

U. S. DEPARTMENT OF AGRICULTURE.

FORM 15.

FIELD DIARY
AND
TRAVEL RECORD.

Mr. E. A. Goldman

(Official title.)

Period, Sept. 17 to Oct. 12, 1922.

Arizona (Kaibab), Utah.
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8-3681

INSTRUCTIONS.

Every officer or other employee of the Department of Agriculture conducting work while traveling will, so far as practicable, keep a diary in which will be recorded, under an appropriate date entry, a concise statement of all important matters pertaining to such work and also of any general matters that may be of interest to the Department.

This diary will be retained by the official preparing same, but will be subject to call by the administrative officers of the Department at any time.

When this book is filled another may be secured by application to the Chief of your Bureau.

Henry Wallace
Secretary of Agriculture.

8-3651

DATE	STATIONS		R. R.	COUPON NOS.		PULL	SCRIP VALUE	
	From	To		From	To		Dolls.	Cts.
	Regan	9 th						
	St. Louis	10 th						
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	Shannon	12 th						
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MEMO. OF COUPONS DETACHED FROM MILEAGE BOOK NO. _____ FORM _____ S-3651

ITEMS	PLACE	Dolls.	Cts.
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Remained overnight in Ogden.

Sept. 21 - Ogden to Salt Lake City. Left Ogden at 8:45 A.M. (train late) and arrived at Salt Lake about 10 A.M. Spent most of day with our predatory animal inspector Geo. E. Holman in a general discussion of the deer situation and plans for carrying on the work.

Deer. Holman says rutting season begins latter part of November so that plans for an open season should take this fact into account. Season should probably be from Oct. 1st to Nov. 30.

Deer range in summer mainly in the timber on the higher

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parts of the plateau and move down in winter into the sheltered bushes at lower elevations especially along Kanab Creek and House Rock Canyon. Some way across Kanab Creek and main possible route of migration would probably be north along west side of that creek into Utah. Snow said to be deep over plateau in winter.

Lions, Holman claims that few lions are left on the Kaibab plateau and in his opinion few ^{are} are now killed by them. His best lion hunters have not been able to find enough lions to justify their continued hunting there.

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Sept. 22, Salt Lake City to Marysvale. Left Salt Lake City 10.30 A.M. and reached Marysvale about 7.30 P.M.

Sept. 23, Marysvale to Kanab. Left Marysvale about 4 A.M. and reached Kanab about 5 P.M. Route led up Swier River valley and across a divide in Transition Zone into upper end of Virgin Valley, thence across to Kanab on Kanab track. Distance traveled 125 miles.

Mammals. One seen near head of Virgin Riv. on divide.

Sept. 24, Kanab. Remained at Kanab today. A trip was made up the valley about 7 miles to a wet meadow where signs which were taken to be of *Microtus* were seen. It is a place which should

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be worked fairly thoroughly as various species not occurring elsewhere may be expected.

Sept. 25, Kanab to V.T. Park. Left Kanab 10.20 a.m. and reached V.T. Park about 6.30 P.M. distance travelled about 65 miles.

Road led across deserts from Kanab Valley to Johnson Valley and then ascended rather steeply to Kaibab Plateau. Area immediately north of Kaibab in this section not very favorable for the movement of deer, but they might be induced to cross to next forest in small numbers. Latter part of trip was along V.T. or De Motte Park.

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Sept. 25, con.

Sciurus kaibabensis. Two seen in yellow pines - one running along ground. White tail very conspicuous by contrast with rest of body. Said to be confined strictly to yellow pines which are sometimes stunted as are trees by aberte.

Deer. Only a few - about 8 head were seen today, but we reached V.P. Park when they come out in numbers to late.

Sept. 26. V.P. Park to North Canyon and return. Rode out on east side to N. canyon where good views were obtained of Housarack Valley.

Deer. Much evidence of ourping particularly of the area along

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Sept. 26 con.

North Canyon where bushes are closely browsed and many nearly killed. While cattle also range in the area most of this browsing was apparently by deer. Plants browsed were *Symphoricarpos* or snowberry, wild rose (*Rosa rogersii?*), and *Ceanothus fendleri*. Where aspens had fallen down or were leaning they were completely defoliated. This over grazing had taken place during the summer.

Good views were obtained of the lower level country along Houserock Valley - this is a very windy level area through the Marble Canyon of

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Sept. 26 con.

the colorado cuts its way, cedars and junipers upland out some distance over the gradually sloping bottom and in these deer are said to range in winter.

Phalarope - One seen in small water hole - ~~very numerous~~

Sept. 27 - V.P. Park to Deaking Aspen

Packed up and left V.P. Park about 10.20 A.M. crossed ridge to west of Park and descended a long canyon to Deaking Aspen Spring, which was reached about 1 P.M.

Several deer were seen, and one fawn had recently been killed and torn up probably by coyotes.

Shortly before reaching camp

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Miscellaneous:			

Sept. 27 con
 we met Hal G. Lewis and party which had been out lion hunting, and had a very satisfactory general discussion of game conservation matters with him. We were pleased to find that he is in agreement with us in regard to general policies.

Rain in afternoon prevented us from getting out, although it was not heavy. Weather was very threatening or drizzling at intervals.

Sept. 28. Trip south and west to side canyons of Shinnel Creek and back to Snaking Aspen camp.
 Route today was over many

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Sept. 28 con.

points and across small
 canyons to rim of plateau on
 Grand Canyon National Park where
 we had good views into Grand
 Canyon in the vicinity of the
 mouth of Shinnos Creek.

Deer. No large numbers were
 seen but deer were noted in
 a number of places. Much
 evidence of injury to shrubs
 and trees browsed were seen.
 These were principally the
 white fir which is much
 browsed in places where
 Douglas fir and yellow pine
 are untouched. Robins
monixiana, wild rose, and
Ceanothus fendleri also
 browsed. No evidence has
 been noted that deer which

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Sept. 28 con.

Buteo 7. calurus. One seen flying.
~~last~~ ~~aura~~ ~~off~~ ~~sept.~~ One seen
 yesterday feeding up a carcass
 of a fawn that had been killed,
 presumably by coyotes in the
 bottom of a canyon among
 pinyons and spruces.

Junco (rebarbed). Several small
 flocks were seen ^{in mixed timber} on plateau.

Sialia mexicana. Several
 were seen among ^{mixed} yellow pines
 and spruces on plateau.

Sialia arctica. Numbers were
 noted yesterday in De Motte
 Park.

Colaptes c. collaris. Common
 on plateau.

Sitta c. nelsoni. One noted
 on yellow pine on plateau.

Sitta pygmaea. Several flocks

ITEMS		PLACE	Dolls.	Cts.
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Miscellaneous				

Sept. 25 con.

seen among yellow pines. calling
Glaucoedon grona. One heard
 near camp about 4 A.M.

Leyanocitta alberta. Several seen
 among spruce near camp.

Sheep (domestic). Slightly less
 than 3000 head are grazing
 on forest this year. Supervisor
 says these sheep may not be
 watered often than about
 4 times during the summer
 season.

Wild horses. Rook estimates
 that there are 1000 head of
 wild horses on the forest. These have
 come to roam largely in family
 groups - a stallion, a mare and
 a colt.

Cattle. Number on forest this
 season about 6500.

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Sept. 29 - Making Aspin to Powell Plateau and return. Camp along, one heard close to camp where a little water was running for a short distance down the canyon.

Rode across to Powell Plateau Sept. 30 - Making via Aspin to Big Saddle, Powell saddle which dips down to about 6500 ft. and in which considerable Upper Sonoran vegetation appears. It is Transition however on the whole.

Powell Plateau consists of a high rim along the southern side from which small canyons head and cut down rather gradually toward the north. The plateau is evidently heavily overgrazed by horses which have

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Sept 29 con.

razed there for many years. Most of the grass on the top appeared to have been killed out.

Deer (Powell Plateau) a few were seen and numerous fresh tracks noted, but shrubs and trees were not apparently overgrazed as on the main Karbob. *Leucostictus funderi* had been browsed in places presumably by deer. Just below the rim of the plateau there is a heavy growth of Upper Sonoran brush which doubtless affords much forage for deer.

Sciurus karobensis. 2 seen on Powell Plateau.

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Miscellaneous:			

Sept. 20 - Quaking Aspen
to Big Saddle.
Deer. This morning a doe and
fawn came within 75 yds. of
where we were sitting in
camp and began to feed
upon the leaves of aspens
that had been cut. The fawn
and doe were both observed
feeding upon the leaves.

Left Quaking Aspen and
reached Big Saddle about 2.15
P.M. From this point we can
look south and see Powell Saddle.

Deer. About thirty were seen
today in little groups. 5 were
seen just above cross-bedded
sandstone in canyon near Big
Saddle.

Wild horses. It seems even
that wild horses do considerable
damage in late winter especially

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Sept. 30 con.

to young yellow pines many of which are lopped and stunted by them. Ben Swopp, Forest Ranger who has been here a long time says that in Feb. & Mar. of this last spring he was here and shot two horses to see just what they were feeding upon and found their stomachs filled with pine leaves. They feed largely on south slopes which become bare of snow and soon coming up the little grass there is on the point attack the yellow pines.

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Oct. 1 Big Saddle to Little Saddle and adjacent points and back to same camp.

Left Big Saddle camp and rode out of yellow pine timber descending gradually most of way to Little Saddle a point on the rim in Upper Sonoran zone where a trail goes down to plateau and a fine view was obtained across Grand Canyon. The inner plateau at this point is ~~at a~~ located at a much higher elevation than at El Tovar in fact it is not far below the cross-bedded sand. The inner gorge is therefore much deeper. This plateau is thinly covered over the higher parts by pinyon and juniper. ^{Darker} Just below the saddle a trail runs

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Oct. 1 con.

along the upper edge of the cross-bedded sand in which a few deer tracks were seen, and it was evident that most of the deer were above this level. A considerable number are now ranging down below the yellow pines into the upper Sonoran bush, especially where tongues of oak *Q. mexicana* extend down and are now just beginning to drop a heavy crop of acorns. About 30 deer were seen today in four or five places, the largest bunch numbering about 12. Shed horns were noted several times today among the lower pines and ~~also~~ also in junipers and piñons. Most of the deer seen were does and fawns. No large bucks. The area visited today

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Oct. 1 con.

had been heavily browsed "Jack
 Bush" (*Crowonia stansburiana*). This
 however had put out new shoots
 many of which had grown to over a foot
 in length.

Bubo. One heard last night.

Hlaucodini group. Shortly before
 daylight this morning one of these
 near camp gave a series of
 short, rapid, rattling notes, followed
 by the usual ~~two~~ special notes.

Aphelocoma wood. Common
 among oaks just below lower
 edge of pines.

Cyanocitta stelleri. A few
 seen among yellow pines and
 even among oaks below yellow
 where they are probably feeding
 upon acorns.

Accipiter cooperi. One found dead
 at Duquoin Apr.

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Oct. 2 - Big Saddle to
 V.P. Park. - distance about 20 miles.
 Left Big Saddle 9 a.m. stopped
 for luncheon near Dry Park with
 F.S. party building telephone lines. Then
 returned on to Park where we arrived
 about 4:30 P.M. In evening observations
 were made of deer in Park.
 Deer. About 80 were seen ~~in~~
~~in~~ a few in a place at short
 intervals along route today. Some
 were seen out feeding ^{in grass} in Parks
 as early as 3 P.M. About 200 were
 out in V.P. Park during evening.
 The bucks appear to come out
 rather late. Attempts were made
 to secure pictures but light too
 poor.
Sciurus kaibabensis. One seen on
 ground today.

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Oct. 3 - V.T. Park to
 South Canyon ^{Boyer Sta} ~~Return~~ - about 48 mi.
 Folio open. - Two seen hovering in
 open park near camp.

Sialia arctica. Numbers seen, largely
 or hovering on ground in open park.

Flight feathers have turned
 most of the aspen bright yellow
 and the leaves are beginning to
 fall rapidly.

Corvus c. sin. Four seen flying
 over meadow.

Forenoon was devoted to
 building a blind for photographing
 deer in V.T. Park. Left at 2.20
 P.M. and travelled south along
 main road for a few miles and
 then turned eastward and after
 crossing a number of low ridges
 and little parks entered the head
 of South Canyon down which the

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Oct. 4. Horseshoe Valley
 South Canyon R.S. to Lane,
 Left South Canyon about 8:30 a.m.
 and rode southerly to Saddle
 Canyon, then turned northeasterly
 to rim of Marble Canyon and
 then direct to Lane. Today distance
 probably at least 30 miles.

Route was through pinyons,
 junipers and some buck brush ^{conifers}
 to rim of Saddle Canyon, and through
 this growth gradually disappearing
 as we neared Marble Canyon. Most
 of the Horseshoe Valley is however
 open sage brush country.

Deer. A few fresh tracks were
 seen as far out as the rim
 of South Canyon in its lower
 part of its course. Deer evidently
 range in winter throughout the

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Oct. 4, em

area upon which lowania grows and even out into much of the sage brush country. This is shown by old droppings and shed horns. At this season, however, deer are evidently not abundant in the lower country.

Aegialitis vary. Several seen near reservoir at Leane.

Phalarope. Several seen on reservoir at Leane.

Leane is a stone ranch house, the headquarters of the ~~Big~~ Grand Canyon battle les.

South Canyon. This section is a poor forage producing area, having been overgrazed for some time by horses which have now been removed.

Saddle Canyon. South of this

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Oct. 4 con.
 a rather
 there is ~~an~~ area rather rough
 in character, covered with
 much brush extending from the
 top of the mountain down to the
 canyon. This area is rather
 inaccessible and, including as it
 does much oak brush country,
 should be a favorable one for
 deer.

Forest. One jackrabbit seen and
 photo. in Housrock Valley not far
 from leave.

Oct. 5. Leave Housrock
 Valley to N.P. Park (DeMotte). 18 mi
 Left ^{8:15 AM} leave and reached the Park
 about 1:30 P.M. Trail ascended
 rapidly a limestone slope to
 the top of what is known as the
 Little Mountain. While the
 climb is fairly steep it is not

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Oct. 5 con.

precipitous the slope ascended ^{evidently} being ~~apparently~~ a part of the area in this section where the stratified rocks had down and merge into Haverack Valley instead of forming horizontal layers becoming precipitous where eroded.

Plumstones in prop. One seen at South Canyon ^{characteristic} morning uttered a few short notes which revealed its presence in a juniper tree along the wash.

Deer. About 8 head were seen in riding through the forest ~~from~~ between the Little Mountain and the road. A number of shed horns were seen showing that the general area including the so-called Little Mountain is

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Porter Sleeper			
..... Parlor car			
Depot porter Arrival			
..... Departure			
Hotel porter Arrival			
..... Departure			
Checking baggage pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			

Oct. 5 am.

largely winter range. Route led through Pleasant Valley an open grassy park on the main road north of De Motte Park. This showed little signs of utilization by deer for no apparent reason, except perhaps that it is rather dryer than De Motte Park.

Oct. 6 - N.P. Park to Big Springs - 22 miles.

Left N.P. Park about 9.30 a.m. and stopped for lunch at Linnin's camp about noon.

Deer, one seen today was still in the red pelage and in marked contrast to the dark colored fawn that accompanied her. attempts were made to secure photos of deer in the Park last

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter } Sleeper			
} Parlor car			
Depot porter } Arrival			
} Departure			
Hotel porter } Arrival			
} Departure			
Checking baggage - pcs.			
Baggage transfer - pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Oct. 6 con.

night. This morning about a dozen large ^{including some} bucks were feeding at sunrise within 100 yds. of our camp, but moved into the timber when attempts to secure photos at shorter range were made. Some of the fawns were observed attempting to suck, but ~~the~~ they avoided them by walking and sometimes brushed them aside by a slight movement of a hind leg. Flight fleeing noises given by fawns were heard last night. The fondness of deer for green aspen leaves is shown by the stripping of a tree I cut along the edge of V.I. Park and by reports of the telephone lineman that deer follow up up closely to feed upon the aspens felled by them, although

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
Depot porter { Parlor car			
Hotel porter { Arrival			
Checking baggage pes.			
Baggage transfer pes.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Oct. 6 con.

the leaves are most of them
now yellow and dropping rapidly.

~~Oct. 7. - V.T. Park to Big
Springs - 23 mi.~~

Left the Park about 9:30 am
and stopped for lunch with
party working on phone line
arrived at Big Springs shortly
before sunset in evening.

Deer - About 43 were seen
along road today in little
scattered groups mostly does
and fawns sometimes a doe
and a fawn or two alone.
And several times one or
two bucks by themselves were
seen. As a rule they were
not very shy and simply
moved off a short distance.

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
{ Departure			
Hotel porter { Arrival			
{ Departure			
Checking baggage pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Exp. to con.

Myadestes townsendi. Several were seen today flying making short flights among the lower limbs of trees in the Trematone zone.

Oct. 7. Big Springs to point west in the upper Sonoran winter range of deer and return to Big Springs. Trip today was through winter ranges.

Deer. Abundant now in vicinity of Big Springs were the come close about the ranger station and jumping through a close wire fence have fed off the tops of potatoes and other vegetation protected from domestic stock. Today as we passed along

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
{ Departure			
Hotel porter { Arrival			
{ Departure			
Checking baggage - pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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the road we came to a place where a spike buck was feeding in the field. He paid no attention to us until we were within 50 yds. when he looked up and then dropped his head and began feeding again.

Def. 8: Big Springs.
Remained at Big Spgs. preparing report and in afternoon traps were set about springs for shrews and Microtus.

Was joined by Scott R. Dunham in afternoon. He is a predatory animal hunter who is to go with me on trip through northwestern part of state.

Oct. 9. Big Springs to
Ryan. - 10 miles

Dunham, Locke and I left
Big Spgs. about 3 P.M. and
reached Ryan about 4 P.M. Traps
were set at this point, which
is in the prairie and juniper
belt.

Oct. 10. Ryan ^{avg.} to Kanab,
Utah.

Left Ryan about 11.30 A.M. and
reached Kanab about 2 P.M.

Oct. 11. Kanab to Kanab
Wash, southern boundary Kaibab
Ind. Res. Left Kanab about 2
P.M. having completed report
in ~~coop~~ collaboration with
Locke and Rook. Reached Wash

Oct. 12 con.

Some very rough road was covered today. Camp was made near some limestone ledges about 2 miles from the edge of the ledge.

Flammoph. leucurus. Several were seen today about limestone ledges on the plateau ^{about 5} ~~a few~~ miles east of Hurricane Lodge, 6 miles north of Mt. Trumbull.

Oct. 11 con.

at point mentioned about 4 P.M. and set traps in ^{loots} sandy of reddish color.

Oct. 12 - Hauled wash to Hurricane Lodge, about 6 mi. north of Mt. Trumbull. Left Wash about 11 A.M. and stopped for night at some sandstone ledges near the ledge in area where old lava beds are the rule. Soil at this point, however, reddish sandy.

Route today over Airbank Plateau, the soil largely reddish sandy, but lava bed in places. Edges of lava beds form low, broken ledges favorable for occupation by rats.
(above)

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1-4 Deer at V.F. Park, Oct. 6

5- Burrow of *Dipodomys m. lewisi*?

~~Two mile run - near Kanab~~
Wash, 32-1 mi - 8 a.m. Oct. 12

A slightly elevated mound at
base of *Sutroia* bushes, with
13 entrances - No large accumulations
of dirt before holes.

6- Hurricane Lodge from Hus, Desch.
32-2. - 12 m. Oct. 14

Copied

Hal. G. Everts
Hutchinson, Kas.
