10W	32	2	15	99	9800535	F			Hunting	
NW	Wexford	24N	09W	19	2	15	99	9800536	F			Hunting	
NW	Wexford	22N	10W	5	2	15	99	9800538	F			Hunting	
SB	Clare	19N	06W	28	1	17	99	9802063	F	F	1.5	Hunting	
SB	Clare	19N	05W	14	1	27	99	9800623	M	M	2.5	Hunting	
SB	Clare	18N	06W	16	2	1	99	9802083	M	M	2.5	Road Kill	
SB	Clare	19N	06W	28	1	28	99	9800443	M	M	3.5	Hunting	

