1~

56-38

Flook, Donald R.

Elk and bighorn sheep, Waterton Lakes Park. Edmonton, Canadian Wildlife Service, 1956.

3 p.

1. Elk-Waterton Lakes National Park.

2. Bighorn sheep-Waterton Lake National

Park.

Flank

4) Tout O fice Blag., Edmonton, Alta., August 9, 1956.

MEMORANDUM FOR: CHIEF, CANADIAM WILDLIFE SERVICE, OFTAVA.

Elk and Bighorn Sheep, Materton Lakes Park

This memorandum concerns range monagement and wildlife investigations carried out in Waterton Lakes Park this summer, and suggested management and research projects for this park.

Itincrary:

I arrived in Waterton on the afternoon of July 17, and remained in the park until July 25 when I drove to Field, B. C.

July 18, 20, 21, and 22, sites were selected and pegged out, for three game range exclosures, on Lookout Butte, Stony Flats, and the foot slope of the mountain south of the Horseshoe Basin. These sites were selected as being typical winter elk range and represent neither the most favorable, nor the least favorable range condition. The dimensions of the exclosures will be 30' x 35'. Adjacent to each exclosure site, a plot of the seme size and as nearly as possible, the same plant composition and density was selected. These will be exposed to grazing, two provide a comparison. In each exclosure plot, and in each grazed plot, four 25' transects were set out, marked with angle iron stakes, and data in plant composition and density were collected by the Farker-3-step technique. Photographs were also taken at permanent points. These data and photos will be kept on file for comparison to future measurements and photos taken at three to five year intervals to study range trends.

The condition of the elk winter range did not appear to have changed appreciably since last autumn, being generally good, with indications of over use locally in areas of elk concentration and on travel routes.

Elk Management:

Chief Warden R. Hand provided the following counts of the park elk made lest winter by the Warden Service.

Belly River - 247
Stony - 386
Pass Creek - 126
Horseshoe - 379
Miscellaneous - 67

This is the highest elk count obtained in the past three years, the 1954 count being 830 and the 1955 count 1032. It was not until this year that the Pass Creek herd was recognized as being separate from the Stony Herd. It is apparent that there has been a substantial increase in elk in the park during the past two years.

Through enquiry among sportsmen along the park boundary, the Warden Service obtained an estimate of 60 park elk harvested by Alberta sportsmen, about 40 from the Horshoe Herd and 20 from the other herds. The open season lasted until December 31 giving sportsmen an opportunity to hunt after the elk had reached the low elevations.

......2

LIBRARY
CANADIAN WIDLIFE SERVICE
EDMONTON, ALBERTA

Mr. G. Mitchell, Game biologist with the Province of Alberta advised me in conversation that it is planned to hold only a short early season for elk this year in the part of Alberta bordering Waterton Lekes Park. The reason for this is that the elk in the forest reserve north of the park have been reduced an estimated 70% by hunting in the last two seasons. Due to the shortening of the season, and holding it earlier, the effect of hunting by Alberta sportsmen in the Waterton elk can be expected to be negligible this fall.

Chief Warden Hand advises that the Blood Indians harvested a fair number of elk from the Be ly River herd in their fall and spring hunting activities in the timber reserve. He believed their winter hunting was negligible however, due to deep snow conditions in the field, even though they had access to the timber reserve by road all winter.

Chief Warden Hand received reports of an increase in resident elk in the Belly River valuey north of the park as for as the Blood Indian Reservation. Mr. M. Bradshaw, owner of the Birdseye ranch reported elk summering on his land. He reported seeing 20 cow elk with calves on the ranch in the spring. These reports would indicate that the increment of the Belly River herd is being absorbed in part by hunting and permanent dispersal out of the park.

The Stony Hera shows the greatest increase of all heras, the count having jumped from 227 in 1955 to 380 in 1956. Observations by Warden Gladstone and I, showed a high calf crop in the hera last autumn. However, the apparent increase is so great as to suggest a disgrepancy in the 1955 count or else a movement of elk into the Stony Range. Chief Warden Hand suggests a movement of some elk from the Pass Creek Hera to the Stony Range.

I would recommend a reduction sloughter this winter, directed mainly at the Stony Herd. It would be desirable to remove as many elk as can be handled up to a maximum of 100 head. I would suggest that a corral be erect d in the winter range of the Stony herd, and the elk baited into it with salt or hay. I would also recommend that efforts be made to ear tag as many elk as can be trapped in excess to the number which can be handled by the butchering facilities. Colves and yearlings would be most easily tagged and the information obtained from recoveries would be most valuable since their ages would be known. The most important type of information which we might gain from tagging elk would be the degree of dispersal of park elk into ranges outside the park, and the proposition of park elk harvested outside the park. If this recommendation meets with approval please advise me and I shall forward ear tags and pliers to superintendent Atkinson. I shall not probably be available myself this winter as I hope to attend university.

Bighorn Sheep:

July 20, a trip was made on foot from Cameron Lake to Waterton Lake via Carthetel Lakes and Alderson Lake. A total of 32 sheep were observed on this trip. Mineteen were in Carthetel Mountain, including: 13 ewes and yearlings, 1 two-year-old ram, and 5 lambs. Thirteen were on the south end of Cameronion Mountain including 9 ewes and yearlings, and 4 lambs.

Recent estimates by the Warden Service of the band of sheep which winters in Pass Creek place it at about 100 animals. This is believed to be the largest band of sheep in the park. Its seasonal ranges and movements are not fully known. It is the opinion of some of the members of the Warden Service that some of these sheep move outside the park into British Columbia and Alberta territory and are subject to hunting by sportsmen. It would be desirable to have accurate information in this regard, and the only way that it can be obtained is through a marking project. Last May a small trap was built in Pass Creek and two rams were

056590

baited into it with salt. This was done to obtain blood samples. The success of this operation would indicate that trapping could be done in a larger scale in Pass Greek. If a second, larger trap were built farther up Pass Greek from the present trap, a large sample of sheep from the land could be trapped, ear tagged, and released, using both traps. I would suggest that this be undertaken.

I could visit Waterton next May to participate in the trapping and tagging. A visible colored disk type car tag could be used which could be seen and identified by means of binoculars.

With Worden F. Berstrom I recently examined a sheep trap made of logs, located at Windy Point in Jusper Park. This trap is 18 x 24 feet, and 8 feet high. Warden Berstrom has found that occassionally a trapped sheep will make a run the length of the trap and half jump and half climb over the fence to escape. He suggests that if the walls were sloped inward this could be eliminated. Would you please advise me whether this suggestion of marking sheep is approved.

Donald R. Flook, Manualogist.

CWS 56-38	Flook, Donald R. Elk and bighorn sheep, Waterton Lakes Park.
DATE	ISSUED TO
-	