

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
Left Washington, D.C., 10:10
P.M. for Eden Lake.

May 28
Arrived Chicago 7:25 P.M.; left
Chicago 8:30 P.M.

May 29 - En route -
reached Duluth about 10 A.M.
Country looking green and
fine but crops apparently
backward. Some corn up.

May 30, 29:10:10
Arrived 1:10 P.M. Got in touch
with R.A. P. Atledge and in
evening met G.B. Packard.
Spent evening with the
Packards - Mr. B. prepared
a dinner at Hotel

May 30
I stopped in Ogden. Weather
quite warm.

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

June 1, Ogden to
Richfield by auto.

Left Ogden 2.05 PM, stopped
at Garrison for dinner and
then drove on to Richfield
where we arrived about
10 PM. Trip made with Mr.
Reed and wife and Mr.
Winkler, in charge of grazing
in this district. Found
Mr. Geary in charge of
lands for the District at
Richfield. (2)

Met ~~R.L. Boyles~~ ^{R.L. Boyles} & ~~W.B.~~

Hart and M.C. Mungrove 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, thence by out over
Jump-up point country and
back to Ryan, covering 45
miles from Ryan and back.

Trip afforded a good general
idea of conditions - deer widely
scattered at this season.

Deer tracks seen in a
number of places, especially
about places where salt
has been placed, but only one

June 3, con
sun today.

Forage. Damage as night be
expected. In dryness continues to be
progressive. More heavily browsed
cliff, ^{upward} ~~and~~, juniper, sage brush
now dead. Deer also feeding
to some extent upon
Adostemon, and Follia and
Sesuvium, ^{stendifolia} but
there is little of the latter.

Salt, About 41 tons placed
on range by F.S. in past
year.

June 4, Ryan to
Sowats and Little Saddle
and return by various routes.
Left Ryan about 8 AM. and
travelled about 85 miles
covering various routes
on main winter range and.

June 4, con.
part of summer range.

June 5 Ryan to
V.T. Park via ~~east~~ canyon
and a cross section of north end
of plateau ^{south of} Jacobs Lake, and out
to east rim at 2 points.

Ferroc. Generally good on north
end and hard hit over area farther ^{south}.

Rebo - Both the strong &
smooth spines showed a
little on north end of plateau,
but not seriously damaged.

Sambucus, - showed as
with 20 feet can reach on
north end, but occurs ⁱⁿ ~~of~~
possibly near abundant.

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

L. B. Hark, Game Com.
Tucson Ariz.

(current)
P. b., P. t. heavily
brown on leave ridge
north of [?]
White g. heavily brown
on leave ridge.

Supines (leaf) heavily brown
later in season on leave ridge.
This is a perennial and does
not appear to be seriously
damaged as the roots are
not up [?].

Gamble oak - Much low growing
oak killed. Long oak run
on point of leave ridge.
(6)

June 5 con.
Pine - in low pine band
sit on point of Lame Ridge,
mostly killed.

June 7, Mr. Tillotson and Vernon
Barby in evening.

June 6, N. P. Park to
Lame, via in Haverock Valley
via Trail Canyon Road - drove
by Haverock and Lame to
South Canyon R.S. and returned
to Lame.

Forage, Near South Canyon
the cliff some, juniper, and
Juniper appears to be nearly ^{to be} ~~gone~~
there can be perhaps ^{some} ~~seen~~
left in ^{the} ~~area~~.

Sheep. 2 bands - 2400
on N end of Haverock,
(7)

June 6 con.

Check post No. 14 near
South Canyon established
2 years ago has shown good
recovery of bluff rose and
fairly good of juniper.

Horse Rock Valley, Season
has been very dry and grass
in very bad shape - clothing
cropped and surface baked.
Mr. Lewis represents Grand
Canyon Cattle Co. says it is
in the worst condition he has
ever seen it in his 25 years
residence.

Cattle, About 1500 on

Ranch

Sheep, about 2400 (2 bands)
on Ranch (8)

June 7, leave the
V.P. returned to via Jacobs Gate
and made trip again to Camp Ridge.
and Musgrave

Mr. Boyers and Mr. Kent left us
on their return today.

Pine. Good yellow pine
represents in excellent
condition close to water at
Jacobs Gate in spite of watering
of many cattle which bites
about and might be expected
to break it down.

Myctophila, two which apparently
came out of house at Camp
were seen flying at dusk.

June 8. V.P. to
Sawtooth area, and First Saddle
and return,

Trip made accompanied by Riskey
and Tullotson who left for
Bright Angel Point in the evening.

Arviculles. ^{moderate} Palatable ^{to} ~~be~~
~~be~~. Several ~~seen~~ ~~seen~~ but
comparatively little killed
outright. Several in ~~seen~~
seen for ~~seen~~ to ~~seen~~

Quercus. ~~seen~~ just ~~seen~~ ~~seen~~
in leaf in ~~seen~~ ~~seen~~ ~~seen~~.
Foliage ~~seen~~ ~~seen~~ in
oak ~~seen~~ which occurs on
winter range in ~~seen~~ and
cliff rose belt and as observed
on other trips not ~~seen~~
browsed ~~seen~~ for ~~seen~~

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

Amelanchier. Less heavily
browned on parts of south
edge owing, like the oak,
to the fact that it is
deciduous.

June 9, V.T. to Point
Sublime and return.

Left V.T. about 8 a.m. and drove
out on Pt. Sublime and returned
about noon. In afternoon
covered numerous points along
east rim overlooking
Housatonic Valley.

Forage. In Pt. Sublime
conditions not greatly changed
since former trip, but more
(11)

June 9 con.

cliff rose is now dead, and
also more sage brush toward
end of point especially which
slopes down into mixed

Timberline and upper austral
zone. Deer at present down
to near point, but no
evidence of great numbers.

Deer, at Mt., deer seen
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 latter part of last
summer. Much of oak and
honest now dead, ~~and~~
~~present in woods~~

June 9 con.

Symphoricarpos, heavily browsed
everywhere, along east river
noted especially. Trying
to recover and
most of it sprouting from
roots or still retaining
a little life in basal stems.
Most of ~~the~~ ^{the} ~~was~~ ^{was} not yet
completely killed in
effect.

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

Mr. Rutledge took a party
consisting of Parkford,
Winkler, and myself ^{Swain Point} 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 thick
bush in Powell Saddle.
All of these deer were in
nearly full summer pelage
and appeared in excellent
condition.

June 10 con.
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 time is very short,
Pines are also very hard
hit and many small
ones dead or dying. On
the Plateau grass has much
improved but is not in
general for ~~the~~ ~~best~~

June 16 em.
downward.

Cliff Dred, du Pléban
this has gone a wonderful
step farther in deterioration.
Many of the large ones are
now dead and others nearly
dead, showing what
will happen soon on
Sowater and Jump-Up
ranges.

Chrysoclamus, Several
species, apparently not very
seriously injured by deer
are affording good ~~food~~
for deer now.

Powell Saddle. In saddle no
serious injury to ~~the~~ on
of ~~the~~ slope. Some ~~afflicted~~; Gorge
(16) (1000)

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

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

Left at Mann, Rockford &
Winters 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.

Forage, Greenland still
shows less vegetation than
the Kenosha Park of it, Pines
have become sparsely
grown and some
are killed, some
cliff rock near edge of plateau
was less extensively forested, some
(17)

June 11.th in
in fact had scarcely been
and showed substantial
mossy. Some old cliff
roses, heavily browsed
~~along~~ on lower branches in
part have died.

Aspen. A few small aspens
on ~~flat~~ ~~level~~ ~~land~~ ~~not~~ ~~yet~~
killed ~~along~~ ~~low~~ ~~intense~~
ultraviolet ~~light~~ on main
Kaibab.

Sorbus aucuparia, rather
heavily browsed on ~~level~~ ~~land~~,
but as a rule not killed.

Alder. Heavily browsed.

June 11, am.

Ceanothus rivularis, ~~Purshii~~
growing fairly abundantly
on parts of Greenland,
considerably browned but
not being actually killed.

Symphoricarpos, considerably browned
but not killed.

Manganites, noted in a
number of places on Greenland
Point and apparently browned
to some extent but not
seriously injured.

Black Hills Feather
(Trematocarpus ponderosa)

June 12. V.T. to
north end of Peabody
Forest boundary
- The Return. Trip with Packford,
W. & M. Mann.

Service Berry (Amelanchier)
2 species evidently occur
on Peabody, one with
moderately large, pinnatifid
leaves, most abundant
the other with smaller
& somewhat elongated
leaves. The larger leaved
one most abundant by
den.

White Pine, extends down
into upper part of yellow
pine belt.

June 12 con.

Deer. Very few seen today after leaving vicinity of V.T. where they are gathered in hundreds remaining all day of this season, W.S. Root and others say that this habit is always noticed at this season. Later they return to the woods early in the morning and come out with the lightning of shadows in the evening.

Deer & forage

~~forage~~ Very poor on much of north side, and it seems apparent now that reason for lack of deer is lack of forage in general. Even herbaceous vegetation and grass is lacking apparently due in part to drought.

June 17 con,
Cliff Rose, On north end
we found this shrub in good
shape, many partly dead
we apparently to drought.
Evidently many plants are
putting out little growth
and there will be little
blossom owing to lack of
vigour. Some were seen
that were gnawed
apparently by small rodents,
presumably Peromyscus,
branches up to 4 to 5 feet
from the ground and
partly girdled on the bark
later off on one side for
spaces varying up to 8 or 10
meters in length, ~~apparently~~
Rozed scars on the wood
under the bark were
(22)

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

June 13 V.T. to Kanab,

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

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

Cliff Cove, noticed today
on descending north end
of Kanab that this place

June 13 am.

at the lower elevations in
the piñon and juniper
belt is past flowering and
already has the ~~seeds~~ 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 House Rock Valley and we
found a hot, dusty assemblage
at the Bridge. The number of
cars parked in loose order,
many with tents beside 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, ~~but~~
~~we~~ ~~did~~ speak with
2000 in progress when we
arrived. We met Gov. Phillips
(24)

June 14th con

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

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

Myiarchus: Seen flying
in wing 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.

Ceanothus fendleri, a ridge
running out toward east rim
I found a number of bushes
that had been gnawed and
nearly girdled ~~in that~~ 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
28

June 15 con

some overhanging stems which
protected it, and several
piles of excrement were
seen. But no fresh signs
of microbes which evidently
have ^{recently} inhabited these patches
of lecanospora. The growing
of lecanospora is too limited
to extent to be serious, but
is interesting as another
destructive factor affecting the
plant.

Dear (your occurrence),
Pres. Jones of the Mason Church
spoke in the evening giving
many reminiscences of his
father's life in these mountains,
V.T. having formerly been
his home. He related that
(29)

June 15^{em}.
in the fall of 1895 Navajos
and other Indians in hundreds
hunted deer on the Kaibab or
Buckskin mts. as the Mormons
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 each fall.
Tribes that took part were
the Navajos, ^{Apaches} Pahrute, and some
utes from the country north
of Cedar City. As a rule ~~they~~
there appeared to be little
or no ~~real~~ jealousy
among the Indians. Deer
were ^{fairly} numerous but it took
real hunting to find them.
J.H.

June 15 con.

Mt. Jura, according to Prev.
Jura lions were ~~found~~
~~in some~~ common but not
known to be especially abundant.
They sometimes kill sheep.

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

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

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

Yellow Pine, Impressed by
destructive browsing by deer
on Swamp Pt. Numerous yg. pines
have been browsed off until
they have a thick, bushy
appearance. This probably
dates back a number of years
and many are very starchy
and it is probable that
some browsing of yellow
pine was indicated here
for a long time. ~~As the~~
It has probably become more
intensive and some are dying.
Yg. tips being taken now.

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 affected.

Deer. Only a few actually
seen and food for them is
evidently ~~too~~ very limited.

Symphoricarpos. Heavily browsed
but not yet killed on Swamp Pt.

White fir & spruce. Heavily
browsed ~~but not~~ the browsing
more general than family.
(33)

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

Mamma I left V.T. about 8.30
and drove to Kauai,
arriving about 12.15 P.M.

Bluff ~~is~~ Examined at various
points in descending north
side of mountain especially
along top of ridge. Extending up
on south slopes into lower part
of pine belt where it ~~is~~ is
not very thick - apparently due
in part to frost damage, although
some are of large size. Here
plants with ~~fruit~~ ^{fruit} have not yet
of well flowers although ~~they~~
are about ready to open. In
upper part of pine belt
flowers out and lower down
already through ~~flowers~~ ^{flowers} 21

June 17 (Wed) Con.
Plumbe like birds having already
taken the place of the
ground. Fls. with white
petals and - petals always
greenish when at a little
distance a yellowish white
appearance.

Weather. Frost at V. P. last
night, but quite warm at
Kano.

June 18 (Tue), Kanab
to Salt Lake City

Left Kanab by stage at
4:45 A.M. and reached Hayward
about noon. Took train at
H. at 1 P.M. and reached
Salt Lake City about 7:45
P.M. train about 1 1/2 hours
late

Road from Kanab is up
an arid divide along Sevier
River valley. Crossed
mountains & plains in places
and red sandstone crop out
far to the north along the
valley.

June 19 (Wed). Left
Salt Lake City enroute to
Washington at 5:45 P.M.
En route with Mrs. Holman
and F.H. Madson.

June 20 en route

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

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

R. S. Bayless
leafy

Send copy of [unclear] also
copy to Miss [unclear]

Jack Butler
Frederia [unclear]
[unclear]

M. R. Tillotson
Dept. [unclear] Nat Park
[unclear]

A. H. Badlong
2449 Berwyn Ave
Celia

leson photograph
[unclear]

Roll 1 - Arizona 1929

1-6 All on Grand
range, Kaibab. ✓

Roll 4 - Arizona - 1929

6. normal yellow Pine
ripes down near
Jacob's Gate, June 12.
'25 - 11 - 11 a.m.

June 12

15 - 1

8 -

12 (all trucks)

6

12 "

9 - 1 (all deer)

17 - 2 (Mixed)

23 - 2 "

June 15

18 - 2 (Mixed)

4 -

29 - 2 "

11 -

June 16

11 - 2 (Mixed)

24 - "

Roll 1 - Arizona - 1929

1. Dev. 5 X 7 75. camera

2. Fir view in old beam

view - 2 asp. & new growth
of fir & spruce - 64 - 2 sec.
9:30 AM. med. sun. June 16

3. Yg. spruce reproduction in
open stand. 64 - 3 sec.
10 AM. June 16

4. Yg. fir reproduction under
shade of asp. 64 - 1 sec - 10 AM
June 16

5. Sun view mid of fir
& asp. - 64 - 2 sec 10:30 AM
June 16

6. Mid. fir & asp. view
to fir & asp. in
open stand. 64 - 1 sec.
10:30 AM. June 16

Poll 2 - Arizona - 1979
5 x 7 1/2 camera

1 - Stubby yellow pine - Swamp
Pt. 64 - 2nd cloudy but
well illuminated 11 AM

June 16

2 - Wh. fir & Mc. Mann, Swamp
Pt. - 64 - 11 AM - med clouds
2 sec. June 16,

3 - Wh. fir nearly 200 ft
Mc. Mann Swamp Pt. - 64 - 11
AM - med clouds, 3 sec,
June 16

4 - The main of broad-leafed wh. fir
Swamp Pt. - 64 - 2 sec - 11 AM
cloudy - June 16,

5 - ~~Stubby~~ Broad-leafed yellow pine
with a couple of wh. fir
Pt - 11 - AM - 2 sec. June 16

6 - The fir in the swamp
Pt. 64 - 1 - 6 - June 16

Roll - 3 Arizona - 1929
5x7 F.S. Bama
102 Spoiled

3 - Heavily browned & partly
dead Robins - 64 - 2/5 -
1 P.M. light clouds, June 16
Swamp Pt.

4 - Spoiled

5 - Heavily browned and
washed yellow pins -
~~64~~ 1 P.M. light clouds,
June 16

6. Oak thicket killed, or partly
killed by deer. Swamp
Point June 16, Grand
Canyon Nat. Park.

Roll. 5 - Arizona - 1949

1 - Main and lunch on Sunday
Point June 16, - 64 - 0.5.
Med. clouds, 1 PM. June 16

2 - Hazed and fine in Secup
A - 64 22 - 0.5 - 2 PM.

Med. cloudy, June 16

D. 11/2

3 - Clear in V.T., 9 AM.

11 - 1125 - June 17

+ Bluff Cove, before Ridge.

11 - 125 - 10 AM, June 17

5 - Same subject place
but 16 at 10.

6 - Bluff Cove, before Ridge,

16 - 105 - 1135 2/3. Small

June 17