

U. S. DEPARTMENT OF AGRICULTURE  
BUREAU OF BIOLOGICAL SURVEY

Form Bi-689

FIELD DIARY

Mr. EA Goldman

(Official title.)

Period, May 27 to June 22

Arizona 1929  
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May 27, 1929

Wash. Sta. No. 10,10

W.M. for [unclear]

May 28

Left [unclear] 7:25 AM; left  
[unclear]

May 29 - En route -

Left [unclear] 10 AM.  
Low - low in [unclear] and  
[unclear] crops [unclear]  
[unclear] [unclear]

May 30 - En route -

Left [unclear] [unclear]  
with R.H. [unclear] and in  
[unclear] [unclear] [unclear]  
[unclear] [unclear] with [unclear]  
[unclear] - Mr. R. [unclear]  
[unclear] [unclear]

May 30  
I stopped in Ogden. Weather  
quite warm.

May 31. Ogden, Utah.  
Conferred with Rutledge and  
Parks and made plans  
for leaving for Kaibab tomorrow.

June 1. Ogden to  
Richfield by auto.

Left Ogden 2:00 PM, stopped  
at Garrison for dinner and  
then drove on to Richfield  
where we arrived about  
10 PM. Trip made with Mr.  
Parks and Carl wife and Mr.  
Winkler, in charge of grazing  
in this district. 42. I  
Mr. Gary in charge of  
lands for this district at  
Richfield. (2)

Met R.G. Boyles & B.B.

Met and Mr. Mages at  
Ryan on June 3.

June 2. Richfield to  
Kanab, Utah.

Left ~~Kanab~~ Richfield about  
8:30 AM and arrived Kanab  
about 3:30 PM. Frost at Richfield  
last night and morning quite  
chilly, but afternoon bright  
and warm.

June 3. Kanab to  
Ryan, Utah. Out over  
Jump-up point country and  
back to Ryan, covering 45  
miles from Ryan and back.

Trapped a goshawk and  
idea of conditions - deer widely  
scattered at this season.

Deer, tracks in a  
number of places, especially  
about places where salt  
has been placed, just as we

sun today June 3, am

Forage. Saw one or two of the  
species. Identity continues to be  
problematic. Many heavily browsed  
leaves, *aphida* and *gynipis* size back  
noted. Deer also <sup>in</sup> ~~at~~ <sup>the</sup> ~~the~~  
to ~~the~~ that upon  
Edmonton, and ~~the~~ ~~the~~ ~~the~~  
~~the~~ ~~the~~ ~~the~~ but  
that is ~~the~~ of the latter.

Salt, About 11 tons placed  
on ~~the~~ ~~the~~ ~~the~~  
year.

June 4, Ryan to  
Sowats and Little Sand Lake  
and return by various routes.  
Left Ryan about 8 AM and  
covered about 85 miles  
making ~~the~~ ~~the~~ ~~the~~  
~~on~~ ~~the~~ ~~the~~ ~~the~~  
(14)

June 4, con.  
part of summer range.

June 5 Ryan to  
V.T. via the Canyon  
and a cross section of north end  
of Fish Lake, <sup>with</sup> Jacobs Lake, and out  
to east rim at 2 points.

Forecast. Generally good on north  
end and hard hit over area further south.  
Rain - Both the strong  
squalls of rain brought a  
little rain at 10:30 and 7:30 P.M.  
but not very much, about 1/2".

San Diego, - Reported as  
with 10:30 rain some north  
rain at 10:30, but no rain at 7:30  
part of rain a burst at 10:30.

June 5 am.  
Wild horses, 50 at one -  
saw about 5 others.

G.B. Hark, Game Com  
Pulver Aug.

(current)

P. B., P. other family  
found on Game Ridge  
west of

W. B., H. family  
on Game Ridge.

Supine (leaf) Hairy growth  
later in season. Biting.  
There is a form of oak leaf  
out of the seriously  
damaged as the other oak  
leaf is hairy.

Gamble oak - Much low growing  
oak killed. Long oak run  
on point of Game Ridge.  
1/6

June 5 con.  
Pine; the view of the road  
at the foot of Pine Ridge,  
was excellent.

Joined by Mr. Tillman and drove  
back in evening.

June 6, N. P. Park to  
Leanne, via the Hancock valley  
via Trail Canyon Road - a road  
by Hancock and Leanne to  
South Canyon Rd and returned  
to Leanne.

Found the South Canyon  
a very fine, juniper  
lunge appears to be nearly gone  
there are no juniper trees  
left.

Sheep, 2 bands - 2400  
on N. end of ...



June 6 con.

Check part, No. 14. acc  
with ... on ...  
2. ... ... ...  
recovery of bluff rock and  
fairly good of ...

... ... ... ...  
has been very dry and ...  
in ... ... ...  
creaked and ...  
Mr. Lewis's representative, ...  
Lenny ... ... it is  
in the worst condition he has  
ever seen it in his 25 years  
experience.

Cattle. About 1500 on

Ranch

Sheep, about 2400 (2 bands)  
on Ranch

June 7, leave the  
V.P. returned to via Grants Gate  
and made trip again to Cane Ridge.

and the morning  
Mr. Rogers and Mr. Kent left us  
on their drive today.

Pine. Good yellow pine  
up to 100 ft in diameter  
and close to water at  
grants gate in state of water  
of young cattle which bit  
about 2 ft up the trunk  
to break it down.

My, two which  
came out of house at  
were seen flying at dusk.

June 8. V.P. to  
Forest area, and Forest saddle  
and return.

Trip was accompanied by King  
and Pella. who left for  
night at Hazel Point in the morning.

Oxyechinus, Patella <sup>moderate</sup>  
~~low~~. ~~Some~~ ~~very~~ ~~high~~ ~~at~~  
comparatively high, killed  
outright. Several were  
seen in the morning.

Quercus, Salix juncea glabra  
in leaf in the morning.  
Foliage Salix juncea glabra in  
out patches which occur on  
winter. Large in summer and  
cliff, rose belts and as observed  
on other trips not a thing only  
frowned Salix juncea glabra

June 8 con.  
evident reason that it  
is bare of leaves at that  
season.

At Lawrence, first heavily  
flooded on parts of coast  
more owing, like the rock,  
to the high water at the  
time.

June 9, V. P. Point  
Sublime and return,

Left V. P. about 8 AM and came  
out on Pt. Sublime and  
about noon. In afternoon  
covered numerous points along  
east side of mouth of  
Houmaux Bay.

Forage in Pt. Sublime  
conditions not greatly changed  
since former trip, but more

June 9 con.

cliff note is now dead, and  
also more sage brush toward  
end of point which rises with  
slope of down into mixed

of bottom and upper outlet  
zone. Deer at present down  
the main point, but no  
evidence of great numbers.

Deer, etc., have been  
noticeably more ragged in  
appearance, as many still  
carry winter winter pelage,  
than on lower ranges.

Forage, along east run,  
hard hit, probably largely  
in the last part of last  
summer. Much of oak and  
honest now dead, ~~and~~  
~~forage is much~~

June 9 con.

*S. purpurea* ~~capas~~, heavily browned  
everywhere, along east run  
noted especially. Trying  
to recover and  
most of it sprouting from  
roots or still retaining  
a little life in basal stems.  
Most of ~~the~~ ~~run~~ not yet  
completely killed in  
effort.

June 10 (Mon.), V.T. to  
Powell Plateau and return.

Mr. Rutledge took a party  
consisting of Cook, <sup>Swain</sup> and myself to  
the head of the trail across  
Powell Saddle where  
saddle horses met us and  
we rode across and down  
into the winter range on  
the Plateau.

Deer, about 30 were seen  
on Powell Plateau and a  
bunch of five in the first  
bunch on Powell Saddle.  
All of these deer were in  
nearly full summer pelage  
and appeared to be full.

June 10 sat.

condition. Numerous tracks  
were seen in the bush  
in the saddle, but no  
evidence of great numbers.  
Deer in fair numbers on  
the Plateau, ~~where~~

Forage, Swamp Point  
and Powell Plateau show  
considerable deterioration  
since my last visit, much  
more locust and oak has  
died on Swamp Point and  
the deer line is very sharp.  
Pines are also much  
hit and many small  
ones dead or dying. On  
the Plateau grass has much  
improved but some in  
general for June 10 sat.



June 16 em.  
downward.

bluff Down, on Plain  
this has gone a marked  
step further in deterioration.  
Many of the large ones are  
now dead and others nearly  
dead, showing that  
will happen soon on  
Towhee and Jump-Up  
ranges.

Chrysomitris, Several  
specimens, apparently not very  
seriously injured by the  
one affecting it ~~it~~  
further west.

Powell to the, In scattered  
series along the range  
of the mountain range  
467 (over)

scrub oak, Gambel oak,  
and many plants palatable to  
deer.

June 11 V.T. to Greenland  
Point and return.

Left at Mann, Rockford &  
Whitcomb and Parks about 9 AM  
and returned about 6:45 PM.

Mr. Rutledge left party today.

Deer, a few were seen  
most of them in good condition  
largely in summer coat but  
some of the smaller ones were  
rather ragged and still in  
winter coat.

Troop, Greenland still  
shows less <sup>sublimation</sup> sublimation than  
the Kennebunk Park of it. Pines  
have become sparsely  
brown and some  
are killed. Some  
cliff rock is visible. A plateau  
was seen, extremely high, some  
(17)

June 11, 1900  
in fact had scarcely been  
and showed substantial  
massing. Some old cliff  
rocks, heavily ~~covered~~  
~~along~~ on lower ~~cliffs~~ in  
part have died.

Aspen. A few small ones  
on ~~cliff~~ ~~rocks~~ last year  
killed ~~along~~ ~~low~~ ~~intense~~  
ultraviolet. None on main  
Kaibab.

Sorbus serotina, rather  
heavily ~~covered~~ on ~~Kaibab~~,  
but as a rule not ~~to be~~.

Alder. Heavily ~~covered~~.

June 11. a.m.  
Ceanothus americanus ~~the~~  
growing fairly abundantly  
on parts of the island,  
considerably injured but  
not being practically killed.

Syrphox, considerably injured  
but not killed.

Mangrovia, noted in a  
number of places on Krieland  
Point - apparently injured  
to some extent but not  
seriously injured.

Black-bellied Scaup  
(Chenochortus ponderosa)

June 12. V.T. to  
north end of island  
Sugar Forest boundary  
- the Nelson. Trip with Macfarlane,  
Mason & Mann.

Service Berry (Amelanchier)  
2 species evidently occur  
on island, one with  
moderately large, pointed  
leaves - most abundant  
the other with smaller  
& somewhat elongated  
leaves. The larger leaves  
are most abundant by  
sea.

White-fl., scattered on  
north side of island of yellow  
green belt.

June 12 con.

Deer, Deer Park & ~~some~~  
after leaving vicinity of W.T.  
where they are gathered in  
hundreds remain all day  
at this station, W.S. Post and  
others say that this habit  
is always observed at this  
season. As they retire to  
the woods in the morning  
and come out when the weather  
is clear in the evening.

Deer & fozage

~~some~~ deer on much  
of the land, and it seems  
apparent now that reason for  
lack of deer is lack of  
fodder - in general, even  
the deer in the bottom and the  
space is lacking apparently  
due in part to ~~the~~  
(21)

June 17 am,  
Cliff Rose, on north end  
we found this shrub in good  
shape, many partly dead  
we apparently to be cut,  
Evidently many plants are  
putting out little growth  
and there will be little  
flowering, the look of  
moss. Some were seen  
that were gnawed  
apparently by small rodents,  
presumably Peromyscus,  
branches up to 4 to 5 feet  
from the ground and  
partly gnawed on the bark  
later off on one side for  
spaces varying up to 8 or 10  
meters in length, ~~apparently~~  
Ragged scars on the wood  
under the bark were  
(92)

June 12 con  
apparently made by the  
leech of mice. The gnawing  
of the bark kills the branches  
affected - apparently done  
last winter.



June 13 V.T. to Kansas,

Left V.T. about 10 am ~~with~~  
Mr. Mann and reached  
Kansas about 3 pm. Rockford and  
and Winkler left earlier  
in the morning intending to  
drive to a road station on the  
Kans. Rd. Forest in southern  
Utah. We stopped at Ryan  
for luncheon prepared by  
Mrs. Neal. She served us with  
meals on our way into the  
Forest.

Weather, frosty last night  
at V.T. and changing greatly  
we found in road Kansas  
where it seemed quite hot.

Cliff Mine, worked today  
on descending south end  
of Kansas. This is about  
124

June 13 am  
at the lower elevations in  
the piñon and juniper  
belt is past flowering and  
already has the ~~seed~~ plum-  
like seeds well-developed.

June 14. Kanab to  
Grand Canyon Bridge, left  
Kanab at 9:45 am, with Mr.  
Mann and drove to the Bridge.  
It was hot after we descended  
into Hance Rock Valley and we  
found a hot, dusty assemblage  
at the Bridge. The number of  
cars parked in loose order,  
many with their engines was  
roughly estimated at 1000  
and the number of people  
at about 5000. These included  
hundreds of Navajo, ~~and~~  
~~the~~ Hopi and probably  
Pahute Indians. The governors  
of Arizona Utah, New Mexico  
were said to be present, ~~and~~  
~~we saw~~ Sparks was  
2000 in progress when we  
arrived. We met Gov. Phillips

June 14 cont  
and discussed the deer problem  
and ~~other~~ matters with him  
briefly. He looked hot and  
tired as was everyone else.  
Also ~~met~~ <sup>saw</sup> Tillotson of Park Service,  
but had <sup>no</sup> discussion with him  
as he appeared to be very busy,  
and several other acquaintances.

Dipodomys, Perdix seen on sandy  
flat on north side of river &  
~~near~~ within a mile of bridge.

Myadestes; Sturn singing  
in ~~woods~~ on north side  
of river near bridge.

June 15 (Sat), ~~at~~ Colorado  
Rain Bridge to V.T.

Left Bridge about 9:45 a.m.  
with Mann and returned to  
V.T. where we arrived at 5:30  
P.M., en route we ran along  
motor way to east rim at a  
high point west of V.T.

See another find here, An ridge  
running out toward east rim  
I found a number of bushes  
that had been gnawed and  
nearly girdled ~~by~~ by  
meadow mice, so that the  
stems affected died, this  
girdling was apparently  
done during the winter or  
late fall. An empty mouse  
nest of plant fibers was  
seen on the ground under

June 15 con

some overhanging stems which  
fractured it, and several  
piles of excrement were  
seen. Got no fresh signs  
of microbes which evidently  
have <sup>recently</sup> invaded these patches  
of Ceanothus. The growing  
of Ceanothus is too limited  
to extent to be serious, but  
is inimical as another  
destructive factor affecting the  
plant.

Dear (your occurrence),  
Percy Jones of the Mormon Church  
spoke in the evening giving  
many reminiscences of his  
former life. He mentioned  
V.T. being found by him  
his home. He stated that  
(19)

June 15<sup>th</sup> 1895.  
in the fall of 1895 Navajo  
and other Indians in hundreds  
hunted deer on the Kaibab or  
Buckskin mts. as the Morans  
called them and he estimated  
that the Indians took off  
at least 1000 deer. ~~Such~~  
hunting on a similar scale  
was indulged in by Indians  
of several tribes such as the  
tribes that took part were  
the Navajo, <sup>Apache</sup> Paiute, and some  
others from the country north  
of Cedar City. As a rule  
there appeared to be little  
or no ~~jealousy~~ jealousy  
among the Indians, Deer  
were <sup>fairly</sup> numerous but it took  
real hunting to find them.  
~~But,~~

June 15 con.

Mt. Jones, according to Pres.  
Jones ~~lions~~ lions were ~~found~~  
~~in some~~ common but not  
known to be especially abundant.  
They sometimes feed on sheep.

Wolow, Jones says he never  
knew of them on Kambak, but  
they were found in country  
to the north.



June 16 (Sun) V.T. to  
Swamp Pt., Grand Canyon Nat. Park  
and return.

Mom & I made trip to Swamp  
Point to secure photographs.

Yellow Pine, Impacted by  
destructive brown beetles  
on Swamp Pt. Numerous yg. pine  
have been browsed off until  
they have a thick, woody  
appearance. This probably  
dates to the summer of 1945  
and many are very stubby  
and it is probable that  
+ some browsing of yellow  
pine beetles has been  
for a long time. ~~the~~

It has probably become more  
intensive and some are dying.  
yg. tips & long branches.

June 16 (Sun) con.

Robinia. Much of this now  
dead or dying. In a few  
places we found gnawing  
the bark of branches, evidently  
~~done~~ by cottontail rabbits  
when there was snow  
on the ground. This gnawing  
or partial girdling kills  
the branches off.

Does only a great deal  
and good for them is  
evidently ~~very~~ limited.

Symphoricarpos. Heavily browsed  
but not yet killed on Saturday P.M.

White Pine + Spice. Heavily  
browsed ~~but not~~ the growing  
was a general the family.

June 17 (Mon), V.T. to  
Kauai.

Waves & left V.T. about 8:30  
and drove to Kauai,  
about 2:15 P.M.

Examined a variety  
of points in ~~the~~ ~~area~~ ~~of~~ ~~the~~ ~~island~~  
about ~~the~~ ~~island~~ ~~of~~ ~~Kauai~~. ~~Examined~~ ~~up~~  
on ~~the~~ ~~top~~ ~~of~~ ~~the~~ ~~lower~~ ~~part~~  
of ~~the~~ ~~island~~ ~~where~~ ~~it~~ ~~is~~ ~~in~~  
not very ~~thick~~ - apparently are  
in ~~great~~ ~~the~~ ~~great~~ ~~damage~~, although  
some are of ~~large~~ ~~size~~, but  
frankly ~~not~~ ~~quite~~ ~~had~~ ~~not~~ ~~yet~~  
of ~~and~~ ~~the~~ ~~island~~ ~~of~~ ~~Kauai~~ ~~is~~ ~~about~~ ~~2~~ ~~1~~ ~~5~~ ~~P~~ ~~M~~  
are about ~~2~~ ~~1~~ ~~5~~ ~~P~~ ~~M~~. In  
upper part of ~~the~~ ~~island~~ ~~the~~  
flowers ~~are~~ ~~not~~ ~~yet~~ ~~in~~ ~~full~~ ~~blow~~  
already ~~through~~ ~~the~~ ~~island~~ ~~of~~ ~~Kauai~~ ~~is~~ ~~about~~ ~~2~~ ~~1~~ ~~5~~ ~~P~~ ~~M~~

(34)

June 17 (Wed) Cor.  
Plume like birds have already  
left in the place of the  
plumage. It is with white  
feathers and - some plumage  
is still at a little  
distance of flower white  
appearance.  
G. white. Frost of V. P. last  
night, but quite warm at  
Kano.

June 18 (Tue), Kanab  
to Salt Lake City  
Left Kanab by stage at  
4:45 P.M. and reached Hayward  
about noon. Took train at  
M at 1 P.M. and reached  
Salt Lake City about 9:45  
P.M. train about 1 1/2 hours  
later.

Road from Kanab is up  
a narrow grade along the  
side of the valley. Crossed  
the mountains and  
went on to the north along the  
valley.

June 19 (Wed). Left  
Salt Lake City enroute to  
Washington at 9:45 A.M.  
En route with Mrs. Holman  
and H. M. Deane.

June 20 en route

June 21 (Fri). Arrived  
Chi. 9:20 A.M. Left Chi.  
1:30 P.M. for Wash., D.C.

June 22 Sat.  
Arrived Wash., D.C. 8:25 A.M.

R. G. ...  
leaf ...  
... also

---

... Butler  
...  
M.P. ...

A.H. ...  
2449 ...  
Ohio

...  
...

Roll 1 - Arizona 1929

1-6 All on Grand  
range, Kaibab.



Roll 4 - Arizona - 1929

6. normal yellow Pine  
niger, design -  
J. J. J. J. June 12,  
1/25 - 11 - 11 AM

June 12

15 - 1

8 -

12 (all trucks)

6 " "

9 - 1 (all deer)

17 - 2 (Mixed)

23 - 2 " "

June 15

18 - 2 (Mixed)

4 -

29 - 2 " "

11 -

11 - 2 (Mixed)

24 - " "

Roll 1 - Arizona - 1929

1. Dev. 5x7 75. ~~...~~

2. *Yucca* view in wet beach  
... asp - to near growth  
of fir & spruce - 64 - 2 sec.  
9:30 AM, wet beach, June 16

3. *Yucca repens* reproduction in  
wet beach, 64 - 3 sec.  
10 AM, June 16

4. *Yucca* fir wet beach under  
base of asp - 64 - 1 sec - 10 AM  
June 16

5. *Yucca* view with asp & fir  
& asp - 64 - 4 sec - 10:30 AM  
June 16

6. wet beach view of asp & fir  
... 64 - 1 sec  
10:30 AM

Roll 2 - Arizona - 979  
5 x 7 1/2 in. - camera

1 - Stubby red ... - Swampy  
Pl. 64 - 2 x 2 in. clay, but  
well illuminated 11 and

of June 16

2 - Wh. fin & Mr. Wain, Swampy  
Pl. - 64 - 1 1/2 in. ...  
2 x 2 in. June 16,

3 - Wh. fin mainly, Swampy  
Mr. Wain - Swampy Pl. - 64 - 1  
1/2 in. - wood ...  
June 16

4 - The ... of ... of ...  
Swampy Pl. - 64 - 2 x 2 in. - ...  
clay ...

5 - ~~...~~ ...  
... with a couple of ...  
Pl. - 1 - 2 in - 2 x 2 in

6 - ...

Roll - 3 Arizona - 1929  
5x7 F.S. 3mm

10 2 Sford L

3 - Heavily snowed & partly  
dark. Roll - 64 - 7/5  
1 PM, light clouds, June 16  
Swamp Pt.

4 - Sford L

5 - Heavily snowed and  
washed yellow pine -  
~~64~~ 1 PM, light clouds,  
June 16

6. Deer which killed a part of  
- killed by deer. Swamp  
Point June 16, Grand  
Canyon Nat. Park.

Roll. 5 - Arizona - 1949

- 1 - Mammal band on *Sturnella*  
Pest June 16, - 64 - 05.  
Msk. c. l. s., 1 PM. June 16
- 2 - Hatched egg of *Sturnella*  
Pest - 64 22 - 05 - 2 PM.  
Msk. cloudy, June 16
- 3 - Flea in V.P., 9 AM  
11 - 1125 - June 17  
+ *Sturnella*, before 10 AM  
11 - 1125 - 10 AM, June 17
- 5 - Same subject - place  
but 16 AM
- 6 - *Sturnella*, before 10 AM  
11 - 1125 - 11 AM, June 17