



**Results of the 1998 Waawaashkeshi (Deer) and
Makwa (Bear) Hunting Seasons in the Ceded
Territories of Michigan**

by
Miles Falck
Wildlife Biologist

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**Great Lakes Indian Fish
& Wildlife Commission**
Biological Services Division
P.O. Box 9
Odanah, WI 54861
(715) 682-6619

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Introduction

This report summarizes the 1998 tribal harvest of waawaashkeshi (deer) and makwa (bear) on lands in Michigan that were ceded to the United States by the Lake Superior Ojibwa in the treaties of 1836 and 1842 (Fig. 1). The majority of hunters were members of 3 Lake Superior bands with reservations in the upper peninsula (UP): Bay Mills Indian Community (BMIC), Keweenaw Bay Indian Community (KBIC), and the Lac Vieux Desert Band (LVD) (see Fig. 1). However, harvest by 4 Wisconsin Bands signatory to the treaty of 1842 (Bad River, Lac Courte Oreilles, Lac du Flambeau, and the Sokaogon Chippewa) is also included in harvest totals for the 1842 ceded territory.

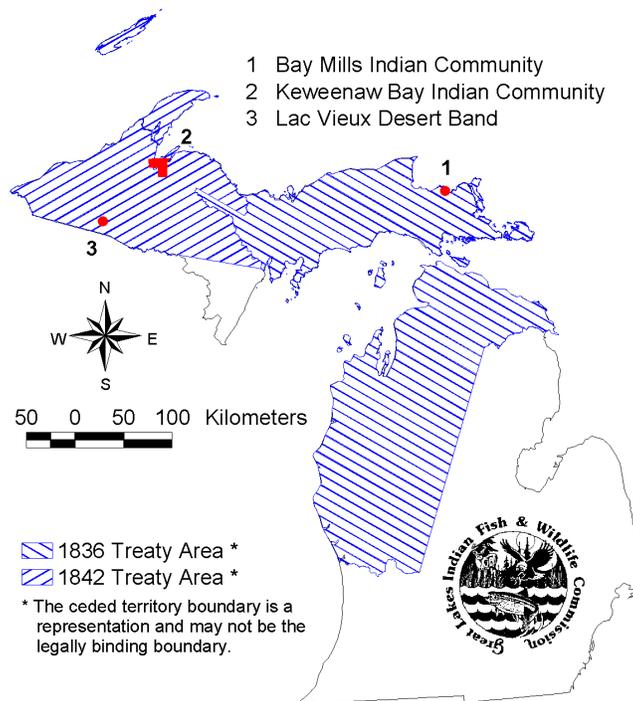


Figure 1. Location of GLIFWC member tribes and ceded territory in Michigan.

DEER HUNTING

Regulations

Tribal hunters within Michigan were regulated by distinct and specific tribal regulations for the 1998 season. Table 1 summarizes the major features of each tribe's deer hunting regulations.

Table 1. Tribal deer hunting season dates and bag limits for GLIFWC member tribes in Michigan.

Tribe	Season Dates	Antlerless Bag Limit	Season Bag Limit
BMIC	1 Aug - 1 Jan	none	none
KBIC	1 Sep - 1 Jan	none	4
LVD	8 Sep - 31 Dec	annual quota	none

_____ Bay Mills tribal members hunted under regulations outlined in the BMIC Conservation Code. All members hunting off-reservation were required to carry a valid hunting permit issued by the tribal conservation department good for either antlerless or antlered deer on public lands within the 1836 treaty boundaries. The deer hunting season opened on August 1st and closed on January 1st. Hunting hours were from ½ hour before sunrise to ½ hour after sunset. Tribal members were not required to register deer taken within the 1836 treaty area. There was no commercial harvest of deer but harvest for subsistence use was unlimited.

_____ Keweenaw Bay tribal members hunted under regulations outlined in the KBIC Tribal Code. The deer hunting season opened on September 1st and closed on January 1st. Tribal hunters were required to possess a valid tribal hunting and fishing card that allowed members to hunt on reservation lands and public lands off-reservation throughout the 1842 treaty area. Initially 2 deer tags good for either antlerless or antlered deer were issued. Two additional tags could be obtained after registering the first 2 deer for a maximum of 4 deer during the season. All deer were required to be registered with the KBIC Conservation/Law Enforcement Program within 7 days of harvest.

_____ Lac Vieux Desert tribal members hunted under regulations outlined in the LVD Off-Reservation Conservation Code. The deer hunting season opened on the day after Labor Day and closed on December 31st. Hunting hours were ½ hour before sunrise to ½ hour after sunset. Tribal hunters were required to possess a valid off-reservation natural resources harvesting permit and were issued 2 carcass tags at a time. The tribe's governing body establishes bag limits and antlerless quotas annually. Antlerless

permits were required to harvest antlerless deer. All deer harvested were required to be tagged and registered at a tribal registration station by 5 p.m. of the next working day.

Methods

1836 Ceded Territory. Because registration was not required, a telephone survey (Appendix A) was used to estimate the number of deer harvested in the 1836 treaty ceded territory. Permit holders were sorted by phone number and every third permittee with a phone number listed was selected from a random starting point. A total of 37 (24%) permittees were contacted during the survey. Total harvest was estimated by calculating the mean number of deer harvested per permit from the phone sample and multiplying it by the total number of permits issued. The antlerless ratio, and harvest by county and month were calculated similarly.

1842 Ceded Territory. Harvest data for the 1842 ceded territory in the UP were obtained from tribal registration stations where information was collected on each deer registered. Information included county and date of harvest, and whether or not the deer was antlered. Data from the KBIC registration station did not differentiate between on and off-reservation harvest, so both are reported.

Results

The total tribal deer harvest in Michigan was estimated at 227 deer (41% antlerless)(Table 2). A total of 143 deer (47% antlerless) were registered in the 1842 portion of the UP and total harvest for the 1836 portion of the UP was estimated to be 84 deer (30% antlerless). Harvest was greatest during October and November (Fig. 2). Figure 3 illustrates the distribution of harvest by county for the ceded territories of Michigan, although the ceded portion of the lower peninsula was treated as 1 unit.

Table 2. 1998 Michigan tribal deer harvest by tribe.

Tribe	Treaty Area	Antlered	Antlerless	Total
Bay Mills	1836 ^a	59	25	84
Keweenaw Bay	1842 ^b	53	33	86
Lac Vieux Desert	1842 ^b	16	27	43
Bad River	1842 ^b	5	3	8
Lac Courte Oreilles	1842 ^b	0	1	1
Lac du Flambeau	1842 ^b	1	0	1
Sokaogon Chippewa	1842 ^b	1	3	4
Total		135	92	227

a = data estimated from survey sample
b = data from registration stations

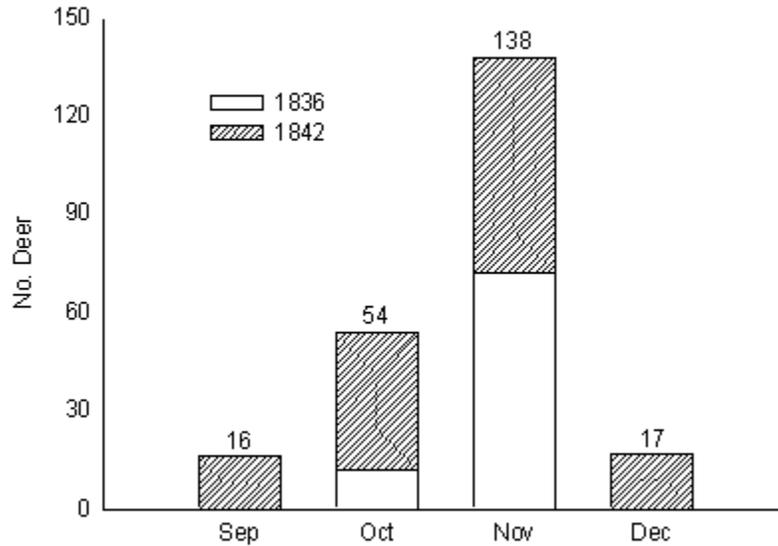


Figure 2. Tribal deer harvest by month in Upper Michigan, 1998.

Bear Hunting

Regulations

As with deer hunting, distinct tribal regulations governed tribal bear harvest in Michigan. Table 3 summarizes the major features of each tribe's bear hunting regulations.

Table 3. Tribal bear hunting season dates and bag limits for GLIFWC member tribes in Michigan.

Tribes	Season Dates	Bag Limit
BMIC	1 Apr - 30 Jun 1 Sep - 30 Nov	none
KBIC	1 Sep - 1 Jan	1
LVD	8 Sep - 31 Dec	none

_____ Bay Mills tribal members hunted under the regulations outlined in the BMIC Conservation Code. All members hunting off-reservation were required to carry a valid hunting permit issued by the tribal conservation department. The open season for bear ran from 1 April - 30 June and from 1 September - 30 November. Registration was not required for harvested bears and there was no bag limit. Unlawful hunting methods included harvesting or molesting a bear in its den as well as harvesting a cub or a sow with cubs. Bait was restricted to organic matter placed on the ground.

_____ Keweenaw Bay tribal members hunted under regulations outlined in the KBIC Tribal Code. As per KBIC deer hunting regulations, the possession of a valid tribal hunting and fishing card allowed tribal members to hunt on reservation lands and public lands off-reservation throughout the 1842 treaty area. The open season for bear ran from 1 September - 1 January. Registration was required for all harvested bear and the bag limit was 1 per season. Unlawful methods included the use of dogs, snares, or traps.

_____ Lac Vieux Desert tribal members hunted under regulations outlined in the LVD Off-Reservation Conservation Code. The open season ran from the day after Labor Day - 31 October. There was no bag limit and registration was required for all bear harvested.

Methods

1836 Ceded Territory. A telephone survey (Appendix A) was used (as described above) to estimate the number of bear harvested. A total of 37 (24%) permittees were contacted during the survey.

1842 Ceded Territory. Harvest data for the 1842 portion of the UP were obtained from tribal registration stations where information was collected on each bear registered. Information included sex, county, and date of harvest. Data from the KBIC registration station did not differentiate between on and off-reservation harvest.

Results

A total of 7 bear were harvested in the upper peninsula of Michigan in 1998 (Table 4). Only 1 boar was reported harvested in the phone survey of 1836 treaty area hunters. This suggests that as many as 4 bears may have been harvested when extrapolated to the total number of permits issued. However, the small sample size precludes a reliable estimate of sex-specific harvest totals.

Table 4. Number of bear harvested by Treaty Area during the 1997 tribal bear season in Michigan.

Treaty Area	Boar	Sow	No. Bear
1836 ^a	≥ 1 ^c	^c	4
1842 ^b	1	2	3
Total	≥ 2	≥ 2	7

a = data estimated from survey sample

b = data from registration stations

c = sample size too small to estimate reliably.

Acknowledgments

I would like to acknowledge the assistance of Jeanne Bouschor, Keweenaw Bay license clerk, and John Denomie, GLIFWC wildlife technician for compiling these results.

1998 Deer Harvest Survey - 1836 Ceded Territory

Tribal ID number : _____

Did you hunt DEER **OFF-RESERVATION** with a **tribal** permit during the 1997 **tribal** deer season?

Yes No

In which county or counties did you hunt? (check all that apply)

Chippewa Mackinac Luce Other : _____

How many deer did you harvest? _____ (fill in table)

Number of Deer			Date of Harvest	County of Harvest
Antlered	Antlerless	Unknown		

1998 Bear Harvest Survey - 1836 Ceded Territory

Did you hunt BEAR **OFF-RESERVATION** with a **tribal** permit during the 1997 **tribal** bear season?

Yes No

In which county or counties did you hunt? (check all that apply)

Chippewa Mackinac Luce Other : _____

How many bears did you harvest? _____ (fill in table)

Number of Bear			Date of Harvest	County of Harvest
Boar	Sow	Unknown		