

U. S. DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

Form Bi-689

FIELD DIARY

Mr. E. A. Goldman

(Official title.)

Period, August 7 to Oct. 23

1937
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Head - 1000

7 1/2 1000
7 1/2 1000

38370
387
38757

Oh mileage 511 - 23
to 5131/1

		39542		39865
138	60	38370	757	38757
	40			
	100	1172	370	308
			387	

at 1000
at 1000
at 1000
at 1000

Mileage 38370 leaving
Cross Sept. 30. - 2000
Oct 1 Mileage 38757
" 2 " 39065
" 4 " 39542

$$\begin{array}{r} 2172 \\ \underline{86} \\ 665 \end{array}$$

$$\begin{array}{r} 45 - 71 \\ \underline{45} \\ 16 \text{ stop} \end{array}$$

$$\begin{array}{r} 75 \\ \underline{85} \\ 35 \end{array}$$

$$\begin{array}{r} 665 \\ \underline{60} \\ 605 \\ \underline{30} \\ 635 \\ \underline{16} \\ 619 \\ \underline{5.00} \\ 1.19 \end{array}$$

$$\begin{array}{r} 170 \\ \underline{60} \\ 110 \end{array}$$

$$\begin{array}{r} 35 \\ \underline{85} \\ 306 \end{array}$$

1.19 New from Tank

$$\begin{array}{r} 1.10 \\ \underline{2.29} \\ 1.61 \\ \underline{3.90} \end{array}$$

$$\begin{array}{r} 2)172 \\ \underline{85} \\ 110 \end{array}$$

$$\begin{array}{r} 306 \\ \underline{145} \\ 161 \end{array}$$

$$\begin{array}{r} 60 \\ \underline{85} \\ 146 \end{array}$$

Aug, 8 (Sun)
 at & near Ft. George, Tenn
 Mileage 23788
 Left 8 AM, Ret 6 PM

Aug 9 (Mon)
 Mileage 23831
 at and near Ft. George
 Left 8 AM
 Ret 6 PM

✓
Aug. 10. Tue
At and near St. George ^{Utah}
Mileage 23865
Off 8 AM
Ret. 6 PM

Aug. 11 (Wed)
At and near St. George
Mileage 23936
Off 7 AM
Ret. 4 PM

Apr 12 (Thurs)
Left St. George for
Bedford 9 AM.
No. 23994

Leaves - Riders Fee
Payor .25
1 lb. roll cotton J.6
Penny .29

Bedford Mt. - covered
in juniper belt,
Juniper yucca - w. slope
only.
Ret. St. George 8.30 AM.

Aug. 13 - (Fri.)
St. Geo. & vicinity
Mileage 24118
Left St. G. 8 a.m.,
Ret. 11.30 a.m.,

Aug. 14 (Sat)
St. Geo. & vicinity
Mileage 24154
Arrived Zim Nat. Park 1 PM

Aug. 15 Sun.
In Zion Nat. Park.
Mileage 24258
Drove up to top of grade to
hops and returned.
Left 8 a.m. Ret. Arr. 11 a.m.

Aug. 16 Mon.
Mileage 24325
Left Zion Nat. Park 3:50 P.M.,
Arr. ~~Ketchikan~~ Fredonia
7 P.M.

Aug. 17 Tue

Mileage 24,388 - Madonia
Left to work trap line 7,15
A.M. Ret. 6 P.M.
Saguela chry 3 flying

Aug. 18 Wed:

Mileage 24467 - Early morn

" 24494 - Leaving Kawat

for flowloff.

off 2:30 P.M.

quartz take 3:55 P.M.

air flow alt 7,25
air flow 8 P.M.

Aug. 19 In flight.

Aug. 20

Mileage 24705

Left Glasgow 3.50 PM.

Arr. Phoenix, Ariz. 7.30 "

Aug. 21
Mileage 24934
Left Phoenix 4 PM.
Arr. Tucson 7.30. "

Aug. 22-24, In Tucson
Mileage on 24th 25074
Visited points in country
near Tucson.
On 24th
1 off. 8 am.
Ret. 11 "

7172 45 - 71 66
45 95

Aug, 25

Mileage 25151
Left Tucson 3.30 Am Safford 7.30
Dragon Mts - Pinyon
granite in part of locality

Aug, 26

Mileage 25289
Left Safford 9 AM.
Arr 3 PM
Beloncello Mts - covered
at 5500 ft. - soil to 6000
ft. *P. emeryi* - possibly
scrub oak - juniper -
pinyon
top of. Stony lower
Sagebrush mesa on road
delimit to Duncan
locality - Dipod species.

Aug. 27

Mileage 25381

Off Jim Denman, 1.56 PM.

Arr. camp in Blue Range 6 PM

Upper Son; Above left

Ariz. cypress

Walnut

Platanus

Quercus agrifolia

in Ariz.

Juniper

Quercus hypoleuca

Ash

Robinia

Vitis

Aspen

Pine park.

Geol. Limestone.

Aug 27 1900
Jump Quail

Aug. 28
Mileage 25 448
Left camp southern end of
Blue Ridge 8 A.M.
Arr. 6 P.M.
Geothlypis trichas
Scirpus abortivus
Lepidopygia
Robinia
Dryobates villosus
Spizella
Junco hyemalis
Colaptes cafer
Callipepla
Scirpus mag.

Aug. 29 (Sun)
In Gallup.

Aug, 30
Mileage 25679
Left Gallup 12:30 AM

2 phy. bird seed Pigeons
Gallup @ 15 Gallup 30
1 lb. cotton job. Pigeons 29

Left Central Agency 3 PM
Transition zone - 1061 ft.
Mountains of Grand
Canyon

Topog. From Central Agency in
a picturesque setting we climbed
over mesa the altitude given
on summit as 7719 or 7720
ft. (8500 ft. eroded). This is a
level topped red sandstone
plateau in pure Transition
Zone.

Aug. 30 con.
Pinus (ypl)
~~Robinia~~
Quercus gamb.
Lewania stans
Artemisia (in sprays on slopes)
Pinus (abund on slopes)
The plateau slopes off
into upper Sonoran zone.
At Ganado we stop at
Presbyterian Mission
Arrived Ganado 5:30 AM

Aug. 31 At Ganado.
25741
Short traps to traps
Left Ganado 8 AM.
Returned 5:30 PM.

Sept. 1
At Ganado alt. 6500 ft.
Took up traps out along rim rocks
of mesa near Ganado.

Sept. 2
Mileage 25755
Left Ganado 5 AM. Arr. Chinle
Ret. 6:20 AM. 12 M. Drove on
up to summit of Fukaclukai
Mts. Ret. 6:20 PM
Route up gradually to base
of mountains over ^{irregular} mesas
covered with juniper and
juniper and sage brush, with
Lewania in small numbers.

45
Sept. 2 con.
Road then ascended more steeply to along Tuhachukai Canyon to the summit at about 9000 feet. Returned by same route.

Dipodomys spectabilis. Found unmistakable burrows a few miles out of Chin Lee, along the edge of the high mesa draining toward Chin Lee valley.

W. S. Mc Guinness
Window Rock, Ariz.

Onocotyle. Proctos common in Tuhachukai, etc. of do Paul Phillips.

Sept 3
Mileage 25797
At Chin Lee.

Drove out at 9 A.M. about 10 miles on road to Gaudo and set traps on the sandy mesa for various mammals including Dipodomys spectabilis a few holes of which were noted on the way in yesterday.

Topog. The mesa referred to is in the Chin Lee Wash drainage, but represents a higher level which drops rapidly several hundred feet to the main Chin Lee Valley which is perhaps 5 miles in width at Chin Lee.

veg. On the mesa - No trees - Small yuccas, Ephedra, (sage)

Sept. 3 con.
Small flat leaved *Opuntias*,
Atriplex, *Lutenaria* - being
invaded by Russian thistles.
Also *Chrysothamnus* and a little
Artemisia trid - latter very
young.
Returned 5 PM

Sept. 4
Mileage 25823
Out to traps on mesa at
Chin Lee. Left 8 AM, Ret. 5 PM
Lake. Visited pond on mesa.
noted sp. as follows:
Mallard - about 10
Gull (Blue winged), 12
Ruddy 2
Pintail - 1.
Lake about 1 mile long and $3/4$
mi. wide. ~~Shows~~ Shallow
depression with fluctuating
level. Source rain water -
only semi-permanent. A few
small patches of lutes in
deeper part. Shows nearly
bare but a little cover
mainly *Atriplex* bushes above
high water level. Saw flowers
in places. Some aquatic veg. in ^{water}

Sept. 5
Mileage 25844
Chin Lee to ~~Map~~ ~~map~~, viz.
Left Chin Lee 9 A.M.

Arr. 7.30 P.M.

Route via Kean's Canyon and
Draibi

General similarity in type,
with slight variations over
large area. Little variation
in altitude. ~~At~~ Draibi on
a 6000 ft. level mesa of
light-colored sandstone.

Veg. Largely of scattered juniper
and juniper type. At Draibi
on 6000 ft. sandy peack and
petio fruit trees grow so close
to juniper and pinyon that
they seem to intermingle. Fruit
trees are of low bushy
growth. Principal plants

Sept. 5. con
scattered Juniper and purple
crowbar Chrysothamnus
Indian paint brush (abundant),
Gutierrezia and numerous
flowering herbs.

Mon. Sept. 6. (Labor Day)
In Flagstaff.
Census & routine.

Sept. 7 (Tue.)
Miles ~~260~~ 261.00
Flagstaff to Slick 877.

Left 8 AM, Ret. 5 PM

Myiobon kardani (Queen)
Western Grand Slope.

1 pint formaldehyde (for official
use) purchased from Babbitt Bros,
Flagstaff 75
1 can same place 18

Barroteron, S.W. Museum,
S.A.

Myiodon Karlseni (Owen)

Notropichthys ocellatus

Both of these fish
order of Frank Leayur
in late Pleistocene

Sept. 8. In Flag.
Account to cases.

Sept. 9 Thurs
Milage 2617.3
Left Flag. 12.50 P.M.
Arrived D.D. 6.30 P.M.

Met H.C. Anthony in desert south of
Marble Bridge.

Sept. 10 Fri. at V.P. & vicinity.
Mileage 26368 - off 8 am. up 6 pm
callus (on thumb) weighed
down. Plant about 4 ft.
high.

Popos. near Saddle Mt. in
Sancoveap ridge strata dips
toward River. From Tully
Colorado strata dips upward
in wall of canyon.

veg. on Greenland Point veg
shows marked recovery from
deer browsing, but scars
remain.

Clarke Interactor - Several
feeding upon on Penguin nest
on edge of Grand Canyon.

Sept. 11 (Sat)
Melrose 26451 -
at V.P., + vicinity

Sept. 12 (Sun)
Melrose 26465 -
Left V.P. 8 AM
Arr. Housatonic Val. 6 PM

Sept 13 (Mon)
Melrose 26546
Left V.P. 7 AM. - took up
trap and animal Grand Canyon,
1 PM.

Sept. 14 Tue

Miling 26701

Left Grand Canyon 8 AM.

Arr. Flagstaff 6 P.M.

Take car.

Entered trail in Transition
Zone near Grand Canyon,
Havasupai Creek. - Drive back
to via Anita.

Near Havasupai Creek; after
grass land heavily wooded
by Russian thistles (over-
topped by sheep)

Fls. Few Yuccas -

Atriplex canescens (abundant)

Yucca. *Sisymbrium* (common),

Lycopersicon - a few.

Baccharis sp.

Dipodomys - *sonoriensis*

Peromyscus generally at base of

Atriplex bush.

Sept. 14 Mon.
Duffelburgs - Along Willoughby
Brook between Willoughby
south of Anita Lake.

Sept. 15: Wed.
Mileage 26829
Left Flag, 12:30 PM.
Summit W. of Flag, 7409 ft.
Zone - upper Sonoran
Flag on to below Prescott,
Gum oak below Prescott,
Muskellin near Prescott.

Zone - Enter Sonoran
at foot of steep hill below
Yarnell, - including giant
cactus.
Arr. 6 PM. at Weckerburg

Sept. 16 Thurs.

Mileage 27009

Left Dickinson 12:30 PM

Arr. Yuma Aug. 7 PM.

Wind 25 - 30 mph a
shad light w. of the park.

Today - Plant west of

Suitcase partly covered
with shallow layers of
sandstone with broken
shells.

Sept. 17 Fri

Mileage at Yuma 27272

Left Yuma 8 AM.

Arrived San Diego 12 M.

Spent afternoon at Museum

Sept. 18 Sat.

Morning at Mus. in San Diego.

Sept. 19. Sun.

Fishing trip to Coronado Is.,
with Lester & Lawrence M.
Hney. Lester took a "Bonito".
I tied on to two but both
got away in the large
lines of other fishermen.
About 50 men fishing.

Sept. 20 Mon

at Mus. in San Diego

Sept. 21 Tue

at Mus in San Diego

Sept. 22-24.

at San Diego

Sept. 25

Left San Diego 8:45 AM
Mileage 27895, arr. 26 PM.
Have fun 480 PM.

Sept. 26 - Oct. 6 - At
work only on leave. ~~leave to 2:45 PM~~
Oct. 7, Left Fresno 2:45 AM
by 7:30 AM

Oct. 7 - 14,
at Berkeley. Left Oakland 11:40
PM. Oct. 14.

Oct. 15 Calif.
Arrived Kingsburg 7:30 AM,
and went on annual leave

On annual leave from
7:30 AM. Oct. 15 to 8:40 PM
Oct. 18. Returned official
travel at Kingsburg 8:40 PM.

Oct. 19
Arrived Los Angeles, Calif.
6:40 AM - Left L.A. 8:15 PM.

Oct. 20 - 23

Con route Waltham Jov.
arrived 8,50 a.m. Oct. 23.

1935 all about 1000
 D. up to Sequoia in front

068:1 100
 186 10 70
 30
 21156 50
 78 15



40376
 38370

 2026

#0

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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY.

WASHINGTON.

OFFICIAL BUSINESS.

U. S. Department of Agriculture,

Washington, D. C.

Bureau of Biological Survey.

Peromyscus longi nasutus, 11 mi
west of Lago Grande near
Suajote Wash. soft sand &
grass.

Thomomys - R.R. embank, 10 mi
S. of Lago. Bush on road to Ajo.

Neotoma lepida - same place
just in hills on left side,
going south.

Thomomys from Leontidei Mts.
On a dike on road from
~~Sells to 5 mi. N. W. Ajo to~~
Sells, 5 mi. N. W. of Sells, Hills
on west side of road.
Camp near White.

Hay has series from top of Rincon Mts
to say well but

Fred Foggergreen
 Ranger at Fish

85
 40
 50
 85
 2.63
 30
5.53

~~100.00
 20.00
 80.00~~

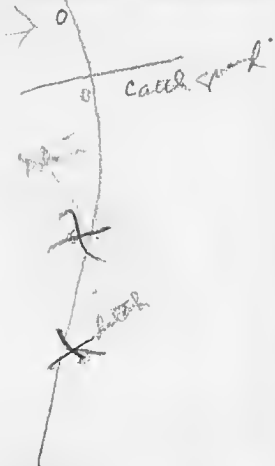
Calisma flat.

~~42.00
 11.70
 30.30~~

~~100.00
 30.30
 69.70
 .29
 69.99~~

26.00
 5.53
31.53
 5.00
36.53 Due

~~44.53
 42.53
 42.00~~



On Aug. 20 Due Guthrie \$220.00
(all total) less 24.15 for camera
10.00 ~~leaf~~

Ovis - In New Mex. coll.
3 ram heads - 2 adult
1 ewe adult & good shape
probably gambelii
Nasals (height) mm. 120
" width " 43
Premaxillae (height) 105



Open in
alfalfa

16-57

Oct. 1	—	Toddy	Fast	2.50	609
"	"	Break	GR	1.10	Colls 15
"	"	Lunch	"	"	1.35
"	"	Park (Zim)	"	1.00	"
"	"	Supper	"	1.84	"
"	"	Lodging (Kant)	"	"	3.00
"	"	Tickets Boulder Dam	"	"	.50
"	2	Break	"	1.15	"
"	"	Lunch	"	1.88	.95
"	"	Supper v. 1.	"	1.92	"
"	3	break & lodg.	"	3.76	"
"	"	Gas	"	3.05	"
"	"	"	"	3.05	"
"	"	Supper	"	1.92	"
"	"	Drinks	"	1.05	"
"	"	Tue Jacobs	"	29.34	"
"	4	Break & lodg.	"	3.76	"
"	"	Supper	"	2.22	3.00
"	5	Break	"	1.75	"
"	"	Gas	"	1.27	"

Oct 5 - Lunch S.R.G. 1.29 Eggs 1.0
" - Gas " 2.92
.. - supper. W. 1.48

Pay Coll. Court House
Alameda Co.
Oakland Calif