

U. S. DEPARTMENT OF AGRICULTURE  
BUREAU OF BIOLOGICAL SURVEY

Form Bi-689

FIELD DIARY

Mr. E. A. Goldman

(Official title.)

Period, Oct. 19 to Nov. 15, 1924

Montana (Gallatin) (Bison Range).  
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Oct. 19, 1924,  
Left Washington, D.C. 3.30  
P.M. for Missoula, Mont.

Oct. 20-21 - en  
route to Missoula.

Oct. 22, Missoula  
Mont. arrived Missoula  
11.10 A.M. train late. Spent  
afternoon at Forest Office  
conferring with District  
Forester and Glen A. Smith  
and arranging to leave  
tomorrow for Gallatin  
country.

Oct. 23,  
Left Missoula with Glen A.  
Smith and J.M. Carpenter  
for Bozeman where we

Oct. 23, con  
arrived 1.20 P.M. <sup>3 1/2</sup> and went  
to bed at hotel Bozeman.

Oct. 24, Leiman R.S.  
Met Supervisor Clark and  
Deputy Game Warden Marshall  
and were taken by auto  
to Leiman R.S. on the  
Gallatin River, and con-  
tinued up the valley past  
Gallatin R.S. in the Park  
to what is known as  
Dry Lakes on the road  
to West Yellowstone  
returning from there by  
the road to Gallatin  
R.S.

Weather, clear and warm  
for the season, but hard  
frost at night. Snow

Oct. 24 con  
milled off back to  
highest peaks.

Elk. Considerable  
numbers said to have  
come down Gallatin  
Valley about Oct. 13.  
Many passed out over  
the well beaten route  
into the Game Preserve,  
east of Gallatin R.S.  
But Park rangers and  
Forest ranger says they  
are drifting back. Many  
tracks were seen by us  
along Gallatin Valley  
above the Gallatin R.S.  
but have now disappeared.  
Forage. Excellent everywhere.

Oct. 25, Leiman  
R.S. to Gallatin R.S. - Dist  
tra. about 20 or 25 miles.

Rode from Leiman  
up Buffaloham and  
across the head of Trefe  
Lk to Daly R.S. on Daly  
Lk. where we stopped  
for lunch and then  
continued across over  
main elk migrating  
route to Spiceman Lk. and  
down to Gallatin R.S.

Elk. Saw perhaps 50  
mainly in Game Preserve.  
Many signs were seen  
of elk, especially in the  
timber on the slope leading  
up to the divide between  
Daly and Spiceman Lk. Many  
tracks indicated there.

Oct. 25 con.  
is a general movement  
of elk back toward the  
Park. We were again  
impressed with the  
narrowness of this  
migration route. Two  
main trails close  
together lead directly  
across Spiceman Lk.  
Near Gallatin R.S. we  
found scattered fresh  
tracks opposite and  
below the station on  
the east side to points  
outside the Park showing  
that a few elk at  
least passed down over  
the route the new  
road is to take. Many  
droppings of last winter

Oct. 25 con.  
show that the elk  
used extensively as  
winter range the hillside  
and route of the new  
road in the gap at  
this point as winter  
range.

Forage. Excellent all  
along the route today.  
Areas that in spring  
were hard hit and looked  
to have been practically  
denuded bore a good  
growth of herbaceous  
vegetation which is  
favored by elk even  
at this season.

Sept. 24, 24

Oct. 26, 1924,  
Gallegos R. S. to Faun Pass  
and return - 35 miles.

Left station about 8 A.M.  
and reached top of Pass  
about noon, returning  
via Seclaria and Faun  
Creek.

Weather nearly clear and  
warm after a cold night.  
Snow melted off except  
parts of area in Pass and  
over high summit where  
in places it is about  
2 ft deep.

Elk, About 60 were  
seen in different places,  
all along Faun Creek.

In one place a group of  
7 were seen to run across

Oct. 26 con.

the bottom of timber on  
opposite side. 3 large  
bills were seen feeding  
among willows on creek  
bottom, all had quite  
whitish sides and the  
largest very white. In  
another place about 20  
cows, young animals  
including small bulls  
were seen feeding along  
the slope just above  
the willow-covered  
bottom. Tracks and con-  
dition of forage indicated  
that elk had been ranging  
well up before the snow  
came, toward the tops of  
the gorges and also

Oct. 26 con.

the bottom to timber on  
opposite side. 3 large  
bills were seen feeding  
among willows on creek  
bottom, all had quite  
whitish sides and the  
largest very white. In  
another place about 20  
cows, young animals and  
including small bulls  
were seen feeding along  
the slope just above  
the willow-covered  
bottom. Tracks and con-  
dition of forage indicated  
that elk had been ranging  
well up before the snow  
came, toward the tops of  
the gorges and also

Oct. 26 em,  
evidence of their grazing  
was seen along Fawn  
Creek. Tracks also showed  
that elk had gone both  
ways through Fawn Pass  
after the snow came, but  
not in large numbers. A  
few fresh tracks were  
seen not far below the  
Pass, but most of elk are  
ranging at much lower  
elevations probably mainly  
between Fawn Creek and  
the Game Preserve.

Forage. While forage  
conditions were everywhere  
good there was evidence  
of rather full use of  
forage on the summer

Oct. 26 con.

range, in general, which especially had largely been cut down on the more favored areas, and when not more closely browsed many of the tops had been eaten off after the plants became dry.

beams, One coyote seen on Fawn Creek and tracks of another noted near head of Stellaria Creek.

Wrens, Track seen near Fawn Pass.

Moose, Cow and yearling ran out of timber near us and trotted across Stellaria Creek bottom.

Oct. 27, (Sun.)  
Gallatin R.S. to Cinnamon  
R.S. via Bacon River and  
Sage Creeks. - about 30 miles  
Left Gallatin R.S. at 8:45  
a.m. Nelson Story, Jr. overlook  
us and made the trip with  
us. We ascended a ridge  
between Snowslide and Bacon  
River Creeks crossing the  
head of Bunt Fork and  
ascended to its narrow  
ridge separating Bunt  
Fork from a branch of  
Sage Creek. Turning south  
we followed this ridge  
to a point where we  
were able to turn down  
a ridge leading into south  
fork of Sage Creek which  
was followed down to



Oct. 27 con.

the Gallatin and on down  
to the station, from the  
top we had a fine view  
over the Sage Creek and  
Taylor Fork country and  
the outlet of the Gallatin  
drainage back to the  
Taylor Peaks, the Sphyns  
and Lone Mountain along  
the divide forming the  
Madison drainage.

Elk, none seen today  
but tracks were seen of  
some that had descended  
to the Gallatin Valley. A  
few <sup>tracks</sup> were seen in the  
little valley forming a  
branch of Bacon Ring where  
elk were met with in  
the summer. Tracks were

Oct. 27 con.  
view of a lone elk on  
the extreme crest - an  
animal that had crossed  
from ~~the Gallatin side~~  
Bacon River side from  
the Sage Creek side. Tracks  
of a few elk were seen  
mainly ascending from  
Sage Creek toward the  
crest. A few hunters were  
out and it seems probable  
that these are animals  
driven back to Bacon  
River side.

Garage. In little basin  
crossed leading down  
into Bacon River some  
elk had apparently  
spent the summer. Tracks  
of an Sage Creek side

Oct. 27 am  
Garage had been much  
less utilized - in fact  
in many places there  
was no signs of any  
elk having grazed.

Wrens. Bear tracks seen  
in snow near top of  
Bacon River Pass.

Leunis. Tracks seen on  
ridge leading down to  
Sage Creek.

Lynx. Tracks seen  
on ridge leading out  
of Gallatin Valley, south  
of Snowbird Creek.

Oct. 28 (Tue)

Benjamin R.S. to head of  
Cinnamon Creek and over  
parts of Meadow Creek  
watershed and return - about  
14 miles.

Route was up Benjamin  
Ck. to summit overlooking  
Buck Creek drainage thence  
along divide to head of  
Meadow Creek thence down  
through Meadow Creek and  
Taylor Creek drainage to  
Gallatin Valley, about a  
mile above the station.

Weather, cloudy and light  
snow falling nearly all  
day. Clouds heavy at  
higher elevations.

Elk, none seen but

Oct. 28 con.  
Tracks were noted in  
various places, wode after  
the recent snow had melted  
a few of these fairly  
fresh. Tracks of horses  
indicated that hunters had  
also been out in a number  
of places.

Parage, a good growth  
was made since I saw  
parts of the same area  
in the latter part of May.  
Even on areas heavily  
utilized by elk a good  
growth had been made  
and I was again  
impressed with the  
large extent of suitable  
winter areas - slopes

Oct. 28 con.  
Facing in many directions  
affording easy access  
from one to another.

Oct. 29 (Wed).

Snowed and stormed all day and we remained at Jackson.

Nov. 30 (Thurs)

Had Hermann R.S. to Storer's place and return by auto.

Stormy day but we were able to visit Nelson Storer Jr. whose place is 9 miles above R.S. and just outside Yellowstone Park and got him to agree to the establishment of a Game Preserve covering county below the Park and Sage Lake

Oct. 31 (Fri)  
Linnaiton R.S. to Taylor  
Forks cabins.

ascended the trail from  
Sta. up Linnaiton Lk to  
divide overlooking  
Buck Lk, and crossed  
high up across  
watershed of Meadow  
Lk, descending thence  
to cabins.

Weather, Partly cloudy  
and windy, but not  
very cold!

Elk, no signs seen.



No. 1. Taylor  
Forks cabin to West  
Fork of S. Fork of Taylor  
and return

Weather, Partly clear  
and pleasantly warm.  
Snow melting fast at  
lower elevations.

Elk, a few ranging in  
lower edge of snow mainly  
about 1000 ft. above the  
level of the Taylor Forks  
cabins. We struck the fresh  
tracks of about 5 <sup>young</sup> cows  
and young animals and  
followed them on horseback.  
They were moving leisurely,  
browsing some time and  
others, toward the hills  
were seen those were

Nov. 1 con.

frequently pulled up and  
after breaking off most of  
the leaves they were  
allowed to drop on the  
ground, the nearly bare  
stem and probably the  
bark left. We finally  
jumped them although  
we did not see them  
at the time. From that  
point they ran mainly  
in single file. We continued  
to follow them for awhile  
and finally saw two  
as they scattered in  
various directions in the  
timber.

Moose. Tracks of several  
were seen along West  
Fork of S. Fork of Taylor

Nov. 1, con.

Cruck,

Garage "usually good"  
everywhere.

Nov. 2

Taylor Fork's Cabin to  
South Fork of Taylor Crk.

Ascended today along the  
creek intending to go to the  
top of the divide overlooking  
Brauer Creek, but met  
with game that occupied  
us the remainder of the  
day.

Weather, Nearly clear  
and warm, snow melting  
fast and gone from  
most of valley near  
Taylor Fork's Cabin. It  
remained 1 to 2 ft. on northern  
slopes well up toward top  
of divide.

Kill. Well up toward  
divide a lone bull of fair  
size was seen feeding.

Nov. 2, con.

in a small opening in  
the timber on a southerly  
slope where there was  
little snow. We fired  
a number of shots at him at  
about 400 yds. He showed  
little alarm but walked  
into the forest and disappeared.  
Ranger Eric P. White and  
I followed and found by  
blood spots that he was  
wounded. He walked for  
perhaps half a mile and  
finally broke into a run  
leaping 15 ft. or more at  
a bound in places. Then  
in places he fell into  
a trot or walk and  
stopped to stand a few

Nov, 2 am.  
minutes as shown by blood  
spots. We followed him for  
about 2 hours his trail  
leading up toward the  
top of the mountain  
then down and back  
and forth over a  
circuitous route through  
the lodge pole pine  
timber, and across S. Fork.  
Finally we gave up the  
trail and walked back  
to camp a distance of  
perhaps  $4\frac{1}{2}$  miles.

Nov. By a strange  
coincidence a black bear  
appeared and passed  
within a rod or two of  
where we had just  
shot at a buck elk, on

Nov. 2 con.  
a southerly hill side  
covered with lodge pole  
pine. The snow here was  
only a few inches deep.  
Glen A. Smith and Mr.  
Carpenter fired at the  
bear but it soon  
disappeared.

Moose. Glen A. Smith  
and Mr. Carpenter reported  
having seen a very large  
bull on the upper part  
of South Fork of Taylor  
Creek. It disappeared at  
long trot through the  
lodge pole pine forest.

Nov. 3

Taylor Fork Cabins to  
East Fork of S, Fork of  
Taylor Creek and return.

Ranger Eric P. White  
and I followed the  
wounded elk while Glenn  
A. Smith and Mr. Carpenter  
hunted along East Fork  
and neighboring streams.

Elk, Eric P. White and  
I took up again the  
trail of the wounded  
bull elk we were  
following yesterday.  
We followed it for  
nearly two hours and  
finally lost it while  
having practically stopped



Nov. 3 con.  
Following it apparently  
joined a group of  
several elk that had  
tramped about in all  
directions and finally  
led out onto an area  
where there was  
practically no snow and  
we were obliged to  
abandon it.

Moose, a number of  
tracks were seen today  
in the timber along  
South Fork and West Fork  
of Taylor Creek. There  
are many small  
swamps and areas of  
down timber through  
which they wander. In

places, however; they  
come out into the open  
parts

Weather, slightly cloudy  
but still warm.

Geese, Saw a flock  
of 10 geese flying high  
over the forest along  
South Fork of Taylor Cr.

Snowflake? Saw a  
flock of about a dozen  
nearly white sparrows  
in a small grassy  
park on S. Fork of  
Taylor Cr.

Cyanocitta, One seen  
in lodge-pole pine  
timber on S. Fork of  
Taylor Cr.

Cervina Jay, common on  
Taylor Cr.

Nov. 4

Taylor Forks cabins to  
Cinnamon R.S.

Smith, Carpenter and  
I started this morning  
for the top of the divide  
at the head of South  
Fork of Taylor Cr., but  
it began to snow the  
mountain top were shut  
in and we decided to  
return to Cinnamon R.S.

Nov. 5 (Wed).

Left ... ..  
... ..

Took boat from Lemman  
R.S. to Buffalo ... ..  
we left our boats and  
climbed on foot through  
upper part of this watershed  
lying west of the ... ..  
place.

Weather, several inches  
of snow fell last night  
and this morning was  
partly clear and quite cold  
but it warmed up so that  
there was some melting  
of snow especially at  
lower elevations.

Elk, a few had come  
out of the ... ..  
and a number of ... ..  
were trailing them about.

Nov. 5 con.

It is evident that hunting trails  
to game stream back into the  
Game Refuge. Today I  
followed the trail of one  
that wound about 4 or 5  
miles and finally turned  
up on the divide into  
the Game Refuge.

Nov. 6

Left Benning R.S. by auto  
with Glen A. Smith and  
B.W. Clark and returned  
to Bogwone.

Nov. 7

Left Buzawa 10.50  
A.M. and arrived Livingston  
11.55 A.M.

Nov. 8

Left Livingston 8 A.M.  
Arrived Gardiner 10:30

A.M.

Continued by auto with  
Sgt. T. Woodring to  
Yellowstone Park.



Nov 9  
Remained at Yellowstone  
Park. Snow all day.

Nov. 10

Left Yellowstone Park  
9 AM with Mr. H. M. Albright  
by auto and arrived  
Livingston 1 PM  
Left Livingston 2.50 PM  
arrived Moscow 11.30 PM

Nov. 11,  
at Missoula Mont.  
conferring with officials  
in U.S. District office

Nov. 12

Remained at Missoula,  
conferred with Thomas  
Marlowe and Forest Service  
officials. Arranged to go  
tomorrow to Bison Range  
with Mr. Carpenter.

Nov. 13. Missoula  
to National Bison Range  
After some delay in getting  
car started Mr. Carpenter  
and I left Missoula from  
the Bison Range at 10:30  
A.M. arriving at Bison  
Range at 1:30 P.M. In  
afternoon a trip was made  
to ~~Fulcher's~~ Carrals where  
skinning of a buffalo was  
in progress.

Nov. 14, Bison Range.  
Mont.

Weather stormy and we  
remained in doors practically  
~~all day~~ until about 2 P.M.  
when with Frank D. Rose  
we again visited butchering  
operations. Went over general  
conditions with Mr. Rose.

Number of animals now on  
Bison app. approximately as follows:

Buffaloes	700
Elk	500
Mule Deer	50
mountain Sheep	28
Mt. Sheep	28
Antelope	8
Chinese Pheasants	-
Hungarian "	"
Prairie chickens	"
Ruffed Grouse	"
<del>Red</del> Mallard Ducks	"

- Nov. 15 (Sat) Dixon  
Range to Missoula.

Spent day in saddle over  
Bison Range on horseback.  
Returning by auto with Mr.  
Langston to Missoula in  
evening.

We found snow about 6 to  
8 in. deep or level on upper  
slopes, but were able to get  
some idea of gorge, although  
of course most of it was  
covered. <sup>Stems</sup> Stems of grasses  
protruded over area giving  
a clue to remaining gorge.

Most of the buffaloes and  
elk are coming down on  
the slopes of the hills, the  
elk remaining higher, as a  
rule than the buffaloes, but

Nov. 15 con.

a few ruffaloes and elk  
had been over the top,  
and several ruffaloes  
or in small groups were  
detached from the main  
herds on the upper  
middle slopes of the hills.



PENALTY FOR PRIVATE USE  
TO AVOID PAYMENT OF  
POSTAGE, \$300.

UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF BIOLOGICAL SURVEY.  
WASHINGTON.  
OFFICIAL BUSINESS.

U. S. Department of Agriculture,

Washington, D. C.

16-4045

Bureau of Biological Survey.

Outline for report on  
Proposed Game (or Bird) Refuge  
(From U.S. Circular)

1. Name
2. Location, a suit map  
showing drainage, boundaries  
etc.
3. Area and status of land  
within boundaries
4. Species to be protected  
and number of each at  
present on proposed refuge.
5. Give in full reasons  
why refuge is necessary
6. Discuss the adaptability  
of the area for a refuge  
for the animal if it  
desired to protect, with  
reference to cover, winter  
& summer range and  
number of animals it will

2)

Support.

7. If both summer and winter range is not included in this area show where it is to be obtained.

8. Discuss in full the effect the establishment of the refuge will have on the grazing of domestic stock and if a reduction in stock is necessary show how it is proposed to be carried out.

9. Are the local people interested in this refuge, and is the public sentiment favorable enough to make law enforcement possible

3)

10. Any other matters  
pertinent to this proposal  
refuge

11. Reactions and special  
use of matters on area

Back - Fronting on the  
Old Frontiers

Illus. by Charles M.  
Russell

Cheely - Roban Syndicate  
Great Falls, Mont, 1922