

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
NOTICE

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Faint handwritten notes at the top of the page.

	38370		23	40232
	<u>387</u>		<u>14</u>	<u>38370</u>
	38757		14	1842
Al mileage	511	-	23	mi
to Jacobs	513 1/2	mi		
138	60	38370	757	39865
	40		370	39757
	100	1172	387	308

Artemia salina
 By William Pilcher Stoddard
 &
Lucania brevipinna
 Biol. Sci. Bull. No. 1
 vol. 14, No. 3, Apr. 1, 1933.
 Cambridge, Mass.

Mileage	38370	leaving
Cross	Sept - 30 -	39760
Oct 1	Mileage	39757
" 2	"	39065
" 4	"	39542

2172 45 - 71
 86 45
 16 stop

~~75~~ 60
~~80~~ 85
 35
 35
 85
 308

665
 .60

 605
 .30

 6.35
 16

 6.19
 5.00

170
 60

 110

1.19 Due from Jack
 1.10

 2.29 306
 1.61 145
 --- 161
 3.90 110

Aug. 8 (Sun)
 at & near St. George, Neb
 Mileage 23788
 Left 8 AM, left 6 PM

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

✓
Aug. 10. Tree
at and near St. George ¹⁸⁷⁸
Mileage 23865
Off 8 AM
Ret. 6 PM

Aug. 11 (W. 27)
at and near St. George
Mileage 23936
Off 7 AM
Ret. 4 PM.

Apr 12 (Thurs)
Left St. George for
Bedwarden 9 AM.
Mileage 23994

Leaves - Riders Feed
Taylor .25
1 lb. roll cotton J.C.
Penny .29

Bedwarden Mt. - covered
in juniper belt,
Juniper guaca - 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 10 P.M.

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. ~~Kennel~~ Fredonia
7 P.M.

Aug. 17 Tue

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

Aug. 18 Wed:

Mileage 24467 - Early morn

" 24494 - Leaving Kavat

for Kawat.

off 2:30 P.M.

reaches Kavat 3:55 P.M.

in alt. 2925
Arr. Flap. 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 "

2172 45 - 76

60
95

Aug. 25

Mileage 25151
Left Tucson 3.30 Am Safford 7.30
Dragon Mts - Rugged
granite in part. at least

Aug. 26

Mileage 25289
Left Safford 9 AM.
Arr 3 PM.
Beloncello Mts - traversed
at 5500 ft. - soil to 6000
ft. *D. emoryi* - possibly
scrub oak - juniper -
pinyon
Top of. Stony lower
Sagebrush mesa on road
delimit to Duncan
Covillea - *Dipod spectabilis*.

Aug. 27

Mileage 25381

Off Jim Denman, 1.56 PM.

Arr. camp in Blue Range 6 PM

Upper Son; Above left

Ariz. cypress

Redwood

Palms

Quercus agrifolia

in Ariz.

Juniper

Quercus agrifolia

Ash

Robinia

Yucca

Populus

Palm park.

Red, Juniper

Aug 27 1900
Jump Creek

Aug. 28
Mileage 25 448
Left camp southeast end of
Blue Ridge 8 A.M.
Arr. 6 P.M.
Geothlypis trichas
Sciurus aberti
Lepus texianus
Robinia
Dryobates villosus
Spizella
Junco oreganus
Colaptes cafer
Callipepla
Sciurus macg.

Aug. 29 (Sun)
In camp

Aug, 30
Mileage 25679
Left Gallup 12:30 AM

2 phy. bird and Puffin
Gallup @ 15 Gallup 30
1 lb. cotton J.L. Agency 29

Left Central Agency 3 PM
Transition Zone - Top, St.
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 (sept)
~~Robinia~~
Quercus gamb.
Lewania stans
Artemisia (in openings 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 PM

Aug 31 At Ganado.
- Mileage 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. An Chino
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.

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 Ginnies
Window Rock, Ariz.

Onychomys. Proctos common in Tuhachukai, etc. of Dr. Paul Phillips.

Sept 3
Mileage 25797
At Chin Lee.

Drove out at 9 A.M. about 10 miles on road to Navajo 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 - latter very
young.
Returned 5 PM.

Sept. 4
Mileage 25823
Out to traps on mesa at
Chim See. 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. Some flowers
in places. Some aquatic veg. in 2

Sept. 5
Mileage 25844
Chin Lee to Deptford, Ariz.
Left Chin Lee 9 A.M.

Arr. 7.30 P.M.

Route via Keam's Canyon and
Drabi

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

Veget. Largely of scattered juniper
and juniper type. At Drabi
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 are

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

Mon. Sept. 6. (Labor Day)
 In Flagstaff.
 Cactus & native.

Sept. 7 (Tue.)
 Miles ~~160~~ 26100
 Flagstaff to Ginko spg.

Left 8 AM, Ret. 5 PM

Myiobon hortensis (Queen)
 Western Grand Forks.

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

Barro Colorado, S.W. Museum,
C.R.

Myiodon barbani (Owen)

Notrochermis ocellata

Both of these birds
order of Frank Sawyer
in late Pleistocene

Sept. 8. In Flag.
Accounts to cases.

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

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

Sept. 10 Fri. at V.P. & vicinity.

Mileage 26368 - off 8 AM - up 6 PM
Callow (on, stretch) weighed
down plant about 4 ft.
high.

Popoq. near Saddle Mt. in
Sancoveap ridge ~~shata~~ dips
toward River. From Tully
Colorado shata dips upward
in wall of canyon.

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

Clarke Interactor - Several
feeding upon on penum net
on edge of Grand Canyon.

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

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 arrived Grand Canyon,
1 PM.

Sept. 14 Tue

Miling 26701

Left Grand Canyon 8 AM.

Arr. Flagstaff 6 P.M.

Take up car.

Entered trail in Transition
Zone near Grand Canyon
Havasupai Creek. - In about
1/2 mi. via Anita.

Near Havasupai Creek; open
grass land heavily mowed
by Russian thistles over-
topped by sheep.

Few Yuccas -
Atriplex canescens (abundant)
Yucca. Limnophyton, Lemnaceae,
Lemnaceae - a few.
Barboursia sp.

Dipodomys - Sonoran
Lepus generally at base?
Atriplex bush.

Sept. 14 Mon.
Duffelberg - Along Willoughby
Brook Canyon following
course of Anita Litchfield.

Sept. 15: Wed.
Mileage 26829
Left Flag, 1230 PM.
Summit w. of Flag, 7400 ft.
Zone - upper Sonoran
Flag on to below Prescott.
Quarry oak below Prescott.
Muskellin near Prescott.

Zone - Center Sonoran
at foot of steep hill below
Yarnell, - including Great
Cactus.
Arr. 6 PM. at Weckerburg

Sept. 16 Thurs.
Mileage 27009
Left Wickenburg 12:30 PM
Arr. Yuma Aug. 7 PM.
Wind 25 - 30 mph a
shad. dist. n. of Fort Verde.
Today - Plant west of
Sentinel partly covered
with shallow lava flows
and ~~lava~~ with ~~lava~~
lava.

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.
Huey. 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 2789 5 AM - 26 PM.
4 AM - 4:30 PM.

Sept. 26 - Oct. 6 - Ab
on leave. ~~leave to 245 PM~~
Oct. 7. Left Inverno 245 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. Retained official
travel at Kingsburg 8:40 PM.

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

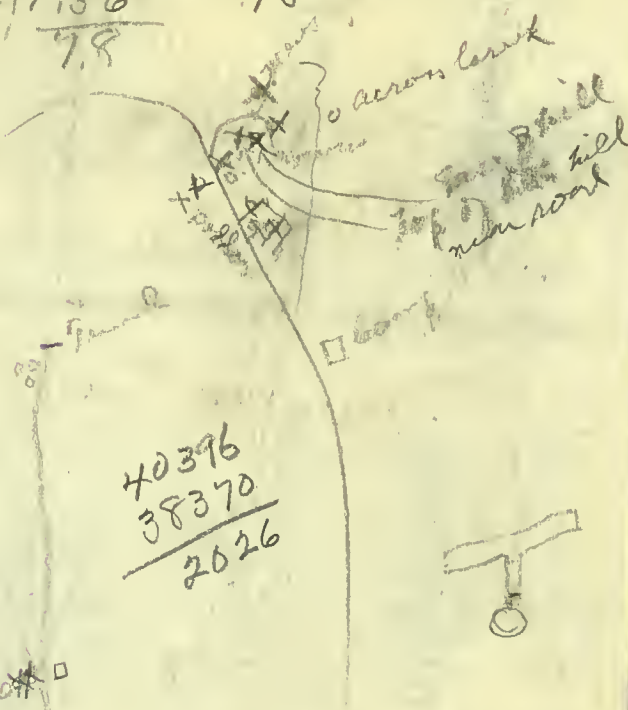
Oct. 20 - 23

Con route Washington
arrived 8,50 a.m. Oct. 23.

1735 ellston way
 Dupont Square in front

1.86
 .30
 211.56
 7.8

10 70
 50
 15



40396
 38370
 2026

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.

Bureau of Biological Survey.

Peromyscus longi navajovinus 11 mi
west of Casa Grande near
Sujato Wash. soft sand &
grass.

Thomomys - R.R. embank, 10 mi
S. of Gila Bend on road to Ajo.

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

Thomomys from Leontobala mts.
In a dike on road from
~~Sells on 5 mi. N.W. Ajo to~~
Sells, 5 mi. N.W. of Sells, Hills
on west side of road.
Camp near White.

They has series from top of Rincon mts
to say well level

Fred Foggergreen
 Ranger at Fish

85
 40
 50
 85
 263
 30

 5.53

~~150.00
 20.00
 220.00~~

26.00
 5.53

 \$ 31.53
 5.00 *Part*

 36.53 *Due*

~~44.53 *at plot*
 42.53 *Sum*
 42.00~~

telosma flat

42.00
 11.70

 30.30

~~100.00
 30.30
 69.70

 69.99~~

0
 0 *call 4-12*
 2
 X *check*

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

Ovis - In New. Ang. coll.
3 rams heads - 2 adult
1 ewe adult & good shape
probably gambelii

Nasals (length) mm. 120

" width " 43

Premaxillae (length) 105



Orest
alfalfa

Oct. 1	—	Lodging Fast	2.50 ^{6.00}
"	"	Break	GR, 1.10 ^{Colts} 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
"	"	Supper v. P.	" 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 ^{fast} 3.00
"	5	Break	" 1.25
"	"	Gas	" 1.27

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

Tax Coll. Court House
Alameda Co.
Oakland Calif