

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 R. Smith
and arranging to leave
tomorrow for Gallatin
country.

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

Oct. 23, con
arrived 1.20 P.M. ^{3 1/2} and went
to bed at hotel Bozeman.

Oct. 24, Lemman R.S.
Mt. Supervisor Lewis and
Deputy Game Warden Marshall
and were taken by auto
to Lemman 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 ^{Lemman} there by
the road to Gallatin
R.S.

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

Oct. 24 con
melted off back to
highest peaks.

Elk. Considerable
numbers said to have
come down Gallatin
Valley about Oct. 13th.
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, Lemman
R.S. to Gallatin R.S. - Dist
tra. about 20 or 25 miles.

Rode from Lemman
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 migration
route to Spicewood 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 Spicewood 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 and directly
across Spicewood 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.

Supper Oct. 24 to dawn

Oct. 26, 1924
To enter pass to Fawn Pass
entirely - 35 miles.
Departed about 8 A.M.
and reached top of Pass
about noon, remaining
near base and Fawn
Pass.

Silence now by snow and
ice a hard night.
Snow in trail up except
at base, snow in Pass and
at top of mountain
about 10 miles to

9. M. about 30 miles
seen in different places,
all along Fawn Creek.
In one place a group of
7 miles to run across

Oct. 26 con.

the bottom of timber on
opposite side. 3 large
bulls were seen feeding
among willows on creek
bottom, all had quite
whitish sides - one 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 willows - 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.

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opposite side. 3 large
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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 am,
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 where 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. overtook
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 the 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 bulk of the Gallatin
drainage back to the
Taylor Peaks, the Sphyns
and Lone Mountain along
the divide bounding the
Madison drainage.

Elk. None seen today
but tracks were seen of
some that had descended
to the Gallatin Valley. A
few ^{tracks} 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 con.
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.

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

Lynx. Tracks seen
on ridge leading out
of Gallatin Valley, south
of Snow-bird Creek.

Oct. 28 (Tue)

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

Went 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
Galatin Valley, about a
mile above the station.

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

Alk, none seen but

Oct. 28 con.

Tracks were noted in various places, made 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 Station.

Nov. 30 (Thurs)

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

Stormy day but we were able to visit Nelson Stora 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 Cr. to
divide overlooking
Buck Cr. and crossed
high up across
watershed of Meadow
Cr., descending thence
to cabins.

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

Eds, no signs seen.

Nov. 1. Taylor
Forbes 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
cabines. We struck the fresh
tracks of about 5 ^{young} cows
and young animals and
followed them on horseback,
they were moving leisurely,
browsing some time and
then, toward twilight
were seen there were

Nov. 1 con.

Frequently pulled up and
left branches of logs by
the beams they were
allowed to drop on the
ground the middle of the
stem and broke off
going 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 in the
Park of S. Fork of Taylor

Nov. 1, con.

Crink.

Garage " Generally 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
B. river 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 northerly
slopes well up toward top
of divide.

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

Nov. 2, con.

in a small opening in
the timber on a steeply
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
he came to fall 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 bull elk, on

Nov. 2 con.
a sandy 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 ten hours and
finally lost it where
having practically stopped

Nov. 3 con.
Following it apparently
found a group of
beaver ~~all~~ 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. Some
there are many small
swamps and areas of
down timber through
which they wander. In

peas, 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.

Canada 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).

Leaving camp to Buffalo Horn
back and forth.

Left today from Linnaman
R.S. to Buffalo Horn R.S. where
we left our horses and
climbed on foot through
upland of ~~the~~ ~~is~~ ~~used~~
upland of ~~the~~ ~~is~~ ~~used~~
P.

Weather, several inches
of snow fell last night
and this morning was
partly clear and quite cold
but it was not so hot
it was more matter
of snow especially 10
down elevation.

Elk, it has had come
out of the house of ~~the~~
and a number of ~~the~~
were tracking them about.

Nov. 5 con.

It is evident that hunting tends to force them back into the Game Refuge. Today I followed the trail of one that wound about 4 or 5 miles and finally turned up over 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 Boggs.

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
Sr. 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. *Merigula*
to National Bison Range
After some delay in getting
car started Mr. Carpenter
and I left Missoula for
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~~ Carral where
skulchering of a buffalo was
in progress.

Nov. 14, Bison Range.

Work.

Weather stormy and we remained indoors 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 approximately as follows:

Buffaloes 700

Elk 500

Mule Deer 50

Wash. Badger 28

Mt. Sheep 8

Antelope -

Chinese Pheasant -

Hungarian "

Prairie chickens "

Ruffed Grouse

~~Wash.~~ Mallard Ducks

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

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

We found snow about 6 to
8 in. deep on level on upper
slopes, but were able to get
some idea of gorge although
of course most of it was
covered. ^{Stems} 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 mainly higher, as a
rule than the buffaloes, but

Nov. 15 con.

a few ruffalbes and old
had been over the top,
and several of them above
as 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.

B-4045

Bureau of Biological Survey.

Outline for report on
Proposed Game (or Bird) Refuge
(Under F.S. Circular)

1. Name
2. Location, a sketch 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 this area for a refuge
for the animal if it
desired to protect, with
reference to cover, winter
& summer range and
number of animals if well

2)

Support.

7. If both summer and winter range is not included in the award 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 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 proposed
refuge

11. Existing and proposed
use of permits on area

Back - Fracturing on the
Old Frontiers

Illus. by Charles M.
Russell

Cheely - Robaw Syndicate
Great Falls, Mont, 1922