

Field Notes

W.B. Davis

1933

All specimens listed herein, unless otherwise stated, are in the collection of the Museum of Vertebrate Zoology, Berkeley, California.

FIELD NOTES

1. 1. 1911

1911

All specimens listed herein, unless  
otherwise stated, are in the collection  
of the Museum of Vertebrate Zoology,  
University of California.



1.  
W. B. Davis, Ash Meadows, 2.5 mi. W Devils  
Hole, 2173 ft., Nye Co., Nevada.

May 16, 1933.

Ward Russell and I left

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Field Notes  
and  
Catalog

W. B. Davis

Numbers

56-877

*W-14-M*  
*70*

1933 - 1934

WBD

Special Instructions: *Birds is*  
*Do not trim outside*  
*margins S.H.C.*

the jolting of the truck, I  
rested.

12:10 Left Santa Cruz.

1:00 Saw a colony of Bank  
Swallows and their burrows  
in a sand bank along the

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Handwritten or stamped text, possibly a date or signature, located in the lower right corner of the page. The text is partially obscured and difficult to read.

1.

W. B. Davis, Ash Meadows, 2.5 mi. W Devils  
Hole, 2173 ft., Nye Co., Nevada.

May 16, 1933.

Ward Russell and I left  
Berkeley, Calif. May 15, 1933 at 8:15  
A.M.

9:05 Red-shafted Flicker dead in the  
road. Passed through Centerville  
at 9:10, 29 mi. S of Berkeley.

House Finch common 30+

Brewer Blackbird 8

9:20 Bicolored Redwing 2

10:25 In the Redwoods now and  
headed for Santa Cruz. Have  
travelled 81 miles. Saw in the  
Redwoods Pb. Pinos Juncos,  
Cliff Swallow, Western Bluebird,  
one each. Heard warblers,  
but could not determine  
species.

11:00 Arrived at Ward's folk's  
place. Ward ate dinner here,  
but since I had developed  
abdominal pains due to  
the jolting of the truck, I  
rested.

12:00 Left Santa Cruz.

1:00 Saw a colony of Bank  
Swallows and their burrows  
in a sand bank along the

11  
The following is a list of the names of the persons who have been elected to the office of Justice of the Peace for the year 1900.

Wm. H. ...  
John ...  
George ...

A. H. ...  
J. B. ...  
C. D. ...

at 11:00 ...  
The ...  
The ...

Wm. H. ...  
John ...  
George ...

A. H. ...  
J. B. ...  
C. D. ...

at 11:00 ...  
The ...  
The ...

Wm. H. ...  
John ...  
George ...

A. H. ...  
J. B. ...  
C. D. ...

at 11:00 ...  
The ...  
The ...

W.B. Davis Ash Meadows, 2.5 mi. W of  
Devil's Hole, 2173 ft., Nye Co.,  
Nevada,  
May 16, 1933.

1:35 Arrived at Hollister, 128 mi.  
from Berkeley. Took on 15 gals.  
of gasoline.

13 mi. N of Hollister on Pacheco  
Pass Highway saw six Yellow  
Billed Magpies

- Ground Squirrel (beecheyi) 10+
- Arkansas Kingbird 2
- 17 mi. N Hollister - Buzzard 1.
- Western Crow 1.
- Western Meadowlark 1.

Had opportunity to check the  
speed of Meadowlark in flight  
One kept abreast of car for about  
200 yds. at 45 m.p.h. There  
was a moderate tail wind.

Some of the Meadowlarks  
were carrying food in their  
beaks; probably for young.

2:40 California Shrike 10+

These were common on the  
fences and telephone wires.  
Saw a flock of 8 Brewer Blackbirds  
following a plow and pick-  
ing up food.

Barn Swallow 1.

1850  
Page 10

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W.B. Davis

Ash Meadows, 2.5 mi. w Devil's<sup>3</sup>  
Hole, 2173 ft., Nye Co., Nevada.

May 16, 1933.

2:47 Arrived at Las Baños.

Have travelled 173 miles.

Between Las Baños and the  
main highway to Fresno I  
saw the following:

Cliff Swallow	30+
California Shrike	5
Killdeer	6
Aracet	1
Coot	11
Burrowing Owl	10
Fern sp?	1
Redwing Blackbird	30+
Mourning Dove	3
Brewer Blackbird	5
Arkansas Kingbird	21

Several of these Kingbirds  
were in pairs and frequently  
were seen on the fence and  
telephone wires.

Western Meadowlark 12,  
One meadowlark had been  
killed by a car on the road.

Hoaned Lark subsp? 5  
These were first noted 20 mi.  
E of Las Baños.  
Lark Sparrow 1.

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Vertical column of numbers on the left side of the page, likely serving as a list index or page numbering.



4.

W.B. Davis. Ash Meadows, 2.5 mi. W Devil's  
Hole, 2173 ft., Nye Co., Nevada.

May 16, 1933.

Jack Rabbit (*L. californicus*) 2  
*Citellus beecheyi* sub? 30+

Ground squirrels were very common about 20 mi. E of Las Vegas. Counted 10 that had been killed by automobiles.

3:30 Ground Squirrels were feeding on green vegetation. This is done in most cases by the animal when sitting in an upright position on the hind legs; the front paws holding the food. In many instances the squirrels were noted on all fours, the tail arched over the back, in search of food. Several were seen sitting on the tops of fence posts and paid no heed to passing cars. They appear to be ranging quite a distance from their burrows in their feeding activities.

Many young of the year were noted.

3:40 Met the main highway 33 miles north of Fresno. Have travelled 211 miles.

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W. B. Davis

5.

Ash Meadows, 2.5 mi. W Devils  
Hole, 2173 ft., Nye Co., Nevada,

May 16, 1933.

3:55. Arrived at Madera, 222 mi.  
from Berkeley. Bought our  
groceries here. Left at 5:45.

6:45 Left Fresno after having  
eaten supper. Sun was down,  
but still light; few clouds in  
the sky; west wind.

7:00 1 Mourning Dove

7:22. 2 Nighthawk just south  
of Selma.

9:45 Stopped for the night  
at an auto camp two miles  
N. of Bakersfield. Travelled 354  
mi. today.

Tuesday, May 16. Left camp at 6:10  
A.M. 6:20 Bakersfield. Took on  
17 gals. of gas in main tank, 5  
gals. in a can, 1 gal. of oil and 20  
gals. of water. Averaged  $13\frac{1}{3}$  m.p.gal.  
on the last tank of gas.

7:00 A.M. Left Bakersfield after  
having eaten breakfast. In  
the next 20 minutes I saw  
the following:

Brewer Blackbird 1,

Western Meadowlark 3.

Dear Mother  
I received your letter of the 10th and was  
glad to hear from you. I am well and  
hope these few lines will find you the same.

I have not much news to write at present.  
The weather here is very hot and dry.  
I have been out for a walk every day  
and try to keep cool. I have also  
been reading some of the books you  
sent me. They are very interesting.  
I have also been thinking of you  
and wondering how you are getting on.  
I hope you are all well and happy.  
I will write again soon.

Yours affectionately,  
John  
P.S. I have not time to write  
much more at present. I must close  
for this time. I will write again  
soon. I love you all very much.  
I hope you will write to me soon.  
I will be waiting for your letter.

W. B. Davis

Ash Meadows, 2.5 mi. W, Devil's  
Hole, 2173 ft., Nye Co., Nevada,

6.

May 16, 1933.

Valley Quail	2
Mourning Dove	17
House Finch	7
Mockingbird	2
California Shrike	10
Bullock Oriole	2
Horned Lark subsp?	30+
<u>Citellus beecheyi</u>	15+

7100 16 mi. E Bakerfield, Dry  
desert country, lots of scattered  
greasewood, cactus, and  
desert flowers. During the  
next 35 minutes I saw the  
following:

Turkey Vulture	2
Thrasher sp?	1
Arkansas Kingbird	6
Western Crow	2
West. Lark Sparrow	2
Road Runner	1
Burrowing Owl	1
Western Red-tail	2

These two birds were playing  
on the upward air currents  
near the crest of the hills.

Rock Wren	1.
Sparrow Hawk	2.



W.B. Davis

Ash Meadows, 2.5 mi. W. Devils  
Hole, 2173 ft., Nye Co., Nevada.

7.

May 16, 1933. Reached an elevation where numerous oaks were growing at 7:55. Saw our first snow at close range, about 3 mi. to the south of the highway. In the next forty minutes I saw the following:

Western Crow	1.
Phainopepla	2.
Turkey Vulture	7.
Bullack Oriole	4.
Mountain Bluebird	3.
Western Tanager	1.
California Jay	1.
Western Gnatcatcher	1.
Rock Wren	1.
Brewer Blackbird	2.

8:35 Tehachapi. Ward got shells here for his 30 06. Between here and Mojave I saw;

Western Tanager	1.
Raven	9.
Bullack Oriole	1.

9:35. Mojave. Saw a collection of mounted birds and mammals in a confectionery store here. Several good specimens. Between here and Barstow I saw;

1870

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8,

W.B. Davis Ash Meadows, 2.5 mi. w Devils  
Hole, 2173 ft., Nye Co., Nevada.

May 16, 1933.

Horned Lark subsp?	30+
Turkey Vulture	2
Arkansas Kingbird	2
Mourning Dove	1
California Shrike	1
<u>Ammospermophilus</u>	1
Lepus sp?	11.

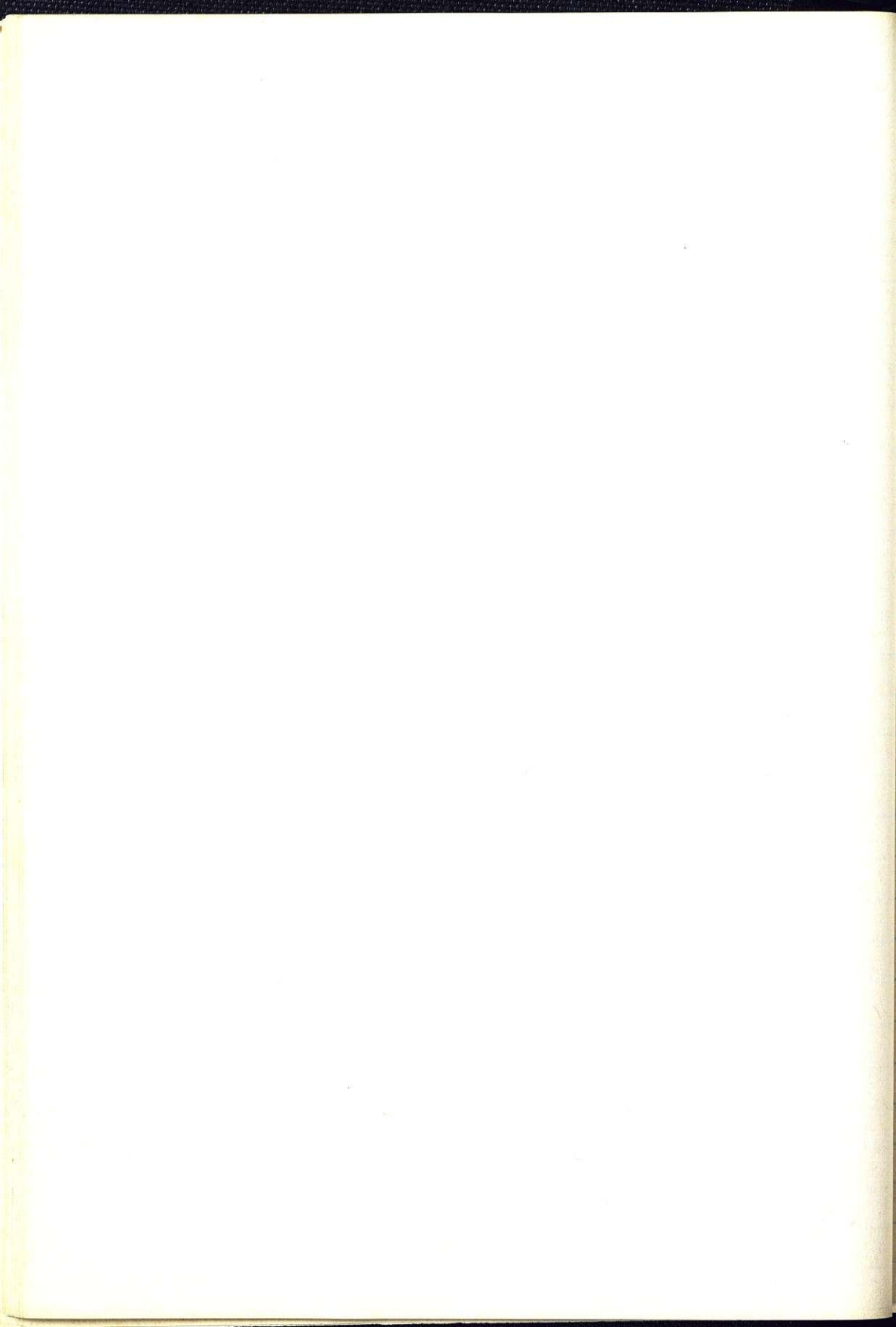
All of these rabbits had been killed by automobiles and were lying on the highway, a strong SW wind has been blowing all day. The sky was cloudless.

11:25. Arrived at Barstow, a division point on the Santa Fe R. R. lying on the S. bank of the Mojave River. Between here and Baker I saw:

Turkey Vulture	7.
Horned Lark sp?	3.
Raven	2.

37 mi. E. Barstow, San Bernardino County, California, May 16, 1933.

56. Grid-iron Lizard.



W.B. Davis

Ash Meadows, 2.5 mi. W Devil's <sup>9.</sup>  
Hole, 2173 ft., Nye Co., Nevada.

May 16, 1933.

2:00 P.M. Left Baker and headed  
for Death Valley junction. The  
area through which we are  
travelling is still desert, much  
lava and sand being prominent.  
The only vegetation is dried  
greasewood. Bird life is  
scarce, the following being  
noted between these two places;

Horned Lark	2.
Mourning Dove	3.
Western Tanager	1.
Arkansas Kingbird	1.

We found an old Raven's nest  
in a clay bank, 2 ft. from the  
top and 20 ft. above the road,  
near Tecopa, Inyo Co., Calif.  
6:15 Reached the old "Watkins  
Ranch", now owned by a Los  
Angeles concern and managed  
by "Tex" McCall, and have placed  
this locality as above. Ash Meadows  
is an alluvial plain containing  
numerous springs that arise from  
the valley floor and flow westward.  
Some of these are warm and Big  
Springs is the swimming hole for

1847  
Sept 10, 1847

My dear Mother  
I received your kind letter  
of the 10th and was glad  
to hear from you and  
to hear that you were  
all well. I am well  
at present and hope  
these few lines will  
find you all the same.  
I have not much news  
to write at present.  
The weather here is  
very pleasant at  
present. I have not  
heard from you for  
some time. I hope  
you are all well.  
I have not much news  
to write at present.  
The weather here is  
very pleasant at  
present. I have not  
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you are all well.  
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Ash Meadows, 2.5 mi. W Devils Hole, 2173 ft., Nye Co., Nevada  
W. B. Davis

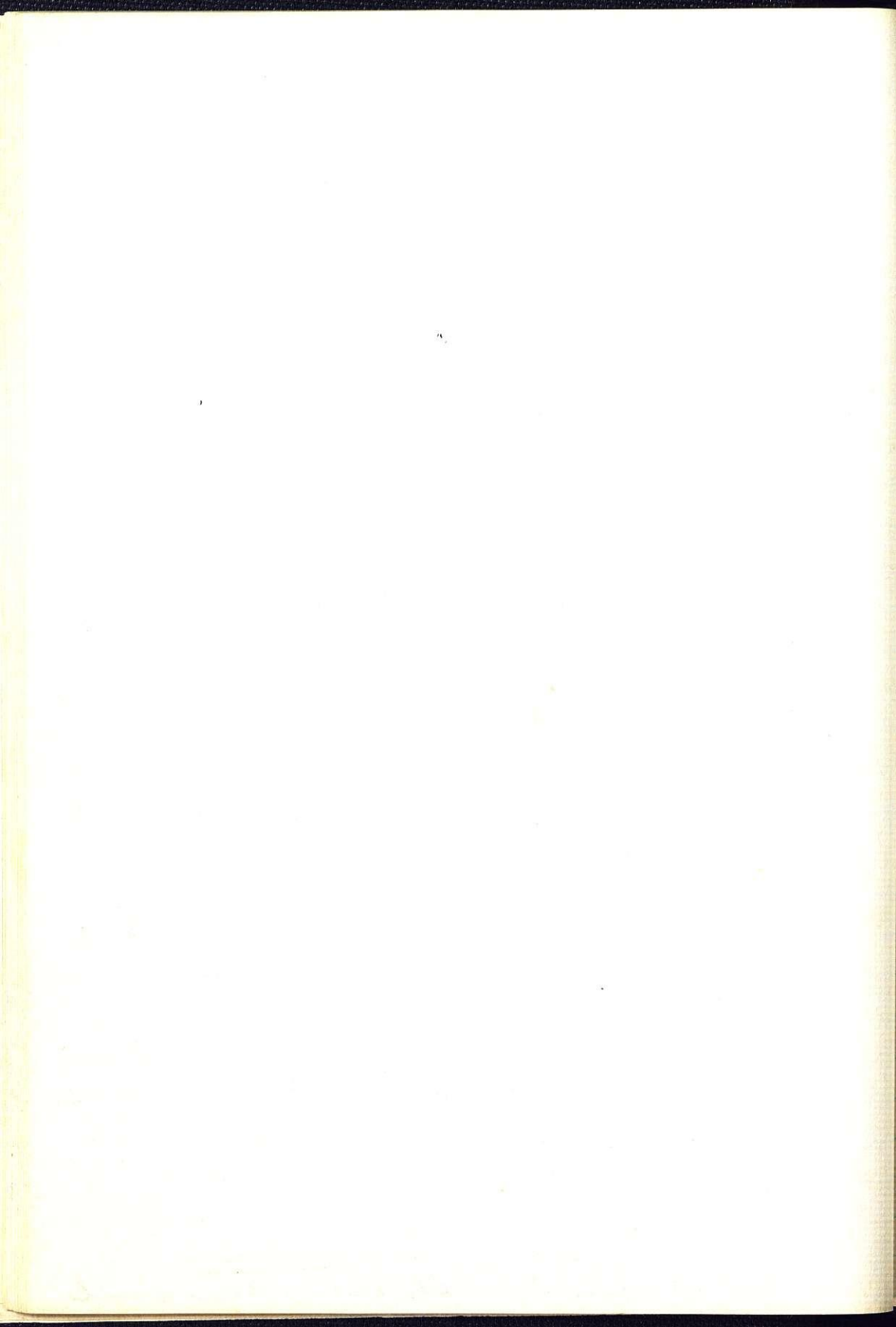
May 16, 1933.

the inhabitants of the valley. The soil is a sandy-clay loam with numerous beds of pure clay, some of which have been worked and marketed in the past. The vegetation is of two types; (1) aquatic and semi-aquatic, such as cat-tails, reeds, salt grass, willows and cottonwoods, and (2) xerophytic, such as mesquite, both "bean" and "screw" (native names), and greasewood, with occasionally spots of sage.

The ranches are located around these springs and streams, the little seems to be done in the way of farming.

We made camp as guests of Mr. McCall, and decided to use this as our base camp while here.

Went out this P. M. and set 30 mouse traps in the tall grass along the stream E of the house. Found no runways nor "sign" of Microtus. Set two traps in likely looking places for Dipodomys in sand about 20 ft. from the creek.



W. B. Davis

Ash Meadows, 2.5 mi. W Devil's Hole, 2173 ft., Nye Co., Nevada,

11.

May 17, 1933.

Got up at 5:00 A.M. to look at my traps. No Microtus! Caught one Dipodomys. Took the following birds:

57♀	<sup>Wright's</sup> Hammond Flycatcher	wt. 11.6 gr.
58♂	West. Wood Pewee or	13.3 "
59♂	Bullock Oriole or	30.7 "
60♀	Lincoln Sparrow or	15.1 "
61♂	Brewer Sparrow or	11.7 "
62♀	Yellow throat	10.5 "
63♀	Antrozous 110-39-10-34 T.H.	15.5 15.5 "
64♀	" 111-41-10-33 "	15.0 12.7 "
65♀	" 111-44-10-34 "	17.0 13.5 "

The above three bats were found roosting in a hole in a cottonwood tree about 15' from the ground. There were five in the cavity but two escaped.

Saw the following birds today:

1. Arkansas Kingbird 4
2. Bullock Oriole 8.
3. Yellow throat 6.
4. Pileolated warbler 1.
5. Song Sparrow sub? 1.
6. Redwing Blackbird sub? 30+

10. B. Davis  
 The following is a list of the  
 names of the persons who  
 were present at the meeting  
 held on the 15th of June 1874.

200	Wm. H. Davis	10.15
210	J. B. Davis	10.15
220	Wm. H. Davis	10.15
230	J. B. Davis	10.15
240	Wm. H. Davis	10.15
250	J. B. Davis	10.15
260	Wm. H. Davis	10.15
270	J. B. Davis	10.15
280	Wm. H. Davis	10.15
290	J. B. Davis	10.15
300	Wm. H. Davis	10.15
310	J. B. Davis	10.15
320	Wm. H. Davis	10.15
330	J. B. Davis	10.15
340	Wm. H. Davis	10.15
350	J. B. Davis	10.15
360	Wm. H. Davis	10.15
370	J. B. Davis	10.15
380	Wm. H. Davis	10.15
390	J. B. Davis	10.15
400	Wm. H. Davis	10.15

The above is a list of the names of the persons who were present at the meeting held on the 15th of June 1874. The names are arranged in alphabetical order.

The following is a list of the names of the persons who were present at the meeting held on the 15th of June 1874.

The names are arranged in alphabetical order.



W.B. Davis, Ash Meadows, 2.5 mi. W Devil's  
Hole, 2173 ft., Nye Co., Nevada,

12.

May 17, 1933.

- |                                   |     |
|-----------------------------------|-----|
| 7. Bittern                        | 1.  |
| 8 Black-necked Stilt              | 1.  |
| 9. Cinnamon Teal                  | 8.  |
| 10. Mudhen                        | 6.  |
| 11. Rough-winged Swallow          | 30+ |
| 12. Tree Swallow                  | 2.  |
| Ward took the above two swallows. |     |
| 13. Cliff Swallow                 | 1.  |
| 14. Texas Nighthawk               | 4.  |
| 15. Mourning Dove                 | 4.  |
| 16. Brewer Sparrow                | 1.  |

Found six nests today in Mesquite that were built on the plan of a Marsh Wren's nest, but out of mesquite twigs and lined with feathers. No birds were near any of them. I think they must be Verdins.

Gene Nelson, brother-in-law of Mr. Call's, told us today he saw a Vermillion Flycatcher.

The wind has been blowing hard all day. Set out 40 mouse traps for Microtus along the stream in likely looking places. Found no runs or "sign", though.

The following is a list of  
 the names of the persons  
 who were present at the  
 meeting held on the  
 1st day of January 1870  
 at the residence of  
 Mr. J. W. Smith  
 in the town of  
 New York  
 at 10 o'clock  
 A. M.  
 The names of the  
 persons present were  
 as follows:

J. W. Smith  
 J. B. Jones  
 J. C. Brown  
 J. D. White  
 J. E. Green  
 J. F. Black  
 J. G. Gray  
 J. H. Blue  
 J. I. Red  
 J. K. Yellow  
 J. L. Purple  
 J. M. Orange  
 J. N. Pink  
 J. O. Brown  
 J. P. White  
 J. Q. Green  
 J. R. Black  
 J. S. Gray  
 J. T. Blue  
 J. U. Red  
 J. V. Yellow  
 J. W. Purple  
 J. X. Orange  
 J. Y. Pink  
 J. Z. Brown

W. B. Davis

Ash Meadows, 2.5 mi. W Devil's  
Hole, 2173 ft., Nye Co., Nevada,

13.

May 18, 1933.

Looked at the traps this A.M.  
but caught nothing. Left about  
half the traps set.

Last night Ward and I tried  
catching Antrozous with my  
butterfly net. This was about 10:30.  
They were numerous and flying  
low under the cottonwood trees.  
The wind was blowing quite a  
breeze. Often the bats would  
alight and hang in small  
bunches on the bole of the  
trees. Ward killed 7 with two  
shots from his revolver, using  
#12 shot. I caught one with  
the net after it had come to  
rest on the trunk of a tree.

66♀	Antrozous	2 small embryos, 117-44-10-31 Tr.	14.0	wt. 12.4 gr.
67♂	Yellow throat	(Skeleton)		
68♀	Rough winged Swallow	skel only	14.6	"
69♀	"	"	16.4	"
70♀	"	"	16.0	"
71♂	Vermillion Flycatcher	ov	12.2	"
72♂	"	ovaries 17mm.	13.2	

These two flycatchers were in a  
large willow tree near the house.

10  
The following is a list of the names of the persons who have been admitted to the membership of the Society since the last meeting.

May 10, 1858  
The names of the persons who have been admitted to the membership of the Society since the last meeting are as follows:  
1. Mr. John Smith  
2. Mr. James Brown  
3. Mr. William Jones  
4. Mr. Robert Taylor  
5. Mr. George White  
6. Mr. Charles Black  
7. Mr. Thomas Green  
8. Mr. Henry Hill  
9. Mr. Richard King  
10. Mr. Benjamin Lee  
11. Mr. Samuel Miller  
12. Mr. Daniel Moore  
13. Mr. Joseph Parker  
14. Mr. John Quinn  
15. Mr. Peter Reed  
16. Mr. Henry Stewart  
17. Mr. George Turner  
18. Mr. William Walker  
19. Mr. James Young  
20. Mr. Robert Zane

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1899  
1900

W.B. Davis

Ash Meadows, 2.5 mi. W Devil's  
Hole, 2173 ft., Nye Co., Nevada.

141

May 18, 1933. (Continued).

They were quite tame. Ward  
saw one yesterday, but failed  
to get it.At 4:00 P.M. we drove three miles  
north to Mr. Calli's other ranch  
and looked for MicrotusAsh Meadows, 4.8 mi. NW Devil's  
Hole, 2200 ft., Nye Co., Nevada.May 18, 1933.

73♀	Western Lark Sparrow <sup>ovaries 1 mm.</sup>	wt. 23.7 gr.
74♀	<sup>(Wright)</sup> Hammond Flycatcher	10.7 "
75♀	Yellow Warbler α	10.8 "
76♂	Pileolated warbler	8.5 "
77♂	Gambel Quail m	188.0 "
78♂	<u>Sylvilagus</u> 380-60-84-70	781.5 "

Set out forty mouse traps  
along a ditch with steep  
banks and in whose bottom  
there was much rank aquatic  
growth. Saw no Microtus  
runs or "sign"; however.  
Ten traps were placed on  
a dry, flat, sparsely vegetated  
area west of the ditch "creek".

B. Coll. 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300

239	...
240	...
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270	...
280	...
290	...
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W.B. Davis Ash Meadows, 2.5 mi. W Devils Hole, 2173 ft., Nye Co., Nevada, May 19, 1933. 15,

Ash Meadows, 4.8 mi. NW Devils Hole, 2200 ft., Nye Co., Nevada, May 19, 1933.

80♂	<u>Onychomys</u>	140-48-19-18	wt. 21.9 gr.
81♀	"	170-44-19-17	" 14.1"
82♂	<u>Peromyscus</u>	176-87-19-19	" 22.4"
83♂	"	184-92-19-18.5	" 26.3"

Got up at 5:00 A.M. to visit the traps. No Microtus! Took the above; the first two on the dry ground, the two others along the bank of the creek.

Ash Meadows, 2.5 mi. W Devils Hole, 2173 ft., Nye Co., Nevada, May 19, 1933.

84♀	<u>Dipodomys</u>	232-132-37-12.5	wt. 37.2
85	<u>Sceloporus</u>		
86	"		
87♂	Vermillion Flycatcher <sup>TM</sup>	Found dead and dried. Saved for skeleton.	

Ward took three Microtus today, two this morning and one again this afternoon. The land round here is either all desert or else swampy places too wet

10  
The following is a list of the names of the persons who have been admitted to the membership of the Society since the last meeting.

Mr. J. H. Smith  
Mr. W. B. Jones  
Mr. C. D. Brown

140-150-15-15 140-150-15-15 140-150-15-15  
140-150-15-15 140-150-15-15 140-150-15-15  
140-150-15-15 140-150-15-15 140-150-15-15

and up to 1880. It is the  
purpose of this Society to  
study the history of the  
Society, and to publish  
the results of its researches.

Mr. J. H. Smith  
Mr. W. B. Jones  
Mr. C. D. Brown

140-150-15-15 140-150-15-15 140-150-15-15  
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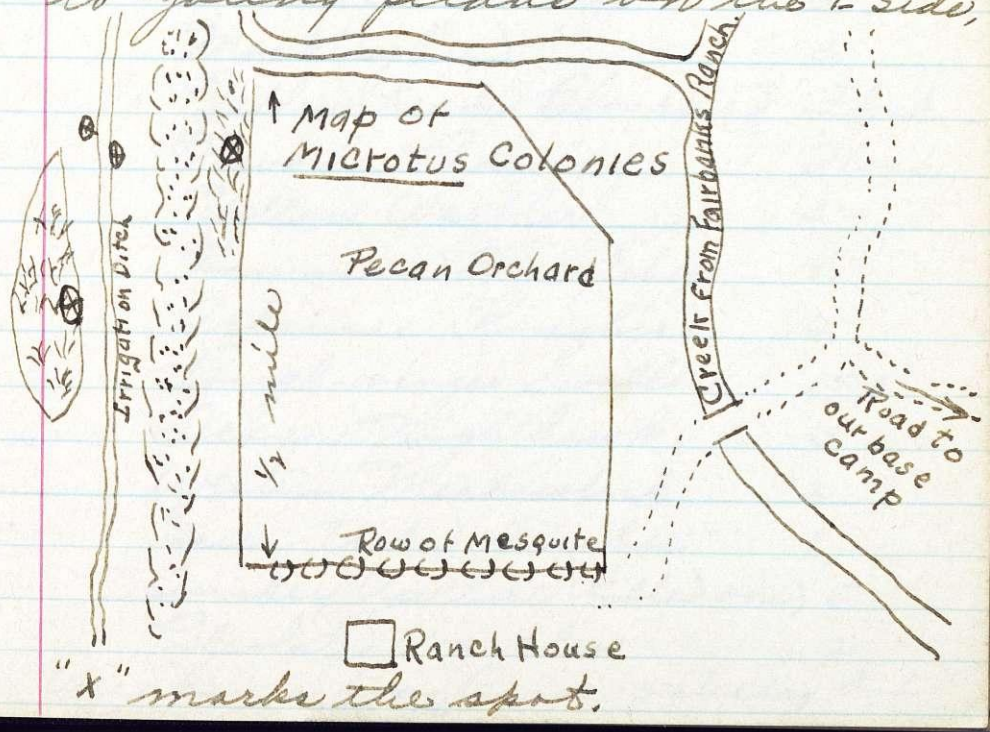
Mr. J. H. Smith  
Mr. W. B. Jones  
Mr. C. D. Brown

and up to 1880. It is the  
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Society, and to publish  
the results of its researches.



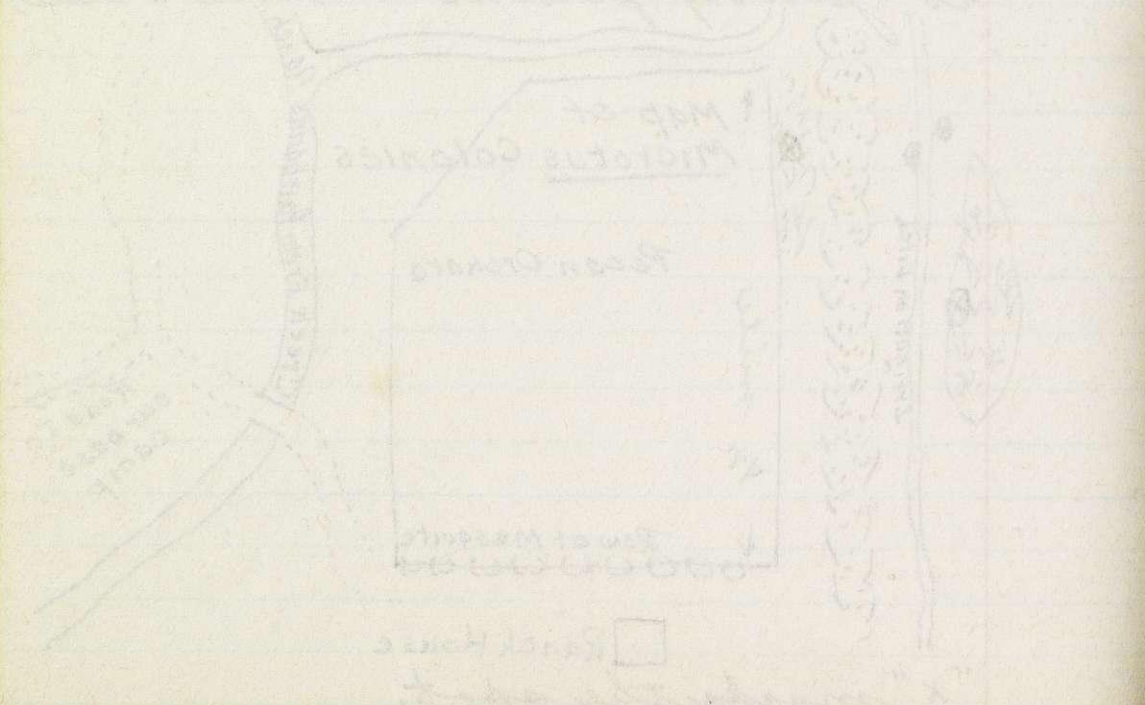
W.B. Davis Ash Meadows, 2.5 mi. W Devil's Hole, 2173 ft., Nye Co., Nevada.

May 19, 1933,  
for Microtus. There are very few intermediate spots, though we managed to locate three such, all on the Upper McCall Ranch, a point we believe to be 4.8 mi. NW Devil's Hole. The two colonies I located were along a small irrigation ditch about 1/2 mi. north of the ranch house and on the west side of a sand ridge on which many Dipodomys live, that separates this ditch from a field planted to young pecans on the E side.



10  
The following is a list of the  
names of the persons who have  
been in the office of the  
Secretary of the Board of  
Education, since its organization  
in 1852.

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W. B. Davis,

Ash Meadows, 2.5 mi. W Devils Hole, 2173 ft., Nye Co., Nevada, 17.

May 19, 1933

This ranch was homesteaded by A. K. Ishmael; was later known as "The Jap Ranch" and is now often called the McCall Ranch.

Besides the mammals listed above as specimens, I found the following in my traps:

Reithrodontomys 3♂ 1♀

Peromyscus eremicus 1♂

I saw the following birds at this place:

Marsh Hawk	1.
Gambel Quail	1.
Audubon Warbler	5.
Mockingbird	3.
Yellow-headed Blackbird	Flock
Nevada Redwing	Flock
Yellow Warbler	3
Hammond Flycatcher	8.
Arkansas Kingbird	6.
Rough-winged Swallow	15+
Texas Nighthawk	5
Western Meadowlark	2
Green-tailed Towhee	1
Turkey Vulture (Killed one)	5
Pileolated Warbler	2

Ward saw a Road Runner yesterday but couldn't get it.

Dear Mother, I am so glad  
to hear that you are all  
well. I hope you will  
write soon.

I am writing you from  
the city. I hope you  
will like to see me  
soon.

I have just received  
your letter and was  
glad to hear from  
you.

I am well and hope  
you are the same. I  
will write you again  
soon.

I have just received  
your letter and was  
glad to hear from  
you.

I am well and hope  
you are the same. I  
will write you again  
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I have just received  
your letter and was  
glad to hear from  
you.

Ash Meadows, 2.5 mi. W Devil's  
Hole, 2173 ft., Nye Co., Nevada.

May 19, 1933.

Went swimming this P. M. at  
Big Springs, a clear, warm  
spring about  $\frac{3}{4}$  miles ENE of here.  
At 6:00, (sun still up) two  
Pipistrellus were flying about  
the spring, dipping down so  
they touched the water, thus  
taking a drink on the wing.  
Ward shot five of them this  
evening here at the ranch. This  
is the first time we have seen  
them here.

Cottontails and Jack-rabbits  
are very common in the dense  
brush on the east side of  
Fairbanks Spring Creek (see <sup>7, 16</sup> map). This  
is the only place near here where  
there is sufficient protection  
for them. This is part of the  
"Jap Ranch".

Set 30 traps for Microtus  
in the area along the ditch  
at "Jap Ranch". Also made three  
sets for Dipodomys on the sand  
ridge just east of the irrigation  
ditch. "Dipo" signs were numerous,  
as were their burrows.

Dear Mother, I am so glad  
to hear from you & hope  
you are all well.

I am well at present & hope  
these few lines will find  
you all the same. I have  
not much news to write at  
present. The weather here  
is very pleasant & we  
are all enjoying it very  
much. I have not much  
time to write at present  
but will write again soon.  
I love you all very much  
and hope to see you all  
very soon. Give my love  
to all the folks. I am  
your affectionate son,  
John Doe

Ash Meadows, 2.5 mi. w Devil's  
Hole, 2173 ft., Nye Co., Nevada.

May 20, 1933.

Got up at 5:00 A.M. and drove  
to the "Jap Ranch" to look at our  
traps.

Ash Meadows, 4.8 mi. NW Devil's  
Hole, 2200 ft., Nye Co., Nevada,  
May 20, 1933.

88 ♂	<u>Microtus nevadensis</u>	184-41-24-14	wt. 68.6 gr.
89 ♂	"	162-31-22-13	" 57.0 "
90 ♀	"	140-29-22.5-13	" 37.3 "
91 ♂	<u>Dipodomys</u>	248-144-40-13	45.1 "
92 ♂	<u>Oryzomys</u>	114-45-19-16	14.0 "

Besides these I found one  
Dipodomys ♂, badly eaten by  
something, perhaps beetles, and  
one Reithrodontomys ♂ in my  
traps.

In going from the east-west  
road to the Jap Ranch, north  
the 1/2 mile to where we had set  
our traps I counted ten  
Cotton-tails Sylvilagus auduboni

100	100	100	100
100	100	100	100
100	100	100	100
100	100	100	100
100	100	100	100
100	100	100	100

The following is a list of the names of the persons who have been admitted to the office of the Secretary of the Board of Education, since the last meeting of the Board, on the 1st day of January, 1900.

The names of the persons who have been admitted to the office of the Secretary of the Board of Education, since the last meeting of the Board, on the 1st day of January, 1900, are as follows:

The names of the persons who have been admitted to the office of the Secretary of the Board of Education, since the last meeting of the Board, on the 1st day of January, 1900, are as follows:



W.B. Davis

Ash Meadows, 2.5 mi. W Devils  
Hole, 2173 ft., Nye Co., Nevada.

May 21, 1933.

Got up at 5:00 A.M., and drove  
to the Jap Ranch to look at traps.

Ash Meadows, 4.8 mi. NW Devils  
Hole, 2200 ft., Nye Co., Nev. 5-21-1933.

	93 ♂	<u>Microtus nevadensis</u>	177-44-24-13	wt. 65.0 grs.
Mine	94 ♀	" ( "	49. 129-30-19-12	" 24.0 "
	95 ♀	<u>Peromyscus</u>	150-59-18-18	" 17.0 "

An old trapper, "Daddy" White, living  
 $\frac{1}{2}$  mi. E of the Jap Ranch told me  
he had seen mice, which he  
thought were like the Microtus I  
showed him, in his field. Another  
resident living  $\frac{1}{2}$  mi. E of "Daddy"  
White's said his cat brought in a  
mouse yesterday that looked like  
the Microtus I showed him.

"Monty" Montgomery, an old timer,  
who knew "Old Man" Watkins  
intimately, said Watkins died in 1894  
being then 44 years old. Montgomery  
also told me of the presence of a  
mastadon fossil on the western  
end of Skull Mountain, about 22  
miles NNE of here. He said he  
had never seen it personally, but

The number of...

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W. B. Davis.

Ash Meadows, 2.5 mi. W Devil's  
Hole, 2173 ft., Nye Co., Nevada.

May 21, 1933.

Two of his miner friends had said  
that they had estimated some of  
the bones to weigh over 250 lbs.

Besides the specimens listed  
I caught the following:

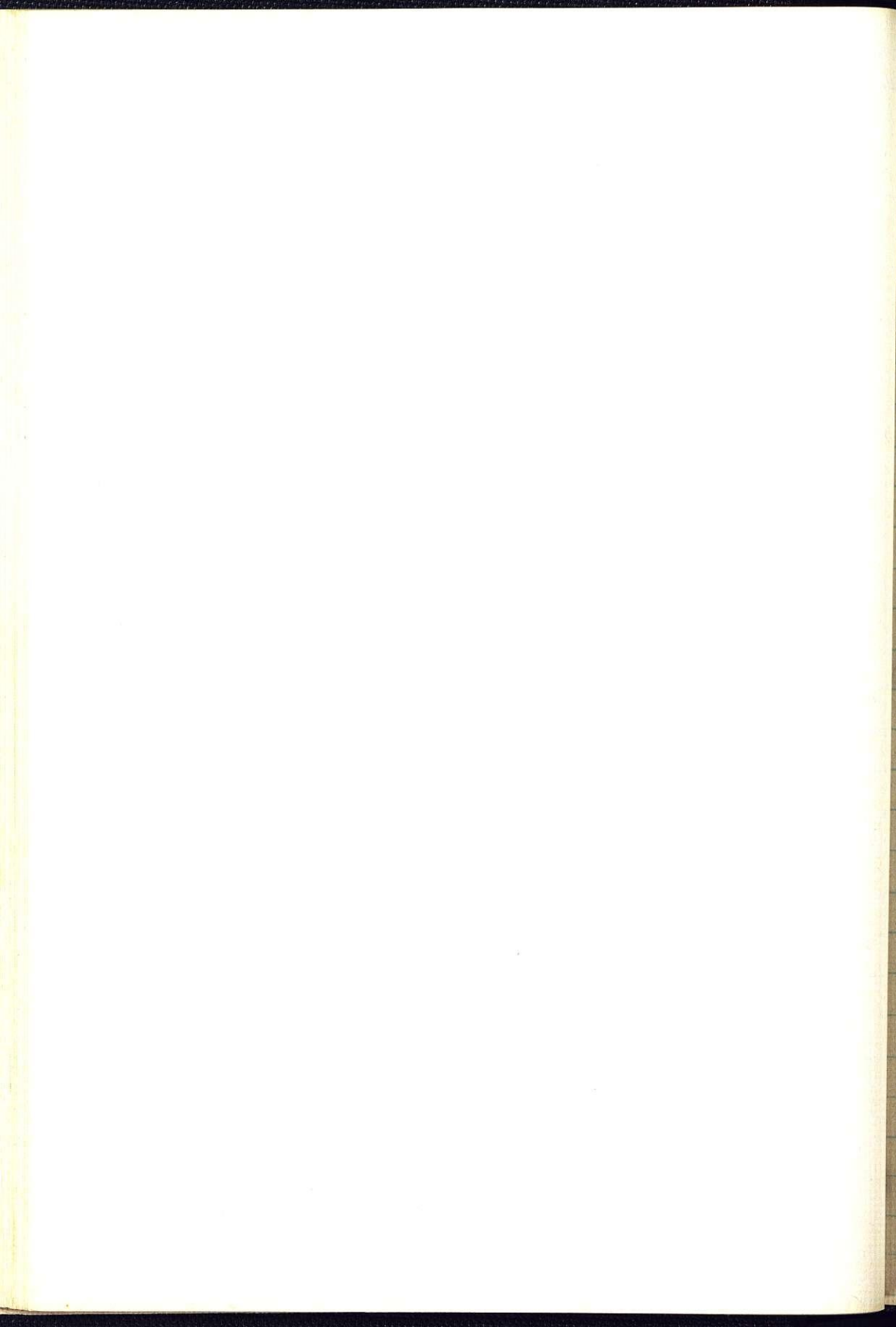
Reithrodontomys 1♂ 1♀

Mus domesticus 1♀

Last night Ward, Gene Nelson  
and I went hunting Bull Frogs,  
a species introduced from  
Louisiana indirectly, but directly  
from Shoshone, Inyo Co., California.  
We caught 14, saved one for a  
specimen and ate the rest. I  
caught three more today in an  
old rusty water pipe.

From here to the Jay Ranch  
where we found and caught our  
only Microtus is 3.7 miles by  
road via the Rogers Ranch.

Ward killed another ♂  
Vermillion Flycatcher today.  
This makes five individuals  
we have seen to date, and I  
believe indicates a scarcity  
of this species here.



W. B. Davis Ash Meadows, 2.5 mi. W Devil's Hole, 2173 ft., Nye Co., Nevada. 22.

May 22, 1933.

Left camp at 7:30 AM. to look at our gopher sets we made yesterday afternoon at the Jap Ranch. Out of 16 sets we took 11 adults & 1 young.

Ash Meadows, 4.8 mi. NW  
Devil's Hole, 2200 ft., Nye Co., Nevada  
May 23, 1933.

96♀	<i>Thomomys</i>	229-72-30-6	wt. 150.4 gr.
97♂	"	238-79-29-5	" 138.4"
mine 98♀	"	186-60-26-4	" 97.0"
99♀	"	228-79-27-5	" 122.4"
100	"	230-85-30-5.5	" 117.6"

All the above were collected by W. C. Russell.

This P. M. we took a long walk along the salt marsh south of this, Old Watkins Ranch, ranch and found no sign of Microtus workings. The grass in this marsh is heavily encrusted with a deposit of soda and wherever the grass is green there is from two to six inches of water. Here on the ranch I found one old runway, containing old droppings, in a marshy pasture overrun by horses. A trap placed here had yielded nothing.

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W.B. Davis. Ash Meadows, 2.5 mi. W Devil's Hole, 2173 ft., Nye Co., Nevada.

May 22, 1933.

So far the only colony we have been able to find is on the Jop Ranch 4.8 mi. NW of Devil's Hole. We have inspected the Barnes Ranch, Longstreet Ranch, and another one nearer Devil's Hole, but found no sign of Microtus. The most likely looking place found was on the Barnes Ranch 3.8 mi. NW Devil's Hole, but no mice were taken there. No sign of runways or droppings were found.

In the field here, locality above at top of sheet, we saw a Kingfisher; tried to collect it, but failed. There are no rivers anywhere near here, but the several large springs and sloughs containing fish must furnish food for it.

Made thirteen sets for gophers today at the Jop Ranch. Gophers are very numerous here in semi-boggy places

*[Faint, illegible handwriting on lined paper]*



W.B. Davis

Ash Meadows, 2.5 mi. W Devils  
Hole, 2173 ft., Nye Co., Nevada.

24.

May 23, 1933.

Got up at 5:30 and visited the gopher sets. I caught eight and an Indian brought me five more which he had caught while irrigating. Three of them had broken skulls where he had hit them over the head to kill them.

The Thomomys in this valley inhabit the semi-marshy areas, often having burrows that lie in the very moist strata. These marshy areas are semi-ponds during the rainy season, and are always fairly moist from underground water. The long, subterranean blades of grass, chiefly a type of salt grass, were used for food, along with the fleshy roots of other grasses.

Often the burrows are just beneath a hard crust of alkaline deposit that covers the softer subsoil. Nearly every farmer in this region with whom we talked complained of the great numbers of gophers, and our

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W.B. Davis, Ash Meadows, 2.5 mi. W Devil's Hole, 2173 ft., Nye Co., Nevada,

May 23, 1933,

observations showed them to be present in abundance. No counts were made, however.

Ash Meadows, 4.8 mi. NW Devil's Hole, 2200 ft., Nye Co., Nevada.

May 23, 1933.

101 ♂	Thomomys.	258-86-30-7	wt. 194.2 gr.
102 ♂	"	252-78-30-6	" 184.5 "
103 ♀	"	221-72-30-6	" 144.0 "
104 ♀	"	230-74-29-6	" 107.5 "
105 ♂	"	233-75-30-5.5	" 142.4 "

Ash Meadows, 2.5 mi. W Devil's Hole, 2173 ft., Nye Co., Nev. May 23, 1933

skeleton	106 ♀	Antrozous	117-43-10-34	Tr 16.0	wt. 13.8 gr.
skeleton	107 ♀	"	112-40-10-34	" 15.5	" 12.8 "
skeleton	108 ♀	"	111-41-10-33	" 15.5	" 13.0 "

These three bats were caught with a butterfly net in the evening. They were flying low under the willow trees, and occasionally acted as if they wanted to alight on the trees. At this momentary pause they were caught. All three were prepared as skeletons.

skeleton 109 ♀ Barn Swallow wt. 11.2 gr.

*[Faint, illegible handwriting at the top of the page, possibly bleed-through from the reverse side.]*

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W. B. Davis.

Amargosa River, 3.5 mi. NE Beatty,  
3400 ft., Nye Co., Nevada.

May 24, 1933.

We left our first camp yesterday at 4:25 P. M. and drove to the above locality, arriving here about 7:10 P. M. after driving a distance of 55 miles.

Made camp in an old, deserted ranch house minus the windows, ceiling and most of the flooring.

Went out this A. M. and made 13 sets for gophers in the meadow just back of the house. Here the gophers are inhabiting the narrow strips of moist ground, bordering the swampy spots, where conditions of moisture in the soil is at an optimum. In the burrow I found piles of cut food; a thick, fleshy herb that grows in profusion along the borders of the marshy places. All 13 sets were made in about an acre area.

Have seen the following birds so far today: Western Meadowlark, Nevada Redwing, Mockingbird, Arkansas Kingbird, Bullock Oriole, Killdeer, Rock Wren, Pileolated

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W. B. Davis

Amarogosa River, 3.5 mi. NE Beatty, 27.  
3400 ft., Nye Co., Nevada.

May 24, 1933.

Warbler, and a small hummingbird that I couldn't identify although I saw it twice.

110♂ Pileolated Warbler wt. 9.0 gr.

Found old nests of Bullock Oriole, Arkansas Kingbird and Yellow Warbler, all in the cottonwood trees near the house.

Looked at the gopher sets at 2:00 P.M. and had 1♂ and 2 ♀'s.

111♂ Thomomys 232-72-28-6 wt. 144.9 gr.

112♀ " 221-63-27-5 95.2 "

113♀ " 4 emb x 5 mm, 227-65-26-5 107.6 "

Went out at 5:30 and made 4 more gopher sets. Took the following birds and found a young ♀ Thomomys in a trap set this A.M.

skeleton 114♂ Yellow Warbler Testes 4 mm. wt 10.0 gr.

skeleton 115♂ Savanna Sparrow " 10 mm " 19.4 "

The Savanna Sparrow is undoubtedly breeding in this locality.

skeleton 116♂ Yellow-throat testes 5 mm. wt 9.8 gr.

The last three specimens were prepared for skeletons only, the skins not being saved.

*[Faint, illegible handwriting covering the page]*

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W. B. Davis.

Amargosa River, 3.5 mi. NE  
Beatty, 3400 ft., Nye Co., Nevada.

May 24, 1933.

The valley here is of alluvial deposit, consisting of clay loam, covered in many places by a thin alkaline layer that gleams white in the sunlight. On each side, the valley is hemmed in by hills, covered with rock of volcanic origin, which supports a scanty growth of Artemisia and greasewood. The vegetation in the valley proper consists of greasewood in the arid regions, but where water is present, cottonwoods, marsh grass and salt grass are present along with tules and a few reeds.

A farmer 1/4 mile up the valley from here reported the presence of numerous gophers in his alfalfa fields.

I saw a Lepus californicus this evening in the greasewood area near the water. Several Texas Nighthawks were on the wing and one Poorwill was heard.

*[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]*

W. B. Davis.

Amargosa River, 3.5 mi. NE  
Beatty, 3400 ft., Nye Co., Nevada.

29.

May 24, 1933.

Heard three calls of Killdeer.  
It is now dark and no moon.  
Hylas are present in large  
numbers, as evidenced by the  
croaking, and so are mosquitoes.  
Have found no evidence of the  
presence of Microtus here.

117♀ Thomomys 193-58-26-6 (4 Emb x 6) wt. 80.3 gr.

Amargosa River, 3.5 mi. NE Beatty,  
3400 ft., Nye Co., Nevada. May 25, 1933.

118♂ Thomomys 227-75-29-6 wt. 131.0 gr.

119. Cnemidophorus

skeleton

120♀

skeleton

121♀

Yellow Warbler ovaries 1 mm. " 8.3 "

Western Warbling Vireo ovaries 1 mm. " 10.9 "

Probably a migrant here.

122♀ Pileolated Warbler " 6.9 "

Went out this afternoon to  
look at my gopher sets. Had  
nothing so made four new  
sets farther down the valley  
from the house.

1170  
The first of the...

1171  
The second of the...

1172  
The third of the...

1173  
The fourth of the...

1174  
The fifth of the...

1175  
The sixth of the...

W.B. Davis.

Amargosa River, 3.5 mi. N.E.  
Beatty, 3400 ft., Nye Co., Nevada.

May 26, 1933.

123 ♀	<u>Thomomys</u>	198-58-26-6	wt. 89.3 gr.
124 ♂	"	232-84-29-6	" 127.0 "
125 ♂	"	213-71-27-6	" 119.0 "
126 ♂	"	218-70-28.5.5	" 134.0 "
127 ♀	"	208-63-25-6	" 104.5 "

128 King Snake

129 Brewer Blackbird's nest and four fresh eggs. Nest placed in midst of a small bush, 2 inches off the ground, in a swampy area.

Got up at 6:00 A.M. and looked at my traps. Had five gophers as listed above. Made four new sets and pulled all old sets but one, where the traps had been buried by the gopher.

Saw a ♂ Yellow-headed Blackbird with a flock of Brewer Blackbirds and Nevada Redwings.

Found a Meadowlark's nest yesterday evening in a depression in the ground, in rather scanty growth of salt grass. It contained 5 fresh eggs. The ♀ flushed and so far today she has not been observed on it. The male has been singing in the same

Journal of the ...

July 25, 1855

123	18-00-20	18-00-20	123
124	18-00-21	18-00-21	124
125	18-00-22	18-00-22	125
126	18-00-23	18-00-23	126
127	18-00-24	18-00-24	127

July 25, 1855  
 The weather was very warm and sunny today. We went for a walk in the park and saw many beautiful flowers. The children were very happy and played for hours. We also had a picnic under a big tree. The food was very good and everyone enjoyed it. We stayed in the hotel and had a very comfortable night's sleep. Tomorrow we will go to the museum and see the exhibits. I am looking forward to it very much.

W.B. Davis.

Amargosa River, 3.5 mi. NE  
Beatty, 3400 ft., Nye Co., Nevada.

May 26, 1933.

general vicinity as the nest, and has been doing so again today even though the ♀ was not on the nest.

A few Pipistrellus were on the wing last evening after sun down, and were feeding over the marshy area back of camp. They do a great deal of diving in feeding. I took five shots at them, knocked down two but could find only one and it was so badly damaged it was not saved.

Set two rat traps in the shack last night and caught two Neotoma, one ad. ♀ and one juv. ♂.

130 ♀ Neotoma 284-127-27-28 wt. 117.4g.

The four hind teats of this female indicate she had been nursing young. They are living in this house and were heard rummaging around night before last. Last night a half-bar of soap was carried into another room where it —

Dear Mother  
I have just received your letter  
of the 15th and was glad to hear  
from you.

I am well and hope these few lines  
will find you the same. I have  
not much news to write at present.  
The weather here is very warm  
and the crops are doing well.  
I have not seen any of the  
children for some time. I  
hope they are all well. I  
will write again when I have  
more news.

I have not seen any of the  
children for some time. I  
hope they are all well. I  
will write again when I have  
more news.



B. Davis Amargosa River, 3.5 mi. N. E. Beatty,  
3400 ft., Nye Co., Nevada.

May 26, 1933.

was found this morning  
partly eaten.

I found another Brewer  
Blackbird's nest this evening  
when I was looking at my  
gopher sets. It was built of  
sticks, lined with fine grass and  
horse hair, placed on the ground  
on a low mound in the  
midst of a swampy area  
and contained ~~five~~ partly  
incubated eggs, three of  
which were very heavily  
spotted, almost a chocolate  
color.

Amargosa River, 3.5 mi. N. E.  
Beatty, 3400 ft., Nye Co., Nevada.

May 27, 1933.

131 ♀	<u>Thomomys</u>	214-67-29-5	wt. 105.9g.
132 ♀	" "	212-67-27.5-5	" 107.9g.
133 ♀	" "	204-63-26-5	" 106.0 "
134 ♀	" "	215-62-28-6	" 117.7 "

Broke camp this A.M. at 9:35 and  
drove to Beatty where we picked up  
a water can that had been re-  
paired. Found our gasoline can

Chrom. ...

[Faint, illegible handwritten text, likely bleed-through from the reverse side]

...

1017	1017	1017	♀
1018	1018	1018	♀
1019	1019	1019	♀
1020	1020	1020	♀

[Faint, illegible handwritten notes in the margin]

M.B. Davis

13.5 mi. N.W. Goldfield, 4850 ft.,  
Esmeralda Co., Nevada.

33.

May 27, 1933

had sprung a leak and had it repaired. Left Beatty at 10:15 A.M. and headed north for Springdale in the upper end of Oasis Valley, Nye Co., and the headwaters of the Amargosa River, some 11 mi. north of Beatty. Here Russell and I set out 20 sets of gopher traps for fresh workings were plentiful. The owner of the little store here complained of them being so thick that he was forced to use "Gopher-Go," a poison to keep them from riddling his orchard and garden. In the 4½ hrs., between 11:00 and 3:30, we caught a total of eleven, Russell taking 6♀ & 1♂ and I 3♀ & 1♂. I also caught a young one by the tail in one of my traps and I now have him alive. I found a nest in the tunnel where this one was caught. It was made of fine grass packed into an enlarged chamber, about 4" x 6", about 4" below the surface of a heavy clay soil. There were

152 on the subject 1897  
Barnes, C. S. 1897

May 27, 1897

had spent a week at  
 the [unclear] at 11.15  
 and had been much for [unclear]  
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 the [unclear] of [unclear]  
 so that [unclear] [unclear]  
 to see [unclear] [unclear]  
 [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear]  
 the [unclear] [unclear] [unclear]  
 we caught a total of [unclear]  
 [unclear] [unclear] [unclear]  
 89 x 107. Also caught a [unclear]  
 one by the tail in one of [unclear]  
 [unclear] and [unclear] [unclear]  
 [unclear]. I found [unclear] in the  
 [unclear] [unclear] [unclear] [unclear]  
 caught. It was [unclear] of [unclear]  
 [unclear] [unclear] [unclear] [unclear]  
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 [unclear] [unclear] [unclear] [unclear]

B. Davis. 13.5 mi. N. W. Goldfield, 4850 ft.,<sup>34.</sup>  
Esmeraldas Co., Nevada.

May 27, 1933.

two burrows leading from it, one on each end. I found no other young in the nest.

I found a pile of gopher droppings, about  $\frac{1}{2}$  water bucket, that looked like it had been pushed up and out of the underground burrows. Russell said he had never seen such a thing and advanced the idea that it might have been made during the winter when snow was on the ground, and snow was about 18" deep there last winter.

We inquired about gophers farther up the valley and was informed that there was no more green grass and water between Springdale and Goldfield. This proved to be the case, so evidently we had found the northern limits of this Thomomys in Oasis Valley. The bleak bare hills on both sides and at the north end of the valley are excellent barriers for this mammal. There was

March 18 1853. To the Hon. Secy of the  
Interior, Washington, D. C.

Dear Sir,

The Bureau of Land Office, under  
your kind and liberal patronage,  
has the honor to acknowledge the  
receipt of a copy of your report  
of the progress of the survey of  
the public lands in the Territory  
of California, for the year ending  
the 31st Decr. 1852. I am  
pleased to learn that the work  
has been so far advanced, and  
that the reports of the Surveyors  
are so complete and satisfactory.  
I am, Sir, very respectfully,  
Dear Sir, your obedient servant,  
J. M. Smith, Secy.

B. Davis

35.

13.5 mi. N. W. Goldfield, 4850 ft.,  
Emerald Co., Nevada.

May 27, 1933

a stream coming into the Amargosa River from the east above Betty, termed Betty Wash, that had plenty of green grass, and undoubtedly Thomomys ranges in there.

While at Springdale, Russell and I went up to an abandoned mine tunnel about  $\frac{1}{2}$  mi. to the E. where bats were said to be. The tunnel was some 125' long, & about 30' from the entrance a cluster of <sup>Corynorhinus</sup> Antrozous was hanging from the ceiling. I clapped my butterfly net over them and caught 29. Six more were caught individually while on the wing. We built us a screened box and brought them with us alive, for we found that bats spoil quickly when dead.

We left Springdale at 3:45 headed for Goldfield, arriving there at 5:35, a distance of 71 mi. from Betty. Here we bought a few provisions and left for the above locality at 5:55. We drove  $\frac{1}{2}$  mi. N. on the Tonopah Road

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W.B. Davis 13.5 mi. N.W. Goldfield, 4850 ft.,  
Esmeralda Co., Nevada.

36.

May 27, 1933.

then turned W. for a distance of about 10 mi. This place is an old lake bed, some 1 mi. wide and 4 mi. long, the long axis in a N. & S. direction and is dotted with piles of hard packed sand on which bushes are growing. There are no white sand dunes here as far as we have explored.

We stopped the car some  $\frac{1}{2}$  mi. from the E. edge of the lake bed and about a mile from the N. end and set out our traps, baiting with chewed rolled oats. I placed 80, about 25 paces apart, on the hillocks of sand. Evidence of animal life was scarce.

We retired about 9:00 P.M. The night was chilly and we were forced to wear coats before retiring.

Dear Mr. [Name] [Address]

I have the pleasure to inform you that your order for [Product Name] has been received and is being processed. The items will be shipped to you as soon as possible. We appreciate your business and look forward to serving you again in the future. If you have any questions, please do not hesitate to contact us. Sincerely, [Name]

W.B. Davis

13.5 mi. N. W. Goldfield, 4850 ft.,  
Esmeralda Co., Nevada

May 28, 1933.

Spring Dale, N end Oasis Valley,  
Nye Co., Nevada. May 27, 1933.

135 ♂	<u>Thomomys</u>	221-61-28-6	wt. 141.8 gr.
136 ♀	" "	217-59-27-6	" 118.0 "
137 ♀	" "	206-62-28-5	" 93.8 "
138 ♀	" "	209-65-28-5	" 101.5 "
139	Toad		
140	"		

Birds noted at Spring Dale

1. Bullock Oriole - common, nesting
2. House Finch - " "
3. English Sparrow " "
4. Arkansas Kingbird " "
5. Mocking Bird saw three
6. Mourning Dove " ten +
7. Pileolated Warbler common
8. Yellow Warbler "
9. Heron sp?

The owner here reported  
great Blue Heron, White Herons,  
Jack Snipe and ducks on his  
slough about  $\frac{3}{4}$  mi. S. W. of  
there.

Received of Mr. J. H. ...

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13.5 mi. NW Goldfield, 4850 ft.,  
Esmeraldas Co., Nevada,

May 28, 1933.

3.5 mi. NE Beatty, 3400 ft., Nye  
Co., Nevada.

List of birds noted during our stay.

1. Killdeer - Common, probably nesting.
2. Nevada Redwing. " " "
3. Brewer blackbird " nesting.
4. Yellow-headed Blackbird - Saw 10+
5. Western Meadowlark - Saw 8+-nesting.
6. Mourning Dove - Common
7. Mockingbird - Saw three.
8. Arkansas Kingbird - Saw 8+
9. Rough-winged Swallow - Saw 30+
10. Yellow Warbler - Common
11. Say Phoebe - Saw one - nesting.

Nest was being built in the back room of this house. Actual work was done on it from 5 to 9 A.M.

12. Pileolated Warbler - Common
13. Western Lark Sparrow "
14. Lincoln Sparrow - Saw 10+
15. Western Yellow-throat - Common
16. Western Warbling Vireo. Took only 1.
17. Western Wood Pewee Saw 4.
18. House Finch. - a few.
19. English Sparrow - Common
20. Hummingbird sp? - saw one.

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W.B. Davis. 13.5 mi. NW Goldfield, 4850 ft.,  
Esmeraldo Co., Nevada.

May 28, 1933.

141	Horned Toad.		
142 ♀	<u>Dipodomys</u>	245-143-42-11	wt. 45.2 gr.
143 ♂	<u>Neotoma</u>	221-88-30-26	" 73.3"
144 ♀	<u>Perognathus</u>	130-68-18-7	" 7.3 "
145 ♂	"	132-69-18-7	" 9.2 "
146 ♂	<u>Peromyscus</u>	150-61-20-19	" 18.4 "

Visited the traps this A.M. between 4 and 5. Caught only 8 mammals; besides those listed above I had 1 yg. ♂ Neotoma and 2 ♂ Peromyscus. Evidence indicated that many mammals had visited my traps, but had left them alone. I had two traps sprung, but empty.

I spent from 7 P.M. to 12 M. putting up specimens.

The Horned Toad was caught on the bare, white flat and was so cold it could hardly move. I put it in a screen topped can and placed it in the shade. When I went to look at it at 11 P.M. it was in the sun and dead showing the deadly effect of exposure to direct sun light in heat of the day.

This afternoon about 6 P.M., we drove

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



May 28, 1933

one-half mile east to the black sand area and both Russell and I set out each 92 traps. I placed mine about 25 paces apart.

The sand in this area is heavily mixed with volcanic dust and is loose and yielding in contrast to the sand hillocks on the lake bed proper. Dipodomys signs were plentiful as were tracks of Canis and Lepus. Due to the fact that our traps had been visited last night but the bait not touched in many cases, Russell fixed up a mixture of rolled oats, bacon grease, raisins and peanut butter and this was used as bait. Some difficulty was encountered in getting it to stick to the pans. I made a large circuit toward the north while Ward did the same toward the south.

1850  
The Duke of Cambridge & Co. London

Page 125

*[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]*

W.B. Davis 13.5 mi. N.W. Goldfield, 4850 ft.,  
Esmeralda Co., Nevada.

May 29, 1933.

147 ♀	<i>Microdipodops</i>	132-72-23-9	wt. 9.1 gr.
148 ♂	" "	132-70-23-9	" 8.1 "
149 ♂	" "	162-82-23-11	" 12.9 "
150 ♂	" "	147-77-23-11	" 13.6 "
151 ♀	<i>Peromyscus</i>	155-61-20-18	" 22.9 "
152 ♂	<i>Dipodomys deserti</i>	334-190-54-18	" 133.3 "
153 ♀	" "	313-183-53-16	" 109.8 "

5 embryos x 5 m.m.

154 ♂	<i>Dipodomys deserti</i>	353-196-54-17	" 132.5 "
155 ♂	" "	336-196-53-17	" 115.8 "
156 ♂	" "	325-183-53-16	" 109.8 "
157 ♀	" "	321-184-54-16	" 117.6 "
158 ♀	" "	337-193-53-16	" 118.3 "
159 ♂	" "	250-138-42-14	" 53.3 "

160 Lizard

Springdale, N. end of Oasis  
Valley, Nye Co., Nevada

May 27, 1933

161 ♀	<i>Antrozous</i> (skull only)	94-49-8-30 Tr. 14	wt 6.1 gr.
162 ♀	<i>Corynorhinus</i> " "	99-45-8-28 Tr. 14	" 6.1 "
163 ♀	" " "	97-47-9-33 Tr. 16	" 6.0 "

contained 1 embryo x 13 m.m.

164 ♀	<i>Antrozous</i> (skull only)	99-45-9-34 Tr. 15	" 7.0 "
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contained 1 embryo x 14 m.m.

165 ♀	<i>Antrozous</i> (skull only)	99-46-9-33 Tr. 15	" 5.8 "
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166 ♀	" " "	102-47-8-36 Tr. 16	" 5.8 "
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contained one embryo x 16 m.m.

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13.5 mi. N. W. Goldfield, 4850 ft.,  
Esmeralda Co., Nevada.

May 29, 1933.

Springdale, N. end Oasis Valley,  
Nye Co., Nevada. May 27, 1933.

- 167♀ Antrozous (skull only) 98-50-9-35 Tr. 15 wt. 7.3 gr.  
contained one embryos X 16 mm. 7m.
- 168♀ Antrozous (skull only) 98-43-9-37 Tr. 16 " 6.1 "
- 169♀ " " " 101-47-9-37 Tr. 16 " 6.2 "
- 170♀ " " " 98-51-8-36 Tr. 14 " 6.1 "

Got up at 4:00 a.m. and visited the traps. The first 40 were not even touched, but after that I found several sprung, and a few from which the bait had been taken and not sprung. In all I took 13 specimens, 4 Microdipodops, two of which were immature; 1 Peromyscus m. sonoriensis; 7 Dipodomys deserti, and 1 Dipodomys arde (?).

The Microdipodops were taken on the black-topped, loose sand, as were the other takes. This sand is gray under a covering of black volcanic ash. Russell took one specimen of the pallid "Mice" along with several other of the dark variety, and all on

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U.B. Davis 13.5 mi. N.W. Goldfield, 4850 ft.,  
Esmeralda Co., Nevada.

43

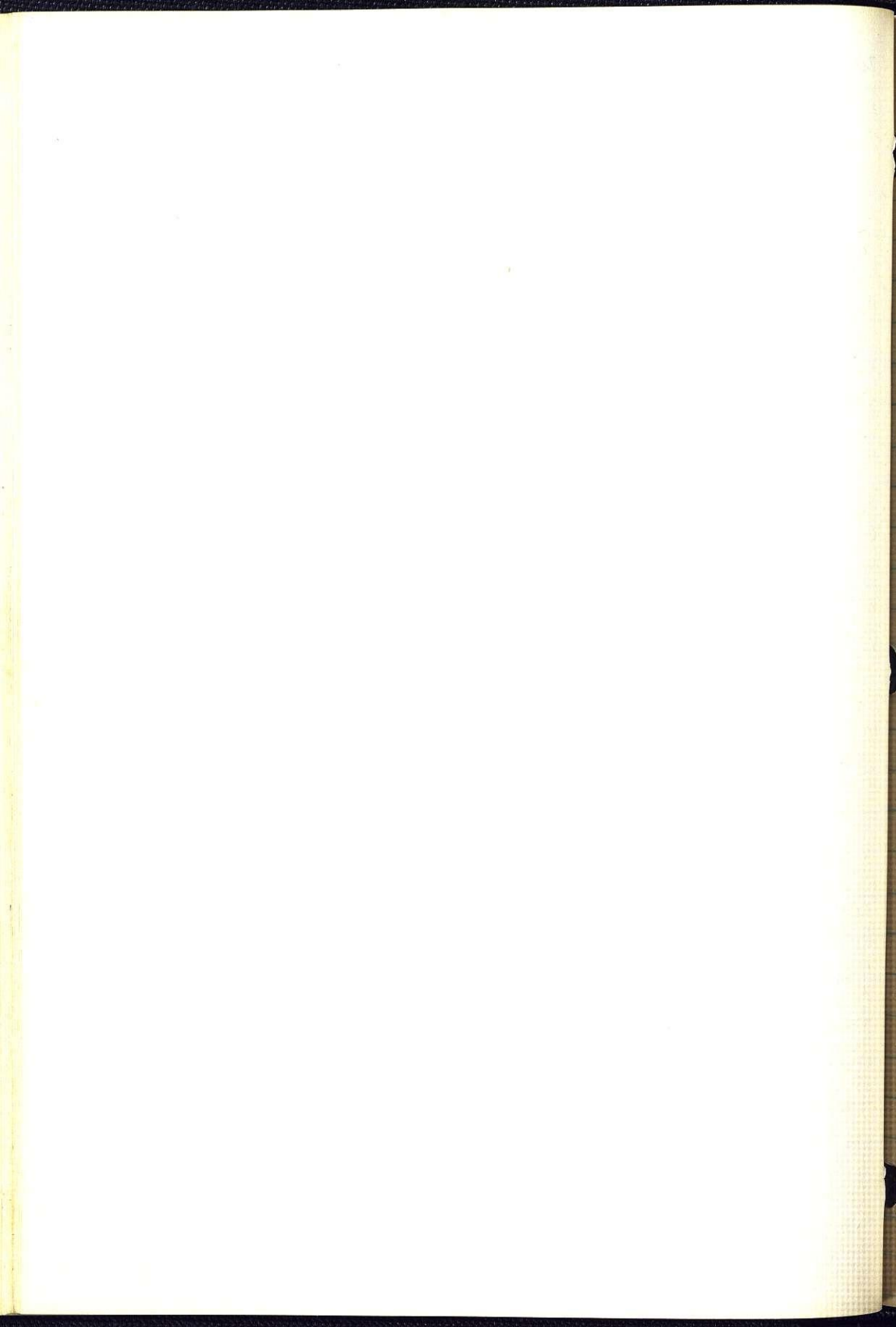
May 29, 1933

the same type of sand. A peculiar incident, indeed.

Spent from 7 A.M. to 4 P.M. in camp making up skins

At 6 P.M. we again drove to the east edge of this dry lake, a couple hundred yards to the north of where we trapped last night and set our traps. Tonight honey was added to the bait to make it stick to the traps. Dipodomys deserti burrows, as well as tracks and spots where they had dug in the sand, were very plentiful in the area I worked. These rodents seem to wander near the bases of the little sand hillocks in their search for food, and their large tracks, along with the furrows made by dragging their tails, were evident everywhere.

When cleaning our specimens today we found two "Dipos" with rabbit droppings in their pockets, evidently serving as





W.B. Davis

13.5 mi. N.W. Goldfield, 4850 ft.,  
Esmeralda Co., Nevada.

44

May 29, 1933.

food. Most of the contents of other pockets were ovaries of small flowers, short lengths of herbs, and seeds.

I set a box trap tonight in hopes of catching a live Dipodomys deserti.

Found the skull of a Badger this evening when setting out traps. It was badly weathered and broken so it was not saved as a specimen. Also found the right front tibia of an Antelope. Specimens saved for positive identification. Russell said it was either a deer or an antelope.

We are camped about  $1\frac{1}{2}$  mi. N.W. of Alkali, a hot spring and our nearest water. We have our water containers so have had no occasion to go there and thus look the territory over.

Bird life is almost wanting here. So far I have seen and heard only six individuals, one Horned Lark, and 5 Brewer Sparrows.

Benjamin Franklin

I have been thinking much of late  
 of the nature of the human mind  
 and how it is affected by  
 the various passions and  
 affections of the soul  
 and how they influence  
 the conduct of the body  
 and the state of the  
 mind. I have also  
 considered the  
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 the human body  
 and how they  
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W. B. Davis 13.5 mi. N.W. Goldfield, 4850 ft.,  
Esmeralda Co., Nev.

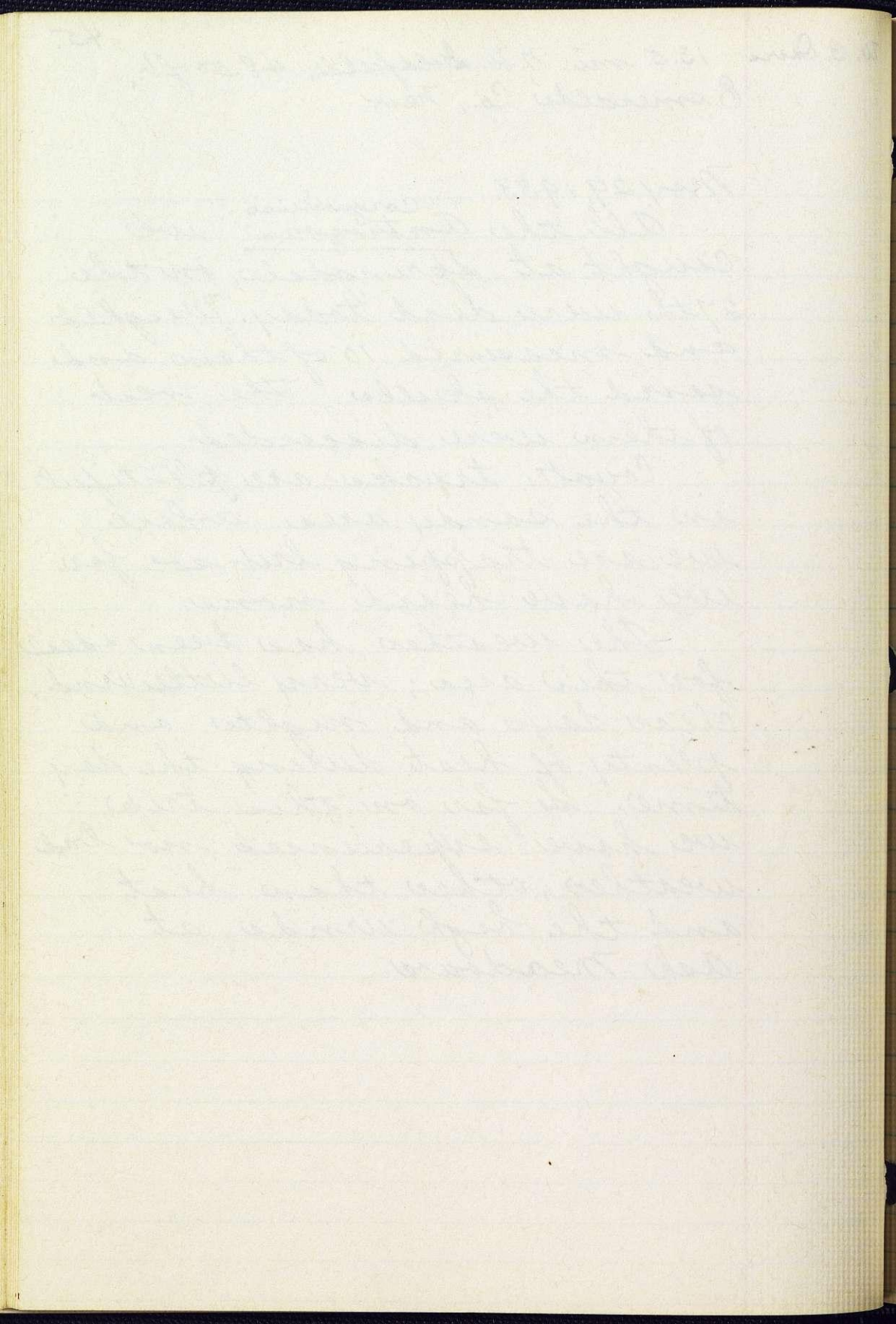
45.

May 29, 1933.

All the <sup>Corynorhinus</sup> Antrozous we caught at Springdale on the 27th were dead today. Weighed and measured 10 of them and saved the skulls. The rest of them were discarded.

Coyote tracks are plentiful in the sandy areas where we are trapping but so far we have heard none.

The weather has been ideal for this area; very little wind, clear days and nights and plenty of heat during the day time. So far on this trip we have experienced no bad weather, other than heat and the high winds at Ash Meadows.



W. B. Davis

13.5 mi. NW Goldfield, 4850 ft.,  
Esmeraldo Co., Nevada,

46.

May 30, 1933.

171 ♀	<u>Dipodomys deserti</u>	5 emb x 30 mm.	347-203-53-16	wt. 159.4 gr.
172 ♂	" "		330-187-53-16	" 115.0 "
173 ♀	<u>Microdipodops</u>		155-81-26-11	" 13.2 "
174 ♂	" "		144-79-23-9	" 9.4 "
175 ♀	" "		164-91-26-10	" 12.8 "
176 ♂	<u>Dipodomys ordi</u>		243-143-31-14	" 55.14 "
177 ♀	<u>Microdipodops</u>		154-86-25-11	" 15.1 "
178 ♂	<u>Perognathus</u>		127-64-18-7	" 7.9 "
179 ♀	"	4 emb x 12 mm.	131-79-18-7	" 11.9 "

Got up at about 4:00 A.M. and looked at our traps. I had 26 mammals in my traps. Besides the specimens listed above, I caught 1 ♂ Neotoma, 6 ♂ Dipodomys deserti, 5 ♀ Dipodomys deserti, 2 ♂ Peromyscus m. sonoriensis and 1 ♂ Perognathus.

Spent the morning in camp preparing specimens and at 3:20 we broke camp and headed for Goldfield to get a few supplies of necessity before leaving for Silver Peak and the White Mountains.

A high wind arose about an hour before we broke camp, and as we were camped out in the unprotected middle of the old dry lake —

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W. B. Davis.

Silver Peak, 4500 ft.,  
Esmeraldo Co., Nevada.

47.

May 30, 1933.

bed, everything was filled with dust. It was with no misgivings that we left this spot, even though trapping was good.

Very few birds were seen during our stay here. Heard or saw the following:

Brewer Sparrow 4+

Mockingbird 1

Mourning Dove 1

Horned Lark subsp? 4+

The desert Kangaroo Rat and a small pocket mouse were the most abundant mammals found.

We arrived here at about 8:00 P. M. and were given permission to use a small adobe cabin by the manager of the power house.

The wind died down this evening and we are now being pestered by mosquitoes.

W. B. Law  
Lith. Co. Wash. D. C.

My dear Sir,  
I have the pleasure to acknowledge the receipt of your letter of the 10th inst. in relation to the matter mentioned therein. I have conferred with the proper authorities and they have decided to grant you a license for the purpose mentioned in your letter. The license will be issued to you on the 15th inst. and will be valid for a period of one year. I am, Sir, very respectfully,  
Yours truly,  
W. B. Law



Silver Peak, 4500 ft.,  
Esmeraldo Co., Nevada.

May 31, 1933.

We spent the day in camp packing specimens for shipment to the Museum.

Mr. Flint, a stockman of this region, came up to the cabin this forenoon. He told us there were no more Mountain Sheep in the Silver Peak Mountains and he believed the severe droughts of the last three or four years have been responsible for their leaving. However, he believed one old ram was still to be found near Cave Springs.

A high wind arose about noon and in the afternoon we had quite a rain storm.

The sand dunes we are to trap on are some five miles to the SSE of here and are plainly visible from our cabin. We were informed by Mr. Flint that two roads led to them, one, the closer one that leads to the NE end of the dunes, about  $\frac{1}{2}$  mile S of town, the other some 5 mi. S of town leads to the south end.

London, 11th March 1864  
Dear Mother

My dear Mother

I am so glad to hear from you  
and to hear that you are all well  
and happy. I am well at present  
and hope these few lines will find  
you all the same. I have not  
much news to write at present  
but I thought I would write a  
few lines to let you hear from  
me. I am so glad to hear from  
you and to hear that you are  
all well and happy. I am well  
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lines will find you all the same.  
I have not much news to write  
at present but I thought I would  
write a few lines to let you  
hear from me. I am so glad to  
hear from you and to hear that  
you are all well and happy. I  
am well at present and hope  
these few lines will find you  
all the same. I have not much  
news to write at present but I  
thought I would write a few  
lines to let you hear from me.

W. B. Davis Silver Peak, 4500 ft.,  
Emerald Co., Nevada.

June 1, 1933.

Last night we took our beds and drove out to the north end of the dunes. The road leads nearly to them. We each set 92 traps in the low sand dunes about one mile north of the big ones, and then stayed all night.

Arose at 4:15 A.M. to look at our traps. Besides the specimens listed on the following page, I took

- Dipodomys deserti 2 ♂, 1 ♀
- Onychomys 3 ♂
- Peromyscus m. sonoriensis 5 ♂, 6 ♀
- Perognathus 3 sex?

I found that Microdipodops preferred the areas adjacent to the larger sand dunes and not on them. All but one of my takes were in such situations. I placed my traps near small clumps of sage and greasewood about 25 paces apart. Around the clumps of bushes on the sand dunes proper I took mostly Peromyscus.

We baited our traps with a mixture of rolled oats, bacon grease, peanut butter and syrup.

Dear Mother  
I received your letter of the 15th

and was glad to hear from you

and to hear that you were all well

I am well at present and hope

these few lines will find you all

the same I have not much news

to write at present but I will

write again when I hear from you

Love  
Your affectionate son

John Smith

123 Main Street  
New York City

October 10, 1910

P.S. I hope you will like the

change of paper and ink

I have used the best I could

get for you

8 mi. S.E. Blair, 4500 ft.,  
Esmeraldo Co., Nevada.

50.

June 1, 1933.

180♂	<u>Microdipodops lucida</u>	167-89-25-10	wt. 12.9 gms.
181♀	"	"	156-90-25-10 " 13.4 "
182♀	"	"	161-88-25-11 " 15.6 "
183♂	"	"	161-89-27-10 " 14.0 "
184♂	"	"	157-89-26-10 " 13.1 "
185♂	"	"	149-82-24-11 " 11.0 "
186♀	" 3 emb. x 10 mm.	162-89-26-11	" 19.2 "
187♀	<u>Onychomys</u>	131-44-20-16	" 24.1 "
188♀	<u>Peromyscus m. sonoriensis</u>	160-71-19-15	" 23.2 "
189♂	"	"	151-64-18-19 " 22.3 "
190♀	<u>Onychomys</u>	122-31-19-19	" 19.5 "
191♀	<u>Microdipodops lucida</u>	162-91-25-11	" 14.8 "
192♂	"	"	163-90-25-11 " 14.5 "
193♂	<u>Onychomys</u>	123-45-19-17	" —

Silver Peak, 4500 ft., Esmeraldo Co.,  
Nevada. June 1, 1933.

In many instances we found the traps had been visited but not touched. I noticed that the Microdipodops as well as others followed my tracks, and nearly every mark I had made in the sand with the point of my boot to indicate the location of a set, had been followed lengthwise and often the trap, placed some

Bank of Boston  
Cambridge, Mass.

Account No.	Balance	Interest	Total
1000	100.00	1.00	101.00
1010	200.00	2.00	202.00
1020	300.00	3.00	303.00
1030	400.00	4.00	404.00
1040	500.00	5.00	505.00
1050	600.00	6.00	606.00
1060	700.00	7.00	707.00
1070	800.00	8.00	808.00
1080	900.00	9.00	909.00
1090	1000.00	10.00	1010.00
1100	1100.00	11.00	1111.00
1110	1200.00	12.00	1212.00
1120	1300.00	13.00	1313.00
1130	1400.00	14.00	1414.00
1140	1500.00	15.00	1515.00
1150	1600.00	16.00	1616.00
1160	1700.00	17.00	1717.00
1170	1800.00	18.00	1818.00
1180	1900.00	19.00	1919.00
1190	2000.00	20.00	2020.00

Bank of Boston  
Cambridge, Mass.

Interest on Deposits

The following is a list of the accounts of the Bank of Boston, Cambridge, Mass., for the year 1880. The accounts are listed in the order in which they were opened, and the balance of each account is given at the end of the year. The interest on each account is also given, and the total amount of interest for the year is shown at the bottom of the list.

W. B. Davis, Silver Peak, 4500 ft.,  
Esmeraldo Co., Nevada,

51.

June 1, 1933.

12" to 18" away, had not been visited. In places where the trap was placed at the end of such a mark, there was a catch, or the trap had been visited.

I found the burrow of a Microdipodops, that was about one inch in diameter, leading into a small sand hill. It went into the bank at about a  $30^\circ$  angle, and although I dug in an arm's length I could not reach the end.

When we were preparing specimens of Microdipodops today we found the following items in their pouches:  
2 Scarabid beetles, 1 small centipede, the pupae of a moth and several kinds of seeds which were unknown to me.

James M. Smith  
General Co. 1st Regt.

Dear Sir,  
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the purchase of a quantity of paper for the use of the office of the General.

I have been instructed to purchase the quantity of paper specified in your letter, and to deliver it to you as soon as it is received. I have the pleasure to inform you that the paper has been ordered and will be delivered to you in a few days.

I am, Sir, very respectfully,  
Your obedient servant,  
James M. Smith



W. B. Davis.

8 mi. S. E. Blair, 4500 ft.,  
Esmeraldo Co., Nevada,

52.

June 2, 1933.

194♂	<u>Microdipodops lucida</u>	157-89-26-11	wt. 12.9 gr.
195♂	"	" 156-89-26-11	" 12.6 "
196♀	"	" 162-94-26-11	" 13.1 "
197♂	"	" 162-95-26-10	" 14.0 "

The above four specimens were collected by Davis & Russell. We left Silver Peak for the Sand Dunes at 9:00 P.M., having waited until the wind had abated somewhat. We set the traps by lantern light, placing about 90 of them in likely looking places, the gently sloping sand near bushes, and in furrows made by the heel of a boot being dragged in the sand. We had noticed that the "mice" and "rats" had been following-up such depressions when made as markers for sets. Got all the traps set by 11:30 and then went to bed.

We arose at 4:00 A.M. and visited the traps. We had ten Microdipodops, four of them listed above, and the following:

Onychomys 1♀

Peromyscus m. sonoriensis 8♀7♂

1870  
1871  
1872  
1873  
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1897  
1898  
1899  
1900

June 4, 1933.

Perognathus nevadensis 1 ♀

Dipodomys deserti 1

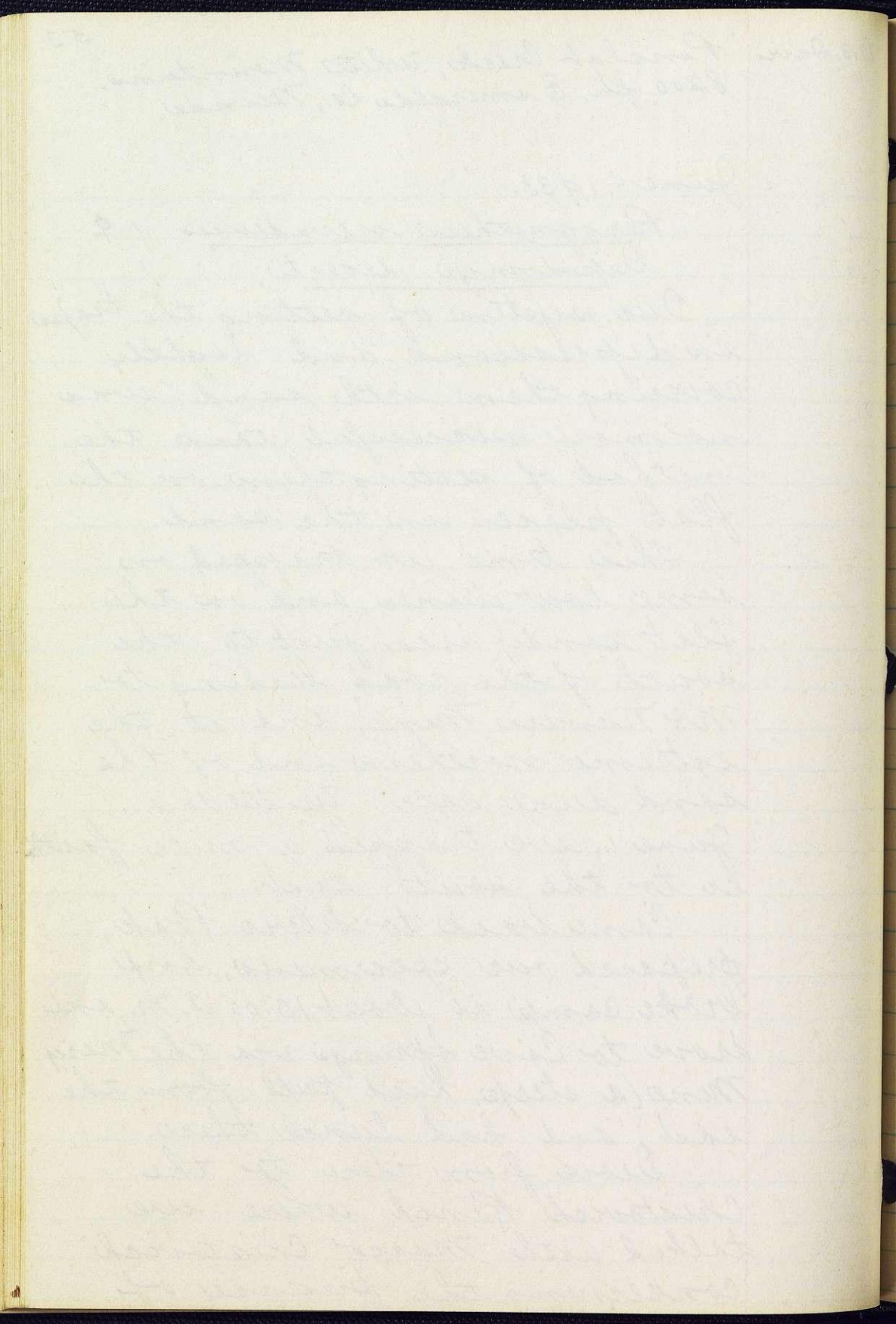
Our system of setting the traps in depressions and lightly covering them with sand was no more successful than the method of setting them on the flat places in the sand.

This time we trapped on some low dunes, and on the flat sandy area just to the south of the road leading to Mc Namara Mine, and at the extreme northern end of the sand dune area. Yesterday,

June 4, we trapped a mile farther to the south east.

Came back to Silver Peak, prepared our specimens, and broke camp at about 10:00 A.M. and drove to Cave Springs via the Mary Mine (a steep, hard pull from the east) and had lunch there.

Drove from there to the Chiatovich Ranch where we talked with Marco Chiatovich concerning the presence of



W.B. Davis

Pinchat Creek, White Mountains  
8200 ft., Esmeralda Co., Nevada.

54.

June 4, 1933

Marmots and grouse. He claimed he had never seen any "Ground Hogs" (Marmots) on the Nevada side of the line, but that they were very plentiful up near the head of Chictovich Creek on the California side. He said they were often found in meadows bounded by cliffs with large boulder talus, and that they were inquisitive animals and would come out from hiding to look at one if he were partially hidden. He also said he had run many of them down on horseback when they were in the meadows.

We left Chictovich's Ranch and drove to Pinchat Creek via Sand Spring, arriving here about 5:00 P.M. We ~~saw~~ saw a Golden Eagle near the pass between Fish Lake Valley and Pinchat Canyon.

When we were about  $\frac{1}{2}$  mi. above Gold Hit the first Callospermophilus was taken. We took three before we reached

Faint, illegible handwriting on a lined page, possibly bleed-through from the reverse side.

W.B. Davis Pinchot Creek, White Mountains, <sup>55.</sup>  
8200 ft. Esmeralda Co., Nevada.

June 4, 1933.

our camping site. They are very numerous in this canyon, and also are the Eutamias.

We are camped about  $\frac{1}{2}$  mi. from the end of the road and as high as we could get with the car and still have water. The elevation here is 8200 ft. The typical vegetation is Sage Brush and Pinyon Pine. Along the stream, in which water appears at occasional spots, willow and wild rose can be found as well as a tall growing grass.

When we stepped out of the car at our camp site we saw the tracks of a Mountain Lion. It had come down into the canyon from off the ridge to the west, and apparently crossed to the ridge on the east.

Yesterday, June 3, Russell and I took a 15 mile hike up over Mustang Mountain and up to the foot of Boundary Peak. We climbed to an elevation of 11,500 ft., inspected all the

18  
The first part of the book is devoted to a general  
description of the various forms of life which  
are found in the sea. The author discusses the  
structure and habits of the most important  
groups, and also the manner in which they  
are distributed over the surface of the globe.  
The second part of the book is devoted to a  
description of the various forms of life which  
are found in the air. The author discusses the  
structure and habits of the most important  
groups, and also the manner in which they  
are distributed over the surface of the globe.  
The third part of the book is devoted to a  
description of the various forms of life which  
are found on the land. The author discusses the  
structure and habits of the most important  
groups, and also the manner in which they  
are distributed over the surface of the globe.  
The fourth part of the book is devoted to a  
description of the various forms of life which  
are found in the soil. The author discusses the  
structure and habits of the most important  
groups, and also the manner in which they  
are distributed over the surface of the globe.



W.B. Davis Pinchat Creek, White Mountains, 56.  
8200 ft., Esmeralda Co., Nevada.

June 4, 1933.

Pinchat Creek, White Mountains,  
8200 ft., Esmeralda Co., Nevada June 2, 1933.

198♀ Callospermophilus 250-79-36-18

Pinchat Creek, White Mountains,  
8200 ft., Esmeralda Co., Nevada.

June 3, 1933

199♀ Thomomys 200-61-25-5 wt 87.4g.

Mustang Mountain, White Mts.,  
10,000 ft., Esmeralda Co., Nevada.

June 3, 1933.

200♂ Pika (Ochotona) 176-5-29-21 wt 128.8g.

rock slides we found, but found  
no trace of Marmots.

The life zones on this end  
of the White Mountains are  
very peculiar. Where we were  
camped, the sagebrush was  
abundant, as it was up  
to an elevation of 10,000 ft., a  
characteristic of the Transition  
Zone. The hills were covered  
with sage Piñon, the latter  
a characteristic of Lower Sonoran

*[Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side.]*

W.B. Davis

Pinchot Creek, White Mountains, <sup>57.</sup>  
8200 ft., Esmeralda Co., Nevada.

June 4, 1933.

Zone, and in these Piñons the Clark Nutcrackers were very common, a characteristic of the Hudsonian zone. At an elevation of approximately 9000 ft., the white-barked Pine made its appearance, yet the sage was present. The Coy was found both at the 10,000 ft. elevation at 8,200. There was no distinct zonation and no apparent cause for the conglomeration.

The colony of conys found on this trip was in a south facing rock slide near the saddle where the trail from Queen Canyon crosses into Trail Canyon. They were shy little creatures, usually keeping well hidden while keeping up an intermittent calling to one another when we were present. No doubt these were warning calls. One little fellow ventured out so that just his head was showing and I shot him from a

Handwritten text at the top of the page, possibly a header or title, which is mostly illegible due to fading.

Main body of handwritten text, consisting of approximately 20 lines of cursive script. The text is extremely faded and difficult to decipher, but appears to be a continuous paragraph or list of entries.

W.B. Davis

58.

Pinchat Creek, White Mountains,  
8200 ft., Esmeralda Co., Nevada.

June 4, 1933.

distance of about 30 ft., with a load of #12 shot. The range was so close that the force of the impact blew away most of his head and lifted him clear of his rock crevice. This is the only specimen we secured, though we tried for nearly two hours to get others.

There were very few "hay piles." After a rather careful search we located three of them under the large shelving rocks. They seem to prefer the large bouldered talus slopes.

The wind was blowing a gale from the east and the cold was penetrating, which, with the high altitude made the day none too pleasant.

The sight of Boundary Peak rising some 3,000 ft. above us repaid in part for the climb.

On Mustang Mountain, a flat-topped mountain some 10,000 ft. in elevation I flushed

*[Faint, illegible handwriting on lined paper, likely bleed-through from the reverse side of the page.]*

W.B. Davis

Pinchat Creek, White Mountains  
8200 ft. Esmeralda Co., Nevada.  
(Saw old sheep signs near canyon side)

59

June 4, 1933

seven Sage Grouse. Was unsuccessful in my attempts to get one. No grouse were seen, and from the sparsity of timber and the predominance of bare, rocky hill sides, dotted here and there with sage, I doubt if grouse are present in the area we worked.

Got back to camp about 5:30 P.M. and both of us were eager for rest. Our only specimen to pay for this long hike was the ♂ Ochotona I killed, and it was a sorry looking prize.

Today was spent in camp in making up specimens and resting a bit. I took a hike up to the head of Pinchat Creek to set traps for Thomomys. Found very few fresh mounds and made only two sets. Saw a Dryobates (sp?) and followed it for an hour or more but was unable to bag it.

To date I have seen the following birds in and

*[Faint, illegible handwriting on lined paper]*



W. B. Davis.

Pinchot Creek, White Mountains, <sup>60,</sup>  
8200 ft., Esmeraldo Co., Nevada.

June 4, 1933,

around our camp,

1. Clark Nutcracker - common.
2. Green-tailed Towhee - common.
3. Brewer Sparrow - "
4. Rocky-Mt. Nuthatch - saw four.
5. Black-throated Gray Warbler 10+
6. Cassin Purple Finch 10+
7. Western Robin 2.
8. Mourning Dove 2.
9. *Cyanocitta stelleri* sub? a few.
10. Mountain Chickadee Common.
11. Junco sp? - common.
12. Black-headed Grosbeak 3+
13. Rock Wren a few.
14. Wright Flycatcher 6+
15. Broad-tailed Hummer 2.
16. White-throated Swift 6+
17. Tree Swallow 6+
18. *Dryobates* sp? 2.
19. Red-shafted Flicker 1.
20. Sage Hen (Mustang Mt.) 7.
21. Horned Owl. 2
22. Mountain Bluebird 10+
23. Pileolated Warbler 1.
24. Turkey Vulture 4.

Saw the following mammals here: *Eutamias*, *Callospermophilus*,

Jan 1 1860  
to the ...

Jan 2 1860  
to the ...  
Jan 3 1860  
to the ...  
Jan 4 1860  
to the ...  
Jan 5 1860  
to the ...  
Jan 6 1860  
to the ...  
Jan 7 1860  
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Jan 28 1860  
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Jan 29 1860  
to the ...  
Jan 30 1860  
to the ...  
Jan 31 1860  
to the ...

W.B. Davis.

Pinchot Creek, White Mountains,  
8200 ft., Esmeraldo Co., Nevada,

61.

June 4, 1933 (Continued).

Sylvilagus, Peromyscus,  
Ochotona, and evidence of Mt.  
Lion and Porcupine.

June 5, 1933.

We decided to hike back to the  
Coney slide visited on the 3<sup>rd</sup> so  
got up early. When I was cooking  
breakfast an Ochotona ran across  
a small rock slide about 40 ft. away.  
It ran up the hill a short distance,  
then turned around and came back  
down, finally coming to rest on the  
top of a rock where it watched me.  
I gave it a dose of #12 shot and it  
fell off the rock. I rushed up there,  
found a big blotch of blood but  
could not see the Coney. Went  
back to the camp, cooked and  
ate breakfast, then Russell and  
I went back and spent a few  
minutes turning over boulders  
until we found it, a large ♀ with  
four embryos x 30. mm. She had  
crawled down hill a distance  
of fully eight feet from where  
she had been shot, a trail of  
most badly wounded animals.

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Page 4, 1833 (Continued)

Main body of handwritten text, appearing as a list or series of entries.

W. B. Davis,

Pinchot Creek, White Mountains <sup>62,</sup>  
8200 ft., Esmeralda Co., Nevada

June 5, 1933.

As a result of this find of *Cories* so near at hand, we decided to search the nearby rock slides and succeeded in locating several others, but failed to bag any. I set out five rat traps for them, four near a place they were heard "squeaking" and one near a hay pile under a large boulder.

We had not suspected the presence of these *Cories*, for we were in the bottom of the canyon and all those located were back of a small hill and we could not hear them from camp. The one I killed this morning made no sound, but the movements attracted my attention.

I caught two *Thomomys* in my two sets but one was so badly eaten by ants that it had to be discarded.

It snowed this morning and the sky this evening bids fair of another storm tonight.

*[Faint, mirrored handwriting, likely bleed-through from the reverse side of the page. The text is illegible due to fading and mirroring.]*

W. B. Davis.

63.  
Cloverdale Ranch, 22 mi. w  
Manhattan, 5697 ft., Nye Co., Nevada

June 6, 1933.

I looked at my traps this morning in Pinchot Cr. Canyon but had no luck with the Comice. Peromyscus had eaten the bait off four traps and the one set near the "hay pile" had been partially covered with grass.

Examination of the "hay pile" revealed the following: grasses, pine needles, pine cones, pine stems, thistles and other herbs I did not know.

We broke camp and left Pinchot Canyon at 10:30 A.M. and drove to Tonopah via Coaldale. We talked with Carl Rick, the game warden at Coaldale, and were informed that the Mt. Sheep were leaving Red Mountain and were migrating into the White Mts and the Monte Cristo Range. He said he was positive there were 15 individuals in the White Mts. and many more than that in the Monte Cristo Mts, the latter being under his close care, observation and protection.

1870  
October 20th

I have just received your letter of the 15th and am glad to hear from you. I am well and hope these few lines will find you the same. I have not much news to write at present. The weather here is very pleasant at the moment. I have been thinking of writing you for some time but have been so busy that I could not find time. I hope to hear from you again soon. Write when you have a chance. I am, my dear friend, ever yours truly,  
Wm. Lloyd Garrison



W.B. Davis Cloverdale Ranch, 22 mi W Manhattan,  
5697 ft., Nye County, Nevada.

June 6, 1933.

He keeps a spring dug out for them in what he calls "Sheep Canyon",  $4\frac{1}{2}$  mi. NE of Coaldale and he says he has counted as many as 159 there at one time. He said they were very tame and could be approached within 25 yds. The ewes have had their lambs now, but they are still very small.

He has been having trouble with poachers and he claimed it did no good to cause an arrest for the Justices of the Peace were giving him no support.

We noticed plenty of old deer sign in Pinchot Creek Canyon but could find no deer nor any new sign. Mr. Riek said the presence of numerous Mt. Lions in that region kept the deer down in numbers, and I can well believe it from the number of Mountain Lion tracks we saw there.

We arrived in Tonopah at 11:30 P.M., got our mail, ate

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

W. B. Davis

65,

Cloverdale Ranch, 22 mi W Manhattan  
5697 ft., Nye County, Nevada.

June 6, 1933.

dinner and drove to the above locality. There was a heavy rain over the whole valley (this afternoon), but when we got here evidence indicated the fall had been been slight there.

We made camp and set out to look for Thomomys in the fields of this ranch. Both Russell and I looked the whole place over (I went at least a mile above the ranch house) but we could find no evidence of the presence of gophers. There were no mounds, new nor old, and the Indian working on the ranch told me he had never seen any there.

Amnospermophilos are common enough and are considered as pests. These animals are called "gophers" by the residents here.

Handwritten text at the top of the page, possibly a header or title, written in cursive.

Main body of handwritten text in cursive script, consisting of approximately 20 lines of text. The handwriting is consistent and fills most of the page.

W.B. Davis.

Cloverdale Ranch, 22 mi. W Manhattan,  
5697 ft., Nye Co., Nevada.

June 7, 1933.

Spent part of the forenoon  
making up specimens collected  
at Pinchot Creek.

Pinchot Creek, White Mountains  
8200 ft., Esmeraldo Co., Nevada,

June 5, 1933.

201 ♀	<u>Ochotona</u>	4 emb x 3.5 mm.	192-15-27-20	wt. 156.8g.
202 ♂	<u>Eutamias</u>		173-76-30-17	" 31.8 "
skin + skeleton 203 ♂	<u>Thomomys</u>		204-56-27-5	" 101.8 "

Cloverdale Ranch, 22 mi. W Manhattan  
5697 ft., Nye Co., Nevada. June 7, 1933

- skeleton only  
204 ♂ Brewer Sparrow
- skeleton only  
205 ♂ Desert Sparrow
- 206 Whip-tailed Lizard
- 207 Leopard Lizard
- 208 Horned Toad.

This afternoon both Russell  
and I looked again for  
Thomomys but neither of us  
could find a trace. I went  
down the creek but it soon  
played out by disappearing  
into the desert sands.

Handwritten text at the top of the page, possibly a header or title.

Handwritten text in the upper middle section, including a date "January 1853".

Handwritten text in the middle section, possibly a list or entries.

Handwritten text in the lower middle section, possibly a signature or name.

Handwritten text in the lower section, possibly a list or entries.

Handwritten text at the bottom of the page, possibly a footer or concluding remarks.

67.

Claverdale Ranch, 22 mi. W Manhattan  
W.B. Davis 5697 ft., Nye Co. Nevada,

June 7, 1933.

The ranch area under water is about 80 acres in extent, most of which is a meadow saturated with water. The rest, used as sheep pasture, is irrigated so often and so much, by merely letting the full flow of the creek to spread over the ground, that it is likely gophers could not exist there.

Lepus californicus were quite plentiful in the Artemisia. Last night I heard the first Coyote on the trip.

The following birds were noted here:

1. Say Phoebe
2. Bullock Oriole
3. Brewer Sparrow
4. Desert Sparrow
5. Horned Lark
6. Nevada Redwing
7. Brewer Blackbird
8. Meadowlark
9. Mockingbird
10. Turkey Vulture
11. Mourning Dove
12. Post-will.

9. We were packed up and ready to go to Peavine Ranch, some 15 miles east, about noon.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



W. B. Davis

68.  
Peavine Ranch, 7 mi. N San Antonio,  
6000 ft., Nye Co., Nevada.

June 7, 1933.

We arrived here about three P.M. after passing over a barren stretch of terrain between the two ranches, save for Mud Springs about mid way. My Seyler, the owner of Peavine Ranch, an old timer here, gave us permission to trap and camp on his property. He told us there were plenty of gophers and that they were a serious pest in his gardens.

I made 10 sets in the pasture S.E. of the house. Most of this area is boggy from the numerous springs arising there, but there was much land that was damp but not saturated. Here the gophers were working.

Russell met Mr. Stevens, owner of the Cloverdale Ranch and learned that Mr. Stevens had never noticed any gophers on his place.

Mr. Seyler has a large ranch

William Lloyd Garrison  
Boston, Mass. July 20, 1840

Dear Sir,  
I have the honor to acknowledge the receipt of your kind letter of the 17th inst. in relation to the publication of the "Liberator" for the month of July. I am glad to hear that you are interested in the cause of the colored people, and I trust that your efforts will be successful in promoting their freedom and happiness. I have no objection to your using the "Liberator" for the purpose of circulating your views on the subject of slavery, and I am sure that your articles will be read with interest and profit by all who are concerned in the cause. I am, Sir, very respectfully,  
Your obedient servant,  
Wm. Lloyd Garrison

69.  
 Peavine Ranch, 7 mi. N. San Antonio,  
 6000ft., Nye Co., Nevada.

June 7, 1933

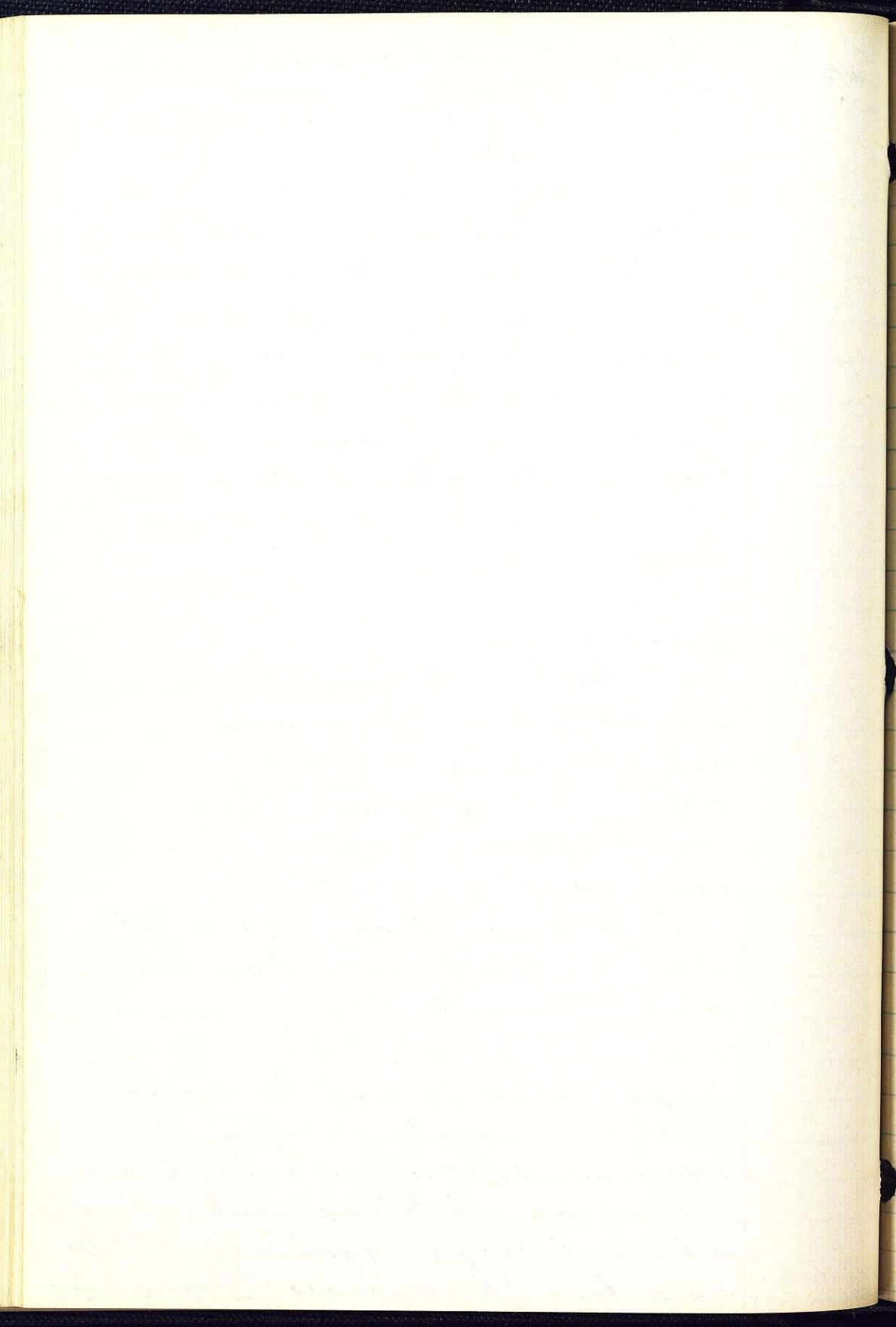
Here, raise a good deal of alfalfa, has a large orchard and a good sized garden. This is possible on account of the water available from Peavine Creek which heads in the Toiyabe Mountains NW of here.

We saw our first black-billed Magpie today.

June 8, 1933.

I looked at my Thomomys sets this A.M. Had seven, 2 adult males, 4 adult females and 1 young female. Reset all my traps and spent the A.M. in making up skins.

Visited my traps again after dinner and had 1 ♂ and 3 ♀ adults and 1 young ♀. The young one was not saved. Reset all my traps in different burrows. Killed a male and female Mountain Bluebird which were saved as skeletons only. Looked at my traps again at 4 P.M. and had three more Thomomys



70.  
Plevine Ranch, 7 mi N San Antonio,  
6000 ft., Nye Co., Nevada.

June 8, 1933.

1 ♂ and 2 ♀♀. Also killed a male Lazuli Bunting and a ♂ Yellow Warbler both of which were saved as skeletons only.

Have just about trapped out the area I am working except a few small burrows. Reset my "sprung" traps and also set four rat traps for "Ammas" in a dry waste field along the creek SE of the ranch house. Their burrows are quite numerous there and yesterday evening I saw two of them disappear down burrows at my approach.

Russell has been trapping in the orchard and garden and says he is about out of gophers in his area.

I talked with an Indian who is working here and he claims there are plenty of deer near the headwaters of Plevine Creek. He also claims he has seen *Spilogales* along the creek but denies the presence of *Citellus grammurus*. We have seen no

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

Leavine Ranch, 7 mi. N. San Antonio,  
6000 ft., Nye Co., Nevada.

June 8, 1933.

Rock Squirrels though we have looked and the territory looks very favorable.

I have seen the following birds here:

1. Black-billed Magpie.
2. Mountain Bluebird
3. Lazuli Bunting
4. Nevada Redwing
5. Brewer Blackbird
6. Western Wood Pewee
7. Arkansas Kingbird
8. Poorwill (Heard one)
9. Chat (heard one but couldn't see it)
10. Tree Swallow
11. Rough-winged Swallow.
12. Brewer Sparrow.
13. Western Meadowlark
14. Yellow Warbler.
15. Mockingbird
16. Rock Wren.
17. Cedar Waxwing.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



W. B. Davis.

72,  
 Bearvine Ranch, 7 mi. N. San Antonio,  
 6000 ft., Nye Co., Nevada.

June 8, 1933.

209♂	<u>Thomomys</u>	230-73-30-6	wt. 149.0 gr.
210♂	"	270-88-33-8	" 212.6 "
211♀	"	208-63-28-6	" 94.0 "
212♀	"	216-65-30-6	" 107.8 "
213♀	"	215-77-31-6	" 134.1 "
214♀	"	210-67-27-6	" 120.0 "
215♂	"	233-76-30-6	" 177.0 "
216♀	"	208-68-28-6	" 114.5 "
217♀	"	216-70-30-6	" 105.3 "
218♀	"	204-60-29-6	" 103.0 "
skeleton only	219♂	Mountain Bluebird. Testes 12 mm.	27.5 "
skeleton only	220♀	" " Ovaries 1 m. sw.	31.5 "
	221♂	<u>Thomomys</u> . 235-74-31-7	" 175.2 "
	222♀	" 210-74-31-6	" 119.1 "
	223♀	" 214-69-30-6	" 132.0 "
skeleton only	224♂	Yellow Warbler	" 8.9 "
skeleton only	225♂	Lazuli Bunting.	" 13.3 "

12  
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June 11, 1933.

We spent the morning of June 9<sup>th</sup> in packing and getting things in order so we could visit the Pablo Ranch, on Pablo Creek on the west side of Big Smoky Valley about 15 miles north of Reavine Ranch, to trap for Thomomys.

We broke camp about noon, drove to the Pablo Ranch and investigated for Thomomys workings. None was found. The only crop being raised, save a small orchard and berry patch, was alfalfa and the method of turning the entire supply of water from the creek onto the fields is probably the cause for the lack of gophers. The ground is soaked most of the time but since the soil is composed of alluvial sand with plenty of gravel down deeper, permitting excellent drainage into the valley below, this type of irrigation can be resorted to without damage to the crops. We looked through the orchard, the pasture and the alfalfa



Meadow Creek Ranger Station  
Toiyama Mts., Gye Co., Nevada,

June 11, 1933.

but could find no single trace of *Thomomys*.

We left Pablo Ranch the same afternoon, about 2:00 P.M., heading for the east side of Mt. Jefferson via Manhattan, and Meadow Creek Ranch and arrived here about 5:30 P.M. June 9.

Mt. Jefferson lies to the north of our camp about four miles. This mountain has three peaks, South Summit, Middle Summit, and North Summit; the latter being about seven miles north of here. At this writing there is ~~is~~ very little snow on the mountain and the bare, rock slopes on this, the east, side give little hope of finding much wild life on them.

We are camped in a little two-roomed cabin about 100 yds ENE of the Ranger Station, and between our camp and the hills on the east lies a large green, boggy meadow thru which Meadow Cr. flows.

The soil is sandy with many rocks on

Received of Mr. J. H. ...

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Meadow Creek Ranger Station,  
Toiyama Mts., Toiyabe Co., Nevada.

June 11, 1933.

the hills and the entire region is covered with Artemisia, dotted here and there with Pinus monophylla.

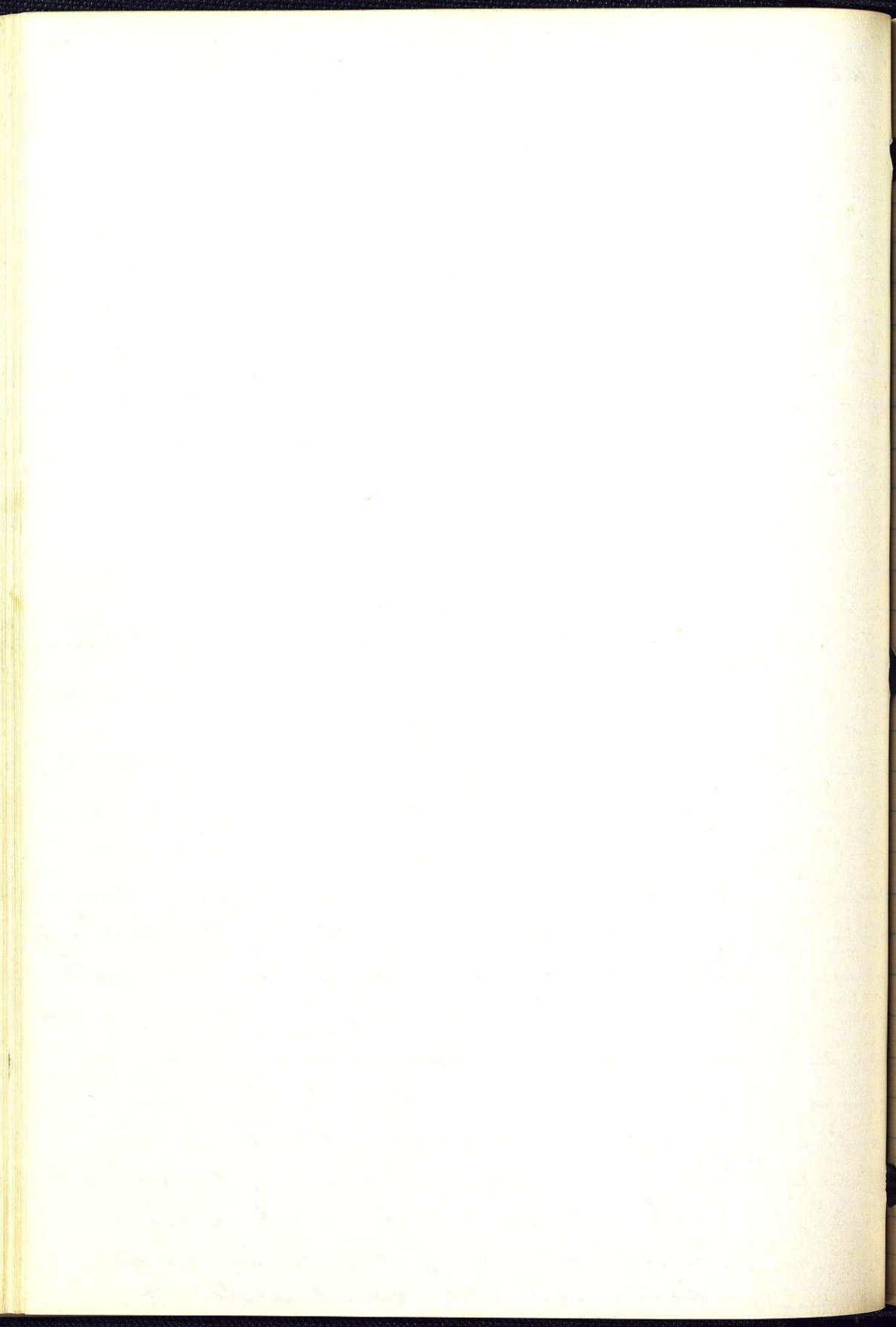
Our maps give no elevation for this area, but I believe this locality to be somewhere near 7,500 ft., and Mt. Jefferson to be about 3,000 ft. higher.

I set a dozen mouse traps in the cabin to rid it of any mice that might be living there. Also made one set for Thomomys.

June 10.

Had 1 ♀ Dipodomys and 2 ♂♂ 1 ♂ Peromyscus m. sonoriensis in my traps in the cabin and a good adult ♂ gopher in the gopher set.

We left camp at 7:00 A.M. to climb Mt. Jefferson in search for Marmots. This is type locality for M. f. parvula that Howell described in 1915. We climbed the ridge to the west of camp and from there to the top of South Summit, investigating rock slides and rock piles for evidence of their presence. I followed the east side of





W. B. Davis.

Meadow Creek Ranger Station,  
Toiyama Mts., Nye Co., Nevada,  
(Written June 11, 1933)

76.

June 10, 1933.

Jefferson Creek, crossed over and followed Wild Horse Canyon to the top, working over all the rock slides available. I reached the top about 12:30, ate lunch, walked out onto part of Middle Summit and returned to camp via Sawmill Canyon, Wild Horse Canyon, Jefferson Creek and then by following the west side of the ridge back to a place opposite camp. Arrived in camp about 6:00 P.M. having hiked about 15 miles.

I saw no sign of Marmots, though Russell found old droppings on the ridge about two miles S. of the South Summit. I found several slides in which there were Conies, but did not succeed in taking any.

I took two Eutamias, one picture the other quadrivittatus, and one Clark Nutsacker.

Mr. Storch, manager of the Meadow Creek Ranch told us he had ridden this part of the country for the past two

Dear Mother  
I received your letter  
of the 10th and was  
glad to hear from  
you.

I am well and hope  
this finds you the same.  
The weather here is  
very pleasant at  
present. I have not  
heard from you for  
some time. I hope  
you are all well.  
I am writing you  
now. I hope you  
will write soon.  
I am your affectionate  
son,  
John Doe

W.B. Davis.

Meadow Creek Ranger Station,  
Toiyama Mts., Nye Co., Nevada,  
(Written June 11, 1933)

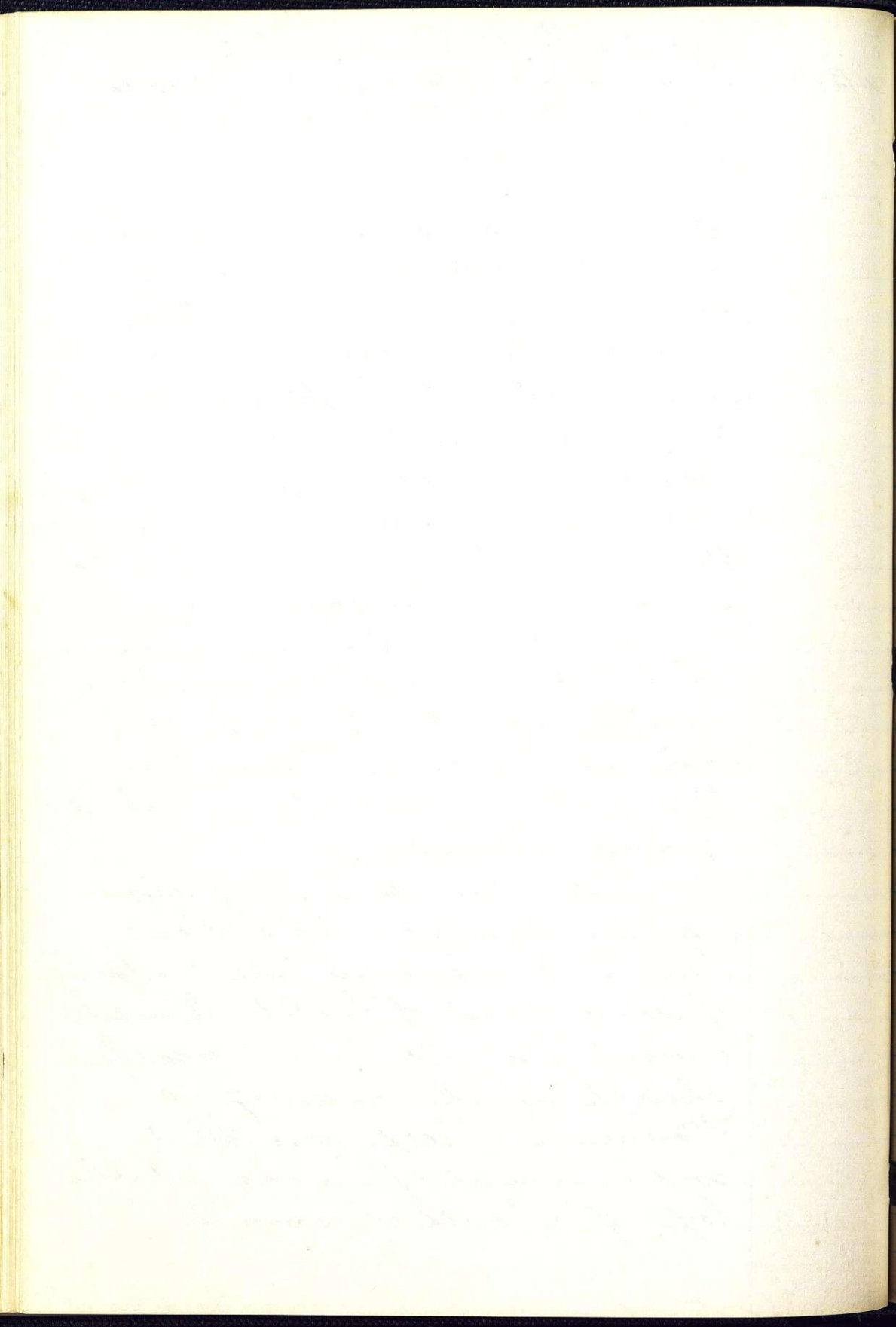
77

June 10.

years and he had never seen any Marmots. The Indians with whom we have talked, however, claim they are in here. The presence of old droppings prove they have been here and I can think of no reason for their seeming absence now other than the long dry season that has prevailed for the past 5 or 6 years.

I saw the following birds on this hike: Clark Nutcracker, abundant; Rock Wren 4+; Horned Lark sp? 4.; Mountain Bluebird, 2; Mountain Chickadee, 1; Sage Thrasher, 2.

Old Mountain Sheep sign was plentiful on top of South Summit as were the droppings of some kind of Rabbit. Russell found an old, much weathered sheath of the horn of a Mountain Sheep on the monument of rocks at the top of South Summit.



W. B. Davis,

Meadow Creek Ranger Station 78,  
Toiyama Mts, Nye Co., Nevada,

June 10,

226♂	<u>Thomomys</u>	217-74-30-5	wt. 174.7 gr.
		4 emb x 30 mm.	
227♀	<u>Dipodomys</u>	235-130-40-14	" 57.9 "

3.5 mi N Meadow Creek Ranger  
Station, Toiyama Mts, Nye Co., Nevada.

June 10, 1933.

228♀	<u>Eutamias</u>	222-78-31-18	wt. 50.5 gr.
229♂	"	158-64-27-14	" 31.2 "
230♀	Clark Nutcracker		

Thomomys workings are quite numerous both here and farther up on the mountain. Have noted several Callospermophilus around rock piles near camp. Eutamias are present, too.

From the meadow about a mile east of camp I saw several small brown Citellus. They probably are C. mollis.

Mr. Sturck reported Porcupines were numerous here, and that they were doing considerable damage to his wheat crop by eating the heads of the plants.

Around camp I have

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June 11, 1933.

noted the following birds,

1. Horned Lark subsp.?
2. Brewer Blackbird.
3. Barn Swallow
4. Rough-winged Swallow
5. Mountain Bluebird, a pair  
have a nest in a box nailed to  
the wall of the small back  
room of this cabin. Five partly  
incubated eggs are in the nest.
6. Say Phoebe
7. Brewer Sparrow
8. Sage Thrasher
9. Pinon Jay
10. Rock Wren
11. Black-billed Magpie. These  
are in the willows along  
the creek about a mile E of  
camp.
12. Red-shafted Flicker.
13. Sparrow Hawk.
14. Western Red-tail.
15. Turkey Vulture.
16. Green-tailed Towhee.

The first of these is the  
 fact that the population  
 has increased rapidly  
 since the beginning of  
 the century. This is  
 due to a number of  
 causes, the most  
 important of which  
 are the discovery of  
 gold in California  
 and the invention of  
 the steam engine.  
 The second is the  
 fact that the  
 population has  
 increased rapidly  
 since the beginning  
 of the century.  
 This is due to a  
 number of causes,  
 the most important  
 of which are the  
 discovery of gold  
 in California and  
 the invention of  
 the steam engine.  
 The third is the  
 fact that the  
 population has  
 increased rapidly  
 since the beginning  
 of the century.  
 This is due to a  
 number of causes,  
 the most important  
 of which are the  
 discovery of gold  
 in California and  
 the invention of  
 the steam engine.  
 The fourth is the  
 fact that the  
 population has  
 increased rapidly  
 since the beginning  
 of the century.  
 This is due to a  
 number of causes,  
 the most important  
 of which are the  
 discovery of gold  
 in California and  
 the invention of  
 the steam engine.  
 The fifth is the  
 fact that the  
 population has  
 increased rapidly  
 since the beginning  
 of the century.  
 This is due to a  
 number of causes,  
 the most important  
 of which are the  
 discovery of gold  
 in California and  
 the invention of  
 the steam engine.



June 11, 1933.

This afternoon was spent in hunting and setting out traps near camp.

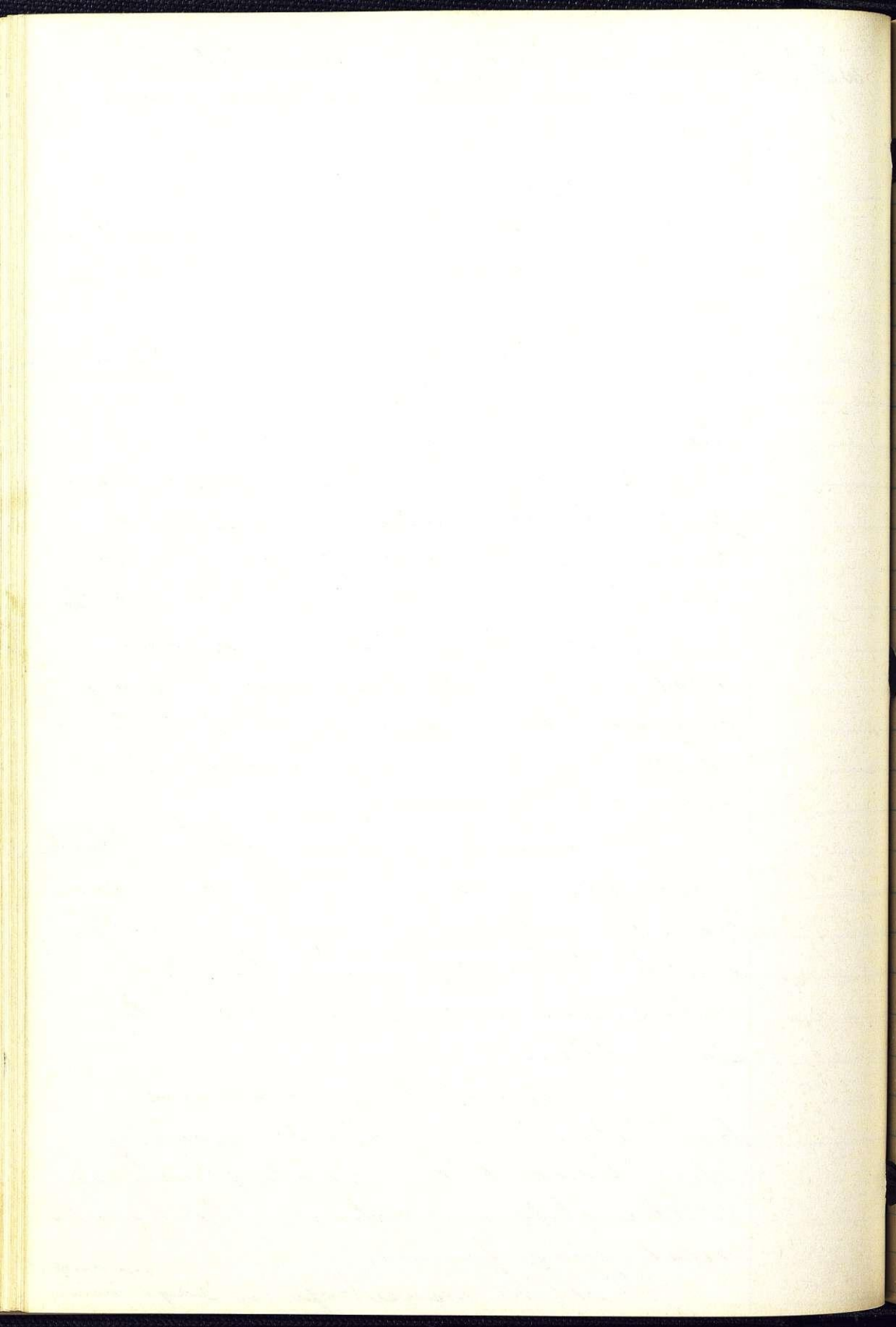
I made five sets for *Thomomys* in the semi-boggy ground along the creek about 100 yds. south of camp. The ground is a soft, black, peat-like formation and the runways were so large I could shove my doubled-up fish into them.

Russell found a Red-tail's nest, on a cliff just east of camp across the meadow, that contained three large young hawks. These were taken alive.

I collected a pair of Say Phoebe. They had a nest under an overhanging ledge of rock near the creek. The eggs were too far advanced in incubation to save them.

A colony of Cliff Swallows has taken up its abode nearby. They have their nests plastered to the cliff on which the hawk's nest was found.

I set 15 mouse traps in sage near <sup>camp.</sup>



Meadow Creek Ranger Station,  
Toiyama Mts., Nye Co., Nevada,

June 12, 1933.

231 ♂	<i>Perognathus parvus</i>	147-87-22-8.5	wt. 16.0 gr.
232 ♂ skeleton only	<i>Dipodomys ordii</i>	227-139-39-14	" 50.6 "
233 ♂ skeleton only	Say Phoebe <i>ms</i>		" 14.0 "
234 ♀	" "	<i>ms</i>	" 12.0 "
235 ♂	<i>Thomomys bottae</i>	227-67-30-5	" 165.2 "
236 ♂	" "	222-64-31-5	" 169.6 "
237 ♀	" 5 emb x 10 mm.	231-74-31-6	" 155.5 "

Antone Creek, 2 mi. S. Meadow Creek  
Ranger Station, Toiyama Mts., Nye Co.,  
Nevada. June 12, 1933.

238 ♀	<i>Citellus oregonus</i>	278-70-40-15 5 emb x 20 mm.	wt. 329.2 gr.
239 ♀	<i>Sylvilagus nuttallii</i>	385-60-95-78	" 883.4 "

Out of the fifteen traps set in the *Artemisia* near the cabin I took 3 ♂, 1 ♀ *Peromyscus ms.*, 1 ♂ *Perognathus parvus*, 1 ♂ *Dipodomys ordii*; the last two were saved as specimens.

We left camp this A.M. about 6:00 to look for Marmots along Antone Creek, a tributary of Meadow Creek which enters the latter about two miles south-east of camp. We had

Washed out by the rain...

2810 Propaganda... 2811... 2812... 2813... 2814... 2815...

Washed out by the rain...

2816... 2817...

Out of the fight... the... that... 10... 11... 12... 13... 14... 15... 16... 17... 18... 19... 20... 21... 22... 23... 24... 25... 26... 27... 28... 29... 30... 31... 32... 33... 34... 35... 36... 37... 38... 39... 40... 41... 42... 43... 44... 45... 46... 47... 48... 49... 50... 51... 52... 53... 54... 55... 56... 57... 58... 59... 60... 61... 62... 63... 64... 65... 66... 67... 68... 69... 70... 71... 72... 73... 74... 75... 76... 77... 78... 79... 80... 81... 82... 83... 84... 85... 86... 87... 88... 89... 90... 91... 92... 93... 94... 95... 96... 97... 98... 99... 100...

June 12, 1933.

Was told by Mr. Stuart the the government trapper had told him he had seen Marmots near an old mine 1.5 mi. up Antone Creek. We searched the rocks for sign, but found nothing fresh, and saw no trace of Marmots even though we walked at least a mile and a half up the creek from the mine. In all we hiked about ten miles.

Conies were heard in the rock slides and "Callas" were quite numerous around the mine. I saw two Pygmy Rabbits in the tall sage along the creek. Citellus oregonus were found in several places along the road between our camp and the cabin at the mine and I succeeded in taking one adult female. These are the same ones mentioned on page 78 in my notes. Several half-grown young were noticed.

We got back at our camp about noon and spent from

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June 12, 1933.

then until four o'clock preparing specimens.

Our water supply was exhausted so we loaded the cans into the truck along with a few traps and drove back to the mine. Russell set several rat traps for "Callos" and one steel set at a hole under the cabin, into which I had seen something large and brownish-gray disappear on our first visit, and we hoped our catch might be a Marmot. Russell noticed a Microtus mordax in the grass along the stream in the morning when we were there, so each of us set 15 mouse traps along the creek.

I noticed two Fox Sparrows along the stream, one of which had a worm in its mouth and which disappeared into a thicket of willows.

We loaded our cans at a clear, cold spring and got back to camp about 6:00 P. M.

I set 15 mouse traps 30 paces apart in the Artemisia near camp.

My dear Mother

I received your letter of the 10th and was  
 glad to hear from you and to hear  
 that you were all well. I am well  
 at present and hope these few lines  
 will find you all the same. I have  
 not much news to write at present  
 but I thought I would write a few  
 lines to let you know how I am  
 getting on. I am still in the  
 hospital and am getting on  
 better every day. I have been  
 able to walk a little and  
 to eat a little more. I am  
 still a little weak but I  
 am getting on better every day.  
 I have not much news to write  
 at present but I thought I  
 would write a few lines to  
 let you know how I am  
 getting on. I am still in the  
 hospital and am getting on  
 better every day. I have been  
 able to walk a little and  
 to eat a little more. I am  
 still a little weak but I  
 am getting on better every day.



Meadow Creek Ranger Station,  
Toiyama Mts., Nye Co., Nevada.

June 12, 1933.

While at the mine I shot a Sylvilagus nuttallii. We ate the rabbit for supper and saved the skin and skull as a specimen.

About half a mile up Antone Creek there is a large cliff containing many "pot holes" and in one such hole was the nest of a Red-tail. We were unable to ascertain the contents of the nest, but we did see the adult bird. A colony of Cliff Swallows was also nesting there, and the presence of a Sparrow Hawk nearby might be an indication that it, too, was using this cliff for a nest site.

In the forenoon, when we were afoot along Antone Creek, we found several nests of the Black-billed Magpie, all of which contained young. The nests were placed in the rather scanty, slender, growing willows along the creek and none of them was more than twelve feet above the ground. They were easily visible in such locations.

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June 13, 1933.

240 ♀ Perognathus parvus 174-94-28-8 wt. 17.2 gr.241 ♀ Thomomys (5emb x 20) 210-58-28-6 " 141.5 "

I got up about 6:00 this morning and looked at my traps; the mouse traps set last night and two gopher sets that had been out since the 11<sup>th</sup>. I caught 1 ♀ Thomomys, 1 ♂ Perognathus parvus and 1 ♀ Peromyscus m. sonoriensis. Took in all of my traps.

We drove back to the mine to look at our traps. On the way over I drove the truck and Russell succeeded in killing three Citellus oregonus. I had only one ♂ Peromyscus in my traps. Russell took two Microtus mordax and two "Callos". Nothing was in the steel set. We collected all our traps and returned to camp where we spent the major portion of the remaining time in making up specimens and writing notes.

I found fresh sign of Brachylagus idahoensis in the tall sage not over 50 yards from camp, but could locate no freshly used burrows.

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Main body of handwritten text, consisting of several paragraphs. The text is extremely faint and difficult to decipher, but appears to be a continuous narrative or report.

June 14.

Got up about 5:30 A.M. - and looked at 25 mouse traps I had set in the open Artemisia last night. Caught 3♂, 1♀ Peromyscus m. sonoriensis, all of which were fed to the young Western Red-tails we have captive.

We left camp at 7:00 A.M. and investigated Mt. Toiyama, a peak in the Toiyama Mountains some two or three miles to the SW of camp, for sign of Marmots. Although all the likely looking rock piles and slides were investigated we could find no trace of them. In fact, very little animal life was found on the course of this six mile hike.

I saw five deer, one of which was a buck with horns that were just beginning to grow. All five were hemionus. This was the best looking deer country we have seen in this locality. The cover consists of thickets of Mountain Mahogany and Quaking Aspen. Plenty of water is available in the numerous streams that head on

Dear Mother  
I received your letter of the 10th and was  
glad to hear from you.

I am well at present and hope  
these few lines will find you the same.  
I have not much news to write at  
present. Everything is quiet here.  
I have been thinking of you very  
much lately and wondering how you  
are getting on. I hope you are  
well and happy. I have not  
heard from you for some time.  
I have been very busy lately  
but I will try to write to you  
more often. I have not much  
news to write at present.

I have been thinking of you  
very much lately and wondering  
how you are getting on. I hope  
you are well and happy. I have  
not heard from you for some  
time. I have been very busy  
lately but I will try to write  
to you more often. I have not  
much news to write at present.

June 14, 1933.

this peak.

I took one "Call" high on the east side of the peak near the headwaters of a small creek. I also saw two Eutamias and one Cotton-tail.

Birds were not numerous, the Clark Nutcracker being the most common. I saw the following birds:

1. Mt. Chickadee
2. Clark Nutcracker
3. Sage Hen
4. Mt. Bluebird
5. R.-s. Flicker
6. Rock Wren
7. Brewer Sparrow
8. Green-tailed Towhee
9. Thrush sp?
10. Purple Finch. sp?
11. Warbler sp? Looked something like an Audubon Warbler but I couldn't get a good look nor a good shot at it.
12. Nuthatch sp?

Found a nest of a Green-tailed Towhee containing four fresh eggs. The nest was placed in a rather large bushy-topped Artemisia about two feet off the ground. The bird flushed when I was about five feet from the nest. The outer nest was made of Artemisia twigs and the inner nest was lined with cow hair.

William Lloyd Garrison  
Boston July 1840

Dear Sir  
I have the honor to acknowledge the receipt of your kind letter of the 27th inst. in relation to the publication of the "Liberator" and to be assured that your interest in the cause of the oppressed is ever a source of satisfaction to me. I have the pleasure to inform you that the "Liberator" is published every week, and is sold at the rate of one cent per copy. It is published by W. L. Garrison, No. 25 North Street, Boston. I have the honor to be, Sir, your obedient servant, W. L. Garrison



W.B. Davis.

Meadow Creek Ranger Station,  
Toiyama Mts., Nye Co., Nevada.

June 14, 1933.

I also located a Brewer Sparrow's nest containing one fresh egg. Birds at this elevation are nesting rather late, though Russell found a nest of Pica p. hudsonica with 7 heavily incubated eggs.

2 mi. SW Meadow Creek Ranger Station, Toiyama Mts., Nye Co., Nevada.

June 14, 1933.

- 242 ♂ Callospermophilus 257-97-39-18 wt. 135.0g.
- 243 Green-tailed Towhee's Nest + 4 fresh eggs. Nest placed two feet off the ground in the larger branches of an Artemisia.

We have been here six days, hiked over 30 miles of mountainous country and have utterly failed to find any traces of Marsnots having been in this region recently.

This is our last camp on this trip, so tomorrow, June 15, we leave here and head for Berkeley, California via Austin, Reno and Sacramento. We have

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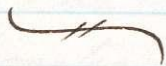
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W. B. Davis.

Meadow Creek Ranger Station 89.  
Toiyama Mts., Nye Co., Nevada.

June 14, 1933.

experienced ideal weather conditions most of this trip and have not been impeded by late lying snows. Our stay in the White Mountains was the only stop where we suffered from cold.



We left Jefferson country at 6:00 A.M. and drove straight through to Orville, California, arriving there at 11:00 P.M. the same day.

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W. B. Davis. 8 mi. E Reno, 4500 ft., Washoe Co., Nevada. June 28, 1933

- 244 ♀ Perognathus formosus 182-103-23-9
- 245 ♀ " " 175-93-23-10
- 246 ♂ Ceronyxus crinitus 176-95-23-19.

Toiyama Range, 1 mi E Jefferson,  
7600 ft., Nye Co., Nevada. June 29, 1933.

The group of us left Berkeley June 27 at 9:15 AM. in foggy weather. This climatic condition cleared up when we reached the Sacramento Valley. We ate dinner at Roseville and left there at 1:05; passed through Colfax at 2:20 P.M. and reached the Summit of the Sierras at 4:25. We ate supper in Reno; left there at 7:00 P.M. and made camp for the night along side the road by a barren, rock strewn hill eight miles east of Reno. Ward Russell and I put out individual trap lines. I placed fifteen traps at 20 paces intervals along the slope of the side of the hill, practically all of them being placed in rather rocky situations. Saw numerous Night Hawks this evening.

Dear Mother  
I am so glad to hear from you

I am well and hope these few lines  
will find you all the same

I have not much news to write  
at present. The weather is  
very warm here now. I  
am going to the city  
tomorrow. I will write  
again when I hear from  
you. Give my love to  
all the folks. I am  
your affectionate son,  
John Doe

Berkeley, Alameda County, California <sup>90a</sup>

Nov. 30, 1933.

The remainder of these notes are copies of those made by me when I was a member of the Zoology Class 1933 Nevada Collecting Expedition. I was serving as cook for the group from June 28 to August 1 - at which latter date Hall and the main group returned to Berkeley while Russell, Gosham and I remained in the field until August 14<sup>th</sup>.

Members of the party were;  
Dr. E. Raymond Hall - In charge.  
Ward Russell - Field assistant  
W. B. Davis - Cook.  
Francis Gayle - U.S.C.  
Frank Gosham U.C.  
Dr. Paul Wilson - Marin Jr. College.  
Steven D. Durrant. U. of Utah.  
Olie. Lilieland - Pasadena Jr. Hi. Sch.  
Jack Arnold - Colinga High School.

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Toquima Range, 1 mi. E Jefferson,  
7600 ft., Nye Co., Nevada,

June 29, 1933.

On the morning of the 28<sup>th</sup> I found four mammals in my traps; 2 ♀ Perognathus formosus, 1 ♂ Peromyscus crinitus, and 1 ♂ Neotoma lepida lepida. The first three were saved as specimens.

We broke camp at 5:20 and drove to Fallon for breakfast.

Between Reno and Fallon the following birds and mammals were noted:

- Lepus sp? Run over in road.  
Citellus mollis - Common - near Fallon.  
 Cosmoant sp. - on Truckee River.  
 Black-billed Magpie.  
 Yellow-headed Blackbird.  
 Arkansas Flycatcher.  
 Gull - Calif. or Ring billed?  
 Killdeer 30+  
 Arvicola 30+  
 Red-billed Grebe.  
 Coot.  
 Canvas-back  
 Valley Quail  
 Sage Thrasher  
 White-faced Glassy Ibis. 6

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W.B. Davis Toquima Range, 1 mi. E. Jefferson,  
7600 ft., Nye Co., Nevada.

June 29, 1933.

Ate dinner in Austin and drove to the above locality, arriving about 6:30 P.M. having traveled 445 mi. from Berkeley in the two days.

2470♂ Microtus mordax 159-50-21-12  
Caught in grass along the stream.

June 30, 1933

Toquima Range, 1 mi. E. Jefferson,  
7600 ft., Nye Co., Nevada

248♂ Eutamias minimus pictus  
184-80-28-14 wt. 38.4 gr.

July 1, 1933

Toquima Range, 1 mi. E. Jefferson  
7600 ft. Nye, Co., Nevada.

- 249♂ <sup>or</sup> Western Warbling Vireo wt. 12.0 gr.
- 250♂ Hummingbird - Selasphorus platycercus 3.3 ..
- 251♂ Western Chipping Sparrow .. 12.4 ..
- 252♂ Audubon Warbler .. 12.4 ..
- 253♂ Lazuli Bunting (Coll. by J. F. Arnold) <sup>or</sup> .. 15.2 ..

July 1, 1933

Toquima Range, N. slope Toquima Peak.  
9300 ft., Nye Co., Nevada.

254♀ <sup>P. o. obscurus</sup> House sp.? (Coll. by W.C. Russell) wt. 891 gr.

*Agave americana* L. var. *complanata* L.  
7500 ft., Type C, Toluca

January 29, 1933

2475 *Agave americana* L. var. *complanata* L.  
Collected in the same locality as  
specimens about 5000 ft. during  
the visit to the area from Toluca  
in the two days  
2476 *Agave americana* L. var. *complanata* L.  
Collected in the same locality as  
specimens about 5000 ft. during  
the visit to the area from Toluca  
in the two days

June 30, 1933

2477 *Agave americana* L. var. *complanata* L.  
7500 ft., Type C, Toluca  
2478 *Agave americana* L. var. *complanata* L.  
7500 ft., Type C, Toluca  
19-M-23-14 wt 22 gms

July 1, 1933

2479 *Agave americana* L. var. *complanata* L.  
7500 ft., Type C, Toluca

- 2480 *Agave americana* L. var. *complanata* L.
- 2481 *Agave americana* L. var. *complanata* L.
- 2482 *Agave americana* L. var. *complanata* L.
- 2483 *Agave americana* L. var. *complanata* L.

July 1, 1933

2484 *Agave americana* L. var. *complanata* L.  
7500 ft., Type C, Toluca  
19-M-23-14 wt 22 gms

W.B. Davis

Toquima Range, 1 mi. E. Jefferson,  
7600 ft., Nye Co., Nevada.

July 4, 1933.

Toquima Range, S.W. slope Mt.  
Jefferson, 11000 ft., Nye Co., Nevada.

July 2, 1933

255 ♀ Mt. Bluebird (skeleton only) wt. 30.7 gr.

Toquima Range, 2 mi. E. Jefferson  
7800 ft., Nye Co., Nevada.

256 ♂ Tolmie Warbler wt. 11.2 gr.

Monitor Valley, 9 mi. E. Toquima Mt.,  
7000 ft. Nye Co., Nevada.

July 7, 1933

257 ♀ Neotoma l. lapida 251-81-29-28 wt. 138.3 gr.

Trapped in a deserted house.

Hot Creek Range, 8 mi. W. Tybo,  
5700 ft. Nye Co., Nevada.

July 9, 1933.

258 ♂ Crotaphytus C. baileyi

Taken among rocks in old stream bed.

9 mi. W. 3 mi S. Tybo 6200 ft.,  
Nye Co., Nevada

July 10, 1933

259 Microdipodops megacephala 160-79-24-11 (E.R. Hall. coll.)

260 " " " " - 81.5-24-11 (Coll. by E.R. Hall)

261 " " " " 152-84-23.5-11 (E.R. Hall coll.)

262 " " " " 154-81-23.5-10 ( " " )

Jefferson Range, 2000 ft., Type C, 1933

July 4, 1933

Jefferson Range, 2000 ft., Type C, 1933

July 5, 1933

Jefferson Range, 2000 ft., Type C, 1933

Jefferson Range, 2000 ft., Type C, 1933

July 7, 1933

Jefferson Range, 2000 ft., Type C, 1933

Jefferson Range, 2000 ft., Type C, 1933

July 9, 1933

Jefferson Range, 2000 ft., Type C, 1933

Jefferson Range, 2000 ft., Type C, 1933

July 10, 1933

Jefferson Range, 2000 ft., Type C, 1933

Monitor Range, Green Monster  
Canyon, 7500 ft., Nye Co., Nevada.

July 12, 1933.

9 mi. W. 3 mi. S Tulo, 6200 ft.  
Nye Co., Nevada.

July 10, 1933.

263♀ *Microdipodops megacephalus* 163-91-24-11 (E.R. Hall coll.)  
Monitor Valley, 9 mi. E. Toquima Mts  
7000 ft., Nye Nevada

July 6, 1933

264♀ *Dipodomys o. columbianus* 212-115-38.5-13  
Monitor Range, Green Monster Canyon,  
7500 ft., Nye Co., Nevada.

July 12, 1933

265♀ *Eptesicus fuscus* 114-46-9-18 Tr. 8 wt. 14.4 gr.

266♂ *Eutamias quadricinctus* 222-96-33-18 (F. Gorham Coll.) " 57.8 "

Monitor Range, Green Monster Canyon,  
7500 ft., Nye Co., Nevada.

July 13, 1933.

267♀ *Eptesicus fuscus* 120-47-9-18 Tr. 8 wt. 23.0 gr.  
1 emb x 29

268♀ " " 118-42-8-17 Tr. 8 " 21.8 "

269♀ *Tadarida mexicana* 97-35-9-18 " 15.2 "  
1 emb x 29

270♀ *Eptesicus fuscus* 118-46-9-18 Tr. 8 " 16.3 "

271♂ " " young 58-15-6.5-closed " 3.3 "

This young found with dead mother  
18 hrs. after she was shot. ♀ probably  
wounded and young born after she  
fell to the ground. Young still alive  
and very active, producing a  
continuous squeaking.

July 12, 1953  
7500 ft. Type 2, 1953

July 12, 1953  
7500 ft. Type 2, 1953

July 12, 1953  
7500 ft. Type 2, 1953

July 12, 1953  
7500 ft. Type 2, 1953

July 12, 1953  
7500 ft. Type 2, 1953

July 12, 1953  
7500 ft. Type 2, 1953

July 12, 1953  
7500 ft. Type 2, 1953

July 12, 1953  
7500 ft. Type 2, 1953

July 12, 1953  
7500 ft. Type 2, 1953

This group of fossils is well preserved  
after the usual acid treatment  
and is very similar to the  
fossils of the group from the  
same region, but showing a  
distinctive character.



July 15, 1933.

- 2729 Eptesicus fuscus 113-43-9-17 Tr. 7 wt. 18.8 gr.  
 2730 ♂ Tadarida mexicana 88-37-8.5-18 Tr. 4 " 10.0 "

Monitor Range, Green Monster Canyon.  
7500 ft., Nye Co., Nevada.

July 17, 1933.

- 2749 ♀ Eptesicus fuscus 125-50-9-18 Tr. 8 wt. 15.3 gr.  
 2750 " " 54-18-7-8 " 1.9 "

These two are mother and offspring. The mother was shot from the air the evening of July 14; The young was born that night in captivity. It was found clinging to the mother's teat. She was observed washing the young with her tongue and hovered it with her tail membrane while she was clinging to the top of the cage. The female was not fed, and on July 16 the young was found clinging to the screen on the cage separated from its mother. It was not observed with her again. Both were killed today, the ♀ still showing a great deal of vitality, tho she was pierced thru the thorax, snout and wing with shot. The young was very weak and emaciated.



W.B. Davis

Hot Creek Range, 4 mi. N. Hot Creek  
6400 ft., Nye Co., Nevada.

July 18, 1933.

Toiyama Range, 2 mi. E. Jefferson.  
7800 ft., Nye Co. Nevada.

276? Accipiter cooperi. OK

This bird was taken July 3  
along with 3 others from the  
nest while they were still in  
the "down" stage. It died last  
night. The body was very much  
emaciated, tho there were  
opportunities for eating all it  
wished. Could not sex the specimen

277♂ accipiter cooperi.

Hot Creek Range, 4 mi., N. Hot  
Creek, 6400 ft., Nye Co., Nevada.

July 18, 1933

278♀ Amnospermophilus <sup>l. leucurus</sup> 182-54-37-12 wt. 64.6 gr.  
(Collected by E. R. Hall.)

Hot Creek Range, 4 mi. N. Hot Creek,  
6400 ft., Nye Co. Nevada.

July 19, 1933.

279♀ Amphispiza <sup>OK</sup> l. deserticola wt. 14.0 gr.

July 12, 1953  
The Creek Range, near N. Hot  
Creek, 4500 ft., Type C. Terrestrial

July 12, 1953  
The Creek Range, near N. Hot  
Creek, 4500 ft., Type C. Terrestrial

2776: *Desmoulinia* sp.  
This bird was taken from  
along with a stream from the  
west while the stream was  
in its lower stage. It did not  
fly. The body was very much  
enlarged, the skin was  
opposite to the one at  
the top. It is not the same  
as 2777.

2777: *Desmoulinia* sp.  
The Creek Range, near N. Hot  
Creek, 4500 ft., Type C. Terrestrial  
July 12, 1953

2778: *Desmoulinia* sp.  
The Creek Range, near N. Hot  
Creek, 4500 ft., Type C. Terrestrial  
July 12, 1953

2779: *Desmoulinia* sp.  
The Creek Range, near N. Hot  
Creek, 4500 ft., Type C. Terrestrial  
July 12, 1953

2780: *Desmoulinia* sp.  
The Creek Range, near N. Hot  
Creek, 4500 ft., Type C. Terrestrial  
July 12, 1953

W.B. Davis Hot Creek Range, 4 mi. N. Hot Creek, <sup>97.</sup>  
6400 ft., Nye Co., Nevada.

July 19, 1933.

Ralston Valley, 34 mi. E. and 1 mi. N.  
Tonopah, 5650 ft., Nye Co., Nev. July 19, 33.

- 280 ♀ *Perognathus parvus* 165-87-22.5-8  
281 ♀ " " 167-88-22-8  
282 ♂ *Peromyscus m. sonoriensis* 159-69-20-18.  
283 ♂ " " " 166-73-20-16.  
284 ♂ *Microdipodops* 166-92-27-10  
285 ♀ " " 166-89-26-9  
286 ♂ " " 170-92-26-11  
287 ♂ " " (145)-(72)-26.3-10.2  
288 ♂ *Peromyscus m. sonoriensis* 165-70-20-19  
289 ♂ " " " 167-71-20-19

Numbers 280, 281, 282, and 283 were collected by W.C. Russell; the remainder by Frank Gorham.

Hot Creek Valley, 3½ mi. E. Hot Creek,  
5650 ft., Nye Co., Nev. July 20, 1933.

- 290 ♀ *Microdipodops* (Coll. S.D. Durrant) 161-88-23-11 wh. 12.0 gr.

Ralston Valley, 34 mi. E and 1 mi. N.,  
Tonopah, 5650 ft., Nye Co. Nev. July 18, 1933.

- 291 ♀ *Dipodomys m. levipes* (Coll. W.C. Russell) 265-155-41-13.  
292 ♀ " " " (Coll. F. Gorham) 285-161-41-14.  
293 ♂ " " " " 291-170-41-14  
294 ♀ " " " " 265-153-42-13.

8 hours that Black Canyon from the West side  
2500 ft. high to the river

July 19, 1933

Galton Valley, 34 mi. E and 1 mi. N  
Sample 250 ft. Type A. July 19, 1933

2802	Fragmentary	157-22-22-2
2812		167-22-22-2
2828	Fragmentary	177-22-22-11
2838		167-22-22-16
2848	Fragmentary	167-22-22-10
2852		167-22-22-9
2858		170-22-22-11
2872		167-22-22-10
2882	Fragmentary	157-22-22-14
2892		167-22-22-17

These are all 281, 282 and 283 were  
collected by J. S. Frazier, the name  
has by Black Canyon

That Black Canyon 34 mi. E and 1 mi. N  
2500 ft. high to the river July 20, 1933

Sample 250 ft. Type A. July 20, 1933

Galton Valley, 34 mi. E and 1 mi. N  
Sample 250 ft. Type A. July 20, 1933

2912	Fragmentary	167-22-22-11
2922		167-22-22-11
2932		167-22-22-11
2942		167-22-22-11

W.B. Davis Hot Creek Range, 4 mi. N. Hot  
Creek, 6400 ft., Nye Co., Nev.

98.

July 20, 1933

295♀ Woodhouse Jay <sup>or</sup> wt. 73.3 gr.

N. end. Reveille Valley, Old Mill  
6200 ft. Nye Co. Nev. July 22, 1933

296♀ *Peromyscus m. sonoriensis* 164-64-19-19.5 wt. 20.2 gr.

297♂ " (skull only) " 156-61-19.5-18.5 - 17.3.

298♀ " " " 165-65-19-19.5 - 18.5.

299♀ " " " 164-68-19-17.5 - 19.5.

The above four specimens were  
collected by S. D. Durrant.

Quinn Canyon Mts. Big Creek  
5700 ft., Nye Co., Nev. July 23, 1933

300♀ *Perognathus formosus* 173-95-23-10  
Collected by W. C. Russell.

Quinn Canyon Mts. Burned Cowal  
Canyon, 6700 ft., Nye Co. Nev. July 25, '33

301♂ *Erethizon spixanthus* 765-187-108-27 wt. 150.

I shot the above specimen at  
about 9:00 A.M. S. D. Durrant and I  
were driving up the canyon when  
we observed it hurrying off thru  
the *Artemisia* in order to seek  
shelter in the Pinon Pines.

18  
The first that I have seen since I have  
been to see Mr. [unclear] [unclear]

July 21, 1933

2922 *Trichostema* [unclear] [unclear]

Trichostema [unclear] [unclear]

July 21, 1933

2923 *Trichostema* [unclear] [unclear]

2924 [unclear] [unclear]

2925 [unclear] [unclear]

2926 [unclear] [unclear]

2927 [unclear] [unclear]

2928 [unclear] [unclear]

*Trichostema [unclear] [unclear]*

July 21, 1933

2929 *Trichostema* [unclear] [unclear]

2930 [unclear] [unclear]

*Trichostema [unclear] [unclear]*

July 21, 1933

2931 *Trichostema* [unclear] [unclear]

2932 [unclear] [unclear]

2933 [unclear] [unclear]

2934 [unclear] [unclear]

2935 [unclear] [unclear]

2936 [unclear] [unclear]

2937 [unclear] [unclear]



W.B. Davis Quinn Canyon Mts, Burned Corral  
Canyon, 6700 ft., Nye Co., Nevada. 99.

July 27, 1933

I set out eleven mouse traps last night near a small stream bordered by Wild Rose, Labistae, and Salix, with Artemisia just beyond these.

Out of the traps I took 5 Peromyscus m. sonoriensis, two of which were saved, and one Microtus mordax.

The latter was taken in a trap set in the middle of Wild Rose bushes. Three traps were sprung but contained nothing.

302♂	<u>Microtus mordax</u>	147-49-19-13	wt. 21.5 gr.
303♀	<u>Peromyscus m. sonoriensis</u>	156-70-18-18	wt. 19.5 "
304♂	"	" " 136-58-19-18	" 15.3 "
305♂	<u>Aphelocoma woodhouseii</u>		" 76.0 "
306♂	<u>Pipilo maculatus curtatus</u>	OK	" 39.6 "
307♂	"	" "	" 38.0 "
308♂	"	" "	" 36.6 "
309♀	<u>Carpodacus cassinii</u>		" 17.7 "
310♀	<u>Eutamias dorsalis</u>	210-90-33-18	" 53.2 "

This afternoon I hiked about 1/2 mile up the canyon looking for Pipilo m. curtatus. I took two immature birds of this species, one ♀ Carpodacus cassinii and one Eutamias dorsalis. The Pipilos were found in large

1000  
Campylopus ...  
July 27, 1933

July 27, 1933  
I set out about 100 traps  
but only one was taken  
by the first morning  
the rest were empty  
the traps were set  
in the morning  
and one was taken  
the other was taken  
in the evening of the first  
the traps were empty  
the other was taken  
in the evening of the first

- 3025 *Thymus* ...
- 3026 *...*
- 3027 *...*
- 3028 *...*
- 3029 *...*
- 3030 *...*
- 3031 *...*
- 3032 *...*
- 3033 *...*
- 3034 *...*
- 3035 *...*
- 3036 *...*
- 3037 *...*
- 3038 *...*
- 3039 *...*
- 3040 *...*

This afternoon I took about  
100 traps up the canyon looking  
for plants in certain spots  
the immediate vicinity of the  
specimens are *...*  
and one *...*  
plants were found in large

July 27, 1933.

clumps of Rosa and Salix where adequate cover was close at hand. Two ♂♂ were seen singing from the tops of Pinus monophylla which were growing in the floor of the canyon, but I was unable to get close enough for a shot.

The Eutamias was taken in the midst of Artemisia and Chrysothamnus in the floor of the canyon, though Pinus was growing not more than 100 ft. away on the sides of the hills.

Aquilegia was found growing around the three springs there and several Trochilidae were observed feeding on them.

The hillsides in this locality are composed of shales for the most part and support a heavy stand of Pinus monophylla Juniperus; the undergrowth is largely Artemisia

London, 25th July 1855  
Dear Sir

I have the pleasure to inform you that the  
specimens of the new species of  
which I have the honor to inform you  
at that time I have been  
sending from the top of the  
mountain, and I have been  
with the view of the country  
but I have not been able to  
obtain enough for a whole  
The first specimen was taken  
on the summit of the mountain  
and the second was taken on the  
flank of the mountain, though  
there was no possibility of  
them 100 ft. away from the  
of the hill.  
I have the honor to inform you  
respect to the new species  
this is not a new species  
there is no doubt that  
the first specimen was taken  
on the summit of the mountain  
the second was taken on the  
flank of the mountain, though  
there was no possibility of  
them 100 ft. away from the  
of the hill.  
I have the honor to inform you  
respect to the new species  
this is not a new species  
there is no doubt that  
the first specimen was taken  
on the summit of the mountain  
the second was taken on the  
flank of the mountain, though  
there was no possibility of  
them 100 ft. away from the  
of the hill.

W.B. Davis Quinn Canyon Mts., Burned Corral  
Canyon, 6700 ft., Nye Co., Nevada. 101

July 28, 1933.

311 ♂ Peromyscus m. sonoriensis 157.69-19-18 wt 132g.

This specimen was taken in a live trap set on the n. slope of the hill just back of camp.

Quinn Canyon Mts., Burned Corral Canyon, 6750 ft., Nye Co., Nevada

July 28, 1933

312 ♂ Lophortyx gambelii wt. 168.0g.

313 ? " " young of #312 " 32.0..

314 ? " " " " " " 20.0..

315 ♂ " " " " " " 170.7..

I have heard Quail calling for the past three days and this A.M., while on the way to the spring situated about 1/4 mi. E. of camp, I flushed two coveys, consisting of the two parent birds and the young. The parents refused to fly, though the young readily took to the air and flew about 200 ft., some of them landing in Pinus monophylla. I took the male bird of both coveys, and two young from one covey. The young kept up an incessant calling similar to that of young turkeys.

1908  
Lepidoptera  
Carpenter, 1850

July 28, 1933

3118 *Peromyscus*  
The specimen was taken in a  
low trap set on the slope of  
the hill just back of camp.  
Lepidoptera  
Carpenter, 1850

July 28, 1933

3125 *Lepidoptera*  
3126  
3127  
3128

I have been for some time  
in the field this day and the  
10th, while on the way to the  
ground situated about 1/2 mi. E.  
of camp, I finished the survey  
of the two parents  
birds and the young. The  
parents refused to fly though  
the young readily did to the  
top of the tree about 200 ft.  
Some of them landing on  
*Prunus*. I took the  
male bird of both sexes, and  
the young from the ground. The  
young kept up an incessant  
chirping when taken to the laboratory.

W.B. Davis <sup>102</sup>  
Quinn Canyon Mts. Burned  
Corral Canyon 6700 ft. Nye Co., Nev.

July 28, 1933.

Quinn Canyon Mts. Burned Corral  
Canyon, 6750 ft., Nye Co., Nev. July 29, '33

316♂ Eutamias dorsalis 203-90-31-19

317♀ " m. pictus 190-89-29-19

Quinn Canyon Mts. Burned Corral  
Canyon, 6800 ft., Nye Co., Nev. July 29 '33

318♂ Reithrodontomys 143-65-4-13

319♀ Peromyscus sonoriensis 157-67-18-18

The above two specimens were  
trapped by Jack Arnold.

Quinn Canyon Mts., Burned Corral  
Canyon, 6750 ft., Nye Co., Nev. July 29, 1933

320♂ Callospermophilus lateralis 258-90-36-18 wt 160.0g.

This is the only "Callis" I have  
seen here, though F. Gorham took  
one young one. This one was  
<sup>in</sup> a shrub, eating the fruit.

He had his pouches filled  
with the fruit. I have noticed  
that Eutamias dorsalis and E.  
pictus are often seen in  
these shrubs, and also in  
Rhus trilobata eating the fruit.

192  
Linnæus, *Systema Naturae*, 10th ed., p. 100, 1760  
Linnæus, *Systema Naturae*, 10th ed., p. 100, 1760

July 22, 1933  
Linnæus, *Systema Naturae*, 10th ed., p. 100, 1760  
Linnæus, *Systema Naturae*, 10th ed., p. 100, 1760  
315  
317

Linnæus, *Systema Naturae*, 10th ed., p. 100, 1760  
Linnæus, *Systema Naturae*, 10th ed., p. 100, 1760  
318  
319

The above two specimens were  
trapped by Jack Smith.

Linnæus, *Systema Naturae*, 10th ed., p. 100, 1760  
Linnæus, *Systema Naturae*, 10th ed., p. 100, 1760  
320  
This is the only "B" I have  
seen here, though I have seen  
one from one of the other  
to which, using the fruit  
it had the greater field  
with the fruit. I have not  
the *Systema Naturae*, 10th ed., p. 100, 1760  
factor as often seen in  
these studies, and also in  
*Rhus trilobata* with the fruit



W.B. Davis Quinn Canyon Mts., Burned Corral  
Canyon, 6700 ft., Nye Co., Nevada. 103

July 30, 1933.

Quinn Canyon Mts. Burned Corral  
Canyon, 7300 ft., Nye Co., Nev. July 30, 1933

321♀ *Dryobates* wt. 57.0 gr.

Quinn Canyon Mts., Burned Corral  
Canyon, 6700 ft., Nye Co., Nev. July 30, 1933

322♀ *Myotis v. interior* 102-45-7-13 Tr. 7 wt. 8.0 gr.

323♂ " " " 100-44-7-13 Tr. 7 " 8.0 "

These two were shot at about  
8:30 P.M. after dark while they were  
flying about a little pond en-  
deavouring to drink.

Quinn Canyon Mts. 7 mi. E. Nye  
6700 ft., Nye Co., Nev. July 31, 1933.

325♂ *Eutamias dorsalis* 202-89-32-19 wt. 51.1 gr.

326♀ " " 215-100-31-19 " 54.0 "

327♂ " " 199-96-31-19 " 50.6 "

328♂ " " 200-89-30-19 " 48.7 "

329♀ " " 212-100-32-19 " 55.0 "

330♀ " " 212-98-32-19 " 53.1 "

331♀ " " 213-94-31-19 " 56.1 "

332♀ " " <sup>Utah Zuni</sup> 212-99-32-19 " 52.5 "

Jack Arnold and I left camp  
about 6:30 A.M. and hiked about  
a mile west of camp to the

Wilson's Phalarope  
Camp, 750 ft., July 2, 1933

July 2, 1933

Wilson's Phalarope  
Camp, 750 ft., July 2, 1933

3219 Wilson's Phalarope  
Camp, 750 ft., July 2, 1933

3220 Wilson's Phalarope  
Camp, 750 ft., July 2, 1933

These two were shot at about 8:30 P.M. after dark but they were flying about a little from the measurement to birds.

Wilson's Phalarope  
Camp, 750 ft., July 2, 1933

3228 Wilson's Phalarope  
Camp, 750 ft., July 2, 1933

3229 " " " " " " " "

3230 " " " " " " " "

3231 " " " " " " " "

3232 " " " " " " " "

Each bird was shot with a light trap about 8:30 P.M. and the birds were a mile or so from the camp.

Quinn Canyon Mts., Burned Corral  
Canyon 6700 ft., Nye Co., Nevada

July 31, 1933.

Cliffs that can be seen easily from here. I followed the dry creek bed down to the bottom of this canyon (Burned Canyon) and then followed a narrow alluvial slope up to the cliffs. There was an abundance of Rhus trilobata and growing along these dry water courses and it was in these that I found most of the Eutamias dorsalis. They seem to do most of their feeding early in the morning, from 6-9 A.M. for very few were seen on the return trip to camp which was reached at about 9:45 A.M.

When surprised, E. dorsalis utters a series of high pitched calls, but when the animal is running it is quiet. These calls are usually given when the animal is perched in some shrub and is well concealed.

June 21st 1938  
Lampson's Cliff, Type C, Nevada

July 21, 1938

Cliffs that can be seen easily  
from here. I followed the  
dry creek bed down to the  
bottom of the canyon (about 1000 ft)  
and then followed a narrow  
alluvial strip up to the cliffs.  
There was an abundance of  
Palaemonetes and Procambarus  
about these dry water courses  
and it was in these that  
I found most of the Butorinae  
basalis. They seem to be  
a lot of their fishing holes  
in the morning, from  
1-2 P.M. for very few hours  
even in the hottest part  
of the day which was reached  
at about 4:30 P.M.  
There were several Butorinae  
with a series of high tails  
and calls, but when the sun  
is shining it is quiet.  
These calls are usually given  
when the sun is parallel  
in some way and is still  
overhead.

W.B. Davis

Eagle Valley 3 mi. N. Urano, 5900 ft.,  
Lincoln Co., Nev., August 2, 1933

White River Valley, 5 mi. E. Sharp,  
Nye Co., Nevada. August 1, 1933.

333 ♂ *Amnospermophilus leucurus* 192-65-37-10

Eagle Valley, 3 mi. N. Urano, 5900 ft.,  
Lincoln Co., Nevada, August 2, 1933.

334 ♂ *Eutamias m. pictus* 178-82-30-13 w/137.3g.

(horn only) Quinn Canyon Mts., Mouth of Big Creek,  
5700 ft. Nye Co., Nevada July 24, 1933

335 *Antilocapra americana* (.1) Horn only.

We left our last camp at Burned Corral at 8:15 A.M. Aug. 1 and got 5 miles E. of Sharp when transmission trouble developed on the Rio. Russell walked back to Sharp to see if we could get towed to Caliente. This was about 10:30 A.M. Gorham and I stayed with the truck for a couple of hours, then I went hunting. I walked about four miles back toward Sharp, following Cherry Creek from where it seeps into the sands and disappears. I

Page 100  
L. ...  
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White Pine  
...

3358 ...  
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3359 ...  
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3360 ...  
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3361 ...  
...

The left one had camped  
around camp at 9:15 AM. I  
and got 2 miles E. of camp  
where the mountain trail  
descended to the Pine River  
valley. I had to stop to see  
if we could get toward the  
mountain. Then we went about 10:00  
P.M. to the end of the trail  
the track for a couple of miles  
then I went back. I walked  
about four miles back toward  
camp following Pine River  
from where we camped with the  
cows and sheep.

Eagle Valley 3 mi. N Wreine,  
5900 ft., Lincoln Co., Nevada.

August 2, 1933.

shot one Ammospermophilus leucurus while it was running through short Artemisia along the bluff of Cherry Creek Wash.

At the mouth of Cherry Creek Canyon I saw a Citellus grammurus but was unable to cross the creek to get a shot at it.

I noticed numerous mounds where Thomomys had been working in an alfalfa field about a mi. E. of Sharp. (Sharp is here designated as the ranch about a mi. E. of the Sharp Post Office. Such designation is the correct one for the P.O. has been removed. The owner of the ranch said the gophers were pests and that he had to resort to trapping to keep them in check. He also claimed that Citellus grammurus did considerable damage to his garden.

I returned to the car about 6:00 P.M. Gorham said he had shot at an Eagle during my absence.





Eager Valley, 3 mi. N. Visine  
5900 ft., Lincoln Co., Nevada.

August 2, 1933.

At about 7:30 Russell returned with a Mr. Youndt of the General Land Office and who is surveying in the Sharp region.

With Mr. Youndt's help we took the top off the transmission and found a small bit of metal lodged between the teeth of the driving gear. This was removed, the car put together, and we started for Hika at about 8:00 P.M. The roads were in very poor condition due to recent rains, so we did not arrive at Hika until after 11 P.M. and here we camped for the rest of the night.

This A.M. we drove to Caliente where we had breakfast and purchased a few supplies. We arrived at this locality about 2 P.M.

Just below camp (south) Russell took a Citellus grammurus. Another one was seen at the same place but we were unable to get a shot at it. As we drove into camp another one was

2500 ft. ...  
Eugen Delany, 3 mi. N. ...

August 2, 1933.

At about 7:30 ...  
with the ...  
the top of the ...  
and found a ...  
depth between the ...  
during ...  
the car but ...  
started for ...  
the road ...  
with ...  
we did not ...

After 11 P.M. ...  
is for the ...  
that A.M. we ...  
where we had ...  
purchased a ...  
arrived at the ...

2 P.M.

Just before ...  
took a ...  
we now ...  
place but ...  
to get a ...  
the camp ...

W.B. Davis Eagle Valley, 3 mi. N. Urine  
5900 ft., Lincoln Co., Nevada. 108.

August 2, 1933.

seen. I took a shot at it, but missed.

This afternoon I took a walk up a small canyon just west of the house in which we are camping. The principal vegetation was Pinus monophylla with Artemisia, Prunus, Rhus trilobata and Salix occupying the lower parts of the canyon. The soil is of sedimentary origin with a volcanic cap, the former forming cliffs in many places.

In a small grove of Prunus I found four Eutamias dorsalis busily engaged eating the fruit. When they saw me, they hurried down to the ground and ran up a talus slope. One of them stopped, climbed to the top of an Artemisia and kept up a series of sharp warning notes for about ten minutes. None of them was taken.

I returned to camp about 3 P.M. Our time was changed to Mountain Time at Caliente, so all time expressed while we are

to have been taken by the same person  
at the same time and place.

August 2, 1855.

At about 10 o'clock I left  
the afternoon of the 1st

up a small canyon just west  
of the house and reached the

camping site for night  
near Point of View.

At about 10 o'clock I left  
and this morning the house

part of the canyon the  
of the canyon was with

volcanic ash, the former  
and cliffs on every side.

In a small group of  
I found four *Chrysothrix*

which were very  
when they were first

found at the present  
a thin layer of them

stopped at the top of  
an *Chrysothrix* and

series of experiments  
for about the same

if they were taken  
I returned to camp

at 9 P.M. but time was  
the same as at present

Eager Valley, 3 mi. N. Ursvine,  
5900 ft., Lincoln Co., Nevada

August 2, 1933

at this camp refers to Mt. Time.

About 4:00 P.M. I started setting traps in an alluvial wash and in a steep walled canyon to the west of our camp. I placed 100 mouse traps about 25 paces apart in Sarcobates, Artemisia, at the foot of rocky precipices, and ~~in~~ a few on bare, rocky ground. The soil in the alluvial wash is of clay and fine sand at the lower reaches of the plain, and gravel and sand in the middle and upper reaches. In places the Artemisia is higher than my head (5'9"). The Sarcobates was found only on the clay and clay-sand areas.

I shot one Eutamias m. pictus. It was running up the side of one abrupt hill. I saw one more but was unable to collect it.

This evening Russell found bats emerging from a small hole in the wall of this stone



W.B. Davis

Eagle Valley, 3 mi. N. Uresine, 5900 ft.,  
Lincoln Co., Nevada, Aug. 2, 1933.

house. We propped bry butterfly  
net a short distance from the  
opening and with this method,  
plus pulling them out of the  
hole with a pair of long forceps,  
we have taken 14 of them, two  
of which are Tadarida mexicana  
and the remainder Eptesicus  
fuscus.

Russell and Goshaw made  
sets for Microtus in the swampy  
area just east of our camp.

Eagle Valley, 3 mi. N. Uresine, 5900 ft.,  
Lincoln Co., Nevada, Aug. 3, 1933

336♂	<u>Perognathus p. olivaceus</u>	164-85-24-7	wt. 13.4g.
337♀	<u>Eutamias dorsalis</u>	203-89-30-23	wt. 52.2g.
338♂	" "	198-85-30-19	" 48.9"
339♀	" "	213-92-32-18.5	" 59.2"
340♀	<u>Eutamias m. pictus</u>	189-88-28-12	" 25.0"
341♀	<u>Peromyscus crinitus</u>	166-86-19-17.5	" 14.0g
342♂	" "	150-74-18-18	" 15.2"

Aug 2, 1933.

343♀	<u>Tadarida mexicana</u>	101-40-9-19T-5	wt. 11.4g.
344♂	<u>Eptesicus fuscus</u>	106-39-10-13" 8	" 13.6"
345♀	" "	115-48-10-16, 8	" 16.2"
346♀	" "	110-47-11-15" 9	" 16.5"

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2094	1494-2094
2093	1393-2093
2092	1292-2092
2091	1191-2091
2090	1090-2090
2089	989-2089
2088	888-2088
2087	787-2087
2086	686-2086
2085	585-2085
2084	484-2084
2083	383-2083
2082	282-2082
2081	181-2081
2080	80-2080
2079	79-2079
2078	68-2078
2077	57-2077
2076	46-2076
2075	35-2075
2074	24-2074
2073	13-2073
2072	2-2072
2071	1-2071
2070	0-2070



W.B. Davis,

111,

Eagle Valley, 3 mi. N. Ursine, 5900 ft.,  
Lincoln Co., Nevada, Aug. 3, 1933.

347♂	<i>Eptesicus fuscus</i>	105-42-10-17	Tr. 8	wt. 16.7g.
348♂	"	" 105-40-10-14	" 9	" 19.0"
349♀	"	" 128-52-11-17	" 10	" 18.2"
350♀	"	" 112-48-11-16	" 9	" 15.2"

Aug 3, 1933

351♂	<i>Eutamias m. pictus</i>	188-88-29-13	wt. 35.3g.
352♂	<i>Eutamias dorsalis</i>	208-94-31-20	" 45.6"
353♀	<i>Neotoma lepida</i>	291-136-28-28	" 138.4"
354♀	<i>Perognathus s. olivaceus</i>	162-90-23-7	" 14.8"
355♂	<i>Reithrodontomys</i>	135-64-15-13	" 11.0"

No. 351, 353, 354, 355 were collected by Frank Gorham.

This A.M. I ran my trap line and found 24 *P. m. sonoriensis*; 5 *P. crinitus*; 1 *Eutamias dorsalis utahensis*; one young *Neotoma lepida* and 1 *Perognathus parvus*. The *P. sonoriensis* were taken in each type of habitat except at the base of the cliffs in the step-walled canyon. Here I took *Peromyscus crinitus* and the *E. dorsalis*. The *Neotoma* was taken on a bare, rocky, north facing slope. All my traps were left out in hopes of catching *Eutamias m. pictus*.

1875

*Adiantum*  
100 - 21 - 22 - 23  
101 - 22 - 23 - 24  
102 - 23 - 24 - 25  
103 - 24 - 25 - 26

Page 100

*Adiantum*  
104 - 25 - 26 - 27  
105 - 26 - 27 - 28  
106 - 27 - 28 - 29  
107 - 28 - 29 - 30

The *Adiantum* is a very common fern in the mountains of the South. It is found in the woods and in the mountains. It is a very hardy plant and will grow in any soil. It is a very beautiful plant and is very common in the mountains of the South. It is a very hardy plant and will grow in any soil. It is a very beautiful plant and is very common in the mountains of the South.

W.B. Davis  
1933.

Eagle Valley, 3 mi. N. Ursine, <sup>112</sup>5900 ft.,  
Lincoln Co., Nevada, Aug. 3, 1933.

I spent the remainder of the morning in making up specimens.

About 1:00 P.M. I ran my trap line again and found one E. pictus and one E. dorsalis. The former was taken in a trap set in Sarcobatus, the latter in a trap set in the sandy stream bed in the canyon.

Most of the afternoon was spent in making up specimens. About 5:00 P.M. I took in all my traps so I could set for Microtus in the meadow. I had one E. pictus in a trap set in the midst of Sarcobatus. It seems that this type of habitat is preferred to any other here.

I made 20 sets for Microtus along the stream in the meadow and also in a swampy spot covered with a high growth of grass and reeds. I found several places in the latter situation where there were piles of cut, green grass. The typical Microtus

1890s  
 1890s  
 1890s

I spent the summer of 1890  
 in my summer camp at  
 Camp...

On the 1st of July 1890  
 I left my summer camp and  
 went to...

The summer was a very  
 hot one and I spent  
 much of the afternoon...

about 5:00 P.M. I left in all my  
 traps and went out for  
 the afternoon...

I spent an hour or two  
 in the woods and then  
 went to...

I spent the afternoon in  
 the woods and then  
 went to...

I spent the afternoon in  
 the woods and then  
 went to...

I spent the afternoon in  
 the woods and then  
 went to...

I spent the afternoon in  
 the woods and then  
 went to...

W. B. Davis  
1933.

Eagle Valley 3 mi. N. Uresine, 5900 ft., <sup>113,</sup>  
Lincoln Co., Nevada.

August 3, 1933.

runways were lacking. Sets were made at such spots where there was cut grass. I made several sets on the leafy mats of water plants which were growing amongst the tules in the creek. The remainder of my sets was along the stream bank on low, shelving places.

Frank Gorham caught 10 Microtus montanus and Russell caught two in this same meadow. During the day Russell caught four more.

Russell shot two more Citellus grammurus. They are inhabiting the rocky talus slopes on the w. side of the valley. I saw one at the top of the rocky gorge about  $\frac{1}{4}$  mi. E of camp, but it was too far away for a shot.

Early this morning, just a few minutes after sun up, I saw two E. dorsalis on the hillside just south of our camp. They were on the ground running about,

*[Faint, mirrored handwriting, likely bleed-through from the reverse side of the page]*

W.B. Davis  
1933.

114.  
Eagle Valley, 3 mi. N Urine, 5900 ft.,  
Lincoln Co., Nevada. Aug. 3, 1933.

evidently looking for food. I climbed the hill and they scampered to the top of a rock about 50 ft. away where they sat watching me. The tail was waved up and down and the reddish under part of the tail was seen in flashes. I shot one with #12 shot with my 410. I have found that E. dorsalis is not the elusive animal it is said to be and my experience has been that they are found feeding in the early hours of the morning on the fruits of Rhus trilobata Pursh and Squaw Berry and by looking for them in such situations I have been fortunate enough to take a goodly number of them.

August 4, 1933.

I visited my traps this AM, but had no Microtus. I caught two L. m. sonoriensis in two sets I had made on the leaves of plants floating in the water, and two Peromyscus carolinus.

Page 1887  
1888

*[Faint, illegible handwriting covering the main body of the page]*

*[Faint, illegible handwriting at the bottom of the page]*



W.B. Davis  
1933

115,  
Eagle Valley, 3½ mi. N. Ureine, 5900 ft.,  
Lincoln Co., Nevada, Aug. 4, 1933.

both immature. Both rails  
were caught by the neck in  
traps set in the high grass.

Eagle Valley, 3½ mi. N. Ureine, 5900 ft.,  
Lincoln Co., Nevada, Aug. 3, 1933.

356♂ Eutamias m. pictus 185-35-29-13 wt. 33.4 gr.

357♀ Eutamias dorsalis 212-93-32-18 " 47.4"

# 357 collected by Frank Gosham.

Eagle Valley, 3½ mi. N. Ureine, 5900 ft.,  
Lincoln Co., Nevada, August 4, 1933.

358? Parzana carolina wt. 78.8 gr

359? " " " 63.5 "

360♂ Melospiza " 23.0 "

361♂ Scolecophagus cyanocephalus " 71.7 "

# 360 + 361 collected by W.C. Russell.

362♀ Eptesicus fuscus 115-50-11-16 T. 7. wt. 15.7 gr.

363♀ " " 125-51-11-17 " 8 " 17.0 "

Russell and Gosham left this P.M.  
to check on the southern  
range of Eutamias m. pictus,  
if possible. I remained in  
camp and in P.M. made 40 sets for  
Microtus at the margins of sloughs in  
a hay field about ¼ mi. above  
(north) of our camp. In the

15  
Page 100 of 100  
1898

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1898

W.B. Davis  
1933.

116.  
Eagle Valley, 3½ mi. N. Ursine, 5900 ft.,  
Lincoln Co., Nevada. August 5, 1933.

evening I caught four more  
bats as they left a small  
hole in the side of the house.  
Only two of these were saved because  
the remainder were all immature.

364 ♀	<u>Microtus montanus</u>	157-37-21-14	wt. 47.0g.
365 ♀	" "	163-44-20-14	" 48.0"
366 ♀	" "	170-45-21-16	" 53.4"
367 ♂	" "	191-46-22-14	" 80.4"

2 mi. S.E. Pioche, 6000 ft., Lincoln  
Co., Nevada. August 5, 1933.

368 ♀	<u>Peromyscus truei</u>	180-88-21.5-26
369 ♂	<u>Peromyscus m. sonoriensis</u>	145-57-19-16
370 ♂	<u>Perognathus p. olivaceus</u>	168-84-23-19
371 ♂	<u>Eutamias dorsalis.</u>	201-86-31-21

The above four specimens were  
collected by W.C. Russell.

Russell and Gorham returned  
this morning with no  
Eutamias m. pictus. It seems  
that this part of Eagle Valley  
in which we are camped  
is the southern limit of  
its range. This may be due  
to the difference in temperature  
between this part of the valley

Wm. B. ...  
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W.B. Davis  
1933

Eagle Valley,  $3\frac{1}{2}$  mi. N Ursine, <sup>117</sup>5900 ft.,  
Lincoln Co., Nevada, August 5, 1933.

and that in the proximity of Ursine. Mr. Hammond, a rancher in Eagle Valley, and in whose house we are now staying, told me that in winter it was common for the temperature to be  $-30^{\circ}\text{F}$  while at Ursine where he lives, only  $3\frac{1}{2}$  mi. S. of here, it is seldom below  $-10^{\circ}\text{F}$ . This difference is evident in the summer, too, but probably not to such an extent. The only explanation I can think of for this difference is that in this part of the valley where we are camped there are numbers of springs and thus a higher humidity.

Due to these springs, the inhabitants of this region call this part of the valley "Spring Valley", though it is really a part of Eagle Valley.

We found no *Callospermophilus* here, so we have decided to move farther north and into the mountains to see if we can find them.

*[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side of the paper. The text is mirrored and cannot be transcribed.]*

W.B. Davis  
1933.

14 mi. W. Utah-Nevada Boundary  
38° 17' N Lat., 7300 ft., Lincoln Co.,  
Nevada. August 6, 1933.

118.

- 372 ♀ Eutamias dorsalis 192-85-29-18 wt. 54.1 gr.  
373 ♂ Sylvilagus n. gaugerii 310-38-95-65 " 694.3 "  
374 ♀ Thomomys talpae 226-70-27-5 " 117.0 "

We broke camp yesterday at Eagle Valley and drove to the Donohue Ranch, designated as "Camp Valley" on our maps, where we were told we could get information concerning the mountains in this region.

Mr. Donohue was not at home but a rancher there told us the most likely place to find a region suited to "Callos" was on "White Rock Mountain", a peak some 20 miles E. of Camp Valley and near the Utah-Nevada Boundary. He also told us to stop at the H.C. Johnson ranch in Hamlin Valley, in Nevada, and ask for additional information.

The road from Camp Valley traverses a range of mountains, unnamed on our maps, and passes down Miller Canyon into Hamlin Valley in which the Utah-Nevada Boundary lies.

1933

to the North  
1933

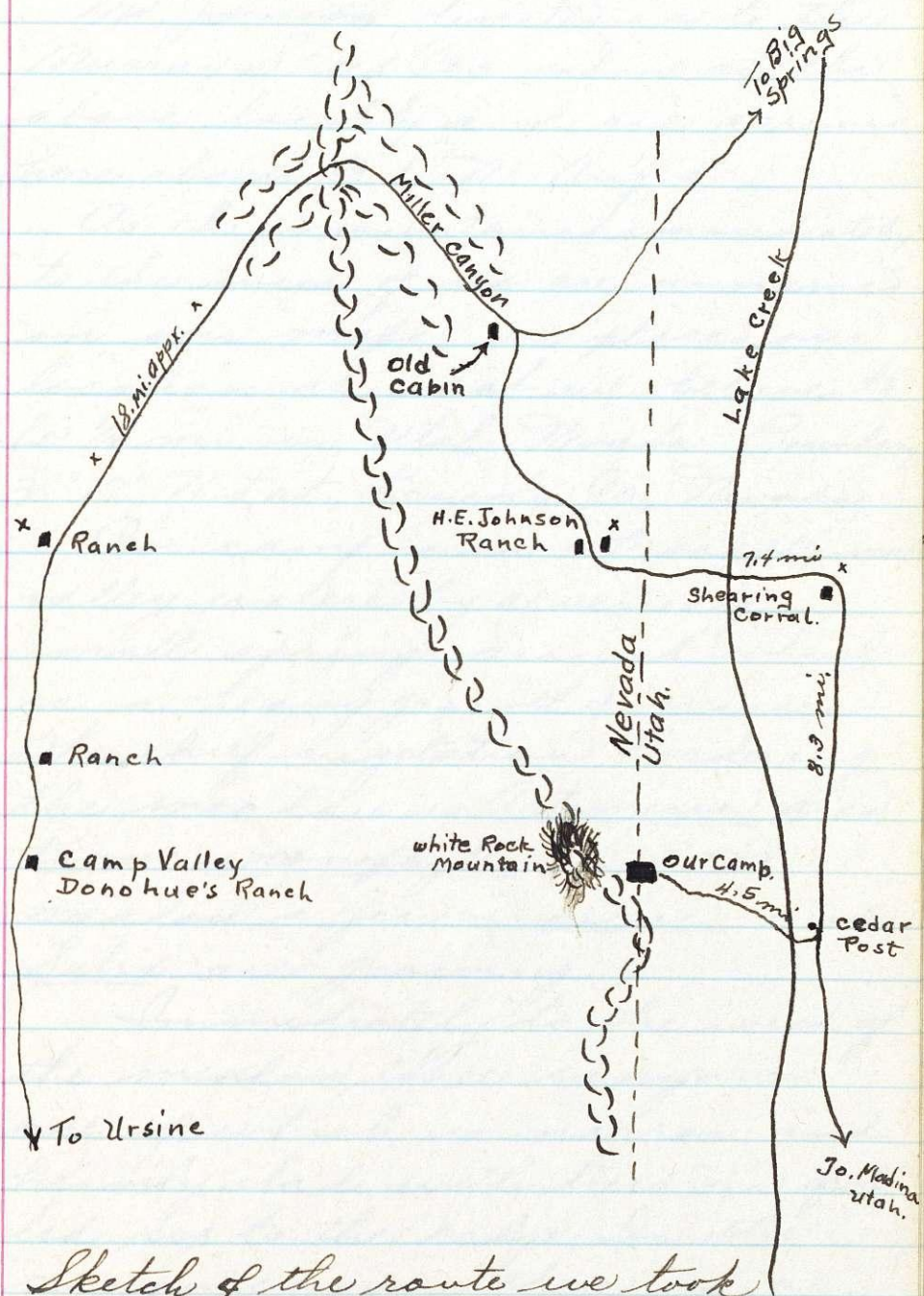
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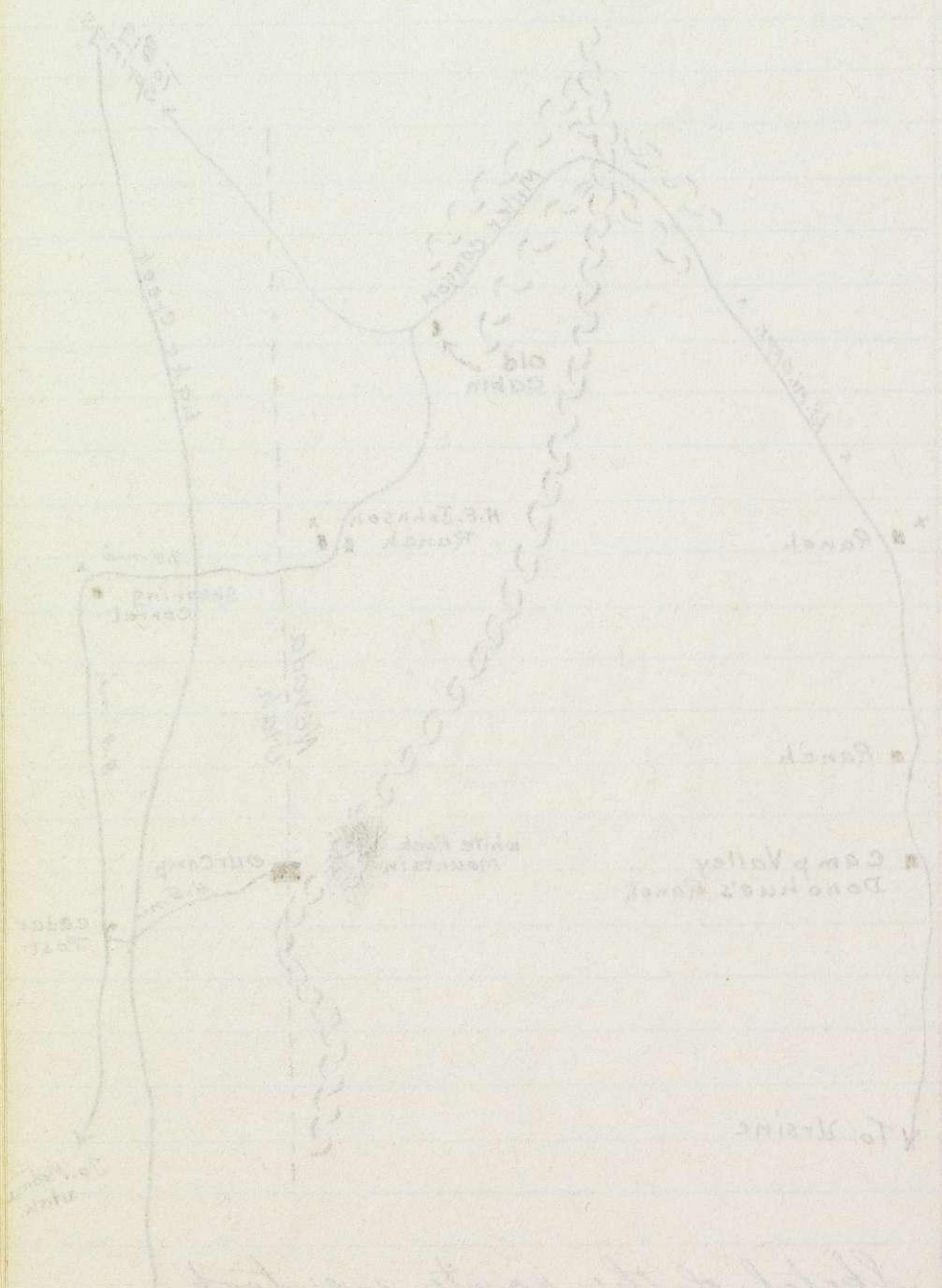
W.B. Davis  
1933.

1/4 mi. W Utah-Nevada Boundary,  
38° 17' N. Lat., 7300 ft., Lincoln Co.,  
Nevada. Aug. 6, 1933.



Sketch of the route we took  
from Camp Valley to our camp  
at the above locality.

1853  
 March 21st  
 Camp Valley  
 1853



Detail of the route in the  
 from Camp Valley to  
 at the...

W. B. Davis  
1933

4 mi. w. Utah-Nevada Boundary,  
38° 17' N Lat., Lincoln Co., Nevada.  
Aug. 6, 1933.

Mr. Johnson directed us to the Murray Sheep Co's. cabin at the above locality and we arrived here about 3 P. M. Aug. 5.

As the mountains immediately to the west of us are unnamed on our maps, we placed our location at what we believe to be 4 mi. w. Utah-Nevada Boundary, 38° 17' N. Lat., Lincoln Co., Nevada.

Our camp is in a broad alluvial valley watered by a series of small springs around which is a heavy growth of grasses. The chief vegetation bordering the meadow is Artemisia and Pinus monophylla. In the meadow a few Quercus and Salix are growing.

Immediately to the west of the meadow three canyons, one of which is narrow and heavily clad with trees in spots, led up to the ridge. In the narrow canyon there is a dry stream bed and indications showed it carried more run-off than either of the other two canyons.

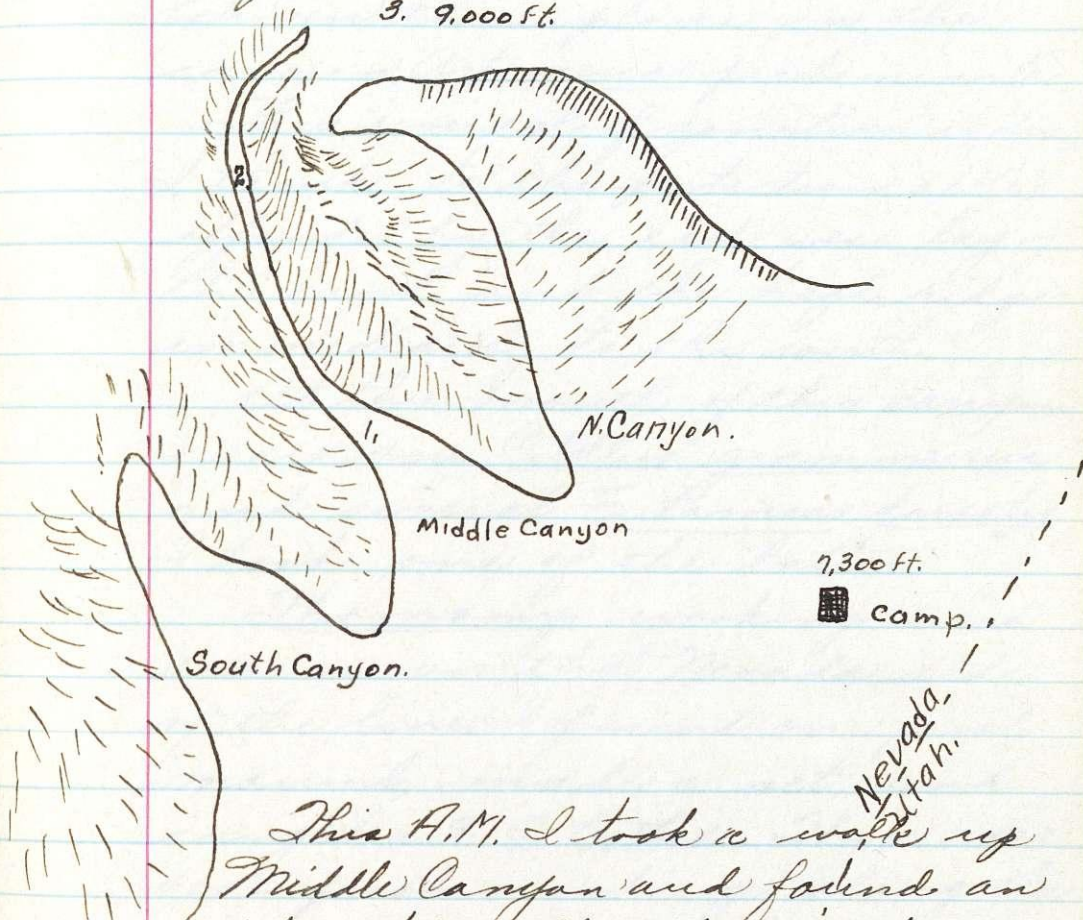
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W. B. Davis  
1933.

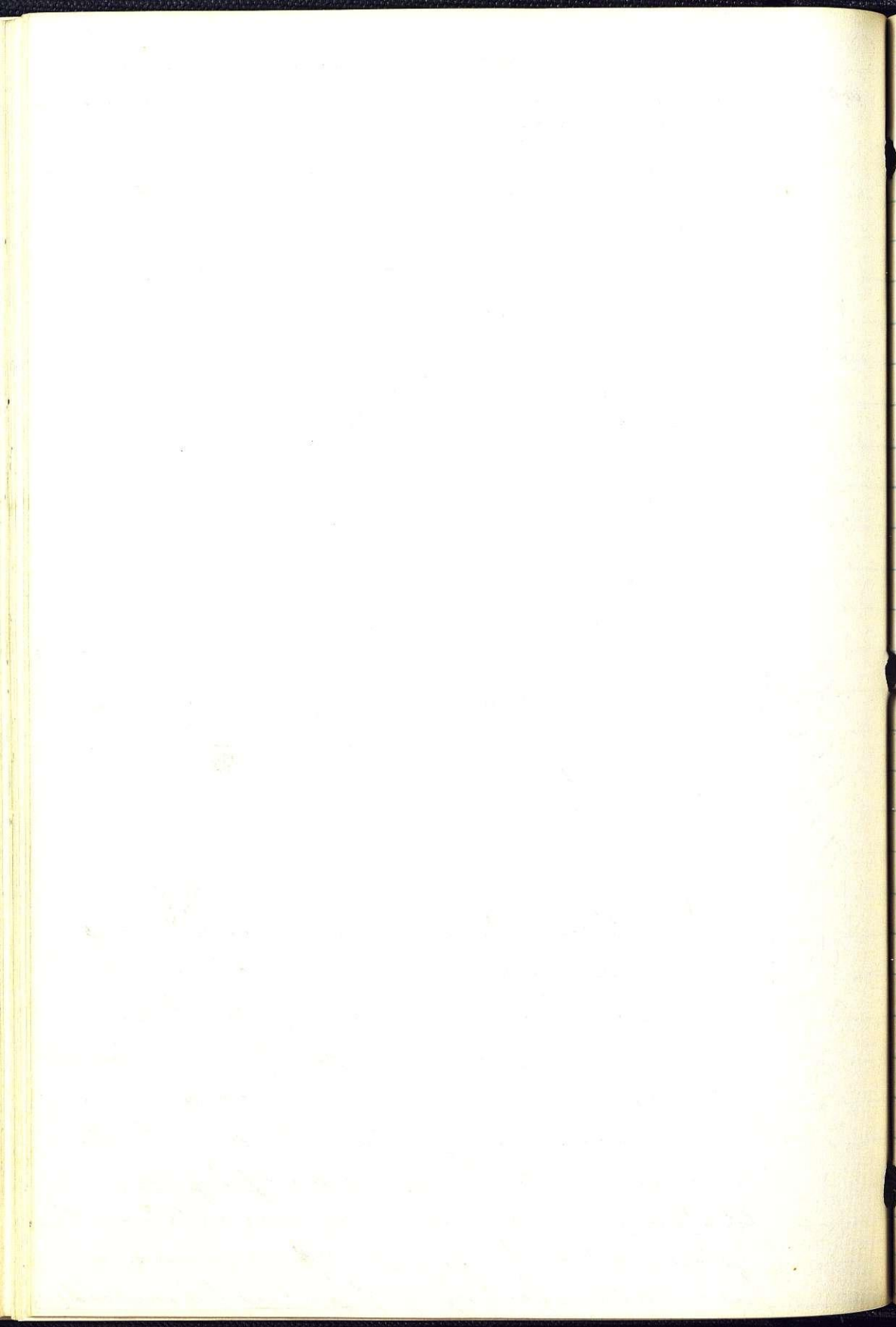
1/4 mi. w. Utah-Nevada Boundary,  
38°17' N Lat., 7,300 ft., Lincoln Co., Nevada,  
Aug. 6, 1933.

These three canyons I choose to  
call North, Middle and South  
Canyon, as per sketch below.

3. 9,000 ft.



This A.M. I took a walk up  
Middle Canyon and found an  
interesting floral zonation.  
At the place designated (1.) I found  
a growth of Abies concolor in  
the bottom of the stream bed  
bordered by Pinus monophylla,  
Artemisia and Service Berries. Above this  
place about 1/2 mi. there was a  
small clump of Populus tremulaoides,



W.B. Davis  
1933.

122.  
1/4 mi. w. Utah-Nevada Boundary,  
38°17' N. Lat., 7300 ft., Lincoln Co., Nevada,  
August 6, 1933.

At (2.) and up on the top of the ridge, estimated 9000 ft., there was Abies concolor again. In between these places, in the canyon, Artemisia predominated.

This reversal of zonation is due, I think, to the protection at (1.) afforded by the east-west lay of the land and the high ridge immediately to the south.

At the mouth of this canyon I saw one Citellus grammurus and several Eutamias dorsalis. I took one of the latter.

Thomomys workings were scarce on the Nevada side of the line. I found one fresh mound, made a set, and caught a ♀ T. bottae. There were 4 or 5 fresh workings along the stream on the Utah side of the line, but no effort was made to secure them.

In the evening I made 90 sets, chiefly in Artemisia to try and take Lagurus. I found none of their workings, however.

Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and mostly illegible due to fading and bleed-through. Some faint words like "to receive them" and "to be" are visible.



W.B. Davis  
1933.

123.  
1/4 mi. w. Utah-Nevada Boundary,  
38°17' N. Lat., 7300 ft., Lincoln Co.,  
Nevada, August 7, 1933.

375♂	<u>Eutamias dorsalis</u>	213-95-32-18	wt. 56.4 gr.
376♀	" "	219-98-32-19	" 57.0 "
377♀	" "	203-88-30-19	" 50.0 "
378♂	<u>Dipodomys ordii</u>	235-130-27-12	" 50.5 "
379♀	<u>Perognathus parvus</u>	165-84-22-7	" 16.0 "
380♀	<u>Peromyscus truei</u>	180-90-23-24	" 20.3 "
381♀	<u>P. m. sonoriensis</u>	142-57-18-18	" 15.7 "
382♂	" "	151-62-19-17	" 19.7 "
383♂	" "	150-68-19-18	" 19.5 "

1 mi. w Utah-Nevada Boundary,  
38°17' N. Lat., Lincoln Co., Nevada 7,700 ft.,  
August 7, 1933.

384♂	<u>Eutamias m. pictus</u>	173-80-26-13	wt. 27.1 gr.
385♂	" "	182-81-26-13	" 35.0 "
386♀	<u>Eutamias quadrivittatus</u>	192-82-31-17	" 49.8 "
387♀	" "	202-87-29-19	" 54.2 "
388♀	" "	209-89-32-19	" 58.7 "

Visited my traps this A.M. and found 32 Peromyscus, 2 E. dorsalis, 1 Dipodomys o. columbianus, 1 P. p. olivaceus, 1 P. truei, No Lagurus! Russell and Gorham also reported No Lagurus!

In the afternoon I took a hike up Middle Canyon to see if I could find E. pictus

*[Faint handwritten text, possibly bleed-through or reverse-side writing]*

215  
 216  
 217  
 218  
 219  
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 222  
 223  
 224

*[Faint handwritten text, possibly bleed-through or reverse-side writing]*

225  
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*[Faint handwritten text, possibly bleed-through or reverse-side writing]*

231  
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 240

W.B. Davis  
1933

1/4 mi. w Utah-Nevada Boundary, <sup>124</sup>  
38°17' N Lat., 7,300 ft., Lincoln Co.,  
Nevada, August 7, 1933.

and Callaepernophilus lateralis.

In a clump of Abies at (1.)  
(see p. 121.) I took an E. quadrivittatus  
at an elevation of approximately  
7500 ft. Up the canyon about 1/4 mi.  
I saw several E. dorsalis and  
one Citellus grammurus but couldn't  
take any of them. About 1/2 mi.  
above this clump of firs I took  
an E. pictus in an Artemesia  
habitat. Higher up the canyon  
near a grove of Populus tremuloides  
I took another E. quadrivittatus.  
At an elevation of approximately  
9,000 ft., I took four more  
E. quadrivittatus in or near  
associations of Abies and  
Arctostaphylos. They were eating  
berries of the latter plant. At  
this same altitude, but in an  
Artemesia association I took  
another E. pictus. No E. dorsalis  
were seen higher than 1/4 mi.  
above the Abies at (1).

This reversal or mixing of  
the elevations at which E. pictus  
and E. quadrivittatus were taken  
correlates with the reversal of

Handwritten text at the top of the page, possibly a header or title, including the name "Wm. Lloyd Garrison" and the date "1840".

Main body of handwritten text, appearing as bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher but seems to contain a letter or a report.

W.B. Davis  
1933.

1/4 mi. w Utah-Nevada Boundary, 125  
38°17' N. Lat., 7,300 ft., Lincoln Co.,  
Nevada. Aug. 7, 1933.

the flora as mentioned.

The terrain and flora on top of the mountain looked favorable for Cullospermophilus, but I saw none, nor was I able to locate droppings amongst the rocks.

I saw one grouse, probably the Dusky Grouse, in a fir thicket at an elevation of approximately 9,000 ft.,

The scarcity of deer sign in this region is undoubtedly due to the presence of large numbers of grazing sheep.

Coyotes are plentiful here and a camp tender for the herders told us they constituted a serious menace to the flock, even approaching the sheep when the herder was asleep nearby. According to this camp tender, this region has not been trapped by Government Trappers for several years. This P.M. made about 40 sets to try again for Lagurus.

Dear Mother  
I received your kind letter  
of the 15th and was glad to  
hear from you.

I am well and hope these few lines  
will find you the same. I have  
not much news to write at present.  
The weather is very pleasant here  
at present. I have not much news  
to write at present. I am well  
and hope these few lines will find  
you the same. I have not much  
news to write at present. I am  
well and hope these few lines will  
find you the same. I have not  
much news to write at present.  
I am well and hope these few lines  
will find you the same. I have  
not much news to write at present.  
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much news to write at present.  
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not much news to write at present.  
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to write at present. I am well  
and hope these few lines will find  
you the same. I have not much  
news to write at present. I am  
well and hope these few lines will  
find you the same. I have not  
much news to write at present.

W.B. Davis  
1933.

1/4 mi. W Utah-Nevada Boundary,  
38°17' N. Lat., 7300 ft., Lincoln Co.,  
Nevada, Aug. 8, 1933.

126.

- 389♀ Eutamias dorsalis 209-89-32-17 wt. 53.4 grs.  
390♂ Perognathus parvus 166-85-28-7 " 19.6 "  
391♂ Dipodomys ordii 252-145-36-14 " 59.0 "

In my 40 sets I took 18  
Peromyscus m. sonoriensis, besides  
the above specimens. No trace  
of Lagurus was found by any of us.

I spent the morning in  
making up specimens and  
getting ready to go to Geyser, in  
Duck Valley, to see if we could  
locate Microdipodops or Anachanys

Spring Valley, 4 mi. S Shoshone,  
5900 ft., White Pine Co., Nevada,  
August 9, 1933

We broke camp yesterday  
about 2 P. M. and drove N up  
Hamlin Valley to the H. E. Johnson  
Ranch where we were given  
directions to get to Geyser.

We missed the road  
someplace and drove to  
Shoshone via. the sketch on the  
following page. Russell killed  
a 40" rattlesnake about 2  
miles south of Shoshone.

Handwritten notes at the top of the page, including the date "March 21st 1855" and other illegible text.

2795 Crotalaria boursieri 2795 2795 2795  
2796 Leptochloa purpurea 2796 2796 2796  
2797 Leptochloa purpurea 2797 2797 2797

Handwritten botanical descriptions for entries 2795-2797, detailing plant characteristics and collection data.

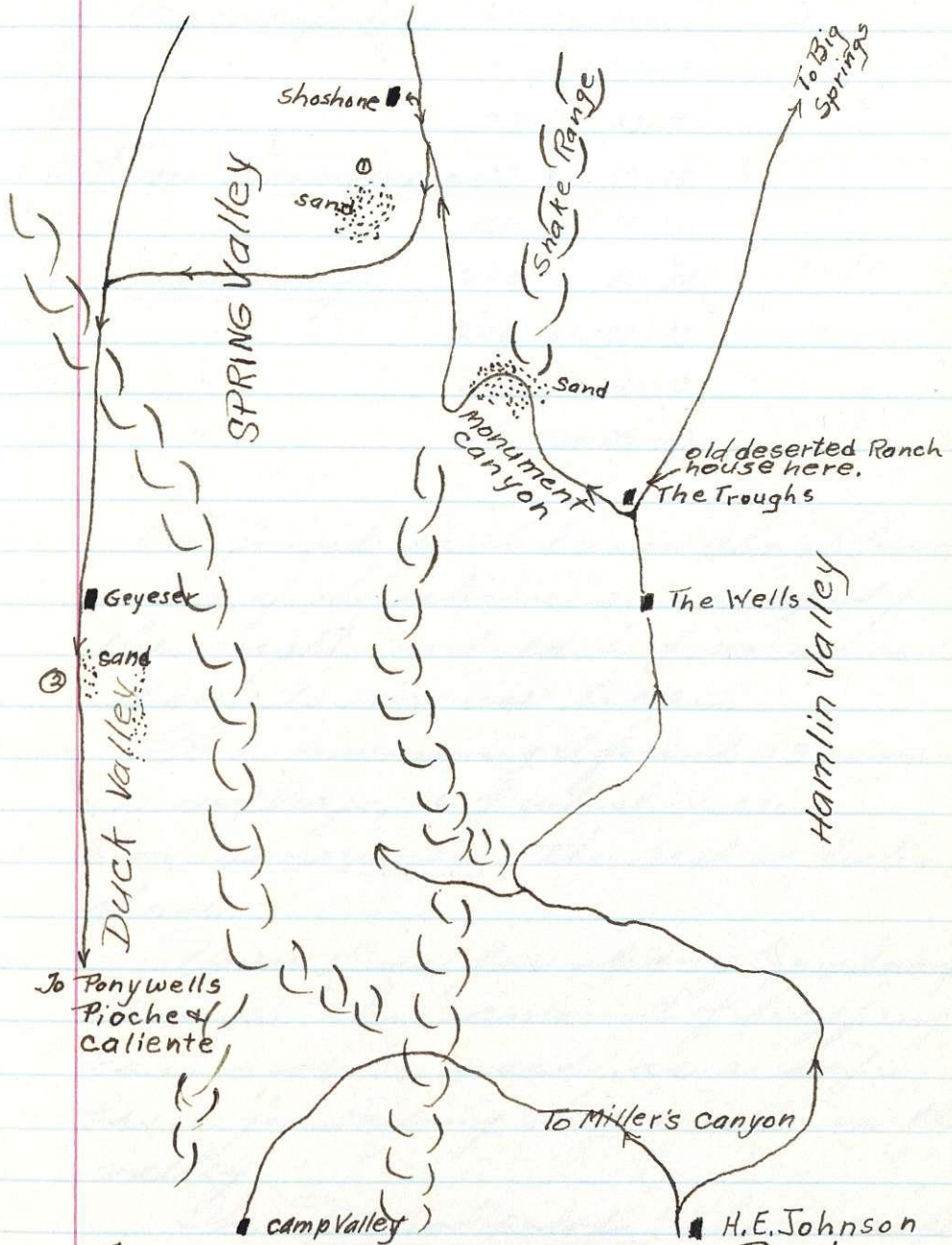
Handwritten botanical descriptions for entries 2798-2800, including species names and notes.

Handwritten botanical descriptions for entries 2801-2805, continuing the list of plant specimens with detailed notes.



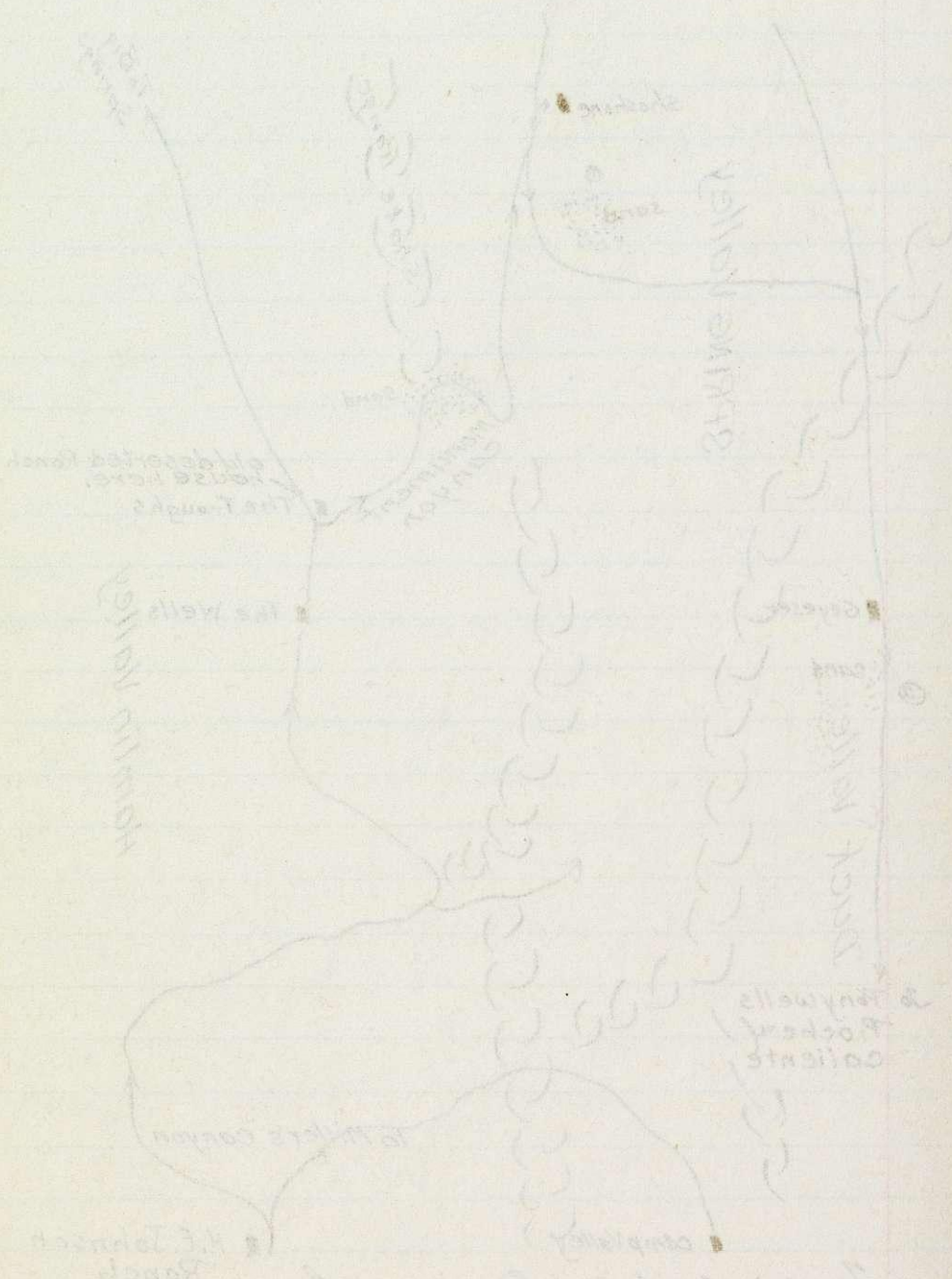
W.B. Davis  
1933

Spring Valley, 4 mi. S Shoshone,  
5900 ft., White Pine Co., Nevada,  
August 9, 1933.



Trapped at ① & ② in the sand. Sketch of route we followed from the H.E. Johnson Ranch to Shoshone and Geyser.

Handwritten notes at the top of the page, including the name "Carpenter" and other illegible text.



Handwritten notes at the bottom of the page, including the name "Carpenter" and other illegible text.

W. B. Davis  
1933.

Spring Valley, 4 mi. S. Shoshone,  
5900 ft., White Pine Co., Nevada,  
August 9, 1933.

128,

392 ♂	<u>Microdipodops</u>	147-76-22.5-8	wt. ?
393 ♀	"	147-77-23-9	
394 ♀	"	152-77-23-9	
395 ♂	<u>P. m. sonoriensis</u>	157-67-19-18	
396 ♀	" " "	158-68-19-18	
397 ♀	<u>Dipodomys</u>	240-130-38-13	
398 ♂	"	240-131-38-13	
399 ♀	"	262-150-40-13	
400 ♀	"	242-134-39-13	

We found sand dunes about four mi. S. of Shoshone so camped for the night and each of us set out about 90 mouse traps.

This morning I found 23 mammals in my traps, 16 of which were P. m. sonoriensis; the rest as listed above.

None of us found any Onychomys though this amount of trapping can not be used as a safe basis for saying they aren't in the valley.

The Microdipodops that I caught were found amongst the sage brush on sand, instead of on the sand dunes as I expected. In fact, most of my takes were of such

Spring Valley 4 mi S. of ...  
500 ft. White Pine Co. Nevada  
August 2, 1905

Western  
1905

147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P
147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P	147-77-22-P

The fossils are found in a ...  
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... of the ...  
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The fossils are found in a ...  
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W.B. Davis

129.

Duck Valley, 3 mi. S Geyer, 6050 ft.,  
Lincoln Co., Nevada. Aug. 10, 1933.

places and not on the sand  
dunes proper.

401 ♀	<u>P. m. sonoriensis</u>	162-71-18-17
402 ♂	" " "	146-62-17-17
403 ♀	<u>Microdipodops</u>	151-84-24-9
404 ♀	"	157-84-23-10
405 ♂	"	152-79-22.5-9.

At a place we believe to be 3 mi. S. Geyer in Duck Valley, we found some fine, reddish sand on the east side of the highway. About  $\frac{1}{2}$  mi. e. of the highway were what appeared to be sand dunes with Artemisia growing on them. We stopped here the night of Aug. 9<sup>th</sup> and each of us set out about 90 traps.

The sand proved to be only in a small area parallel to the main highway. Between this sand and the "dunes" was a flat alkali area covered with Sarcobatus and Chrysothamnus. The dunes proved to be a deposit of fine alkali silt overlaying a hard deposit of the same material. On these dunes the Artemisia grew to a height of 7' to 8'. This association appeared to support no

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- 1019
- 1020
- 1021
- 1022
- 1023

Main body of handwritten text, appearing as a list or series of entries. The text is mirrored from the reverse side of the page and is mostly illegible due to the bleed-through.

W.B. Davis  
1933.

130.

Duck Valley, 3 mi. S Geopier, 6050 ft.,  
Lincoln Co., Nevada. Aug. 10, 1933.

mammals other than Rabbits and Coyotes. Tracks of both these were numerous. There were no "diggings", tracks or burrows of smaller mammals that I could see, so I made only 8 sets there and returned to the sand near the highway to make the rest of my sets.

This A. M. when I ran my trap line I found 3 Microdipodops, 1 young Dipodomys ordii and 8 P. m. sonoriensis. All of these were taken in the sandy areas amongst Artemisia with the exception of one Peromyscus which was taken on the alkali dunes in the valley.

None of us took any Onychomys, though more intensive trapping might produce evidence of their presence.

I found numerous bleached Lepus skeletons amongst the Sarcobatus & Chrysothamnus which probably indicate that Tularemia was raging there not so many years ago.

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W.B. Davis  
1933.

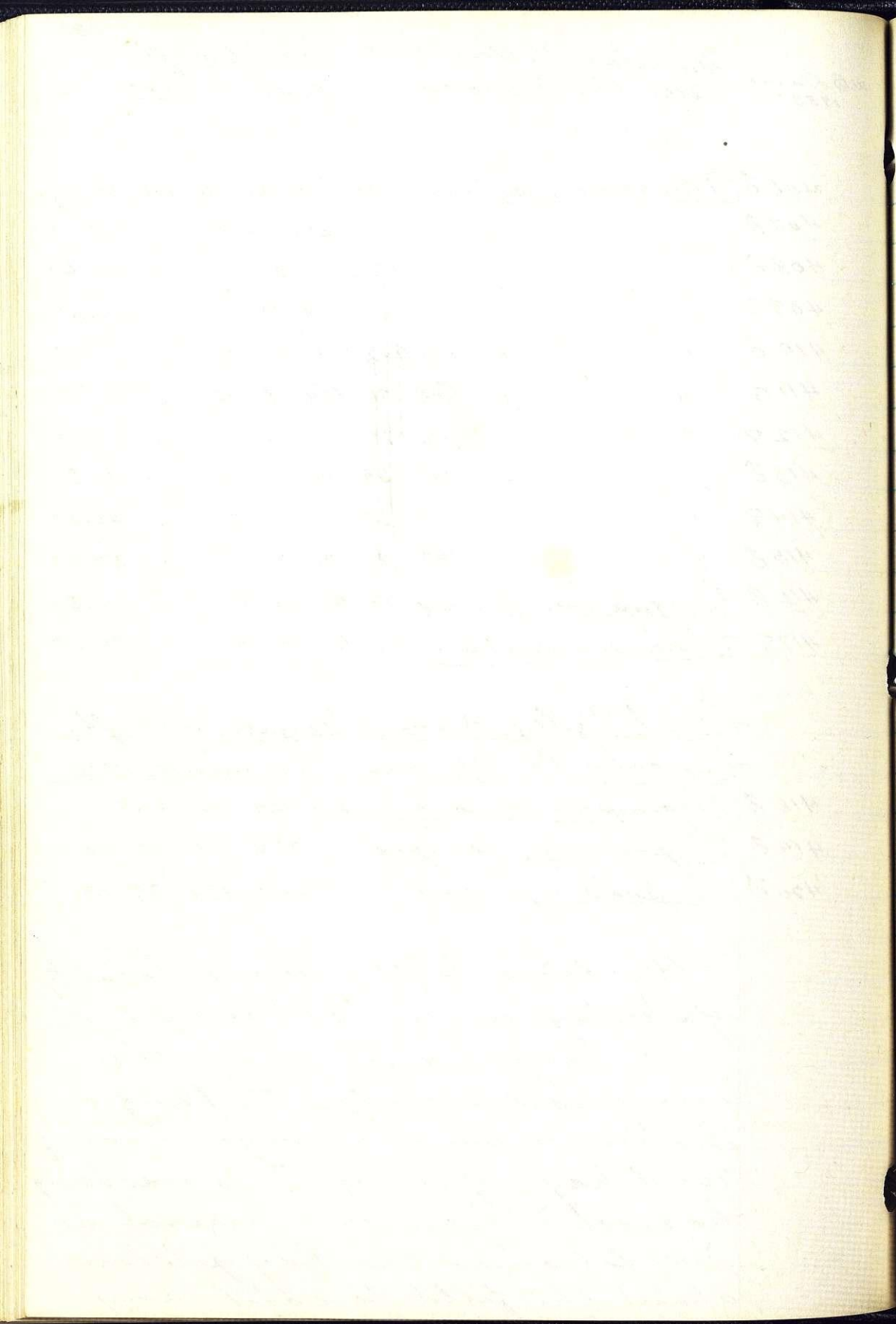
131.  
Montez Valley, Potts R.S., 6650 ft.  
Nye Co., Nevada, August 11, 1933.

406 ♂	<u>Microtus montanus</u>	175-50-21-16	wt. 55.8 grs.
407 ♂	"	" 178-39-20-15	" 65.1"
408 ♂	"	" 173-41-20-14	" 54.6"
409 ♀	"	" 160-34-19-13	" 51.3"
410 ♂	"	" 170 <del>(142)</del> 17 41-19-15	" —
411 ♀	"	" <del>(142)</del> 176 - <del>(24)</del> 18.5-12	" 41.1"
412 ♀	"	" 176 172-43-19-14	" 54.2"
413 ♂	"	" 172 169-44-19-13	" 46.8"
414 ♀	"	" 169 169-39-19-13	" 40.2"
415 ♂	"	" 169 172-41-19-14	" 52.5"
416 ♂	<u>Perognathus parvus</u>	172-91-22-7	" 12.3"
417 ♀	<u>P. m. sonoriensis</u>	160-64-19-19	" 29.3"

Duck Valley, 3 mi S Geysers, 6050 ft.,  
Lincoln Co., Nevada, August 10, 1933.

418 ♂	<u>Peromyscus m. sonoriensis</u>	167-77-19-17
419 ♂	<u>Dipodomys levipes</u>	266-150-43-14
420 ♂	<u>Dipodomys ordii</u>	240-130-39-13.

We drove to the above locality yesterday, arriving about 3 P.M. A large ranch is in the immediate vicinity of the Ranger Station on which a large acreage of "wild hay" is growing. This was being harvested upon our arrival, so we followed the hay pitchers about the field to catch any



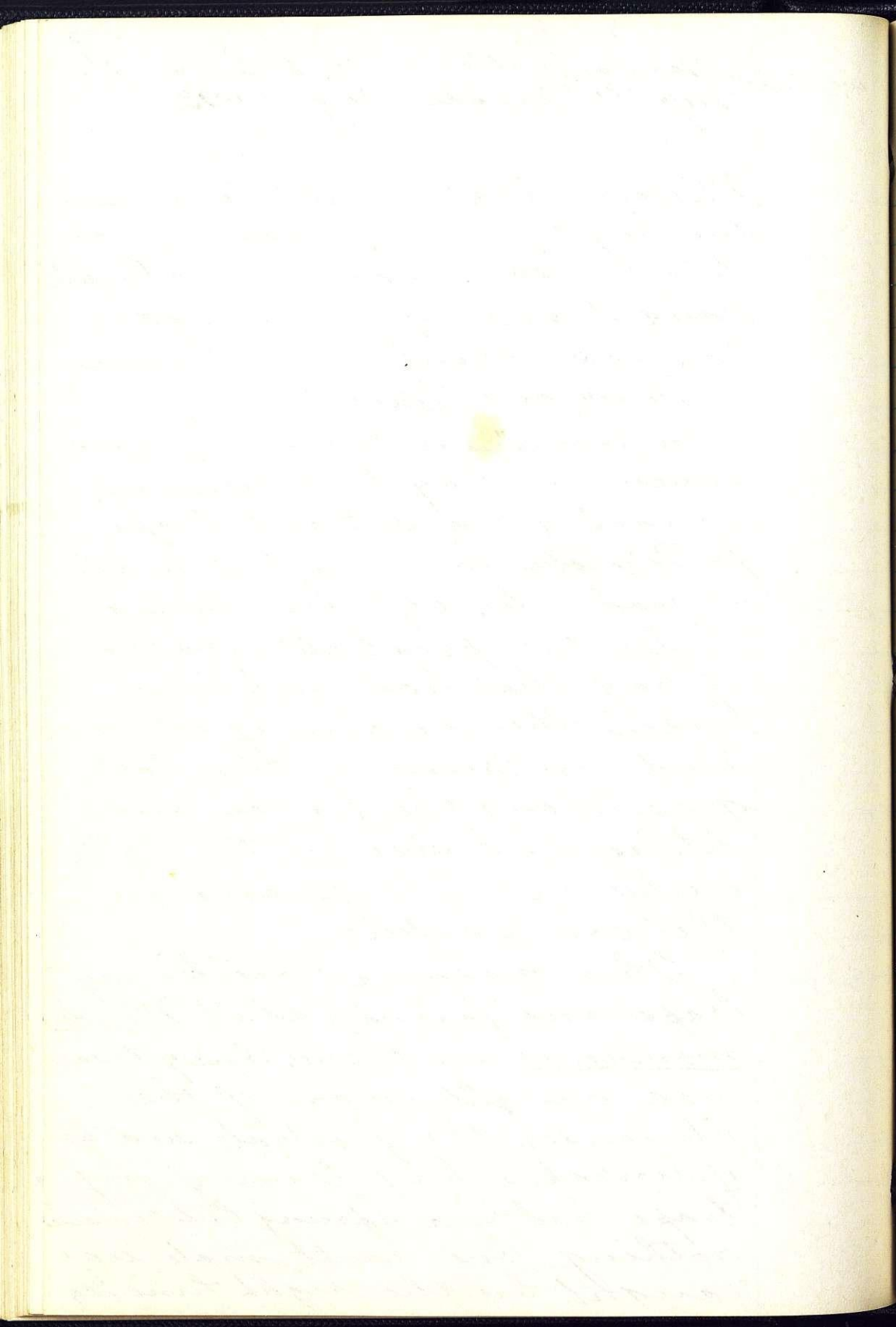
132

W.B. Davis  
Montana Valley, Potts R.S., 6650 ft.,  
Nye Co., Nevada, Aug. 11, 1933.

Microtus that might be under the hay cocks. D. Gorham caught two in this manner and Russell caught one by following the hay rake about the meadow.

Numerous Microtus runs were found in the wet places where the hay had been cut, so each of us set out traps for Microtus last night. I made 45 good sets, 10 of them being under the prostrate swaths of hay that had not been raked. The remaining sets were made in "runs" in the tall grass along the fences and ditches, and also in the tall, fleshy, reed-like grasses in the cow pasture.

This morning I visited my traps and found 5 adult Microtus montanus in them. One of these was caught in one of the sets under the prostrate swaths of unraked hay. Five of my traps had been sprung but contained nothing. One adult male was caught by the right hind leg



W. B. Davis  
1933

133.  
Monitor Valley, Pott's R. S., 6650 ft.,  
Nye Co., Nevada, Aug 11, 1933.

and had dragged the trap 10 ft. over the top of a rank growth of tall marsh grass. It was dead when I found it, probably due to exposure.

I followed the hay pitchers again this A.M. and caught two more adult ♂♂ with my hands. It is surprising how well these animals have adapted themselves for concealment. Even in the short stubble of this field, one had to watch very closely when the haystack was pitched onto the wagon in order to see the mouse when it started to move to a new locality. The extremely short legs permitted the animals to press their bodies close to the ground so the back was below the level of the stubble. The dark coloration of the pelage plus the slow, sinuous method of crawling enhanced the chances of escaping detection. I observed a reversal of this form in the field that was being raked. Here I saw a Microtus

*[The page contains approximately 20 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

W. B. Davis  
1933

134.  
Monitor Valley, Potts R. S., 6650 ft.,  
Nye Co., Nevada. August 11, 1933.

that had been disturbed by the hay rake escape by running over the top of the prostrate grass, entirely exposed, for a distance of perhaps ten feet, before diving in under for concealment. Movement was accomplished in this case by a combination of leaping and running.

No Thomomys workings were observed on this ranch.

Russell and I made up skins in the P. M. while Garham trapped for gophers at the Pine Creek Ranch and Potts Ranch. He reported finding only one fresh gopher working at the Pine Creek Ranch, while at Potts Ranch they were reported as abundant.

There are several hot springs about  $\frac{1}{4}$  mi. S. of the Ranger Station that form into small pools. Here we saw several Brewer Blackbirds and Cinna mon Teal. The rancher here reported that ducks were numerous here in the fall.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



W.B. Davis  
1933

Monitor Valley, Potts Ranch, 6900 ft.,  
Nye Co., Nevada. Aug. 13, 1933.

421 ♀	<u>Thomomys bottae</u>	210-66-29-5	wt. 105.4 gr.
422 ♂	"	" 260-73-33-7	" 233.0 "
423 ♂	"	" 260-87-32-7	" 196.4 "
424 ♀	"	" 232-77-30-5	" 135.7 "
425 ♂	"	" 252-87-32-6	" 183.0 "
426 ♀	"	" 222-73-29-6	" 117.5 "
427 ♀	"	" 232-76-29-6	" 172.0 "
428 ♀	"	" 277-76-27-5	" 131.4 "
429 ♂	"	" 210-67-29-5	" 90.0 "

Monitor Valley, Potts Ranch, 6650 ft.,  
Nye Co., Nevada, Aug. 12, 1933.

430 ♂ Microtus montanus 177-46-20-13.

Monitor Valley, Nays Ranch, 7200 ft.,  
Nye Co., Nevada, Aug. 12, 1933.

431 ♀ Thomomys quadratus 196-61-27-5  
432 ♀ " " 202-53-27-4  
433 ♂ " " 208-55-27-4.

We trapped yesterday morning, Aug. 12, for two hours at Nays Ranch on Barley Creek. Thomomys quadratus were working in the alfalfa field west of the ranch house. 8 specimens were taken and then we drove to Potts Ranch, north of Barley Creek, where Gorham had made some Thomomys

*Mountain Valley, N.C. 1888*

1000	210.00	1000
1000	210.00	1000
1000	210.00	1000
1000	210.00	1000
1000	210.00	1000
1000	210.00	1000
1000	210.00	1000
1000	210.00	1000
1000	210.00	1000
1000	210.00	1000

*Mountain Valley, N.C. 1888*

1000	210.00	1000
1000	210.00	1000
1000	210.00	1000

*Mountain Valley, N.C. 1888*

W.B. Davis  
1933

Monitor Valley, Potts Ranch, 6900 ft.,  
Nye Co., Nevada. Aug. 13, 1933.

sets. He had caught only two specimens in his traps here. We had decided to drive to the Toiyabe Range yesterday P.M. (12<sup>th</sup>), but tire trouble developed, so we made additional sets for Thomomys.

Russell and I worked together and made 28 sets. The gophers were numerous but they were working deep, from 6" to 2 ft., so some difficulty was met in locating the burrows.

We took 18 gophers this A.M. out of our 28 sets and spent all day in camp making up specimens from yesterday's & today's catches.

15 mi. N. Ureine, Eagle Valley, 6200 ft.,  
Lincoln Co., Nevada, Aug. 5, 1933.

skull only  
434♂

Odocoileus hemionus (pick up).

6 mi. n. Pine Co. Ranch, Monitor Valley,  
6700 ft., Nye Co., Nevada, Aug. 11, 1933.

skull only

435

skull only

436

skull only

437

skull only

438

Canis latrans (pick up)

" " " "

" " " "

" " " "

100  
Mentzelia  
1855

at least 100  
flowers  
has been  
found  
in the  
mountain

mountain  
in the  
mountain

mountain  
in the  
mountain

101  
Mentzelia  
1855

mountain  
in the  
mountain

102  
Mentzelia  
1855

W.B. Davis  
1933.

Berkeley, Alameda Co., California.  
Aug 15, 1933.

The above five "skull only" specimens were "pick ups".

We left Potts Ranch the evening of Aug. 13, drove to Austin where we had supper and camped for the night.

Drove back to Calif. on the 14<sup>th</sup> passing through Fallon, Reno, Sacramento, Berkeley.

1845  
23

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page]*

W.B. Davis  
1933

Berkeley, Alameda Co., California

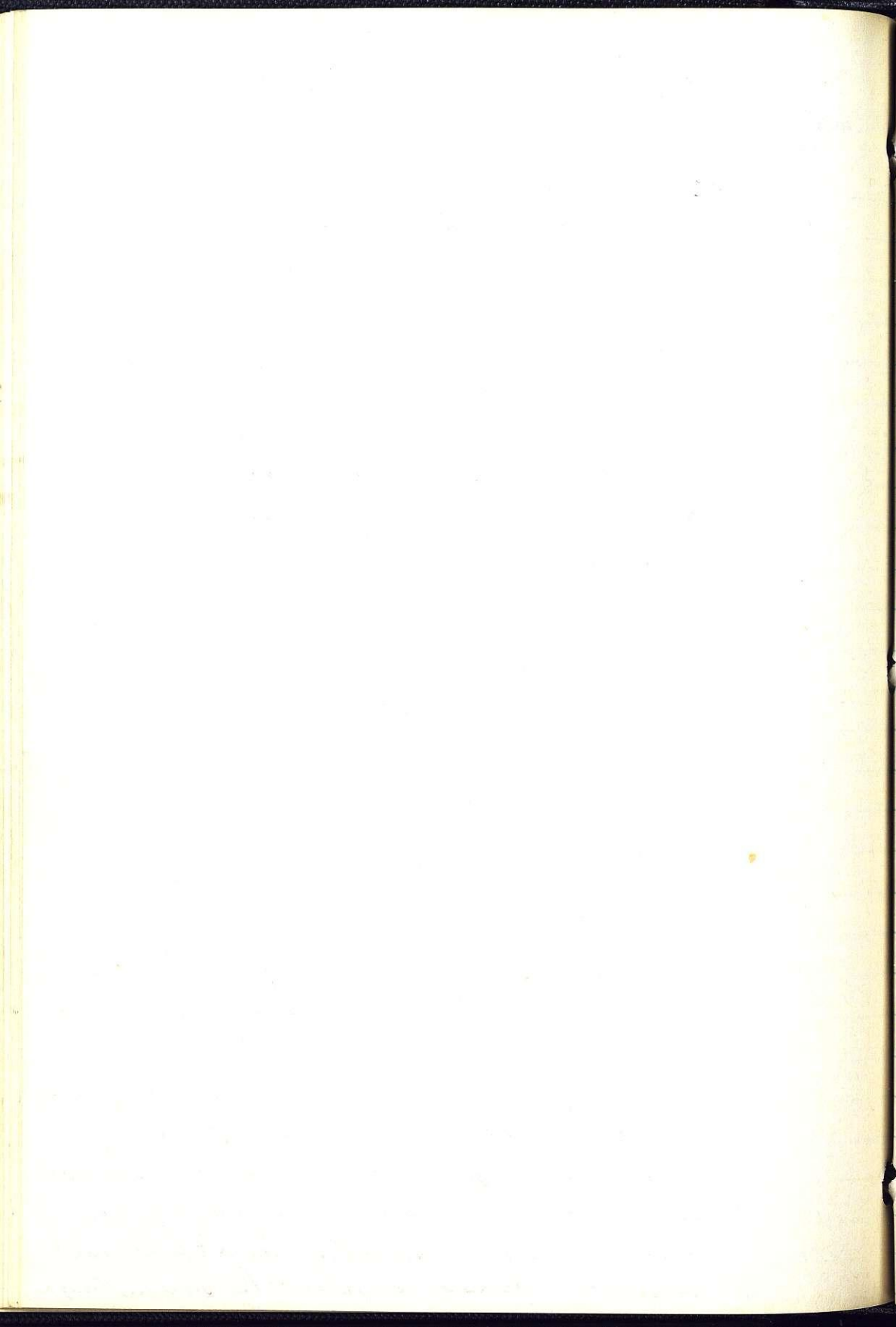
Nov. 26, 1933.

4348 Audubon Warbler.

Picked up dead by La Nell and Bobby Davis on the sidewalk in front of 2529 Dwight way. Had evidently hit something or had been hit for hemorrhage of the brain had caused death. Testes o. Stomach contents: crushed parts of a Coleopteran.

Dec. 30 On the U.C. Campus 1:00 P.M.  
Heavy rain. Saw:

1. Glaucous-winged Gull. - one in a flock of California Gulls. Had no black markings on tips of wings.
2. California Gull - a flock of 30 birds, both adults and immature, was on the lawn between Gott Hall and the Science Building were walking around picking things up off the grass. Probably was angle worms for they are numerous on the walks and on the grass since the rain began.





W. B. Davis  
1933

Berkeley, Alameda Co., Calif.

139.

Dec 30 (Continued).

3. Western Robin - a flock of 10 or more flew from the lawn into the Monterey Cypress tree near the hand-ball courts.
4. Nuttall Sparrow - Heard several singing but saw none.
5. Calif. Jay. - Heard one calling from an oak tree.

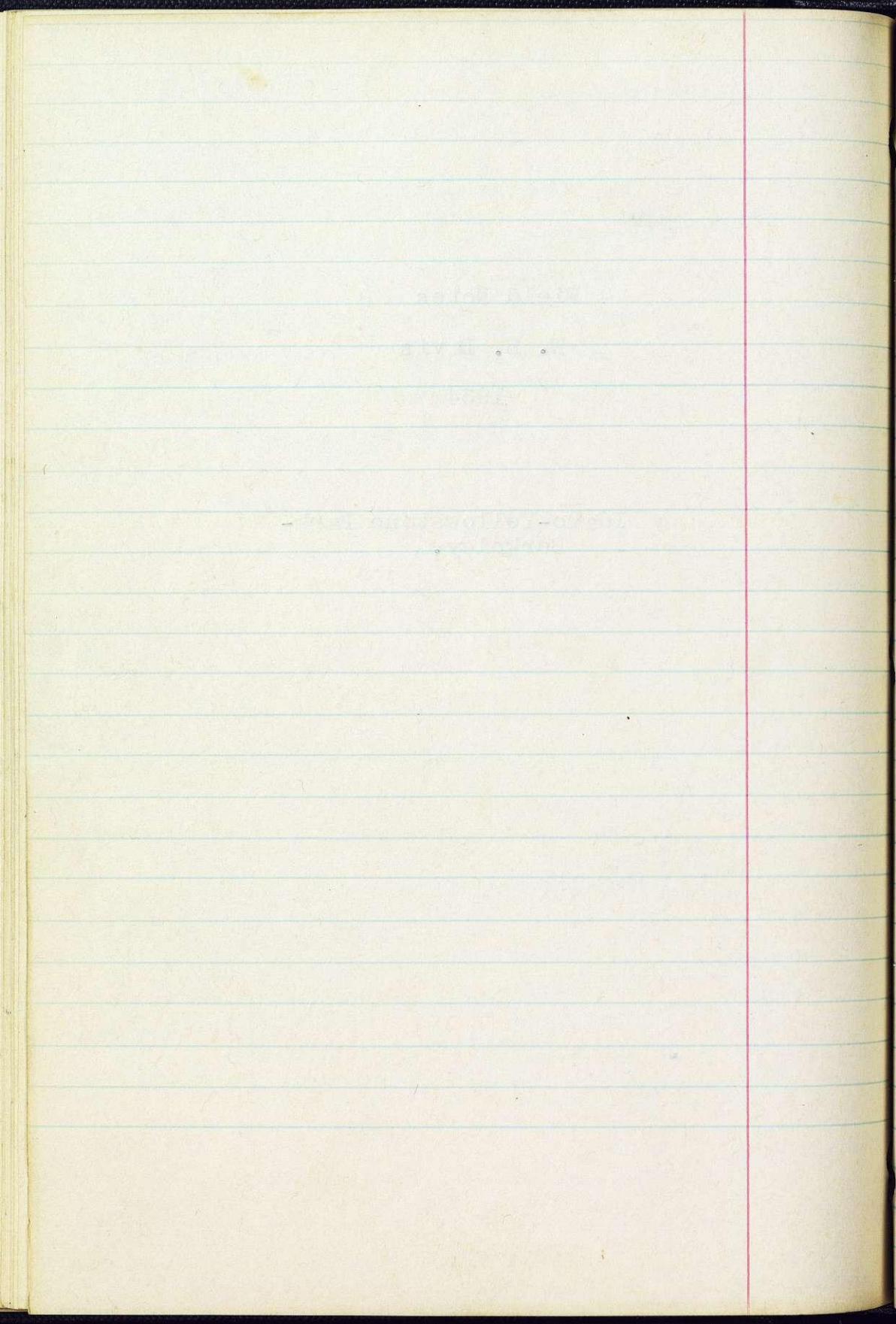


Field Notes

W. B. Davis

1934

Idaho-Yellowstone Park-  
Berkeley.



W.B. Davis  
1934.

Berkeley Alameda Co., Calif.  
Feb. 26, 1934.

3 mi. N. Sunol, Niles Canyon,  
Alameda County, Calif. Feb. 25, 1934.

435 ♂ Golden-crowned Sparrow. <sup>coll. by James Stevenson</sup>  
Testes very small, about 1 mm.  
in diameter. Practically no fat  
on the skin.

Oroville, Butte Co., Calif.  
Mar. 3, 1934

436 ♂. Callospermophilus 257-93-40-19.  
Died in captivity at Oroville.  
was captured near Susanville,  
Lassen Co., Calif. last fall.

Table Mt., 6 mi. N. Oroville, Butte Co.,  
Calif. Mar. 3, 1934

437 ♂ Sayornis saya

4 mi. N. Knights Landing, Sutter Co.,  
Calif. Mar. 2, 1934

438 ♂ Melospiza l. lincolni

7 mi. NW Oroville, Butte Co., Calif.  
Mar 3, 1934

439 ♂ Savannah Sparrow

Butcher's bill

Butcher's bill

Butcher's bill

Butcher's bill

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W. B. Davis  
1934

2 mi. N Marysville, Yuba Co., Calif.  
Mar. 2, 1934.

4403 Agelaius p. californicus

2 mi. S Ramon, Contra Costa Co., Calif. Mar. 11, 1934.

4413 Pipilo maculatus

4423 Ixoreus naevius

4433 Plain Titmouse

4443 Golden-crowned Sparrow

4453 " " "

In company with James Stevenson and Don Hatfield I rode to the above locality. Day warm, bright sunshine. Many birds were seen: Western Bluebird, common along the highway; Western Meadowlark, common along highway; Calif. Jay, few; Long-crested Jay, few; Golden-crowned Sparrow, common in the shrubs; San Francisco Spotted Towhee, common in chaparral; Sparrow Hawk, heard one; West Red-tail, saw one at the above locality; Plain Titmouse, very abundant & in full song; Lutescent Warbler heard songs; Bewick Wren heard several; Pallid Wren-tit heard three; Allen Hummer, saw several; Varied Thrush, abundant & very wary.

2. on 11th August 1904  
1904

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W. B. Davis  
1934.

El. Cerritos Mud-flats, Alameda Co., Calif.  
Mar. 24, 1934.

Went hunting here, with Bobby, for shore birds. Found none, but saw several sea gulls, mostly californicus, a few occidentalis and philadelphia. The Bonapartes kept flying along the edge of the water, tern-fashion, looking for food. When thus engaged they were easily approached. At the north end of the flats there were hundreds of gulls resting on the sand bars.

I shot one gull, californicus, breaking its wing, and when it landed, hundreds of other gulls of all three species hovered around over the spot. I took two Bonapartes while they were hovering above, using <sup>no.</sup> 7½ in a 4/10 gage. The Bonapartes are much more active than their larger relatives and were in the air most of the time.

4468 Larus philadelphia

4479 Larus philadelphia  
skeleton only

4482 Larus californicus

W. B. Davis  
1844

W. B. Davis  
1844

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W. B. Davis  
1934.

El Cerrito Mud Flats, Contra  
Costa Co., Calif. Apr. 28, 1934.

Visited the mud flats at high tide. Numerous shore birds were present, occupying areas of shallow water in company with gulls and terns. The Western Sandpiper was by far the most numerous. Several flocks of Dowitchers were found. The Red-backed Sandpipers were mingled with the Western and were exceedingly hard to spot.

A slight breeze was blowing and the feeding activities of the huge flocks of Western Sandpipers in relation to the wind was interesting. Every bird fed head-on into the wind. Frequently those in the front of the flock would retreat several yards, but the probing in the mud always began after the birds had headed into the wind. Time about 1:30 P. M.

The dowitchers fed, at times, with the smaller sandpipers, but always flocked by themselves in flight. In contrast to the

1851  
1852

The first of the month...  
the second of the month...  
the third of the month...  
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the twenty-fifth of the month...  
the twenty-sixth of the month...  
the twenty-seventh of the month...  
the twenty-eighth of the month...  
the twenty-ninth of the month...  
the thirtieth of the month...  
the thirty-first of the month...

W. B. Davis  
1934

El Cerrito Mud Flats, Contra Costa Co., Calif. Apr. 28, 1934.

nervous, whirling, swallow-like flight of the Western Sandpipers, the Dowitchers were more direct in their flight. Perhaps this can be correlated with the difference in size of the birds.

All the birds taken were extremely fat, though this excess of fat had not deteriorated the skin in any way as is the case with overly fat Varied Thrushes, for instance. The skinning process was fairly easy, though time consuming as all the fat had to be removed. (What causes this difference between the texture of the skin in these two kinds of birds?)

The Red-backed Sandpiper was mottled reddish-brown on the back, and just beginning to acquire the black belly. The backs of the Western and Red-backed Sandpipers are very similar in color, though the latter is larger, lacks webs on the feet and in summer has

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

W.B. Davis  
1934

El Cerrito Mud Flats, Contra Costa  
County, Calif. Apr. 28, 1934.

a black belly.

alcohol.

- |      |                            |
|------|----------------------------|
| 449  | <u>Western Sandpiper</u> . |
| 450  | " "                        |
| 451  | " "                        |
| 452  | " "                        |
| 453  | " "                        |
| 454  | " "                        |
| 455  | " "                        |
| 456  | " "                        |
| 457♂ | " "                        |
| 458♂ | " "                        |
| 459♀ | " "                        |
| 460♀ | " "                        |
| 461♂ | Red-backed Sandpiper.      |
| 462♀ | " "                        |
| 463♂ | Long-billed Dowitcher.     |

El Cerrito Mud Flats, Alameda  
Co., Calif. May 4, 1934

- |            |      |                     |
|------------|------|---------------------|
| skel. only | 464♂ | Western Sandpiper,  |
| skel. only | 465♀ | " "                 |
|            | 466♀ | Knot.               |
|            | 467♀ | " "                 |
|            | 468♂ | Semipalmated Plover |
|            | 469♂ | " "                 |

James Stevenson, Roger Sprinkle  
and I drove out to the beach

W. B. Smith Co. Clerk of the Court  
County of [unclear] State of [unclear]

Western

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W. B. Smith Co. Clerk of the Court  
County of [unclear] State of [unclear]

Western

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James H. [unclear]  
[unclear]



W. B. Davis  
1934

El Cerrito Mud Flats, Alameda  
County, Calif. May 4, 1934.

about 1:30 P. M. The tide was coming in, yet there was a considerable extent of the mud flat still out of water. Most of the shore birds were congregated at the south end of the flats near the sewer outlet.

Western Sandpipers were in majority with Red-backs next. Several curlews were seen, but they were too shy to get a shot at them with my 410. About 50-75 Knots were observed, three of which I knocked down at one shot as they whirled past me in close-rank formation. I thought they were Dowitchers, but on examination the much shorter beak was easily discernable. The color of both the Knot and the Dowitcher is very similar.

Two Semi-palmated Plovers were taken. At a distance I cannot distinguish this bird from the Red-backed Sandpiper.

Stevenson said he saw

El Paso, Texas, this 1st of  
Sept. 1894

Dear Mr. [Name],  
I have just received your  
letter of the 27th and am  
glad to hear that you  
are still in the city.  
I am well and hope these  
few lines will find you  
the same.

I have not much news  
to write at present. The  
weather here is very  
warm, but they say it  
will get cooler in a few  
days. I think you will  
enjoy the change of  
climate when you visit  
us.

I have not much news  
to write at present. The  
weather here is very  
warm, but they say it  
will get cooler in a few  
days. I think you will  
enjoy the change of  
climate when you visit  
us.

I am, dear Mr. [Name],  
Very truly,  
Your friend,  
[Name]

W. B. Davis  
1934

El Cerrito Mud Flats, Alameda  
Co., California. May 4, 1934.

several Bonaparte Gulls in full spring plumage. Also, he took a Golden-crowned Sparrow, very fat, that almost equals the spring record of May 8, 1919, for this locality. Besides this, he took a Song Sparrow, a Pine Siskin and a House Finch. Several Allen Hummers and California Gulls were seen.

Although at least 5 species of shorebird were feeding on the flats at the same time, the different species, save the curlew, flocked pretty much to themselves. There seemed to be very little mixing of flocks though often they were feeding side by side. Of two species, one large and the other small, there seemed to be a great deal more mixing. The curlews were usually widely scattered, tho in the same general area, and did not hesitate to feed among the more numerous smaller species.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

W. B. Davis  
1934

El Cerrito Mud Flats, Contra Costa  
County, Calif. May 6, 1934.

4708  
skel. only  
4713

Song Sparrow.

Western Sandpiper.

Drove to the north end of the mud flats in Richmond and attempted to get some shore birds but they were congregated on a small gravelly island out of reach. Saw numerous Red Backed Sandpipers, Western Sandpipers, a few Semi-palmated Plovers and Dowitchers. Cliff Swallows were flying over this part of the flats. Then drove down to the El Cerrito section of the flats. Here the majority of the birds was Western Sandpipers (about 500-700), then Red-backed Sandpipers (about 100). Three Knots and two Hudsonian Curlews were seen, but they were too wild to approach close enough for a shot. Killed one Semi-palmated Plover and two Western Sandpipers. One Alameda Song Sparrow taken. They were very common, at least 15 seen.



W. B. Davis El Cerrito Mud Flats, Alameda  
1934 County, Calif. May 7, 1934.

4728 Knot

4738 "

4749 "

4758 Hudsonian Curlew. (Shot by Stevenson)

ske. 4768 western Sandpiper

only. 4778 " "

Cowan, Stevenson and I visited the south end of the flats this morning about 8:30 to 9:40. The tide was going out, but was still far enough in when we arrived to congregated the birds on the flats near the sewer exit. Knots, (about 75), Dowitchers (few, only one taken), Sanderlings, Semipalmated Plover, Western Sandpipers (fully 500), Red-backed Sandpipers (about 200), and Hudsonian Curlews (about 25) were present. Although the birds were congregated, each species tended to keep pretty much to itself within the larger aggregation. The Curlews were usually much more scattered through the flocks than any of the others. The Knots and Dowitchers were intermingled even in flying

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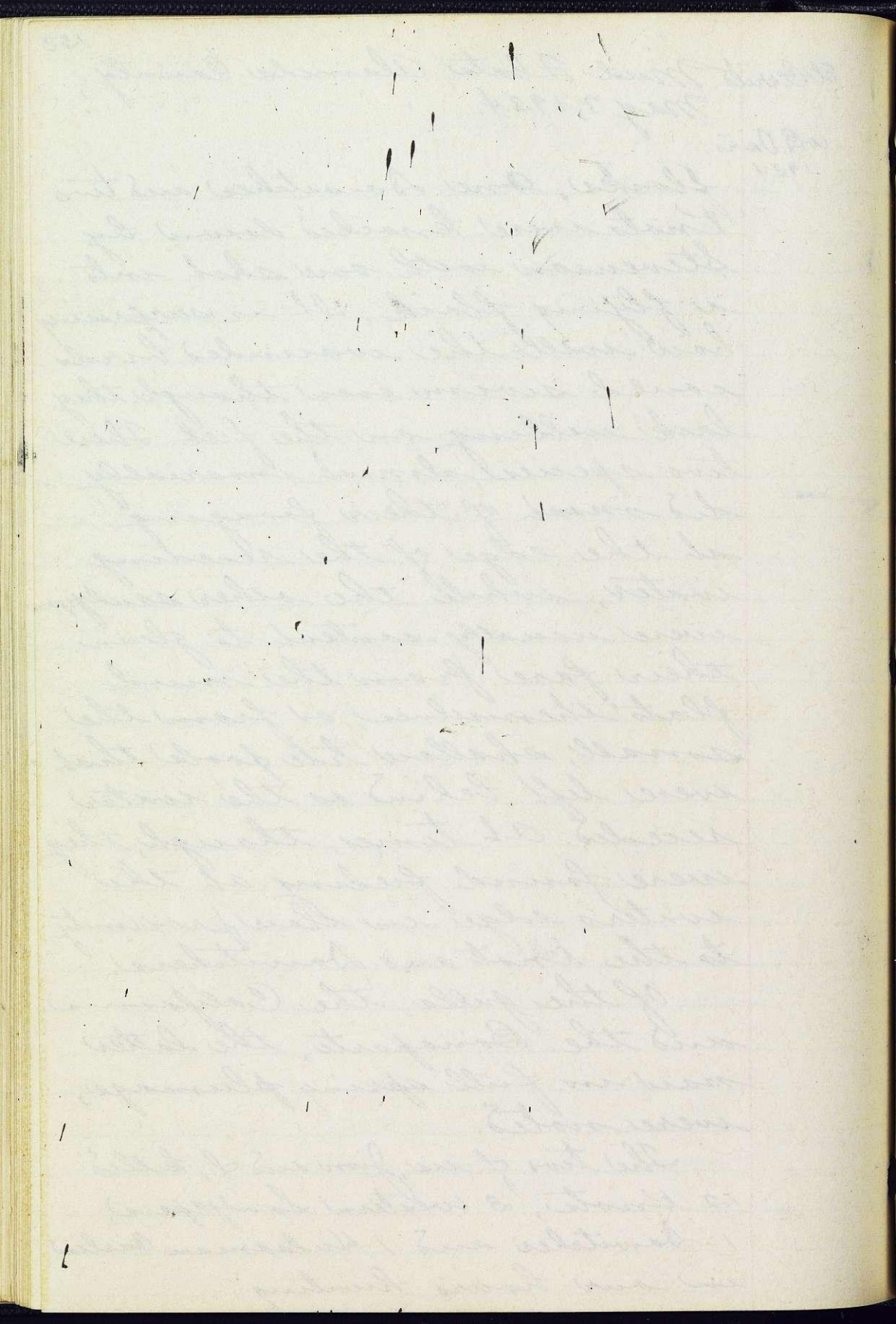
El Cerrito Mud Flats, Alameda County,  
May 7, 1934.

W. B. Davis  
1934

flocks, One Dowitcher and two Knots were knocked down by Stevenson with one shot into a flying flock. It is surprising how well the wounded birds could swim even though they lack webbing on the feet. These two species almost invariably did most of their foraging at the edge of the receding water, while the other sandpipers were usually content to glean their fare from the mud flats themselves, or from the small, shallow tide pools that were left behind as the water receded. At times, though, they were found feeding at the water's edge in close proximity to the Knots and Dowitchers.

Of the gulls, the California and the Bonaparte, the latter now in full spring plumage, were noted.

The two of us, Jion and I, killed 12 Knots, 3 western Sandpipers, 1 Dowitcher and 1 Hudsonian Curlew in our hour's hunting.



W.B. Davis  
1934

El Cerrito Mud Flats, Alameda  
Co., Calif. May 12, 1934.

4788 Sanderling.  
skel. only  
4790 Sanderling.  
alcoholic  
480 "

Yankee Hill, Butte Co., Calif.  
May 15, 1934

481. Sceloporus occidentalis

482. Georhynchus scienciacuda.

10 mi. NE Knights Landing, Yuba  
County, Calif. May 15, 1934.

483. Pituophis catenifer.

Yankee Hill, 2000 ft., Butte Co., Calif.  
May 16, 1934.

484 ♂ Nuthatch

485 ♂ Black-throated Gray Warbler

486 ♂ " " " "

487 ♂ Western Chipping Sparrow.

488 ♂ Cassin Solitary Vireo, Black-throated Gray <sup>warbler</sup>

489 ♂ Cassin Solitary Vireo

490 ♀ Western Tanager

491 ♂ Ash-throated Flycatcher.

492 ♀ Spotted Towhee.

13 mi. N Oroville, Butte Co., Calif.  
May 16, 1934.

493. California Thrasher.

El Curio Verde Blvd, Valencia  
C. Camp 1934

1934  
1934  
1934  
1934

El Curio Verde Blvd C. Camp  
May 15 1934

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W. B. Davis  
1934,

Yankee Hill Butte Co., Calif.,  
Elev. 2000 ft. May 16, 1934.

Left Oroville, after a trip from Berkeley, for Yankee Hill about 7:30 P.M. yesterday. Drove to Upton's place to get Allan Upton to go with me to Idaho. While waiting for him I collected a few birds and put them up.

The territory in which I hunted was openly timbered with Pinus sabiniana, P. ponderosa, Pseudotsuga taxifolia, Arctostaphylos and Poison Oak. Birds were plentiful, the most abundant being the Black-throated Gray Warbler, three males of which were taken. In numbers, perhaps the Cassin Vireo was second. Their clear, loud songs were to be heard almost constantly. One Western Wood Pewee and two Ash-throated Flycatchers were noted. The latter were doubtless nesting in the top of a tall dead yellow Pine. Several Juncos, Chipping Sparrows and Western Tanagers were also noted.

On the way back to Oroville I stopped near a Ceanothus

*[Faint, illegible handwriting on lined paper]*

W. B. Davis  
1934

Crowville, Butte Co., Calif. May, 16, 1934.

cuneatus thickets some 12 mi. N. Crowville. Here I saw two Wren Tits at close range, at least two feet, both of which were carrying food. They kept so close it was impossible for me to get a shot at them, even though I waited half an hour for the opportunity. I endeavored to locate their nest, but the dense thicket was too much for me.

I was crawling around underneath the Ceanothus when I noticed a California Thrasher on the ground some 30 feet from me. Obstructions prevented a shot at that time, but soon she flew to the top of a Quercus wislizenii scrub, and at a distance of about 30 ft. I shot with a half load of #12 and nearly mutilated the whole bird. One tail feather was all that remained of the tail. The condition of the breach indicated a brooding bird. I failed to locate her nest, however.





W. B. Davis  
1934. El. Cerrito Mud Flats, Alameda  
Co., Calif. May 21, 1934.

4948 Alameda Song Sparrow

Allan Upton and I drove to the Mud Flats this A.M. The tide was just going out. I searched the flats from one end to the other and saw only two shore birds - two Hudsonian Curlews, all the others seem to have left on their northern migration. Took a shot at the Curlews, but the distance was ~~too~~ great for my 410.

Several gulls, some of which appeared to be Bonapartes were noted, but they kept out quite a distance.

Had poor luck in trying to bag some Song Sparrows. Out of 7 shots, I killed only one. Took two English Sparrows and one House Finch for Allan to practice on.

1847  
The Court of Sessions  
at Glasgow

James Buchanan Esq  
of Glasgow  
to the Honble the Lord Advocate  
of Edinburgh  
Dear Sir  
I have the honor to acknowledge  
the receipt of your letter  
of the 10th inst. in relation  
to the petition of James  
Buchanan Esq. for a writ  
of Habeas Corpus in  
relation to the said  
James Buchanan Esq.  
and in reply to inform  
you that the same  
has been granted  
and that the said  
James Buchanan Esq.  
is now at liberty  
to depart for  
Glasgow.

I am, Sir, very respectfully,  
Your obedient servant,  
James Buchanan Esq.  
of Glasgow

W. B. Davis  
1934

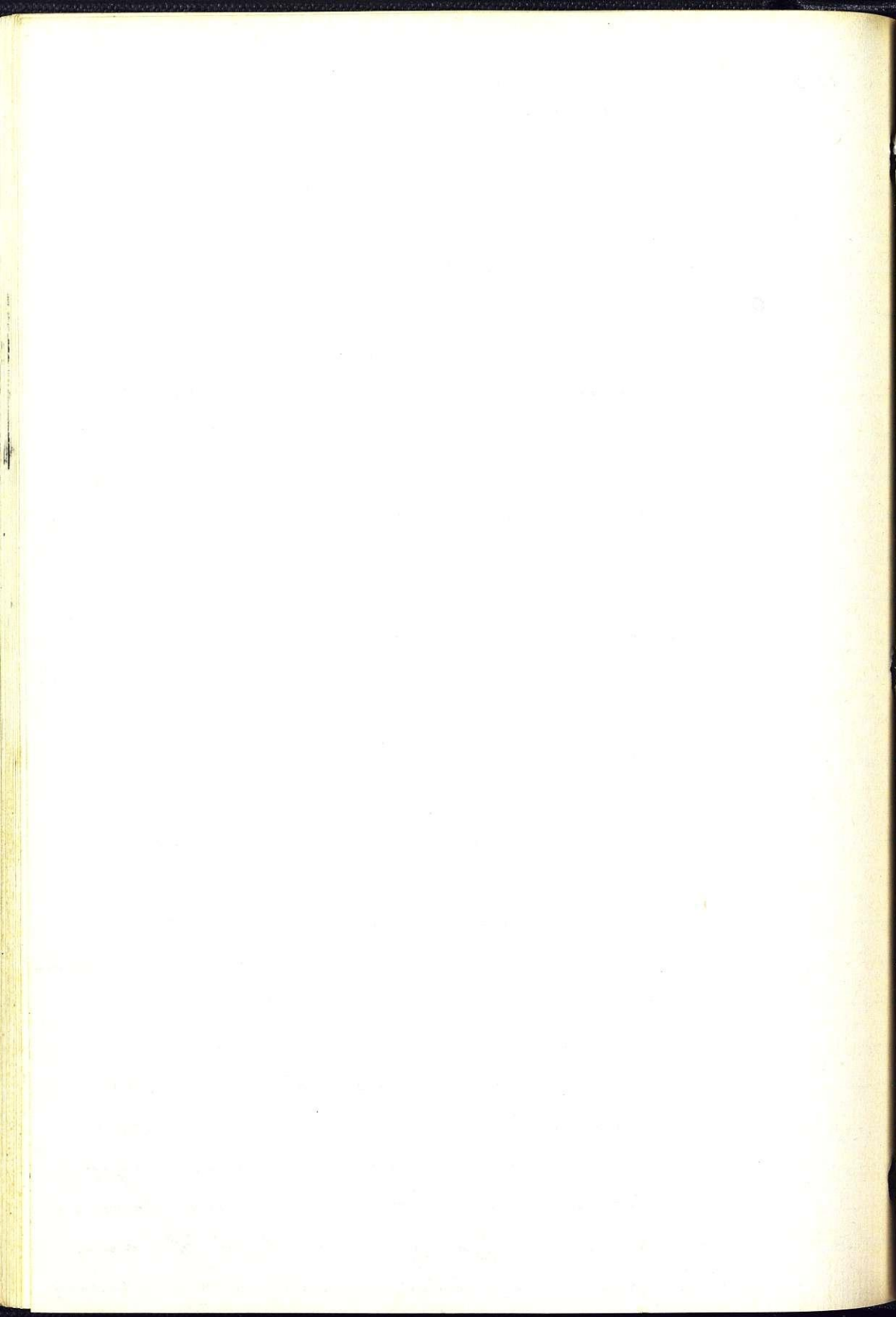
Dwight Way Hill, Berkeley,  
Alameda Co., Calif. May 22, 1934,

- 495? California Jay, juvenile.  
496. ♀ Brown Towhee.  
497 ♀ Rufous Crowned Sparrow.  
498 ♂ Anna Hummingbird  
499 ♀ Allen Hummingbird

Allen and I hiked up on the hill, spending from 11:30 to 3:00 P.M. hunting. The day was cloudy with a fair west wind. Several birds were noted that were not taken, among which were the California Thrasher, Wren Tit, Bush-tit, Olive-backed Thrush (heard) California Quail.

The songs of the Wren Tite seemed to indicate that they predominated in numbers, but the birds were seldom seen. Hummingbirds were rather common, the Anna seeming to be most abundant. Two ♂♂ Annes were shot but could not be located as they had fallen in leaf litter in the chapparal.

A nest with three fresh eggs of the Brown Towhee was found in a Baccharis about 5' from the ground. The bush was along



W. B. Davis  
1934.

Dwight Way Hill, Berkeley,  
Alameda Co., Calif. May 22, 1934.

156

the side of the road, not more than 3' from same, but was well screened by the foliage. The nest and eggs, as well as the female, were collected. On our return past the spot the male was seen in the vicinity but not collected.

I tried to get a shot at the California Thrashers, but they were too wiley for me. Two were actually seen, and several others were heard.

The Rufous-crowned female's condition indicated she was a brooding bird and doubtless the nest was in the near vicinity.

The California Jay was one of a family of four young that were well able to fly, but were still flocking together and being fed by the parents. We noted several feeding trips by the parent birds to this family group. Two of the birds were taken, one of which Allan made into a study skin.

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 that I have seen  
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(p. 157)

20 mi. sp. Owyhee, Nevada, May 26, 1934

Allan Upton and I left Berkeley, California, Thursday, May 24, at 9:45 A.M. for a collecting trip through Nevada and into Idaho. Speedometer reading 775.

Left in a rain storm, but left this behind at Davis, though we hit rain again when we were crossing the Sierras and at our camp the first night.

At four miles west of Donner Summit we stopped at 5:30 and collected two Steller Jays and one Cony. Killed one other Jay but it lodged in the branches of a tall fir and I was unable to get it. At this same place we saw two Marmots that were occupying the rock slide of the railroad grade along with the Cony. The cony was a ♀ and showed signs of nursing young for the mammary glands were highly developed. Heard Juncos and Chickadees here, but never collected any of them.

Left this place at 4:30 and

(p. 158)

drove until 7:00 P.M. and then camped at the south end of a big Alkali flat 6 miles north of Fernley. Our camp was at the edge of the flat, but in the sand. Greasewood was quite common on the flat, while some sort of sage was on the sand.

I set out 22 traps about 20 paces apart in the sandy areas to the east of the highway. Several likely looking burrows were noted that later proved to be occupied by Dipodomys desertii and Dipodomys ondii.

Rained and blowed all night and neither of us got much sleep for we were expecting the tent to come down any time. Everything not placed inside the car was pretty well filled with sand -- our supper as well.

May 25, 1934, 20 mi. s. Owyhee, Nevada.

Got up at sunrise and visited my traps. Out of the 22 sets I took the following, all of

(p. 159)

which were saved: Dipodomys desertii 2; Dipodomys ondii 6; Onychomys 1; Perognathus nevadensis 1. It seemed strange to me that not a single Peromyscus was taken.

(p. 157)

30 mi. so. Owyhee, Nevada, May 26, 1934

Allen Upton and I left Berkeley, California, Thursday, May 24, at 9:45 A.M. for a collecting trip through Nevada and into Idaho. Speedometer reading 775. Left in a rain storm, but left this behind at Davis, though we hit rain again when we were crossing the Sierras and at our camp the first night.

At four miles west of Donner Summit we stopped at 8:30 and collected two Reithaler Jays and one Gony. Killed one other Jay but it lodged in the branches of a tall fir and I was unable to get it. At this same place we saw two Heterotis that were occupying the rock side of the railroad grade along with the Gony. The Gony was a ♀ and showed signs of nursing young for the mammary glands were highly developed. Heard Juncos and Chickadees here, but never collected any of them. Left this place at 4:30 and

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grove until 7:00 P.M. and then camped at the south end of a big alkali flat 6 miles north of Fernley. Our camp was at the edge of the flat, but in the sand. Greenwood was quite common on the flat, while some sort of sage was on the sandy areas. I set out 22 traps about 20 paces apart in the sandy areas to the east of the highway. Several likely looking burrows were noted that later proved to be occupied by Dipodomys deserti and Dipodomys ordii.

Rained and blowed all night and neither of us got much sleep for we were expecting the tent to come down any time. Everything not placed inside the car was pretty well filled with sand -- our supper as well.

May 26, 1934, 30 mi. s. Owyhee, Nevada.

Get up at sunrise and visited my traps. Out of the 22 sets I took the following, all ♂:

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which were saved: Dipodomys deserti 2; Dipodomys ordii 6; Dipodomys nevadensis 1. It seemed strange to me that not a single Peromyscus was taken.



We stayed encamped until 2:30 P.M. and I spent the time in making up specimens. Allan went hunting and came back with one male Redwing and a young Rattlesnake. The latter was much distended, so I cut it open and found a Perognathus nevadensis inside. The skull was saved as a specimen as well as the snake.

Left camp at 2:30 headed for Lovelock and Elko. Still raining intermittantly. The flat proved to be about eight miles long and in places cat tails were growing. At 10 mi. N. of Fernley we saw a single Yellow-headed Blackbird. It flew before we could stop to get a shot. Several Redwing and Brewer blackbird were

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noted in the marshy areas near the road. The place looks favorable for Microtus. At 45 mi. N. of Fernley we picked up a rattlesnake that had been run over and saved it as a specimen. The rattles had been cut off and the head and body partly smashed yet there was some fight still left in the snake.

At 46 miles N. of Fernley two Ravens were noted as they were flying near the road and appeared to be playing in the high wind.

34 miles N of Lovelock a small colony of Ammospermophilis was seen. They had the entrances to their burrows in the face of a two foot embankment at the side of the road.

Drove on to Elko where we camped for the night in the sagebrush at the north edge of town. Reached Elko at 10:45 P.M.

May 26, 20 mi. s. Owyhee, Nevada.

Got up about 7:00 A.M. and went hunting for an hour in-

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side the city limits of Elko. Killed four birds, Western Meadowlark ♂, Western Lark Sparrow ♂, Mountain Bluebird ♀, and Cassin Kingbird ♂, all of which were saved as specimens.

Left Elko, head north for Owyhee, distant 105 miles, about 9:30 A.M. The road leads out across the sagebrush-covered rolling hills with very little water available. About 10 miles N. of Elko I killed a Sagebrush Chipmunk ♂.

At 39 miles north of Elko a small willow-bordered stream was met which drained in a northerly direction. Here we saw

We stayed encamped until 2:30 P.M. and I spent the time in making up specimens. Allan went hunting and came back with one male Hedysia and a young Hedysia. The latter was much distended, so I cut it open and found a Peromyscus nevadensis inside. The skull was saved as a specimen as well as the snake.

Left camp at 2:30 headed for Lovelock and Eiko. Still raining intermittently. The flat proved to be about eight miles long and in places grass were growing. At 10 mi. N. of Fernley we saw a single Yellow-headed Blackbird. It flew before we could stop to get a shot. Several Redwing and Brewer blackbird were

(p. 160)

noted in the marshy areas near the road. The place looks favorable for Micropus. At 4 1/2 mi. N. of Fernley we picked up a rattlesnake that had been run over and saved it as a specimen. The rattles had been cut off and the head and body partly smashed yet there was some light still left in the snake.

At 4 1/2 miles N. of Fernley two Havens were noted as they were flying near the road and appeared to be playing in the high wind.

3 1/2 miles N. of Lovelock a small colony of Ammodramus was seen. They had the entrance to their burrows in the face of a two foot embankment at the side of the road. Drove on to Eiko where we camped for the night in the aspen at the north edge of town. Reached Eiko at 10:45 P.M.

May 26, 20 mi. S. Owyhee, Nevada.

Got up about 7:00 A.M. and went hunting for an hour in-

(p. 161)

side the city limits of Eiko. Killed four birds, Western Meadowlark, Western Lark Sparrow, Mountain Bluebird, and Golden Kingbird, all of which were saved as specimens. Left Eiko, head north for Owyhee, distant 108 miles. The road leads out across the aspen-covered rolling hills with very little water available. About 10 miles N. of Eiko I killed a Sagebrush Gnatcatcher. At 32 miles north of Eiko a small willow-bordered stream was met which drained in a northerly direction. Here we saw

several ground squirrels of the mollis group, but were unsuccessful, in our attempts to take specimens. At this locality I killed a ♂ Tolmie Warbler and heard several Chats.

From this place on north to Jack Creek (62 mi. N of Elko by road) we saw ground squirrels. At Jack Creek, a ranch house and gas station, we took three ground squirrels and two ♂ Red-wing Blackbirds.

Jack Creek is one of those

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little desert valleys that is fed by springs and a small creek. As is usual with such places, much of the area was swampy and given over to sheep grazing. Cottonwood trees are growing there and Yellow Warblers, Robins, Brewer Blackbirds, and Arkansas Kingbirds were noted.

We left Jack Creek and drove to the above locality, reaching here about 2:30 P.M. The road is very rough and rocky just a few hundred yards below camp and as we were driving slowly, we noticed a Marmot cross the road and head for a rock slide. We stopped the car, jumped out, and Marmots seemed to be everywhere. We killed three, and as the place looked likely for Microtus and birds, we decided to camp along the small creek that arises in talus debris at the foot of a rugged, rocky mountain to our east about  $\frac{3}{4}$  mile.

The elevation at this camp I should judge to be not over 4000 feet. The surrounding country is typical sage land save for

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the long narrow meadow caused by the water from the two branches of this creek.

I set out 22 mouse traps in runways in the marshy area, spacing my traps about 20-30 paces. Killed 3 Redwings in the marsh.

Spent the remainder of the day making up specimens.

May 27, 20 mi. s. Owyhee, Nevada

Visited my traps this A.M. and found 7 Microtus montanus? and one Peromyscus m. sonoriensis in them. Five of these were saved as specimens. The runways were very small, averaging about 1 1/4 in. across. The specimens are small for montanus and it may be they are nanus, though the dark coloration seems to point toward montanus. However, the hind foot

several ground squirrels of the white group, but were unsuccessful, in our attempts to take specimens. At this locality I killed a ♂ Gambel Warbler and heard several Opata. From this place on north to Jack Creek (25 mi. N of like by road) we saw ground squirrels. At Jack Creek, a ranch house and gas station, we took three ground squirrels and two ♂♂ Red-wing Blackbirds. Jack Creek is one of those

(p. 122)

little desert valleys that is fed by spring and a small creek. As is usual with such places, much of the area was swampy and given over to sheep grazing. Cottonwood trees are growing there and Yellow Warblers, Robins, Brewer Blackbirds, and Arizona Kingbirds were noted. We left Jack Creek and drove to the above locality, reaching here about 2:30 P.M. The road is very rough and rocky just a few hundred yards below camp and as we were driving slowly, we noticed a Marmot cross the road and head for a rock slide. We stopped the car, jumped out, and Marmots seemed to be everywhere. We killed three, and as the place looked likely for Microtus and birds, we decided to camp along the small creek that arises in talus debris at the foot of a rugged, rocky mountain to our east about  $\frac{1}{2}$  mile. The elevation at this camp I should judge to be not over 4000 feet. The surrounding country is typical sage land save for

(p. 123)

the long narrow meadow caused by the water from the two branches of this creek. I set out 22 mouse traps in runways in the marshy area, placing my traps about 20-30 paces. Killed 3 Redwings in the marsh. Spent the remainder of the day making up specimens.

May 27, 20 mi. s. Owyhee, Nevada

Visited my traps this A.M. and found 7 Microtus montanus and one Peromyscus m. sonoriensis in them. Five of these were saved as specimens. The runways were very small, averaging about  $1\frac{1}{4}$  in. across. The specimens are small for montanus and it may be they are nanus, though the dark coloration seems to point toward montanus. However, the hind foot

averages less than 20 mm. It might be that some of them are subadults, yet all the ♀♀ were with good sized embryos. I left my traps set during the day and took three more Microtus, two of

which were saved. There is a nest of the Swainson hawk in a cottonwood some 25 ft. high within 100 feet of our camp. Allan wounded the female and it looks as if the nest will be deserted. Four eggs are in the nest.

*attracted for*  
*swallows were*  
*heard*  
Killed a ♂ Chat this morning. Several more were heard in all directions. One was calling from a slight ridge to the north of camp about 100 yards and as the moon was full I could see well enough to shoot it. Couldn't find it, so will look again in the morning. Several Poorwills were flushed and as they "took off" they uttered a whisper-like whistle of "wheet." This call was heard several times.

Tonight the Horned Owls are hooting. From the sound of the calls there is a pair in this vicinity, and probably nested on the cliffs of the nearby Mt. Lazuli Buntings, Yellow Warblers, Black-billed Magpies, Meadowlarks,

Citellus (p. 165)

Ravens and Killdeers were heard or seen here yesterday and today, but not taken.

We hunted quite awhile for Marmots today, but found no trace of them. They seem to have vanished into thin air. Droppings are very plentiful in the rock slides near the creeks. Water seems to be a requisite for them and their tracks are common in the mud near the areas of the rock piles.

May 28, 20 mi. s. Owyhee, Nevada.

Set out 20 mouse traps in the marsh last night and had only two Microtus montanus and one Peromyscus maniculatus. Went hunting for Marmots on the rock slides but could see none. There was plenty of sign in the lower slides, but very little farther up on the mountain.

Chat and magpies are common, both nesting in this locality. Killed one male chat. There was indication that the male aids

Tree Swallows, Barn Swallows (p. 166)

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are amblyotis, yet all the 99 were with good sized em-  
pyres. I left my traps set during the day and took three  
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(p. 144)

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Tonight the Horned Owls are hooting, from the sound  
of the calls there is a pair in this vicinity, and probably  
nested on the cliffs of the nearby Mr. Lewis  
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(p. 145)

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Droppings are very plentiful in the rock slides near the  
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tracks are common in the mud near the areas of the rock  
slides.

May 28, 30 mi. s. Owyhee, Nevada.

Set out 30 mouse traps in the marsh last night and had  
only two Microtus montanus and one Peromyscus maniculatus.  
Went hunting for Marmots on the rock slides but could see  
none. There was plenty of sign in the lower slides, but  
very little farther up on the mountain.  
Chat and magpies are common, both nesting in this in-  
celity. Killed one male chat. There was indication that the  
male also

(p. 146)

(p. 166)

in incubation for the breast was bare of feathers and that peculiar fatty tissue, found in brooding females, was just beneath the skin. Saw one Lazuli Bunting ♂ and tried to collect it, but missed.

May 28, 1 mi. s. Riddle, Owyhee Co., Idaho.

Moved camp this afternoon to this locality, some 50 miles North. Collected intermittantly on the way, arriving here about 5 P.M. The territory between these two localities is almost a continuous valley, separated by a very low pass.

A couple of miles N. of our previous camp is a large ranch on the areas fed by a good sized stream. Much marsh land was present and the usual accompaniment of marsh loving birds was noted, among them Redwing, of which one was collected, a ♂, Brewer Blackbirds, Yellow Warblers, Meadowlarks,

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and Vesper Sparrows. One of these was shot, but proved to be so badly damaged that it could not be saved, even as a skeleton. Citellus oregonus were common, but they were too wary at this place to permit our taking of a specimen. This squirrel was seen regularly from this ranch to our present camp and several were collected en route, including one here just as we stopped the car.

These squirrels are most numerous around watered areas, but this commodity seems not to be essential for many of them were noted on the barren sage covered desert. Perhaps the greater abundance of herbage near watered areas tends to congregate them in such areas.

Owyhee is near the middle of the Duck Valley Indian Reservation and consists of an area given

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over to farming by the Indians. Most of the dwellings speak of destitution. The area is watered by a branch of the Owyhee River and the riparian growth affords ample "niches" for many birds. The ground squirrels were living in burrows at the sides of the road in this area, for the continual irrigation limits the areas available to them.

Tree Swallows, Barn Swallows, Cliff Swallows, Brewer and

(p. 166)

in incubation for the breast was bare of feathers and that peculiar fatty tissue, found in brooding females, was just beneath the skin. Saw one Lazuli Bunting ♀ and tried to collect it, but missed.

May 28, 1 mi. s. Middle, Owyhee Co., Idaho.

Moved camp this afternoon to this locality, some 50 miles North. Collected intermittently on the way, arriving here about 3 P.M. The territory between these two localities is almost a continuous valley, separated by a very low pass. A couple of miles N. of our previous camp is a large ranch on the area fed by a good sized stream. Much marsh land was present and the usual accompaniment of marsh loving birds was noted, among them Redwing, of which one was collected. A ♀ Brewer Blackbird, Yellow Warbler, Meadowlark,

(p. 167)

and Vesper Sparrows. One of these was shot, but proved to be so badly damaged that it could not be saved, even as a skeleton. Quilina oregonus were common, but they were too wary at this place to permit our taking of a specimen. This squirrel was seen regularly from this ranch to our present camp and several were collected en route, including one here just as we stopped the car. These squirrels are most numerous around watered areas, but this commodity seems not to be essential for many of them were noted on the barren sage covered desert. Perhaps the greater abundance of herbage near watered areas tends to concentrate them in such areas. Owyhee is near the middle of the Duck Valley Indian Reservation and consists of an area given

(p. 168)

over to farming by the Indians. Most of the dwellings speak of destruction. The area is watered by a branch of the Owyhee River and the riparian growth affords ample "niches" for many birds. The ground squirrels were living in burrows at the sides of the road in this area, for the conservation limits the areas available to them. Tree Swallows, Barn Swallows, Cliff Swallows, Brewer and



Red-wing Blackbirds, Sage Thrashers, Robins, Meadowlark, Brewer Sparrows, Horned Larks, and English Sparrows were seen. The song of Chats, Lazuli Buntings and Yellow Warblers were heard. The whole area appealed to me as one worthy of working, for the desert on both sides tends to congregate the riparian and marsh fauna into a limited area.

Just north of the Nevada

outcroppings this P. (p. 169)

-Idaho line about a miles is a large marsh several hundred acres in extent and covered with a rank growth of tules with the water about knee deep. Here hundreds of Yellow-headed Blackbirds were seen, and two, a ♂ and a ♀, were collected. A colony of Black-crowned Night Herons was flushed from their roost in the tules at the first shot, and as the flock soared over me, I brought one down with a charge of #12 shot in my 410. The specimen was saved. Several Black Terns were flying over the area, and the two ♀'s were taken. Doubtless they were nesting in the area. One Bittern was flushed and a Coot's nest, <sup>with 12 eggs in a nest</sup> anchored to tules and yet floating in the water was found. Very few Red-wings were noted, the Yellow-heads seeming to usurp the whole area.

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About two miles N. of the marsh a Burrowing Owl was seen. Tried to collect it, but the distance was too great for my 410. Killed a Brewer Sparrow at this place.

This camp is near a large wild-hay field in a shallow valley, and surrounded by sage covered slopes and hills. In many places outcroppings and ledges and cliffs of basalt are found. A small reservoir that stores water to irrigate the hay field is some 200 yards to our west. We are camped at the site of an old, nearly demolished stone house and have to haul our drinking water from the stove, a mile distant.

Several pairs of Wilson Phalaropes were noted as we crossed the creek. They were swimming and feeding in a shallow pond near the road. Three, 2 ♀'s, 1 ♂, were collected.

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May 30, 1 mi. s. Riddle, Owyhee Co., Idaho.

Yesterday was spent in making up specimens.

This P.M. Allan and I went hunting for Redwings in the

hay-field.

Handwritten text at the top of the page, appearing to be a list or index of items, possibly related to a collection or inventory.

[1911]

Main body of handwritten text, likely a detailed report or journal entry, covering the first major section of the document.

[1912]

Main body of handwritten text, continuing the report or journal entry for the second major section.

[1913]

Main body of handwritten text, covering the final section of the document.

hay-field. They were rather wild and only one ♂ was secured. Four Western Willets, one Savanna Sparrow and three Wilson Phalaropes were taken. The latter bird is doubtless nesting in that marsh, for the ♀'s had greatly enlarged ova. One gull and a small, white Tern were seen at the reservoir, the former was collected. Two grebes are on the reservoir, but so far have escaped our attempts to bag them.

Set out 40 mouse traps in the sage, and along a basalt-outcropping this P.M.. Also made 5 gopher sets near the reservoir. The burrows are so small that they have to be enlarged with a trowel before the trap can be placed,

present in nearly every rock pile, but we have been unable to see any of them. (p. 172)

After I had set my mouse traps, I found an area up the creek where gophers are working. No sets were made, however.

Vesper Sparrows are very common here, occupying the sage areas in which bunch grass is growing. Three of these were collected, and one female was noted that seemed to be very much interested in a certain area of bunch grass near which I set my trap. I failed to locate any nest, but there is doubtless one there. Rock Wrens, Brewer Sparrows, Sage Thrashers, Robins, and Yellow Warblers were seen and one ♂ of the latter collected.

Found the skull of a Marmot in the rocks on the N. side of the ravine. This ravine is now dry, but in rainy seasons carries a good sized stream.

Pygmy rabbits are rather common here, occupying the sage areas in which bunch grass is growing.

Saw several (p. 173) Took one on the 28th and another one this P.M. Have seen several. Both specimens taken were females and were heavily laden with embryos. These were 6 in number in each case and measured 60 mm. and 72 mm. respectively. The embryos seem to be nearly ready for birth and are hairless.

These rabbits seem to feed at any time of the day. Today I saw one at 1 P.M., and yesterday one at 3 P.M. Both specimens taken, however, were shot at about 4:30 P.M. Their runways and burrows are in the taller sage, but they seem to do a great deal of their feeding in the shorter, 1 1/2 ft.; denser sage, where, perhaps greater coverage is available.

Saw one ♀ sage hen and two young when I was setting my traps. One young was taken.

They were rather wild and only one ♂ was secured. Four Western Willets, one Savannah Sparrow and three Wilson Phalaropes were taken. The latter bird is doubtless nesting in that marsh, for the ♀'s had greatly enlarged ova. One gull and a small white tern were seen at the reservoir, the former was collected. Two grebes are on the reservoir, but so far have escaped our attempts to bag them.

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(p. 172)

After I had set my mouse traps, I found an area up the creek where gophers are working. No sets were made, however. Vesper Sparrows are very common here, occupying the sage areas in which bunch grass is growing. Three of these were collected, and one female was noted that seemed to be very much interested in a certain area of bunch grass near which I set my trap. I failed to locate any nest, but there is doubtless one there. Rock Wrens, Brewer Sparrows, Sage Thrashers, Robins, and Yellow Warblers were seen and one ♂ of the latter collected.

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(p. 173)

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(p. 174)

May 31, 1 mi. s. Riddle, Owyhee Co., Idaho.

Set out 40 traps yesterday evening about 30 paces apart in sage (tall) and about rocky situations. Took only 9 Peromyscus maniculatus in the sets. Left the traps out during the day and caught two Eutamias. *They are minimus. apr. 24, 1937.*

These chipmunks are larger than E. minimus, but like them are found in sage and around rocky ledges and slides. Allan has seen several of them, but so far the two I caught are all I have seen.

Marmot sign is abundant in this area, droppings being present in nearly every rock pile, but we have been unable to see any of them.

The owner of this place called today and he said there were a few coyote in this region, but that most of them had been killed off, by the poison campaigns by the B.S. He is not in favor of this method of ridding the region of predators.

Made four new sets for Thomomys up the creek about

(p. 175)

half a mile. They are scarce in this area, but there are plenty of old mounds through the sage area. They have doubtless found that habitat too dry and have moved to moist areas along the creek. All the burrows are small in diameter so that difficulty is met in setting the traps. They are inhabiting the semi-stony and grassy areas near the creek, or in patches of small sun flowers, a plant that grows in profusion in certain areas that appear to be of deeper soil.

Saw several Rock Wrens and took one specimen. Vesper Sparrows appear to be the most abundant bird in this whole area, even out numbering the common Brewer Sparrow and Brewer Blackbird. Allan has found several of their nests, most with young. I found one nest with only one newly hatched young in it. The nest was placed in a depression in the ground

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so that the rim of the nest was flush with the ground. It was at the base of a very small sage (8" high) in a rather sparsely vegetated alkali flat. The peculiar evening call of the singing male is distinctive.

Left my 40 traps out tonight.

(p. 174)

May 31, 1 mi. s. Middle, Wynne Co., Idaho.  
 Set out 40 traps yesterday evening about 30 traps apart  
 in sage (tail) and about rocky situations. Took only 9  
Peromyscus maniculatus in the sets. Left the traps out  
 during the day and caught two Peromyscus. but like them  
 these chipmunks are larger than P. maniculatus. but like them  
 are found in sage and around rocky ledges and slides. Allan  
 has seen several of them, but so far the two I caught are all  
 I have seen.  
Marmot sign is abundant in this area, droppings being  
 present in nearly every rock pile, but we have been unable to  
 see any of them.  
 The owner of this place called today and he said there  
 were a few coyotes in this region, but that most of them had  
 been killed off, by the poison campaigns by the B.S. He is  
 not in favor of this method of ridding the region of predators.  
 Made four new sets for Thomomys up the creek about

(p. 175)

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 nest was placed in a depression in the ground

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so that the rim of the nest was flush with the ground. It was  
 at the base of a very small sage (8" high) in a rather sparsely  
 vegetated alkali flat. The peculiar evening call of the sing-  
 ing male is distinctive.  
 Left my 40 traps out tonight.

June 1, 1 mi. s. Riddle, 5300 ft., Owhyee Co., Idaho.

Had only three Peromyscus in my traps; one was saved. It rained hard nearly all night and this fact <sup>may</sup> accounts for the sparsity of my catch. These mice and the Marmots and Rabbits appear to be the only small mammals in this area; of course, there are numerous colonies of ground squirrels. These latter live in loose colonies; that is, their burrows are scattered within certain areas, the intervening areas being uninhabited.

Went down in the marsh west of camp to collect a series of Redwings. They were very wild and all of them had

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to be shot on the wing. A series of 4 ♀'s and 3 ♂'s was taken. Several of their nests were found in the short swamp grass. A colony of Yellow-headed Blackbirds is inhabiting one area of the marsh, and their territory rights are observed by the Brewers and Redwings. I noticed several of the ♂ Yellowheads put a Brewer Blackbird to flight.

The Willets appear to be very much interested in a certain area of the marsh, but search failed to find a nest. The season may be early, or it may be that young are present, for both of the birds are frequently seen. There is only one pair left in the marsh now, as we collected the other two.

Several Savanna Sparrows were seen, but I could not get close enough for a shot.

Found a Green-winged Teal's nest in the tall sage about 200 feet from our camp. We have been hunting in this

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very area for Pygmy Rabbits, but had never approached the nest close enough to flush the brooding bird. The ♀ was collected along with the 7 eggs, which appear to be well incubated, and the nest down. The nest was on the ground under the drooping branches of a sage some two feet high.

Several young sage hens and the ♀ were seen near camp. We heard from the owner of the only store here that sage hens used to be here by the thousands and that hunters used to see how many they could kill in a day, then stack the birds up and leave them. He told me of one man, a manager for J.C. Penney at Mountain Home, Idaho, who came out here with a case of 12 gage shells and killed 300 birds in one day, then stacked them up and left them. Now the birds are scarce and certainly need

June 1, 1 mi. s. Middle, 2800 ft., Owyhee Co., Idaho.  
 Had only three Peromyscus in my traps; one was saved.  
 It rained hard nearly all night and this fact accounts  
 for the scarcity of my catch. These mice and the Peromyscus  
 and Rabbit appear to be the only small mammals in this  
 area; of course, there are numerous colonies of ground  
 squirrels. These latter live in loose colonies; that is,  
 their burrows are scattered within certain areas, the in-  
 tervening areas being unoccupied.  
 Went down in the marsh west of camp to collect a series  
 of Redwings. They were very wild and all of them had

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to be shot on the wing. A series of 4 ♀'s and 3 ♂'s was  
 taken. Several of their nests were found in the short swamp  
 grass. A colony of yellow-headed blackbirds is inhabiting  
 one area of the marsh, and their territory rights are observed  
 by the Brewers and Redwings. I noticed several of the  
 Yellowheads put a Brewer Blackbird to flight.  
 The Willets appear to be very much interested in a cer-  
 tain area of the marsh, but search failed to find a nest. This  
 season may be early, or it may be that young are present, for  
 both of the birds are frequently seen. There is only one pair  
 left in the marsh now, as we collected the other two.  
 Several Savannah Sparrows were seen, but I could not get  
 close enough for a shot.  
 Found a Green-winged Teal's nest in the tall sage about  
 200 feet from our camp. We have been hunting in this

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very area for Ruddy Turnstone, but had never approached the nest  
 close enough to flush the brooding bird. The ♀ was collected  
 along with the 7 eggs, which appear to be well incubated, and  
 the nest was on the ground under the drooping  
 branches of a sage some two feet high.  
 Several young sage hens and the ♀ were seen near camp.  
 We heard from the owner of the only store here that sage hens  
 used to be here by the thousands and that hunters used to see  
 how many they could kill in a day, then stack the birds up and  
 leave them. He told me of one man, a manager for J.C. Penney  
 at Mountain Home, Idaho, who came out here with a case of 12  
 sage shells and killed 300 birds in one day, then stacked them  
 up and left them. Now the birds are scarce and certainly need



protection. The farmers in

1. Killdeer (common) (p. 179)

this region are in favor of their protection, even during the open season that is allowed by law on them.

2. Wilson Phalarope (12 pairs)

3. Tern (12 pairs)

4. June 3, 1 mi. s. Riddle, 5300 ft., Owyhee Co., Idaho.

5. Green-winged Teal

6. Went hunting up Indian Creek to a place about three miles S.E. of Riddle. The stream is in a narrow canyon bordered by lava bluffs and in places small stony meadows are present. Alder, Cottonwood, Aspen, and Willow are the principal trees with currant and Rose bushes forming the soft chaparral along each side of the stream.

7. We looked at our steel sets for Marmots. One trap had been sprung, but we failed to catch anything. Hunted all the rocks for this rodent but failed to see any. There was abundant sign, both old and fresh.

8. I saw one Callospermophilus on the rocks about two

9. Sage Thrasher

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10. House Finch

11. Sage Grouse

miles up the creek. Knocked it down with a charge of #12 but it escaped into one of the many crevices in the rocks. The color resembled very much the form found in Nevada. Allan saw one on the N. side of the creek, about 1/2 mi. farther up stream.

12. Two Citellus were shot and one Eutamias. All the Citellus are very fat, especially the old ones causing a great deal of work in the preparation of a study skin.

13. Several birds were taken including Nighthawk, Fox Sparrow, Song Sparrow, Vesper Sparrow, Western Wood Pewee, Black-throated Gray Warbler, Yellow Warbler, House Finch, Brewer Sparrow. Found the nest of a West. Redtail in an Alder some 15 feet from the ground, ~~yet~~ in the top of the tree containing 3 eggs. Flushed

14. Rough-winged Sw. (p. 181)

15. Horned Owl

a Horned Owl from a thicket of Alder along the stream. Tried to collect it but failed to make a hit. A pair of ravens was present near the canyon and an old nest on the rocky cliff on the N. side indicated a nesting pair. There was nothing in the nest, and it looked like it had been used.

16. Gray Flycatcher

17. Rock Wren

18. Barn Swallow

protection. The farmers in

(p. 179)

this region are in favor of their protection, even during the open season that is allowed by law on them.

June 3, 1 mi. s. Riddle, 3300 ft., Wayne Co., Idaho.

Went hunting up Indian Creek to a place about three miles S.E. of Riddle. The stream is in a narrow canyon bordered by lava cliffs and in places small stony meadows are present. Alder, Cottonwood, Aspen, and Willow are the principal trees with currant and Rose bushes forming the soft canopy along each side of the stream.

We looked at our steel sets for Marmots. One trap had been sprung, but we failed to catch anything. Hunted all the rocks for this rodent but failed to see any. There was abundant sign, both old and fresh.

I saw one Callospermophilus on the rocks about two

(p. 180)

miles up the creek. Hunted it down with a charge of #12 but it escaped into one of the many crevices in the rocks. The color resembled very much the form found in Nevada. I saw one on the N. side of the creek, about 1/2 mi. farther up stream.

Two Hesperomys were shot and one Hesperomys. All the Hesperomys are very fat, especially the old ones causing a great deal of work in the preparation of a study skin.

Several birds were taken including Nighthawk, Fox Sparrow, Song Sparrow, Vesper Sparrow, Western Wood Pewee, Black-throated Grey Warbler, Yellow Warbler, House Finch, Brewer Sparrow. Found the nest of a West. Redtail in an Alder some 15 feet from the ground, set in the top of the tree containing 3 eggs.

(p. 181)

A Horned Owl from a thicket of Alder along the stream. Tried to collect it but failed to make a hit. A pair of ravens was present near the canyon and an old nest on the rocky cliff on the N. side indicated a nesting pair. There was nothing in the nest, and it looked like it had been used.

## List of birds taken or observed at this locality:

1. Killdeer (common)
2. Wilson Phalarope (12 pair)
3. Eared Grebe 2.
4. Bonaparte Gull 1.
5. Tern (Least?) 1.
6. Mallard (3 pair)
7. Green-winged Teal 1.
8. Cinnamon Teal 2 pr.
9. Western Willet 4 pr.
10. Brewer Blackbird (common)
11. Red-wing "
12. Yellow-headed B.B. 20 pr.
13. Savanna Sparrow nesting
14. Brewer Sparrow
15. Vesper Sparrow nesting
16. West. Meadowlark common --- (p. 182)
17. Raven 2 pr.
18. Turkey Vulture 2
19. Sage Thrasher
20. House Finch
21. Sage Grouse
22. Yellow Warbler
23. Black-throated Gray Warbler
24. McGillivray Warbler
25. Nighthawk (Pacific)
26. Poor will. (common, but not able to collect any)
27. West. Robin
28. Bullock Oriole 1 pr.
29. Black-headed Grosbeak.
30. Chat (Long-tailed)
31. Fox Sparrow
32. Song Sparrow (fallax)
33. Black Tern
34. Cliff Swallow
35. N. violet-green Swallow
36. Rough-winged Swallow
37. Horned Owl
38. Red-tailed Hawk nesting
39. Black-billed Magpie
40. Horned Lark
41. Green-tailed Towhee
42. West. Wood Pewee
43. Gray Flycatcher (*wright*)
44. Rock Wren
45. Barn Swallow

List of birds taken or observed at this locality:

1. Killdeer (common)
2. Wilson Phalarope (12 pair)
3. Hairy Grebe 2.
4. Bonaparte Gull 1.
5. Tern (Least?) 1.
6. Murrelet (3 pair)
7. Green-winged Teal 1.
8. Cinnamon Teal 2 pr.
9. Western Willet 4 pr.
10. Brewer Blackbird (common)
11. Red-wing
12. Yellow-headed B.B. 20 pr.
13. Savannah Sparrow nesting
14. Brewer Sparrow
15. Vesper Sparrow nesting
16. West. Meadowlark common
17. Raven 2 pr.
18. Turkey Vulture 2
19. Sage Thrasher
20. House Finch
21. Sage Grouse
22. Yellow Warbler
23. Black-throated Gray Warbler
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30. Chat (Long-tailed)
31. Fox Sparrow
32. Song Sparrow (fallax)
33. Black Tern
34. Cliff Swallow
35. N. violet-green Swallow
36. Rough-winged Swallow
37. Horned Owl
38. Red-tailed Hawk nesting
39. Black-billed Magpie
40. Horned Lark
41. Green-tailed Towhee
42. West. Wood Pewee
43. Gray Flycatcher (white)
44. Rock Wren
45. Barn Swallow

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June 4, 1934, Rupert, Minidoka Co., 4300 ft., Idaho.

Left Riddle yesterday about 11 A.M. and headed N. for Mountain Home, some 90 miles distant, and then turned east over the main highway to Rupert, a distance of some 230 miles. The region between Riddle and Bruneau River Valley is a high, sage-covered plateau averaging well over 5000 ft. in elevation. Most of the area is covered with lava outcropping or flows. Here the Horned Lark was very common, especially in those areas where the sage was stunted and not over a foot high. We managed to take three birds by shooting from the car.

Bruneau Valley is a broad low area given over to farming and following the course of the Bruneau River. The area is one that looks very promising for collecting. Some 20 mi. S. of the town

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of Bruneau there is an area that looks very favorable for Microdipodops. There are Microtus in the valley as was attested to by farmers who were haying. We followed a bull rake for a time, but none were seen. However, the men said that when they were shocking the hay the mice were seen regularly. This place is the first place at which we saw Jack Rabbits since leaving Nevada. They seem not to be in the Riddle country.

Five miles N. of Bruneau near the Snake River I killed a young Antelope Ground Squirrel. This, to my knowledge, is the first specimen listed for the State.

5 miles south of Mountain Home we found the Citellus to be very abundant. They were living in burrows at the sides of the roads,

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and in colonies in the sparsely sage-covered areas. Hundreds of them were seen, most of them being young of the year. Six specimens were taken, two of which are good adults. These squirrels are certainly of a different race from those found at Riddle. The hind foot averages considerably shorter and the color appears to be much grayer.

About 5 mi. E. of Glenis Ferry we saw our first Marmota caligata, a big black and brown-colored fellow. We tried to get a shot at it, but failed. The same thing happened 3 mi. W. of Bliss where we saw two of them. These Rockchucks were

*flaviventris*,

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June 4, 1934, Rupert, Minidoka Co., Idaho.

Left Riddle yesterday about 11 A.M. and headed N. for Mountain Home, some 90 miles distant, and then turned east over the main highway to Rupert, a distance of some 230 miles. The region between Riddle and Brunson River Valley is a high, sage-covered plateau averaging well over 8000 ft. in elevation. Most of the area is covered with lava outcroppings or flows. Here the Horned Lark was very common, especially in those areas where the sage was stunted and not over a foot high. We managed to take three birds by shooting from the car. Brunson Valley is a broad low area given over to farming and following the course of the Brunson River. The area is one that looks very promising for collecting. Some 20 mi. S.

of the town

(p. 184)

of Brunson there is an area that looks very favorable for Microtus. There are Microtus in the valley as was attested by farmers who were haying. We followed a bull rake for a time, but none were seen. However, the men said that when they were shocking the hay the mice were seen regularly. This place is the first place at which we saw Jack Rabbits since leaving Nevada. They seem not to be in the Riddle country.

Five miles N. of Brunson near the Snake River I killed a young Antelope Ground Squirrel. This, to my knowledge, is the first specimen listed for the State.

5 miles south of Mountain Home we found the Onychomys to be very abundant. They were living in burrows at the sides of the roads.

(p. 185)

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About 5 mi. N. of Giant's Ferry we saw our first Harmata californica, a big black and brown-colored fellow. We tried to get a shot at it, but failed. The same thing happened 3 mi. W. of Bliss where we saw two of them. These Harmata were

living out in the desert near the lava out-croppings in which they had their dens. Sign was fresh, and if time had permitted, I am sure

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we could have trapped them with steel sets.

We spent most of today making up specimens. This P.M. about 6, we drove four miles N. of town to the Rim Rock and killed four Jack Rabbits. I set out 32 traps in a sandy sage-covered area about four miles N. of Rupert. There appeared to be some sign of Dipodomys, and tracks were seen that resemble very much those of the Ket Fox, but the proximity to habitations lead me to doubt that they were Fox.

I enquired of a farmer where one could find Thomomys and received the reply that he knew of none on the whole project, and was positive there was none on his ranch. This, if true, is a peculiar fact, indeed.

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June 5, Rupert, 4300 ft., Minidoka Co., Idaho.

Visited my traps this A.M. at 7 and found 1 Citellus, 1. Eutamias, 3 Peromyscus maniculatus (one saved, the others had their heads eaten off), 1 Perognathus parvus and 2 Dipodomys. The Citellus was still alive and gasping for air since the trap was not strong enough to break its neck. The area trapped was about a half mile square in the midst of alfalfa fields and probably represents a remnant of a much larger similar area.

In the afternoon Allan, Frank Dunn, and I drove out to the McKenzie Drain, 5 miles south of Rupert to hunt for Redwings, and Song Sparrows. One song sparrow was seen and collected at this place, but no Redwings were seen. Hunting was so poor, due to the lack of proper riparian growth, that we drove one mile east and crossed the Snake River via the Donner Bridge and hunted just south of the river.

Areas that in former times

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were marshy and had plenty of water are now dry or nearly so because of water shortage. The past winter was so mild and so little snow fell in the mountains that a severe shortage of water has resulted. Farmers in this area have been allotted only 60% of the normal amount of water necessary for

living out in the desert near the lava out-croppings in which they had their dens. Sign was fresh, and if time had permitted I am sure

(p. 188)

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June 8, Hubert, 4300 ft., Minidoka Co., Idaho.

Visited my traps this A.M. at 7 and found 1 Citellus, 1 Battus, 3 Peromyscus maniculatus (one saved, the others had their heads eaten off), 1 Perognathus garyi and 2 Dipodomys. The Citellus was still alive and gasping for air since the trap was not strong enough to break its neck. The area trapped was about a half mile square in the midst of alfalfa fields and probably represents a remnant of a much larger similar area.

In the afternoon Allan, Frank Dunn, and I drove out to the McKenzie Drain, 5 miles south of Hubert to hunt for Red-wings, and Song Sparrows. One song sparrow was seen and collected at this place, but no Redwings were seen. Hunting was so poor, due to the lack of proper riparian growth, that we drove one mile east and crossed the Snake River via the Donner Bridge and hunted just south of the river. Areas that in former times

(p. 186)

were marshy and had plenty of water are now dry or nearly so because of water shortage. The past winter was so mild and so little snow fell in the mountains that a severe shortage of water has resulted. Farmers in this area have been allotted only 60% of the normal amount of water necessary for



irrigation. No redwings were found in these semi-marshy areas, but a small colony of Yellow-headed Blackbirds was found and one female taken. One song sparrow was seen and taken and one Avocet was taken from a group of three pairs. A pair of Red-head ducks and three pair of Mallards and one of Cinnamon Teal were flushed from a small, muddy pond in the midst of cat-tails.

Ground Squirrels were fairly common along the bank of the river and in nearby fields. Three were taken by shooting them. They proved to

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be young of the year and are quite distinct from those squirrels found on the north side of the river. The squirrels on the south side of the river are very similar to those collected at Riddle in Owyhee County, while those taken on the north side of the river resemble the ones we collected near Mountain Home, also on the north side of Snake River. From the point of view of the mammals, this river must be the boundary that separates races and species. It would be very interesting to find out just what effect this river has on the speciation and isolation of mammals in southern Idaho.

The area on the north side of the river is very sandy, but is nearly all under cultivation. On the south side the soil is a heavy clay and partly under cultivation. The typical riparian growth along the river itself consists of willows and wild roses.

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In the evening Allan and I drove to Acequia, some 5 mi. north-east of Rupert and set out 50 mouse traps in sandy, sage-covered areas. Numerous small burrows were noted in the sand which looked like they might belong to ground squirrels. The traps were set in two areas about 1/2 miles apart, but in similar areas. One, to the south of the railroad tracks, was more heavily covered with sage, and looked to be a likely place for Peromyscus.

Lepus californicus were very numerous in the last area and Allan killed 6 of them. Skulls only were saved.

June 6, Rupert, 4300 ft., Minidoka Co., Idaho.

Visited the traps this A.M. with Allan and Ray Ennis. Dipodomys ordii was all I caught, and only eight of these.

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Ground Squirrels were fairly common along the bank of the river and in nearby fields. Three were taken by shooting them. They proved to

(p. 189)

be young of the year and are quite distinct from those squirrels found on the north side of the river. The squirrels on the south side of the river are very similar to those collected at Middle in Wayne County, while those taken on the north side of the river resemble the ones we collected near Mountain Home, also on the north side of Snake River. From the point of view of the mammals, this river must be the boundary that separates races and species. It would be very interesting to find out just what effect this river has on the speciation and isolation of mammals in southern Idaho.

The area on the north side of the river is very sandy, but is nearly all under cultivation. On the south side the soil is a heavy clay and partly under cultivation. The typical riparian growth along the river itself consists of willows and wild roses.

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In the evening Allan and I drove to Aspen, some 5 mi. north-east of Rupert and set out 50 mouse traps in sandy, sage-covered areas. Numerous small burrows were noted in the sand which looked like they might belong to ground squirrels. The traps were set in two areas about 1/2 mile apart, but in similar areas. One, to the south of the railroad tracks, was more heavily covered with sage, and looked to be a likely place for Peromyscus.

Lepus californicus were very numerous in the last area and Allan killed 6 of them. Skulls only were saved.

June 6, Rupert, 4300 ft., Minidoka Co., Idaho.

Visited the traps this A.M. with Allan and Ray Smith. Thomomys ovatus was all I caught, and only eight of these.

The absence of Peromyscus maniculatus puzzles me. Perhaps they are in a different type of habitat

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than they occupy in Nevada. So far I have taken only one adult Peromyscus in this region. The color appears to be darker than is the case of those mice taken at Riddle. Again it may be due to a difference in genetic makeup due to isolation caused by the Snake River.

In the afternoon Allan and I moved camp to Leo Davis's ranch, 2 miles east of Acequia. He is an uncle of mine and has done considerable trapping around Acequia and the Minidoka Dam. Marmots were supposed to be common and tame in the rocks near his ranch and was the main drawing card for the move.

To go back to this morning. On the way back from looking at our traps, a Citellus mollis was shot at Acequia, and one near the cemetery north of Rupert 4 miles. We drove back to Rupert in a round about way, going north to the desert

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and then driving west over one of the numerous old desert roads in hopes of getting a Pygmy Rabbit. One was seen, but disappeared down a burrow. Hundreds of Black-tailed Jack Rabbits were seen and several collected near the cemetery. Skulls only were saved.

June 10, Rupert, 4300 ft., Minidoka Co., Idaho.

Spent two days and a half at Leo Davis's ranch collecting Marmots were numerous, but certainly not tame. We hunted the afternoon of the 6th, 7th, and 8th and in all got 5 adults and one young. Another adult was given me by two young girls who had killed it with clubs near their alfalfa field. The marmots were inhabiting rock piles that had been made during the excavation of the North Side Canal. These rocks were large, of volcanic origin, and were piled in such a manner that numerous suitable dens were available.

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Skunks, weasels and Cotton-tails also made use of these same rock piles. We killed and saved several of the cotton-tails

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(p. 191)

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In the afternoon Allan and I moved camp to Leo Davis's ranch, 2 miles east of Acaquila. He is an uncle of mine and has done considerable trapping around Acaquila and the Mini-doka Dam. Marmots were supposed to be common and taken in the rocks near his ranch and was the main drawing card for the move.

To go back to this morning. On the way back from looking at our traps, a Citellus mollis was shot at Acaquila, and one near the cemetery north of Rupert 4 miles. We drove back to Rupert in a round about way, going north to the desert

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and then driving west over one of the numerous old desert roads in hopes of getting a Pyrrhuloxia. One was seen, but disappeared down a burrow. Hundreds of black-tailed Jack Rabbits were seen and several collected near the cemetery. Skiffs only were saved.

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Skunks, weasels and Coon-tails also made use of these same rock piles. We killed and saved several of the coon-tails

and had 5 steel sets out for two nights for skunks and weasels, but failed to get any. However, last winter Leo took several skunks in traps. A skull of one of these skunks was taken from a skinned carcass and saved. On the 8th Leo wounded a weasel, but it got into the rocks and escaped. They are fairly common in that area for George Sullivan, a rancher, some 2 miles S of where we were, killed a weasel that was in his chicken pen. He used a 12 gage shotgun and mutilated the animal so badly that it could not be saved as a specimen. The neighbors adjoining Leo on the north also killed a weasel, but used a club. When I saw it, the skull was smashed to bits and the fur slipping from the much decayed body. It could not be saved.

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The Marmots taken were very fat. At least 3 hours were required in the preparation of one specimen. One quart of fat was taken from one adult. Natives in that region said that oil from Marmot fat made the best leather oil obtainable. I'm going to try it.

Although these Marmots were living in the near vicinity of water, I am beginning to doubt that water is one of their necessities. These animals were seen in the desert near Bliss several miles from water. They are also reported from the desert near Minidoka; again several miles from water.

Allan had the index finger of his right hand bitten nearly through by a wounded Marmot that he was trying to kill. They are a hardy animal and require 22 long rifle a bigger gun to kill them. As it was only 1 of the five taken was killed outright by the bullet, the others being merely tear up and

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the other being merely wounded and captured as they were attempting to seek escape in the rocks. Several marmots and escaped us by getting into the rocks before we could reach them.

These marmots, I believe, are a different species from those taken near White Rock, south of Owyhee, and from the one seen near Riddle.

Five Thomomys were taken in Leo's Alfalfa field. The soil there was very sandy and as a result of the ease in digging, the burrows were quite large in diameter for the size of the gopher. All those taken were females, and try as I

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Five Thomomys were taken in Leo's Alfalfa field. The soil there was very sandy and as a result of the ease in digging, the burrows were quite large in diameter for the size of the gopher. All those taken were females, and try as I

could, no males were secured. His ranch is the first place I have found gophers on the project. Now the question arises, How are the T. townsendii of the Pocatello region and the Nampa region connected? Do they follow the Snake River?

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If so, where and how do they cross the river? Are those at Pocatello like the Nevada form or like the Nampa form? On the face of it, it seems more likely they are like the Nevada race, for certainly the Snake River is a barrier to gophers.

Microtus were found in Leo's hay field. No traps were set because no good runways could be found, yet, during the haying, three of these mice were killed by Leo. His method of stepping on them was a bit drastic for they were all three badly smashed. However, two skins and one skull only were saved. These mice are reported as being very common on the project here and doubtless a good series could be taken if one followed the haying operations.

A small series of Red-wing Blackbirds was taken at Leo's ranch. They were feeding fledglings and were in company with Brewer Blackbirds in his

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alfalfa field. Arkansas Kingbirds, Yellow Warblers, House Finches, and English Sparrows were the other common birds on his ranch.

No trapping for small mammals was done during our stay at the ranch for it rained hard every evening, night and forenoon we were there. Every afternoon it would clear up and we would go hunting.

The territory near Leo's ranch is very sandy and covered in most places by a heavy growth of sage brush. From his place one can see the sage-covered desert stretching for miles to the north. No trees of any sort grow wild in the region and the introduced Poplars offer the only suitable niches for many of the birds. Yellow Warblers were nesting in the trees about the ranch house. Along the canal some willows are found growing in or near seepage ponds.

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Otherwise the only shrub growing is the sage.

We drove back to Rupert the evening of the 8th.

could, no males were secured. His ranch is the first place I have found gophers on the project. How the question arises, How are the T. townsendii of the Poocastle region and the Nampa region connected? Do they follow the Snake River?

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if so, where and how do they cross the river? Are those at Poocastle like the Nevada form or like the Nampa form? On the face of it, it seems more likely they are like the Nevada race, for certainly the Snake River is a barrier to gophers. Mice were found in Leo's hay field. No traps were set because no good runways could be found, yet, during the haying, three of these mice were killed by Leo. His method of stepping on them was a bit drastic for they were all three badly smashed. However, two skins and one skull only were saved. These mice are reported as being very common on the project here and doubtless a good series could be taken if one followed the haying operations. A small series of Red-wing Blackbirds was taken at Leo's ranch. They were feeding fledglings and were in company with Brewer Blackbirds in his

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alfalfa field. Arkansas Kingbirds, Yellow Warblers, House Finches, and English Sparrows were the other common birds on his ranch. No trapping for small mammals was done during our stay at the ranch for it rained hard every evening, night and forenoon we were there. Every afternoon it would clear up and we would go hunting. The territory near Leo's ranch is very sandy and covered in most places by a heavy growth of sage brush. From his place one can see the sage-covered desert stretching for miles to the north. No trees of any sort grow wild in the region and the introduced Poplars offer the only available niches for many of the birds. Yellow Warblers were nesting in the trees about the ranch house. Along the canal some willows are found growing in or near seepage ponds.

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Otherwise the only shrub growing is the sage. We drove back to Rupert the evening of the 6th.



Allan had a message from home telling of the death of his father, so left on the early morning stage yesterday.

I spent all day yesterday in making up specimens and in packing two boxes of skins for shipment to Berkeley.

Today is Sunday, so I took part of the day off and visited with my folks. In the evening Dad, Ray Ennis, George Lutz, and I drove out to a rabbit drive 4 1/2 miles NW of Paul. About 1000 rabbits were killed in two drives. I looked over the dead and dying rabbits and found 14 adult skulls that had evaded the blows of clubs and collected these. Females seemed to outnumber the males 2 to 1. Fully 80% of the rabbits killed were young of the year. The bodies were hauled away to be ground up for chicken feed.

June 12, Rupert, 4300 ft., Minidoka Co., Idaho.  
(p. 199)

Started for Elba, Cassia Co., yesterday and broke a rear axle on the car when 4 mi. SE of Albion. Phoned Dad at Rupert and he came over and towed me back.

While waiting for Dad I hunted for Ground Squirrels which were numerous in that area and succeeded in taking 9 good adult specimens. There seems to be two species of Citellus living in that area. Both are of the same general color, but one has the under surface of the tail reddish bordered by a white band while on the other, the under surface of the tail is grey and lacks any suggestion of reddish. The hind foot of the ones with the greyish tail averaged 46 mm., while those with the reddish tail averaged 42 or 43. Beyond these two pronounced differences, they all resemble one another. Whether the ones with the grey tail live in

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separate colonies on the 40 acres area in which I hunted, I do not know, for I never noticed the difference in the specimens until I got back here yesterday evening.

I talked with a member of the Albion Fish and Game Club yesterday and learned some very interesting information. The chairman of the state Fish and Game Commission, a Mr. Barrett, lives in Albion and has taken an active part in restocking the state with fish and game. At Albion this past spring, a bounty was offered on Black-billed Magpies and their eggs. One cent each for the eggs and two cents each for the birds. I was told that \$20 had been paid out on eggs alone in that small community.

Allen had a message from home telling of the death of his father, so left on the early morning stage yesterday. I spent all day yesterday in making up specimens and in packing two boxes of skins for shipment to Berkeley. Today is Sunday, so I took part of the day off and visited with my folks. In the evening Dad, Ray Harris, George Lutz, and I drove out to a rabbit drive  $4\frac{1}{2}$  miles NW of Paul. About 1000 rabbits were killed in two drives. I looked over the dead and dying rabbits and found 14 adult skulls that had evaded the blows of clubs and collected these. Females seemed to outnumber the males 2 to 1. Fully 80% of the rabbits killed were young of the year. The bodies were hauled away to be ground up for chicken feed.

June 12, Rupert, 4300 ft., Minidoka Co., Idaho. (p. 192)

Started for Ribs, Cassia Co., yesterday and broke a rear axle on the car when 4 mi. SE of Albion. Phoned Dad at Rupert and he came over and towed me back. While waiting for Dad I hunted for Ground Squirrels which were numerous in that area and succeeded in taking 2 good adult specimens. There seems to be two species of Citellus living in that area. Both are of the same general color, but one has the under surface of the tail reddish bordered by a white band while on the other, the under surface of the tail is grey and lacks any suggestion of reddish. The hind foot of the ones with the greyish tail averaged 42 or 43. Beyond these two pronounced differences, they all resemble one another. Whether the ones with the grey tail live in

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Even so, the Magpies seemed not to have suffered for they were very numerous. Poison had been distributed for

(p. 201)

Magpies and Ground Squirrels this past spring and hundreds were reported as having been killed. The effect on the population of the two animals apparently was not much. On the small area in which I hunted squirrels, there were fully a hundred animals (Squirrels), most of them young of the year. Perhaps their method of poisoning is at fault.

At this same locality, i.e., 4 mi. SE of Albion, I saw the following birds. (No especial effort was made to find out how many species were present.) Black-billed Magpie, Yellow Warbler, Brewer Blackbird, Chat, Black-headed Grosbeak, Vesper Sparrow, English Sparrow, Killdeer.

On the way to Albion I stopped two miles south of Rupert and attempted to collect a lone White-faced Glassy Ibis that was feeding in

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company with two pair of Cinnamon Teal in a small pond in a barn yard. The bird flew before I got in range. At this same pond I saw a Spotted Sandpiper and Several Killdeers.

I spent the whole day today in making up the nine specimens of Citellus. They were very fat and required gasoline to cleanse the pelage after the skinning operation was completed.

So far on this trip there have been only two days when no rain fell. Again tonight it looks like more rain is in store. Since this is one of the driest years in the history of the project, rain is welcomed by the people.

June 16, Elba, Cassia Co., Idaho.

Drove over here June 14, arriving about 2 P.M. June 13, I

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borrowed Dwight Disney's Ford and drove out to the Remsberg ranch about 3 1/2 mi. ENE of Rupert. The ranch, like many others on the project is planted mainly to alfalfa, wheat and clover. Microtus were reported by John Remsberg as being present in his fields. I failed to find any during the short time I stayed there

Even so, the Magpies seemed not to have suffered for they were very numerous. Poison had been distributed for

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At this same locality, i.e., 4 mi. SE of Aldon, I saw the following birds. (No special effort was made to find out how many species were present.) Black-billed Magpie, Yellow Warbler, Brewer Blackbird, Great Black-headed Grosbeak, vesper Sparrow, English Sparrow, Killdeer. On the way to Aldon I stopped two miles south of Rupert and attempted to collect a lone White-faced Glassy Ibis that was feeding in

(p. 202)

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June 16, Elbe, Cassia Co., Idaho.

Drove over here June 14, arriving about 3 P.M. June 18, I

(p. 203)

borrowed Dwight Disney's Ford and drove out to the Hemshery ranch about 3 1/2 mi. ENE of Rupert. The ranch, like many others on the project is planted mainly to alfalfa, wheat and clover. Mice were reported by John Hemshery as being present in his fields. I failed to find any during the short time I stayed there.

Collected two Savannah Sparrows, Horned Larks, Eastern Kingbird, Arkansas Kingbird were common as were the more common other birds. John said weasel and skunk were frequently killed on his ranch. Ate dinner here and then drove out to the river about 4 mi. E of Rupert at a place we used to call "Little Sloughs".

This place is on the bank of the Snake River and consists of a small slough of water with a few cat tails. Most of the area is given over to pasture land and all green vegetation is kept closely

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cropped so that very little cover is now left for the marsh loving birds.

One pair of White-faced Glassy Ibis, two Avocets, three pair of Cinnamon Teal, one Coot, as small colony of Redwings, and one of Yellowheads, two Meadowlarks, Yellow Warblers, Magnies, and Black-headed Gr<sup>o</sup>sb<sup>e</sup>aks were the birds observed near the slough. Along the river bank the Bank Swallows were abundant. Several terns of a size larger than Fo<sup>o</sup>sters, and with black-tipped primaries were flying over the river or resting on a shoal in the water. A flycatcher was collected at the NE end of the slough on the golf course.

June 14, Elba, Cassia Co., Idaho.

Elba is a small ranching community boasting one store, a school, a church, and post-office, on Cassia Creek some 34 miles south of Rupert. The valley through which the creek runs is only 3 or 4 miles

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wide, heading on Mount Independence and extending in an easterly direction to the Raft River Valley. Both sides of the valley are hemmed in by mountains that are mostly bare save for sage and juniper. Mount Independence boasts a small forest that can be seen from the town and at present is partly covered with snow. Five lakes are reported as being situated near the top of the mountain.

Cassia Creek flows thru the center of the valley and is bordered immediately by a rank growth of willows, cottonwoods, and roses, beyond this riparian growth meadows dotted with springs, extend for some distance. Most of the meadowland is

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This place is on the bank of the Snake River and consists of a small slough of water with a few cat tails. Most of the area is given over to pasture land and all green vegetation is kept closely

(p. 264)

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One pair of White-faced Glassy Ibis, two Avocets, three pair of Gimmewing Teal, one Gull, as small colony of Redwings, and one of Yellowheads, two Meadowlarks, Yellow Warblers, Mac-pige, and Black-headed Grosbeaks were the birds observed near the slough. Along the river bank the Park Swallows were abundant. Several terns of a size larger than Foxgloves, and with black-tipped primaries were flying over the river or resting on a shoal in the water. A Flycatcher was collected at the NE end of the slough on the golf course.

June 14, Riba, Cassia Co., Idaho.

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(p. 265)

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Cassia Creek flows thru the center of the valley and is bordered immediately by a rank growth of willows, cottonwoods, and roses, beyond this riparian growth meadows dotted with springs, extend for some distance. Most of the meadowland is

given over to grazing and to the raising of wild hay.

I am staying at the Wickle Ranch, my aunt's place, some 1/4 mile NE of the store.

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Between the house and the creek there is a large marshy area given over to grazing. In many places the water arises from permanent springs in which water cress is growing. In these scattered clumps of cress the Microtus are found. The rest of the area is too closely grazed to permit the growth of necessary cover. In this same marsh Wilson Snipe are breeding, at least three pair being present. The males can be heard every evening and most of the night uttering their peculiar "burring" sound. This, I believe, is caused by the tail feathers for I notice the sound is made only when the bird is banking in flight.

Killdeers are numerous, and one pair of Wilson Phalarope was seen. The ♂ was collected.

Night hawks and a few bats have been observed flying over this same area. "Mel", my uncle, saw several bats

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along the creek last night when he was fishing. So far I have seen only three bats and have failed to collect any. Three Nighthawks, 2 ♂♂ and 1 ♀ were taken yesterday evening. The ♀ lacks the white band on the tail. The size of the ova indicated that breeding is not far distant. There is a peculiar "comb" on the large toe of these birds which, I suppose, is of some aid in preening. This structure may have been developed to partly replace the lack of a highly developed beak.

The day I arrived "Mel" had a weasel up a tree in the front yard and tried to kill it with rocks. It has not been seen since. Striped Skunk have been seen lately. One ♀ and 6 young were seen by "Mel's" father near the creek about 6 days ago. The dog killed one of the young. So the story goes, the female

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disappeared in a willow clump when the horse and rider appeared. The young, however, followed the horse, in single file, for some distance. When the dog rushed in and grabbed one of the young, snapping its back and tossing it into the air, it (the

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young, snapping its back and tossing it into the air, it (the



dog) was sprayed and didn't molest the rest of them. They, then, turned tail and, with tails over their backs and in single file, disappeared in the willows.

Muskrats are reported as being common. I have had out three sets for them, but so far have failed to make a catch. Shall set some more traps along the creek. The three sets are in a deep, narrow gully in the hay field where "Mel" has taken them in winter. I saw no recent sign, but did find one burrow. Since these animals have lots of territory in which to move, it may be they are

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no longer in that particular territory.

Yesterday I took a walk about the 320 acre ranch. I saw several quail, probably California Quail, since these have been introduced at various times. Saw a pair of Chinese Pheasants and two large Sage Hens.

Bobolinks are common in the hay field here. The males have a peculiar habit of bunching like blackbirds, and when not disturbed use the taller clumps of grass as perches. The song was frequently given on the wing and when perched on the top of some willow or rose bush. Only one of the grayish-yellow females was seen -- and collected. The condition of the breast indicated the ♀ does most, if not all of the incubation and brooding. The ovaries were small ○, but yet I saw two males chasing

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this one ♀. This, it would seem, might indicate a second breeding for I feel quite sure they have nested once this season.

Redwing and Brewer Blackbirds are very common, the Redwings predominating. Black-billed Magpies are present; and fledglings are afield now.

September 15, Rupert, Minidoka Co., Idaho.

My father's death, Sept. 11, called me back to Idaho. Entered Idaho via Wells, Nevada on Highway #93. Sept. 13, kept a careful watch for ground squirrels but failed, to see a single one. Many burrows were in evidence, but no squirrels. Inquiry revealed that they had been last seen about two weeks previous.

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At the Idaho-Nevada Line, and from there north for a distance of about 10 miles Eutamias minimus were

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quite common along the highway where they were feeding on the Russian Thistle that lined the highway on each side. Two Chipmunks were observed sitting in the thistles pulling off the seeds; many others were observed scampering away from the thistles and into the sage. The preferable habitat for this chipmunk appears to be in the vicinity of lava out-cropping in areas where there is plenty of Artemesia that is not too high.

This whole area, at least along the highway, is one of hills and valleys, everywhere covered with sage -- even to the top of the highest hills in sight, -- and at frequent intervals dotted with lava out-croppings.

After a distance of 10 miles north of the line, the basalt is lacking, to a great extent, along the highway, but farther to the east and to the west it is still discernible. Perhaps this explains the apparent lack of

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Eutamias beyond this 10 mile limit along the highway.

Occasionally Chipmunks were taken on sandy, sage-covered areas, but usually, and by far the greatest number, they were found in rocky-sage areas.

At one mile north of the Nevada-Idaho Line I hunted for a time 7:00 -- 8:45 A.M. while Mr's. Davis was preparing breakfast. Two Eutamias minimus were taken, and from this point north to the 10 mile limit, I took 10 specimens, many immature; 6 ♂, 4 ♀. These I skinned out yesterday and preserved the skins in 30% alcohol; later to be made into study skins.

At one mile N of the line I saw an immature Sylvilagus idahoensis at very close range; in fact, so close that I could not shoot it, without literally blowing it to pieces. Time: 8:45 A.M. It was abroad and had been foraging. When it saw me it retreated to its burrow where

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it sat up, assuming a pose much like that of a Picket-pin ground squirrel. The front feet were folded over the belly.

At the Idaho-Nevada line, and from there north for a distance of about 10 miles Peromyscus maniculatus were

(p. 211)

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(p. 213)

it sat up, assuming a pose much like that of a pocket-gopher squirrel. The front feet were folded over the belly.

The brown neck patch and very short ears were quite prominent. I backed off to take a shot and as I got ready, the rabbit fled into its burrow.

Several burrow entrances were grouped close together, each averaging about 5" in diameter. Contrary to the common belief, these burrows had no partly depressed surface runways leading to them. They were merely dug at a slight angle and the runway dispensed with. The sage in this particular area was not over 2 1/2' high and not very dense.

The following birds were also noted at this place: Rock Wren, Horned Lark, Sage Thrasher, Raven and Black-billed Magpie.

Since these Chipmunks, as above noted, were feeding on

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Russian Thistle, and since the cheek pouches in many of those taken contained the seeds of this weed, it is possible that these Rodents play a role in the dispersal and propagation of this much despised weed. Again, the fact that they must consume large quantities of the seeds may indicate their usefulness in checking the spread of this plant.

September 18, Rupert, Minidoka Co., Idaho.

Yesterday I spent the day along Snake River south and east of Rupert. The following birds were noted.

1. Song Sparrow
2. Western Willet
3. Caspian Tern
4. California Gull
5. Forster Tern
6. Many ducks
7. White Pelican (3)

No mammals were observed other than the Jack Rabbit.

(p. 217)

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No mammals were observed other than the Jack Rabbit.

(p. 215)

October 28, 1934, S.F. Bay, Berkeley, California.

Hunted along the shore just south of the Berkeley dump grounds. Heavy on shore wind; cloudy. Eared Grebe. -- Took one ♀. She was riding the waves about 15 ft. from the bank. Often the breakers broke over her, entirely submerging the bird, yet she appeared at ease. No attempt was made to dive into the breakers. If the waves were not too high, she rode the crest, if they were breaking, she was submerged. The iris was orange with a faint circle of light yellow bordering the pupil. The feet were black underneath, as were the outsides of the tarsus; the top of the feet and inside of tarsus were bluish. This bird is #840. Phalaropes? Several were noted. Looked like Wilson.

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June 28, 1934, Fishing Bridge, Yellowstone N. P.

Yesterday A.M. was spent in the laboratory at Mammoth in making parasitological slides from specimens taken from Salmo lewisi and Larus californicus. In the P. M. I was moved to this locality for the purpose of collecting pelicans, mergansers and Osprey parasites.

This morning I borrowed a boat and went down the Yellowstone River perhaps a mile and a half and collected two pelicans and one California Gull. All three were examined for parasites and those found preserved in 10% formalin.

The weather, for a change, was ideal. Slight down-river breeze.

#### White Pelican

About 100 individuals were noted this morning. ~~They were noted this morning.~~ They were in flocks of from 10 - 30, some feeding, others merely resting in shallow water or on exposed sand bars. In shallow water where the current is slight, the pelicans feed by swimming in any direction, submerging the

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head and neck and scooping up the fish. In a strong current, however, the bird drifts with the current, or swims, but always with the current. Feeding is accomplished similarly. When the

(p. 215)

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About 100 individuals were noted this morning. They were seen this morning. They were in flocks of from 10 - 30, some feeding, others merely resting in shallow water or on exposed sand bars. In shallow water where the current is slight, the pelicans feed by swimming in any direction, submerging the

(p. 217)

head and neck and scooping up the fish. In a strong current, however, the bird drifts with the current, or swims, but always with the current. Feeding is accomplished similarly. When the



bird has drifted a sufficient distance, it flies up stream to about the position it was previously and the floating process begins anew.

The bed of the river in places where pelicans were noted feeding is a series of shallows and deeper holes. In these holes numerous trout were observed, and it is doubtless in such areas of great abundance of fish that most of the feeding is done.

The pelican experiences some difficulty in taking off from the water. This is accomplished by a spring into the air and for some distance both feet are vigorously kicked backward in the water, with toes outstretched to give greater resistance to the water, at each beat of the wings. When

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sufficient momentum and altitude have been reached, the feet are drawn up. This process of taking off is one of interest to watch.

These birds are wary, even here in the park, so that a great deal of stalking and lying-in-wait were necessary to secure the two specimens.

By 9 A.M. most of the birds had finished their morning fishing and were idling away the time on the sand bars. I believe that feeding, or most of it, is done in the early morning, 5 to 7 or thereabouts, and again in the evening.

One large ♂ taken had eaten a Salmo lewisi that measured 16 " in length. Digestion had partly taken place. Several flat worms that doubtless came from the coelom of the fish were found in the stomach of this bird. These appeared to be dead and partly digested, though the latter is doubtful. These were saved. Several nematodes

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were found in the stomachs of both pelicans. Cestodes were present, in the duodenum only, in both pelicans.

An interesting surprise was the finding in the pouch of each of these birds a cluster of lice clinging to the membrane. These were preserved, some still attached to a portion of the membrane. Apparently water has very little effect on these arachnids.

In flight the pelican assumes a rather rigid pose, the head being pressed back against the dorsal part of the body and the neck crooked. The birds usually followed one another in single file and the "swish", "swish", "swish" could be heard w

bird has drifted a sufficient distance, it flies up stream to about the position it was previously and the floating process begins anew.

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By 9 A.M. most of the birds had finished their morning fishing and were idling away the time on the sand bars. I believe that feeding, or most of it, is done in the early morning, 5 to 7 or thereabouts, and again in the evening.

One large ♂ taken had eaten a Salmo leucis that measured 12 " in length. Digestion had partly taken place. Several flat worms that doubtless came from the coelom of the fish were found in the stomach of this bird. These appeared to be dead and partly digested, though the latter is doubtful. These were saved. Several gammarids

(p. 219)

were found in the stomachs of both pelicans. Gammarids were present, in the duodenum only, in both pelicans.

An interesting surprise was the finding in the pouch of each of these birds a cluster of lice clinging to the membrane. These were preserved, some still attached to a portion of the membrane. Apparently water has very little effect on these

lice.

In flight the pelican assumes a rather rigid pose, the head being pressed back against the dorsal part of the body and the neck crooked. The birds usually followed one another in single file and the "swish", "swish", "swish" could be heard

with each measured , deliberate wing stroke.

One bird that was shot through the heart left the water and flew some 50 yards before it fell into the river.

Mallard

One male and apparently three females were noted flying

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in the river toward Fishing Bridge.

California Sea Gull

These birds were common on the river and appear to be partly parasitic on the pelican. At times when the pelicans were feeding numerous gulls would be hovering over head or resting in the water close by. On several occasions I observed a "rumpus" among the gulls with a pelican as the center of attraction. Doubtless the fish are what the gulls were after.

One ♂ was collected and the digestive tract searched for parasites. The stomach contained remains of fish, mostly viscera that had been discarded by fishermen. The gizzard contained several fin rays and vertebrae, but neither contained parasites. The intestine, duodenum, contained several Cestodes which were preserved.

Yellow Warbler.

2 ♂ and 1 ♀ were observed in the willows near Fishing Bridge.

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Carvus americanus.

One ♀ was observed while I was lying-in-wait for the pelicans. I was stretched out on the ground behind a log. The elk approached the river from the opposite side and started to cross, but changed her mind and went up stream to a place opposite me. Here she took to the water, and for the distance of perhaps 100 ft. had to swim. At this time only her head was visible. Several times she twitched her ears to get relief from the gnats. When she landed on this side she was slightly up wind and not more than 10 feet from me. Flies were giving her a great deal of trouble, especially one bat fly ? that insisted on hovering near and attempting to alight on her nose. At times when the fly attempted this she would toss her head into the air and stamp the ground with her right hoof.

She was observed to feed on a species of Salix and then moved

with each measured, deliberate wing strokes. One bird that was shot through the heart left the water and flew some 50 yards before it fell into the river. Mallard One male and apparently three females were noted flying

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to the river toward Fishing Bridge.

California Sea Gull

These birds were common on the river and appear to be partly parasitic on the pelican. At times when the pelicans were feeding numerous gulls would be hovering over head or resting in the water close by. On several occasions I observed "trumpets" among the gulls with a pelican as the center of attraction. Doubtless the fish are what the gulls were after. One ♂ was collected and the digestive tract searched for parasites. The stomach contained remains of fish, mostly viscera that had been discarded by fishermen. The gizzard contained several tin rays and vertebrae, but neither contained parasites. The intestine, duodenum, contained several Ochetes which were preserved.

Yellow Warbler

♂ and 1 ♀ were observed in the willows near Fishing Bridge.

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Ceryle americana

One ♀ was observed while I was lying-in-wait for the pelicans. I was stretched out on the ground behind a log. The duck approached the river from the opposite side and started to cross but changed her mind and went up stream to a place opposite me. Here she took to the water, and for the distance of perhaps 100 ft. had to swim. At this time only her head was visible. Several times she twitched her ears to get relief from the grate. When she landed on this side she was slightly up wind and not more than 10 feet from me. Gulls were giving her a great deal of trouble, especially one that insisted on hovering near and attempting to alight on her nose. At times when she attempted this she would toss her head into the air and stamp the ground with her right foot. She was observed to feed on a species of Salix and then

moved

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into an area covered with Artemisia and herbs. Here she was observed grazing for some time -- about 10 minutes. She then moved over into the timber and disappeared.

Microtus.

Several runs, burrows, cut grass and scats were observed in the meadow near the river.

Ondatra.

Burrows were found in a perpendicular bank along the river that doubtless belonged to this species.

Eutamias.

Several of these noted, but I am unable to tell the species.

Alces.

A bull and a cow were observed in the willows in the marshy area about  $\frac{3}{4}$  mi. below fishing bridge. They were browsing these plants.

Sciurus h. ventorum.

A rather common mammal around the camps and in the second growth area to the north of here. Several were heard, but only two actually seen.

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June 30, 1934, Fishing Bridge, Yellowstone N. P.

Spent yesterday and today looking for Mergansers and Osprey. So far I have been unable to locate either within walking distance from camp. One of the rangers, Semingsen, told me of an Osprey's nest near the 6 mi. post on the Cody road. Since I have no transportation furnished me for these studies, I haven't felt inclined to make the trip out there to check the situation.

Several birds were observed both yesterday and today. I took three pictures of the California Gulls at the lake yesterday. They were baited by tossing bits of pelican meat to them. Chances are good for excellent pictures if one had the proper equipment.

Bald Eagle.

Today I found an eagle's nest in a conifer about 1 1/2 miles below -- north of -- Fishing Bridge along the river. Three young were in the nest and the two adults were in the neighborhood at all times. A peculiar "clucking" sound was made by

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the adults that reminds me very much of the alarm notes of the

(p. 223)

into an area covered with Artemisia and herbs. Here she was observed grazing for some time -- about 10 minutes. She then moved over into the timber and disappeared.

Microtus

Several runs, burrows, cut grass and scats were observed in the meadow near the river.

Onychomys

Burrows were found in a perpendicular bank along the river that doubtless belonged to this species.

Peromyscus

Several of these noted, but I am unable to tell the species.

Alces

A bull and a cow were observed in the willows in the marshy area about 1/2 mi. below fishing bridge. They were browsing these plants.

Sciurus h. ventorum

A rather common mammal around the camp and in the second-growth area to the north of here. Several were heard, but only two actually seen.

(p. 223)

June 30, 1934, Fishing Bridge, Yellowstone N. P.

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Bald Eagle

Today I found an eagle's nest in a conifer about 1 1/2 miles below -- north of -- Fishing Bridge along the river. Three young were in the nest and the two adults were in the neighborhood at all times. A peculiar "clicking" sound was made by

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the adults that reminds me very much of the alarm notes of the

Cooper Hawk. The white head and tail of the adults was clearly discernible. Tomorrow I plan to take pictures of the nest and site and the young birds.

Zonotrichia l. leucophrys.

A nest with four partly incubated eggs was found near the eagle's nest. The cup was placed nearly flush with the ground and well concealed by low Artemisia tridentata. The female was flushed and remained in the near vicinity.

Chipping Sparrow.

Several observed in the Artemisia and again in the conifers. Junco heamalis.

One pair observed. From their actions I should judge they had either a nest or young close by.

Batchelder Woodpecker.

One observed delving in the wood of a rotten snag.

Mountain Bluebird.

Fairly common here. I saw 10 or 12 today in the

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second growth north of here.

Ruby-crowned Kinglet.

One of the most abundant birds, judging from the frequency one hears their songs.

Rocky Mt. Jay.

Common around the camps and gov't. mess hall. These birds are usually followed from place to place by two or more kinglets which keep up a constant "chatter". The little fellows have never been observed to attack the jays, but they are doubtless trying to route them from the territory.

Black Bear.

Several tracks and scats were observed this morning in the Howard Eaton Trail. Two, a brown and a black, have been seen every day at the gov't. mess.

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July 2, 1934, Dunraven Pass, Yellowstone N. P.

Yesterday I again hiked down Yellowstone River for about two miles looking for Mergansers and Osprey, but failed to find any. One Osprey was noted over Yellowstone Lake, however, but too far away to take.

Bald Eagle.

Again visited the eagle's nest. It is located about 50

Geopelia striata. The white head and tail of the adults was clearly discernible. Tomorrow I plan to take pictures of the nest and site and the young birds.

Zenaidura macroura. A nest with four partly incubated eggs was found near the eagle's nest. The egg was placed nearly flush with the ground and well concealed by low Artemisia tridentata. The female was flushed and remained in the nest vicinity.

Chondestes. Several observed in the Artemisia and again in the conifers.

Luna. One pair observed. From their actions I should judge they had either a nest or young close by.

Borealis. One observed delving in the wood of a rotten snag.

Mountain Bluebird. Fairly common here. I saw 10 or 12 today in the

(p. 228)

second growth north of here. Ruby-crowned Kinglet. One of the most abundant birds, judging from the frequency one hears their songs.

Rocky Mt. Jay. Common around the camp and gov't mess hall. These birds are usually followed from place to place by two or more kinglets which keep up a constant "chatter". The little fellows have never been observed to attack the jays, but they are doubtless trying to route them from the territory.

Black Bear. Several tracks and scats were observed this morning in the Howard Eaton Trail. Two, a brown and a black, have been seen every day at the gov't mess.

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July 2, 1934, Dunsmuir Pass, Yellowstone N. P.

Yesterday I again hiked down Yellowstone River for about two miles looking for Merganser and Sparrow, but failed to find any. One Sparrow was noted over Yellowstone Lake, however, but too far away to take.

Bald Eagle. Again visited the eagle's nest. It is located about 50



ft. from the ground near the top of a large Pinus contorta. The nest itself was about 5 ft. high and at this time was a mere platform on top with an area of perhaps 20 sq. ft. The nest had been occupied for several seasons, judging from the mass of accumulated debris. No food of any sort was in the nest. The three young were nearly full grown, dark brownish black in color with yellowish beaks. They were frightened and hissed and attempted to get as far as possible from me and yet remain on the nest. They easily stood on their feet, rather than resting on their torsus-metatarsus

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so I should judge that they will be attempting to fly within two weeks.

This morning I got a ride to Canyon, arriving there at 7:30 and had to wait there until nearly 2:00 P.M. before I could get a ride to Dunraven Pass. This lack of transportation is irksome.

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July 3, 1934, Mt. Washburn, Yellowstone N. P. , Wyo.

Ovis Canadensis.

Range. Range conditions are poor. The grass is short, sparse and beginning to sere. The commonest plants are: Potentilla sp.?, wild daisy, Indian warrior, Mt. Forget-me-not, Polygonum sp., and a peculiar rush-like mountain grass <sup>Carex</sup> Lupinus and white Phlox. The place where the sheep are now grazing, north side about 400 ft. from the top, is sparsely covered with Picea englemannii.

Habits. 8:30. When I first arrived the 8 sheep were going down the hill from the salt lick to the meadow and flat on the n side. They grazed for awhile, but now one ewe is lying in the open, partially screened from me by a chump of Picea. The rest of the herd is hidden from view. She is chewing her cud, each lasting about 30 seconds. One can easily see the food go down and come up the throat. The sheep are about 150 ft. away and appear to pay

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no attention to me tho I am now in plain sight. The day is windy, sun shining, sky partly overcast with clouds. The sheep

resting on their forems-metatarsus on the nest. They easily stood on their feet, rather than and attempted to get as far as possible from me and yet remain color with yellowish beaks. They were frightened and hissed like three young were nearly full grown, dark brownish black in mass of accumulated debris. No food of any sort was in the nest. nest had been occupied for several seasons, judging from the more platform on top with an area of perhaps 20 sq. ft. The nest itself was about 5 ft. high and at this time was a ft. from the ground near the top of a large Pinus contorta.

(p. 227)

so I should judge that they will be attempting to fly within two weeks. This morning I got a ride to Canyon, arriving there at 7:30 and had to wait until nearly 2:00 P.M. before I could get a ride to Dummer Pass. This lack of transportation is irksome.

(p. 228)

July 3, 1934, Mt. Washburn, Yellowstone N. P., Wyo.

Ovis canadensis. Range conditions are poor. The grass is short, sparse and beginning to sere. The commonest plants are: Potentilla sp.?, wild daisy, Indian warrior, Mt. Forget-me-not, Polygonum sp., and a peculiar fern-like mountain grass. The place where the sheep are now grazing, north side about 400 ft. from the top, is sparsely covered with

Picea canadensis. Habits. 6:30. When I first arrived the 8 sheep were going down the hill from the salt lick to the meadow and fat on the side. They grazed for awhile, but now one ewe is lying in the open, partially screened from me by a clump of Picea. The rest of the herd is hidden from view. She is chewing her cud, each last about 30 seconds. One can easily see the food go down and come up the throat. The sheep ate about 150 ft. away and appear to pay

(p. 229)

no attention to me tho I am now in plain sight. The day is windy, sun shining, sky partly overcast with clouds. The sheep

are now shedding their winter coat and are ragged looking. Shedding appears to take place first on the head and on a broad strip down the middle of the back.

8:50. The herd appears to be made up of 3 old ewes, 2 young ewes, 3 young bucks. Still lying down. The wind is down the hill and I notice that most of them are utilizing the clump of Picea as a wind break. However, three ewes are out in the open and all are exposed to the sun. (Saw a Pipit and heard a Clarke Nutcracker)

9:15. Method of day bedding. Merely any place seems suitable. The front legs are folded under the body, the hind quarters are placed so the hind legs are projecting to one side. The body is apparently always placed up the hill with hind legs

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pointing down hill. In rising the hind legs are used first, then the front ones.

9:30. The herd got up, voluntarily and moved down the hill. The ♀ urinated much like a ♀ dog, that is assuming a squatting, spraddle legged posture with the rump close to the ground. The herd split, the broken horned ewe and another young one remaining here and grazing within 100 ft. of me, the rest moved westward and are out of sight. The sheep are grazing on something close to the ground and are not utilizing the numerous clumps of lupine. They appear to be in good condition. The plant of the daisy is eaten. Grasses are eaten, too.

10:00 A.M. Frank Childs came up and we went to Canyon and Lake in search of Osprey and Mergansers. Found several of the former but could get none. Saw none of latter. At 1:00 P.M. we came back up on the mt. All 8 sheep were on the

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west slope of the ridge N of the tower. Frank took several pictures. The sheep were found to be feeding on Potentilla--and a kind of short grass, specimens of which were saved.

July 4, 1934, Mt. Washburn, Yellowstone N. P.

A cloudy, cold day. Rain threatens.

8:15. The sheep are on the n side of the ridge to the east of the tower. The broken-horned ♀ is grazing by herself. The rest of the herd is about 1/4 mile away and lower down the hill.

9:15. Have been unable to find the main flock so far.

are now shedding their winter coat and are ragged looking. Shedding appears to take place first on the head and on a broad strip down the middle of the back.

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9:15. Method of day bedding. Merely any place seems suitable. The front legs are folded under the body, the hind quarters are placed so the hind legs are projecting to one side. The body is apparently always placed up the hill with hind legs

(p. 230)

pointing down hill. In raising the hind legs are used first, then the front ones.

9:30. The herd got up, voluntarily and moved down the hill. The 9 urinated much like a dog, that is assuming a spreading legged posture with the rump close to the ground. The herd split, the broken horned ewe and another young one remaining here and grazing within 100 ft. of me, the rest moved westward and are out of sight. The sheep are grazing on something close to the ground and are not utilizing the numerous clumps of pine. They appear to be in good condition. The plant of the day is eaten. Grasses are eaten, too.

10:00 A.M. Frank Childs came up and we went to Canyon and lake in search of Garry and Mergansers. Found several of the former but could get none. Saw none of latter. At 1:00 P.M. we came back up on the mt. All 8 sheep were on the

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July 4, 1934, Mt. Washburn, Yellowstone N. P.

4 cloudy, cold day. Rain threatens.  
8:15. The sheep are on the N side of the ridge to the east of the tower. The broken-horned 9 is grazing by herself. The rest of the herd is about 1/4 mile away and lower down the hill.  
9:15. Have been unable to find the main flock so far.

There were four beds in this group, each of which appears to have been used last night.

Night bed. -- Found the night beds of the flock on the N facing slope of the hill E of the lookout. The beds are on a breccia covered hillside with a slope of about 45 degrees. The beds are scraped out of the loose rock and measure about  $1\frac{1}{2}$  x 2'. In each bed at the end of the long axis is a pile of feces that in these cases is fresh. Samples of feces saved

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and two pictures taken of the beds -- one a close up.

9:25. Just located two more below me. It is now raining and the sheep are slowly working up hill toward me. Heavy clouds are drifting over and obscuring the view. Heard one of them bleat twice like a domesticated sheep. This is first time I have heard any call at all. The two are now bedded down in the open, one on grass, the other in a rock slide. Again lying down was accomplished by folding the front legs first, then the hind ones. The body is up hill, the legs down hill. Still raining a bit.

10:30. Rain has stopped, but still cloudy. The two sheep have just gotten up and are leisurely grazing in the grassy areas among the rocks. When the animal arises the body is stretched by extending both hind feet backward. They are now

11:00. The flock (p. 233)

backward. They are now heading over a small ridge, grazing as they go. These two ewes (judged from the posture when urinating) then moved back to the flat below (n. of) the tower where they joined 5 others, three of which were young rams.

The Bed. -- The oldest ram dug out a shallow depression using his front feet alternately (3 to 4 strokes with each before changing) then lay down. All had their backs up hill and all save two faced away from the wind. The wind was from the SE. The sheep kept to the N slopes of the hills and thus partially protected.

July 5, 1934, Mt. Washburn, Yellowstone N. P.

I didn't go up on the mt. today. Hurdle reported seeing two lambs with the flock, one about two weeks old, the other older. The day was stormy most of the time and the sheep were sighted only twice.

There were four beds in this group, each of which appears to have been used last night.

Right bed. -- Found the right beds of the flock on the N facing slope of the hill & of the lookouts. The beds are on a precipitous covered hillside with a slope of about 45 degrees. The beds are scraped out of the loose rock and measure about 12' x 3'. In each bed at the end of the long axis is a pile of ferns that in these cases is fresh. Samples of loose saved

(p. 332)

and two pictures taken of the beds -- one a close up. 9:30. Just located two more below me. It is now raining and the sheep are slowly working up hill toward me. Heavy clouds are drifting over and obscuring the view. Heard one of them bleat twice like a domesticated sheep. This is the first time I have heard any call at all. The two are now bedded down in the open, one on grass, the other in a rock shade. Again lying down was accomplished by folding the front legs first, then the hind ones. The body is up hill, the legs down hill. Still raining a bit.

10:30. Rain has stopped, but still cloudy. The two sheep have just gotten up and are leisurely grazing in the grassy areas among the rocks. When the animal arises the body is stretched by extending both hind legs forward. The legs are

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backward. They are now heading over a small ridge, grazing as they go. These two ewes (judged from the posture when urinating) then moved back to the flat below (n. of) the tower where they joined 3 others, three of which were young rams.

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July 5, 1934, Mt. Washburn, Yellowstone N. P.

I didn't go up on the mt. today. Lurdie reported seeing two lambs with the flock, one about two weeks old, the other black. The day was stormy most of the time and the sheep were sighted only twice.

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July 6, 1934, Mt. Washburn, Yellowstone N. P.

Clear sunny day. Strong, cold SW wind.

Blue Grouse.

Two Dendragapus were seen on the NE slope of the hill east of the lookout. Both appeared to be ♂♂. The orange red patch over the eye was prominent. They were feeding among the rocks, Polygomen bistortoides being one of the plants they ate. The whole cluster of flowers was snipped off and swallowed. This was the only food identified. They fed apart and when one came too near the other, the second chased the first away. Both could be approached within 20 feet.

10:30. I found a small flock of six sheep near the top of the peak east of the lookout. They were all bedded down on an open grassy hillside. There are 3♀ & 3♂. No lambs in this lot. One ♂ appears to be asleep. His head is thrown back on his side. The

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ram with the big horns is not with this bunch. They have been bedded down for an hour or more. Have been hunting all around this peak but never saw them until a few moments ago. This is higher than I have found them on this peak before.

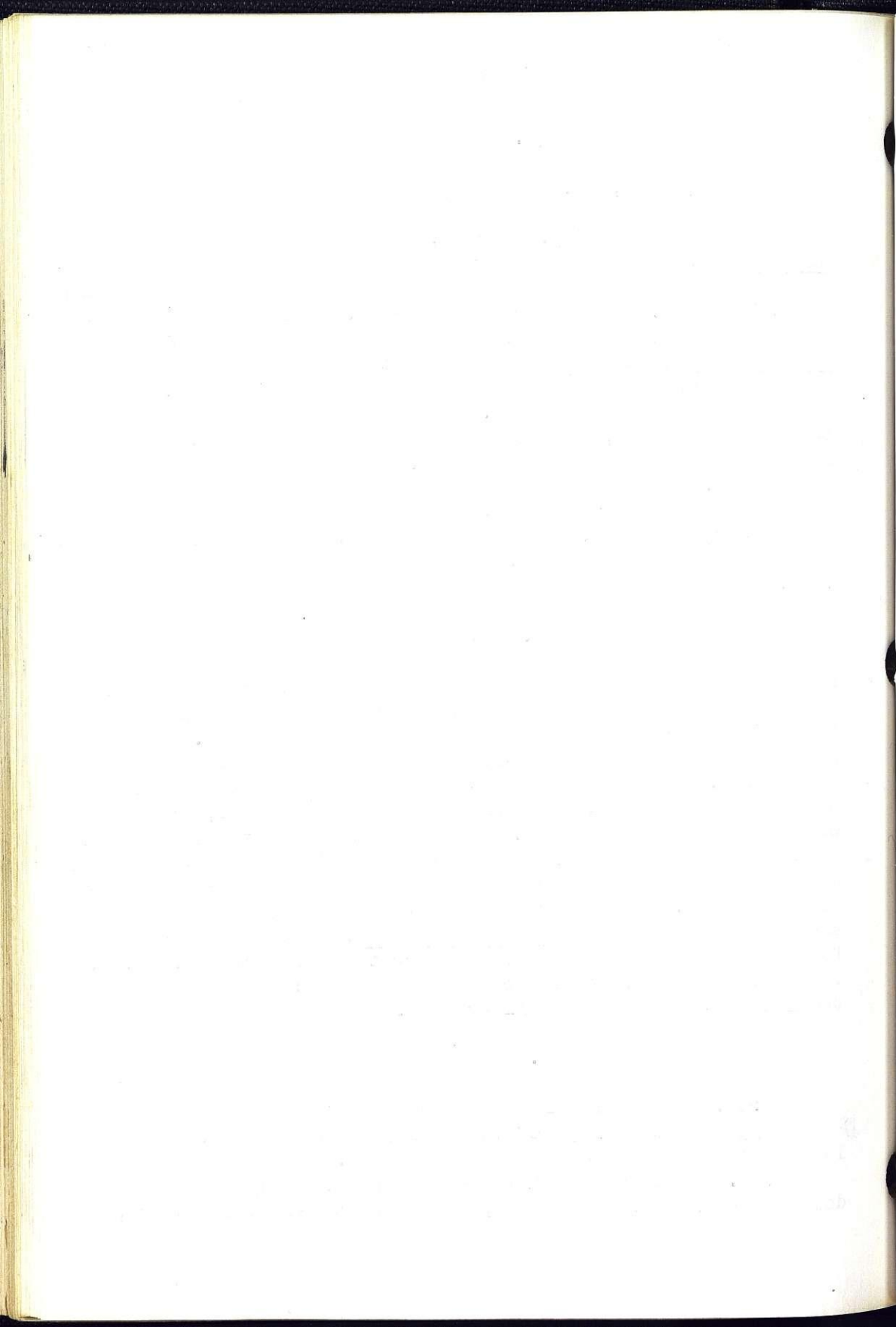
11:00. The flock got up one by one and began grazing. Took two pictures of them. One of three at about 50 ft., the other of all six at about 100 ft. Picture also shows typical grazing ground. Elk scats are plentiful all over this side of the hill and their presence formerly this spring may help account for the scanty forage. They moved down over the brow of the hill and are now grazing amongst Pinus Albicaulus. Again they moved farther down hill into the open where they are grazing. 11:15. They have all moved to the W slope of the second peak east of the lookout. Moving up hill grazing.

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12:00

12:00. When I returned to the lookout I saw a group of 4 ♀♀ & 2 yg on the S slope of the hill just E of there. The lambs appear to be a month or 6 weeks old.

1:00. Went over to this second group. They were lying down on the ridge. The lambs, one of which at least is a ♀,





(method of urination) stick fairly close to their mothers. Both appear to be about a month old and since they first appeared on the mountain yesterday, the lambs were doubtless born at a lower elevation. Both lambs are still nursing. The other band has disappeared from the slope where I last saw them. This second band is wilder than the other one. They prefer to keep out of sight.

1:30. The flock with lambs has moved down into the canyon SE of the lookout and are out of sight. Numerous old beds are on the talus slope S side of the hill E of the lookout. A picture

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taken of one. The beds in this locality are made in rock slides where gravel has been washed down upon bigger boulders. The gravel is pawed down hill until a nearly level bed is made oval in shape and containing approximately 4 to 6 sq. ft. surface.

The ♂ sheep urinates much like a young puppy does. That is, stands still and drizzles. The ♀♀, even the lambs, always squat to urinate.

Trails.-- Definite trails are made on the steep talus slopes and when the sheep are moving from one place to another these are followed. However, if the sheep are grazing, no particular trails are followed.

2:15. The group with the lambs crossed to the west side of the canyon below the road about 600 ft. and are bedded down. 1 ♀ without a lamb was lost from those above. She gave several bleats which were answered by the ones

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above. In going up the steep part of the trail jumping is resorted to. The sheep are sure footed and travel over quite narrow ledges.

4:00 to 4:30. The flock has now risen and resumed grazing on the E face of the Canyon. For the last two hours they have been bedded down, the old ones occasionally rising to nibble a few bites and then lying down again. The lambs never moved at all and were the last ones to move when the group resumed grazing.



Track of sheep as copied from one in soft dirt. Tracks averaged 16" apart going up at 45 degree grade.

(method of urination) stick fairly close to their mothers. Both appear to be about a month old and since they first appeared on the mountain yesterday, the lambs were doubtless born at a lower elevation. Both lambs are still nursing. The other band has disappeared from the slope where I last saw them. This second band is wilder than the other one. They prefer to keep out of sight.

1:30. The flock with lambs has moved down into the canyon of the lookout and are out of sight. Numerous old beds are on the main slope S side of the hill E of the lookout. A picture

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Taken of one. The beds in this locality are made in rock slides were gravel has been washed down upon bigger boulders. The gravel is paved down hill until a nearly level bed is made oval in shape and containing approximately 4 to 5 sq. ft. surface. The sheep urinates much like a young puppy does. That is, stands still and urinates. The sheep, even the lambs, always seem to urinate.

Trails-- Definite trails are made on the steep talus slopes and when the sheep are moving from one place to another these are followed. However, if the sheep are grazing, no particular trails are followed.

2:15. The group with the lambs crossed to the west side of the canyon below the road about 800 ft. and are bedded down. I saw without a lamp was lost from those above. The gave several places which were answered by the ones

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above. In going up the steep part of the trail jumping is resorted to. The sheep are sure footed and travel over quite narrow ledges.

4:00 P.M. The flock has now risen and resumed grazing on the E face of the Canyon. For the last two hours they have been bedded down, the old ones occasionally rising to nibble a few bites and then lying down again. The lambs never moved at all and were the last ones to move when the group resumed grazing.

Track of sheep as copied from one in soft dirt. Tracks averaged 1 1/2" apart going up at 45 degree grade.



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4:45. <sup>PM</sup> They first herd with the rams moved back to the peak east of the lookout. This is the first time I've seen them since noon. They are now grazing.

July 8, 1934, Mt. Washburn, Yellowstone N. P.

Mr. Hurdle, lookout on Mt. Washburn, reported seeing a flock of four ewes and three lambs, near the summit.

July 11 (notes for observations made 9, 10, 11).

Food. In the afternoon of the 9th the flock of 6 -- 3 rams, 2 barren ewes, & 1 yearling ewe -- was found feeding on the west exposure about 1000 feet below the summit. This place appears to be their favorite feeding grounds in the afternoon. I was able to approach within 50 ft. of the feeding flock and added the two following plants to their diet: Pedicularis cystopteriodfolia (Lousewort) and Polygonum bistitordies (Knot weed). The former appears to be highly palatable and is much sought for. The latter appears to be taken incidentally. However, fully 60%

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of their food consists of the Meadow grass (Poa sp?) and next in order comes the Erigerons (Daisies).

Chewing Cud. -- This process is usually done only when the animals are bedded down. Counts were made on three different sheep to determine the number of jaw movements given to each cud. These follow.

No. 1 (Ewe)	No. 2 (Ram)	No. 3 (Ram)
64	59	79
63	64	48
59	63	59
62	63	64
63	62	63

These average about 62 movements of the lower jaw to each cud. These are made at the rate of about 1/sec. per movement. The jaw (lower) in a great majority is moved from right to left, and the greater part of the grinding is done on the upward, side-ward, left movement. Occasionally the movement is reversed but only for two or three movements, doubtless for the purpose of adjusting the food properly in the mouth.

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July 11 (notes for observations made 9, 10, 11).

Wood. In the afternoon of the 9th the flock of 8 -- 3 rams, 3 barren ewes, & 1 yearling ewe -- was found feeding on the west exposure about 1000 feet below the summit. This place appears to be their favorite feeding grounds in the afternoon. I was able to approach within 50 ft. of the feeding flock and added the two following plants to their diet: Pedicularis sylvatica (know weed). The former appears to be highly palatable and is much sought for. The latter appears to be taken incidentally. However, July 30.

of their food consists of the Meadow Grass (Poa alp.) and next in order comes the Rigwort (Dactylis).

Chewing Cnd. -- This process as usually done only when the animals are bedded down. Counts were made on three different sheep to determine the number of jaw movements given to each ewe. These follow.

No. 1 (Ewe)	No. 2 (Ram)	No. 3 (Ram)
84	89	79
83	84	48
89	83	89
83	83	84
83	83	83

These average about 83 movements of the lower jaw to each ewe. These are made at the rate of about 1/sec. per movement. The jaw (lower) in a great majority is moved from right to left and the greater part of the grinding is done on the upward, side-ward, left movement. Occasionally the movement is reversed but only for two or three movements, doubtless for the purpose of adjusting the food properly in the mouth.

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Parasites. -- External parasites appear to be affecting the sheep. Scratching of various parts of the body, especially back of the ears is resorted to frequently. This scratching is usually done with the hind foot on the side scratched. At times they were observed to rub their head, especially about the ears, on the branches of Picea engelmanni. Of the flies the Bot, Horse, & Deer flies appear to molest them most. Frequently a sheep would shake its head, holding the nose high, and then plunge the nose to the ground and hold it there for a few seconds as if trying to avoid the laying of larvae by the bot flies in its nostrils. The Horse fly molesting them is a large blackish one with a green bar across each eye. These alight generally on the belly or between the hind legs where they are less easily dislodged. Deer fly were observed flying about the ears

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of the animals. Doubtless ticks infest them, too. Stomach and intestinal analysis will necessarily have to be made to determine the status of internal parasites.

Shedding. -- The yearling ewe and the two rmas have completely shed and are now wearing their new coats. All the old ewes observed so far are still in the process of moult and present a very ragged appearance. The sides and part of the belly are the last parts to lose the old hair.

This band remained bedded down until about 4 P. M. when they started feeding again.

July 10, Mt. Washburn, Yellowstone N. P.

Daily activity. -- Feeding when I first saw them at 8:30 A.M. Grazed and wandered around the peak to the east of the lookout and bedded down about 11 A.M. Were seen again grazing in the flat N of the lookout about 1/8 mi. at 5:30. Grazed intermittantly

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until about  $\frac{3}{4}$  hr. after sun down when they all bedded down on the rocky slope NW of the lookout and about 1000 ft. below the peak.

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Food. Added Picea englemanni and Pinus albicaulus to their list of food plants. On several occasions at about 6:30 different ones of this same flock were observed browsing. Browsing does not occupy 1% of their time, however, Again they were observed to search out & eat the Pedicularis. Carex sp is perhaps the most common plant on the mountain, but appears to be avoided. This is true of all the lupines and locas.

Habits. The yearling ewe appears to be coming into heat because the young ram is continually trying to mount her. She is not ready yet to take him and always manages to elude him

July 11, Mt. Washburn, Yellowstone N. P.

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Visited the sheep where they bedded down last night at 4:30 this morning and found them about 500 ft. lower down the mountain side. Evidently they had begun brazing as soon as it was light enough to see. The flock of 5 I had watched yesterday had joined up with a flock of 6 ewes and two lambs. Three of the ewes and two lambs left the rest of the flock and moved over into a rocky canyon west of the lookout. The lambs are now old enough to forage and on one occasion only have I seen either of them nurse. They appear to be more frightened by my presence than the old ones and they can easily outrun their mothers.

A ranger from Canyon who visited the lookout at 2:30 A.M. this morning reported seeing 12 sheep bedded down near the road about 200 yds. above the Dunraven R. S. on the Mt. Washburn road. The tendency must be to

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spend the night at lower elevations than the days. This A.M. is the second time I have seen the lambs since I have been up here.

There appears to be no old rams on the mountain and this may be a factor in the small number of lambs seen. Again, no twins have been seen so far.

Birds. -- Found a Pipits' nest yesterday with four fresh eggs. The nest was sunk level with the ground and was placed below an overhanging bank of sod in an open grassy and rocky slope NE of the lookout and about 500 ft. lower.

White Crowned Sparrow. -- Found nest with four naked young on the N slope of the lookout peak between the lower road and

Food. Added Picea engelmannii and Pinus albicarpa to their list of food plants. On several occasions at about 8:30 different ones of this same flock were observed browsing. Browsing does not occupy 1/2 of their time, however. Again they were observed to search out & eat the Pedicularis. Carex is perhaps the most common plant on the mountain, but appears to be avoided. This is true of all the lupines and locoes. Habits. The yearling ewe appears to be coming into heat because the young ram is continually trying to mount her. She is not ready yet to take him and always manages to elude him.

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(p. 244)

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the one leading to the top. Nest sunk flush with the ground and in the open among the short grass.

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Saw the following birds and mammals near the summit:

1. Rock Wren
2. Mt. Bluebird
3. Red-tailed Hawk
4. Pipit
5. White-crowned Sparrow
6. Raven
7. Callospermophilus
8. Marmot
9. *Odocoileus hemianus*
10. *Cervus americanus*
11. *Ovis canadensis*
12. Clark Nutcracker
13. *Eutamias* sp?

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July 11, 1934, Dunraven Pass, Yellowstone N. P.

Plants on Mt. Washburn from Dunraven to the top:

*Erigeron argentatus*  
*Castilleja pallida*  
*Aragalus alpicola*  
*Sedum Douglasii*  
*Eriogonum umbellatum*  
*Eriogonum ovalifolium*  
*Agoseris grandiflora*  
*Senecio wernerifolius*  
*Senecio microdontus*  
*Mimulus Lewisii*  
*Chamaenerion angustifolium* (Fire weed)  
*Eriogonum flavum*  
*Eriogonum subalpinum*  
*Arnica ventorum*  
*Eriophyllum intergrifolium*  
*Oxyria diggna* (mt. sorrel)  
*Cerastium creophilum*  
*Arabis* sp.  
*Lupinus monticola*  
*Astragalus aculeatus*

the one leading to the top. No sign of snow flush with the ground and in the open among the short grass.

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Saw the following birds and mammals near the summit:

- 1. Rock Wren
- 2. Mt. Bluebird
- 3. Red-tailed Hawk
- 4. Pipit
- 5. White-crowned Sparrow
- 6. Raven
- 7. Callispermophilus
- 8. Marmot
- 9. Onychomys leucogaster
- 10. Cervus americanus
- 11. Ovis canadensis
- 12. Clark Nutcracker
- 13. Tamias sp.

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July 11, 1934, Dunroven Pass, Yellowstone N. P.

Plants on Mt. Washburn from Dunroven to the top:

- Erigeron argentatus
- Gastrophysa pallida
- Artemisia alpica
- Sedum Douglasii
- Erigeron uniflorus
- Erigeron ovaliflorus
- Asperula grandiflora
- Senecio wernerifolius
- Senecio microdonatus
- Mimulus lewisii
- Chamaenerion angustifolium (Fire weed)
- Erigeron flavus
- Erigeron subalpinus
- Antennaria verticillata
- Erigeron heterophyllus
- Oxyria digyna (mt. sorrel)
- Cerastium Oreophilum
- Arabis sp.
- Lupinus monticola
- Astragalus scoulerianus

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July 13, 1934, Dunraven Pass, Yellowstone N. P.

The nights of July 10, 11, & 12 were spent on top of Mt. Washburn in order to make late evening and early morning observations of the sheep.

Every evening they grazed as they moved downward to their night beds. These beds were usually made on the rocky slopes to the west of the peak, tho I believe other suitable slopes are also used.

There are now 16 sheep on the mountain:

3 rams -- 2 yearlings and 1 3-yr. old.

10 ewes -- 3 with lambs

2 yearlings

5 apparently barren

3 lambs -- 2 ♀ & 1 ♂.

These sheep are usually divided into two bunches as follows:

#1	2 rams	1 3-yr. old	and 1 yearling
	3 ewes	2 old and barren	& 1 yearling
	<hr/>		
	5		

#2	1 ram	--yearling
	7 ewes	--1 yearling
	3 lambs	
	<hr/>	
	11	

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July 20, Dunraven Pass, Yellowstone N. P.

July 14, 15, 16, 17, 18 were spent at Mammoth in making reports and waiting to get the transportation problem solved.

I came back here the evening of the 18th.

Today there were 43 sheep on the mountain distributed as follows:

3 rams -- 1 3-yr. old; 2 yearlings.

24 ewes -- 14 with lambs

5 apparently barren

5 yearlings.

16 lambs -- unable to determine sex of all.

As was the case with the other lambs that came up on the mountain, the new arrivals came up the canyon to the south-east of the peak. This again leads me to believe the lambs are born and partially reared year Yellowstone Canyon.

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July 13, 1934, Duraven Pass, Yellowstone N. P.

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Every evening they grazed as they moved downward to their night beds. These beds were usually made on the rocky slopes to the west of the peak, tho I believe other suitable slopes are also used.

There are now 48 sheep on the mountain:  
 3 rams -- 2 yearlings and 1 3-yr. old.  
 10 ewes -- 5 with lambs  
 2 yearlings  
 5 apparently barren

These sheep are usually divided into two bunches as follows:  
 1 3 rams 1 3-yr. old and 1 yearling  
 5 ewes 2 old and barren & 1 yearling  
 5

1 ram -- yearling  
 7 ewes -- 1 yearling  
 3 lambs  
 11

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July 20, Duraven Pass, Yellowstone N. P.

July 14, 15, 16, 17, 18 were spent at Mammoth in making reports and waiting to get the transportation problem solved. I came back here the evening of the 18th. Today there were 48 sheep on the mountain distributed as follows:

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 5 apparently barren  
 5 yearlings.

16 lambs -- unable to determine sex of all. As was the case with the other lambs that came up on the mountain, the new arrivals came up the canyon to the south-east of the peak. This again leads me to believe the lambs are born and partially reared near Yellowstone Canyon.

Last year the lamb crop on Mt. Washburn was 15, according to actual numbers counted by Ranger Hurdle. This year there

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are only 7 yearlings left of that crop -- if one assumes that the young return. Perhaps this lack of maturing of the lamb crop is the cause of the decrease in the numbers of sheep on the mountain. If one could determine what happened to the other lambs and avert their death in some way, the problem may be partially solved.

According to Ranger Hurdle there are now more sheep on Mt. Washburn than there has been during the past 3 years. This fact looks encouraging, but one must consider the fact that Mr. Hurdle is stationed on top as a lookout and lacked the time to make proper counts.

Food. I have succeeded in adding the following plants to their food list:

Carex saxatilis -- Sedge

Astragalus aculeatus -- vetch

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Phacelia sp?

At this time the Pedicularis and Erigerons are maturing and the plants sereing. The sheep are no longer eating these plants as commonly as formerly and are utilizing the later blooming plants.

From this observation it is doubtless true that the sheep are opportunists and vary their food with the season. Even so, I have failed to add any of the Lupines to their food diet, and it is only of late that I have found evidence of their eating the Carex.

July 23, 1934, Mammoth Springs, Yellowstone.

Artificial Islands. -- I was called into Mammoth to take over the construction of artificial islands for the swan. One is scheduled to be built, in Swan Lake, one at Heart Lake and another one

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at Shoshone Lake. Plans have been drawn up for a floating island, but this sort of thing appears to be unsatisfactory.

Last year the lamb crop on Mt. Washburn was 15, according to actual numbers counted by Ranger Hurdle. This year there

(p. 250)

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According to Ranger Hurdle there are now more sheep on Mt. Washburn than there has been during the past 3 years. This fact looks encouraging, but one must consider the fact that Mr. Hurdle is stationed on top as a lookout and lacked the time to make proper counts.

Food. I have succeeded in adding the following plants to their food list:

- Carex saxatilis -- Sedge
- Astragalus solutus -- vetch

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Phacelia sp? At this time the Pedicularis and Eriogonum are withering and the plants are being eaten. The sheep are no longer eating these plants as commonly as formerly and are utilizing the later blooming plants. From this observation it is doubtless true that the sheep are opportunists and vary their food with the season. Even so, I have failed to add any of the lupines to their food list, and it is only of late that I have found evidence of their eating the Carex.

July 23, 1934, Mammoth Springs, Yellowstone.

Artificial Islands. -- I was called into Mammoth to take over the construction of artificial islands for the swan. One is scheduled to be built in Swan Lake, one at Heart Lake and another one

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at Cascade Lake. Plans have been drawn up for a floating island, but this sort of thing appears to be unsatisfactory.

Ice would soon wreck the structure. The most feasible thing for Swan Lake, in the opinion of Frank Childs who has direct supervision of this project, is a crib of logs 25' x 25' filled with logs, rocks, earth & topped with sod and rushes.

July 25, Mammoth Springs, Yellowstone N. P.

Circumstances are such that I could not get men, trucks or materials until the project was down in black and white, so I plan to make a check-up on the road-side cleanup and then leave the park. In my opinion, a man who understands construction should be placed in charge of the building of these islands with a biologist to work with him and pass on the final results. The plan of

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putting one like myself in charge of the construction of the island, under the direct supervision of Frank Childs, appears to me to be a misapplication of a person's capabilities.

August 6, 1934, Oroville, California.

Road-side Cleanup. -- I drove around the main loop; from Canyon to Norris; to the East entrance; and to the Gallatin inspecting the roadside cleanup taking from July 25 --29 in doing so. I found nothing that warrants reporting. The work has been done with regard to scenic beauty, wild life and fire prevention. No dead snags were removed unless they were found to be dangerous to traffic.

In my opinion, the wild life side of the cleanup

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question in Yellowstone is nil. My reasons for this opinion are:

1. Roadside cleanup has been done on the main travelled roads.
2. These roads are, or are being so constructed that one can travel at least 50 mi. p. h. on them.
3. Tourists travel at great rates of speed on the highways and could see no wild life smaller than a Marmot.
4. Fire hazard should be removed to preserve the remaining habitats of animals that may have utilized the areas within the roadside cleanup area.

It would soon wreck the structure. The most feasible thing for Swan Lake, in the opinion of Frank Childs who has direct supervision of this project, is a crib of logs 25' x 25' filled with logs, rocks, earth & topped with sand and rashes.

July 28, Mammoth Springs, Yellowstone N. P.

Circumstances are such that I could not get men, trucks or materials until the project was down in black and white so I plan to make a check-up on the road-side cleanup and then leave the park. In my opinion, a man who understands construction should be placed in charge of the building of these islands with a biologist to work with him and pass on the final results. The plan of

(p. 253)

putting one like myself in charge of the construction of the island, under the direct supervision of Frank Childs, appears to me to be a misapplication of a person's capabilities.

August 6, 1934, Crowley, California.

Road-side Cleanup. -- I drove around the main loop; from Canyon to Norris; to the East entrance; and to the Gallatin in inspecting the roadside cleanup taking from July 25 -- 29 in doing so. I found nothing that warrants reporting. The work has been done with regard to scenic beauty, wild life and fire prevention. No dead snags were removed unless they were found to be dangerous to traffic.

In my opinion, the wild life side of the cleanup

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question in Yellowstone is nil. My reasons for this opinion are:

1. Roadside cleanup has been done on the main travelled roads.
2. These roads are, or are being so constructed that one can travel at least 30 mi. p. h. on them.
3. Tourists travel at great rates of speed on the highways and could see no wild life smaller than a marmot.
4. Fire hazard should be removed to preserve the remaining habitats of animals that may have utilized the areas within the roadside cleanup areas.



5. Persons who are really interested in seeing the smaller wild life in Yellowstone would hardly stick to main travelled highways to do so.

6. There are very few mammals and birds in Yellowstone that could be affected by this cleanup.

7. Under the present system

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of highway improvemetn, the main roads should be maintained for travel without impediment, and the side roads maintained and advertised as nature trails, with little or no improvement of the roads themselves to encourage slower travel.

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Dec. 14, 1934, 2 mi. W San Pablo. Contra Costa Co., Calif.

This P.M., from 1:30 to 4:15 I was hunting in the bay-marsh area on San Pablo Bay about two miles west of the town of San Pablo. This marsh, some two miles or more in length and about half a mile wide, is part of a hunting club area and lies as a fringe along the mud and sand flats which are exposed at low tide. A typical salt marsh area.

In the marsh proper are several deep "drainage" channels and the mouth of a creek which rises in the Berkeley Hills east of San Pablo.

The mud flats constitute the feeding grounds for numerous shore birds, chief of which at this visit was the Least Sand-piper.

The following birds were observed or taken in the salt marsh proper: Song Sparrow, Tule Wren, Willow Goldfinch, Clapper Rail, Short-eared Owl, and Marsh Hawk.

To the east of the taller

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marsh grass is a large area of Salicornia and along the stream are several patches of shrubs which are destitute of foliage. The Salicornia area proper offered few birds except along the stream and there Song Sparrows were most abundant. They favored the shrubby area largely. Savannah Sparrows were found on the area bordering the cultivated areas, doing their feeding in the latter and using the Salicornia for refuge. Pipits, likewise fed in the cultivated areas and resorted to the Salicornia to roost.

- 5. Persons who are really interested in seeing the smaller wild life in Yellowstone would hardly stick to main travelled highways to do so.
- 6. There are very few mammals and birds in Yellowstone that could be affected by this cleanup.
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(p. 255)

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In the marsh proper are several deep "drainage" channels and the mouth of a creek which rises in the Berkeley Hills east of San Pablo.

The mud flats constitute the feeding grounds for numerous shore birds, chief of which at this visit was the least sand-

The following birds were observed or taken in the salt marsh proper: Song Sparrow, Tule Wren, Willow Goldfinch, Juncos, Red-wing, Short-eared Owl, and Marsh Hawk.

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marsh grass is a large area of Salicornia and along the stream are several patches of sump which are destitute of foliage. The Salicornia area proper offered few birds except along the stream and there Song Sparrows were most abundant. They favored the shrubby area largely. Savannah Sparrows were found on the area bordering the cultivated areas, doing their feeding in the latter and using the Salicornia for refuge. Pipits, likewise fed in the cultivated areas and resorted to the Salicornia to

One Clapper Rail was flushed in the taller tule-like area, but eluded me. I noted with interest the trails these birds make and follow along the bank of the stream and wonder at the success one would have in trapping them. These trails were about 4 " wide and followed the course of the stream closely. They

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course of the stream closely. They were in the taller, tule area only. The guttural calls of these birds were heard frequently, and just about dusk the chant-like chorus was audible in all directions. Their tracks were commonly observed in these trails and along the muddy, low-tide banks of the creek and the numerous drains. They must do most of their feeding within the "tule" area, because none were observed on the mud flats.

On the mud flats various types of shore birds were seen: Least Sandpiper, Curlew, and probably Red-backed Sandpipers, Sea Gulls sp? were also observed.

In the zone bordering the mud flats I found two crippled ducks, a Canvasback and a Greater Scaup, both of which were taken.

Specimens taken are as follows: Song Sparrow (*samuelis*?) 10; Marsh Wren (*aestuarinus*) 1; Willow Goldfinch 2; Savannah

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Sparrow (*anthinus* 2, *aludinus* 1); Least Sandpiper, 1; Canvasback 1; Greater Scaup, 1.

Meadowlarks and Killdeers were noted in flocks. Had never seen Killdeers in flocks before.

878 ♀	Song Sparrow	892 ♀	Savannah Sparrow
879 ♂	" "	893 ♀	" " for
880 ♂	" "	894 ♂	" " exchange
881 ♂	" "	895 ♂	Greater Scaup (skeleton only)
882 ♂	" "	896 ♂	Canvas-back for exchange
883 ♀	" "		
884 ♀	" "		
885 ♀	" "		
886 ♀	" "		
887 ♂	" "		
888 ♂	Willow Goldfinch (for exchange)		
889 ♂	" "		
890 ♂	Marsh Wren ( <i>aestuarinus</i> )		
891 ♂	Least Sandpiper		

One Clapper Rail was flushed in the taller tube-like areas, but eluded me. I noted with interest the trails these birds make and follow along the bank of the stream and wonder at the success one would have in trapping them. These trails were about 4" wide and followed the course of the stream closely.

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course of the stream closely. They were in the taller, tube-like areas only. The natural calls of these birds were heard frequently, and just about dusk the chant-like chorus was audible in all directions. Their tracks were commonly observed in trails and along the muddy, low-tide banks of the creek and the numerous drains. They must do most of their feeding within the "tube" areas, because none were observed on the mud flats.

On the mud flats various types of shore birds were seen: Least Sandpiper, Gull, and probably Red-backed Sandpiper, Sea Gulls sp? were also observed.

In the zone bordering the mud flats I found two crippled ducks, a Canvasback and a Greater Scaup, both of which were taken.

Specimens taken are as follows: Song Sparrow (ammelia?) 10; Marsh Wren (sestrina) 1; Willow Goldfinch 2; Savannah

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Sparrow (anthus s. albidus) 1; Least Sandpiper, 1; Canvas-back 1; Greater Scaup, 1.

Meadowlark and Killdeer were noted in flocks. Had never seen Killdeer in flocks before.

878 ♀	Song Sparrow	892 ♀	Savannah Sparrow
879 ♀	"	893 ♀	"
880 ♀	"	894 ♀	"
881 ♀	"	895 ♀	Greater Scaup (skeleton only)
882 ♀	"	896 ♀	Canvas-back for exchange
883 ♀	"		
884 ♀	"		
885 ♀	"		
886 ♀	"		
887 ♀	"		
888 ♀	Willow Goldfinch (for exchange)		
889 ♀	"		
890 ♀	Marsh Wren (sestrina)		
891 ♀	Least Sandpiper		

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Dec. 21, 1934, Oroville, Butte Co., California.

Drove out a short distance S of the W. P. round house and hunted from about two hours: from 11:00 A.M. -- 1:00 P.M. The day was cloudy and cold with occasional glimpses of the sun.

The territory south of the round house is chiefly rolling "hog-wallow" land dotted here and there with clumps of valley oaks and an occasional live oak and "digger" pine. In the oaks the Ruby-crowned Kinglet was the commonest bird. One was taken while it was feeding on the outer branches.

Later in the P.M. I drove out to Morris Ravine, about three miles N of Oroville and in the area between the Feather River and the basalt-capped Tabel Mountain. Here Digger Pine, Ceanothus, Rhamnus and the Valley Oak were the chief cover.

Along a small stream where there was a mixed cover Bushtits were common and feeding in flocks. Also saw the

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following birds:

Pallid Wren-tit -- Several were heard in the clumps of Ceanothus, but only two were seen. I tried to collect these but when I could see them they were so close I couldn't shoot and at other times they were either so well hidden I couldn't see them or got only an occasional glimpse of them.

Spotted Towhee. -- One of the commonest birds in the chapparal. Fully a hundred individuals were seen in the two hours I spent there.

Brown Towhee. -- Saw several but there were nowhere near as common as the Spotted Towhee.

California Jay. -- Saw only two.

Steller Jay. -- Saw one. This is the first time I have seen these Jays so low down. Tried to collect it, but missed.

Varied Thrush. -- Saw only one. It kept to the tops of the Digger Pines and out of gun reach.

Junco sp. -- Saw several.

Plain Tit-mouse. -- Several seen and took one, but a passenger

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in my car stepped on it and ruined it. They were confined to the Oak-pine belt along the stream.

Hutton Vireo sp? The peculiar call of this bird was heard from a pine along the stream. Took the bird.

Journal

Monday, June 1st, 1880

Left at 8 AM for the mountains. The weather was clear and the view was beautiful. We reached the summit at 12 PM. The air was fresh and the scenery was magnificent. We spent the afternoon exploring the various peaks and valleys. The vegetation was sparse and the rocks were jagged. We returned to the base at 5 PM and had a well-deserved rest.

Monday

Left at 8 AM for the mountains. The weather was clear and the view was beautiful. We reached the summit at 12 PM. The air was fresh and the scenery was magnificent. We spent the afternoon exploring the various peaks and valleys. The vegetation was sparse and the rocks were jagged. We returned to the base at 5 PM and had a well-deserved rest.

Tuesday, June 2nd, 1880  
Left at 8 AM for the mountains. The weather was clear and the view was beautiful. We reached the summit at 12 PM. The air was fresh and the scenery was magnificent. We spent the afternoon exploring the various peaks and valleys. The vegetation was sparse and the rocks were jagged. We returned to the base at 5 PM and had a well-deserved rest.

Wednesday, June 3rd, 1880  
Left at 8 AM for the mountains. The weather was clear and the view was beautiful. We reached the summit at 12 PM. The air was fresh and the scenery was magnificent. We spent the afternoon exploring the various peaks and valleys. The vegetation was sparse and the rocks were jagged. We returned to the base at 5 PM and had a well-deserved rest.

Thursday, June 4th, 1880  
Left at 8 AM for the mountains. The weather was clear and the view was beautiful. We reached the summit at 12 PM. The air was fresh and the scenery was magnificent. We spent the afternoon exploring the various peaks and valleys. The vegetation was sparse and the rocks were jagged. We returned to the base at 5 PM and had a well-deserved rest.

3 mi. S Oroville, Butte Co., Calif., Dec. 21.

- 897 ♂ im. Ruby-crowned Kinglet.  
 898 ♂ im. " " "  
 899 ♀ im. Savannah Sparrow  
 900 ♀ im. Yellow-billed Magpie

Morris Ravine, 3 mi. N Oroville, Butte Co., Calif. Dec. 21.

- 901 ♂ im. Cassin Vireo  
 Milton

Feather River, 3 mi. SW Oroville, Butte Co., Calif. Dec. 22.

I hunted this area from from about noon to 4:00 P.M. The day was sunny for the most part. The area is part of the dredged region near the rock crusher

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and is covered by piles of dredged, water-worn boulders and in suitable areas along the river bank groves of willows and cottonwoods. A large burned-over area near the river contained hundreds of dead cottonwood trees and appeared to be a special attraction to woodpeckers. At least three species were encountered, but only two taken. The large cottonwood trees offered forage for numerous Creepers, and nesting places for Bluebirds, & Goldfinches etc. In the shrubbery near a dredged pond several Vigors Wrens were heard and one taken.

The following birds were taken:

- 902 ♀ im. Sierra Creeper  
 903 ♀ im. " "  
 904 ♀ im. " "  
 905 ♂ im. Vigors Wren  
 906 ♂ im. Western Blue Bird  
 907 ♂ im. " " "  
 908 ♂ ad. Hairy Woodpecker  
 909 ♀ ad. Downy Woodpecker  
 910 ♀ ad. " "

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- 911 ♀ ad. Downy Woodpecker  
 912 ♀ ad. " "

Inman Ranch, 7 mi. NW Oroville, Butte Co., Calif., Dec. 23

A typical riparian growth of willow, cotton tails, and

3 mi. S Oroville, Butte Co., Calif., Dec. 31.

- 887 ♀ im. Ruby-crowned Kinglet
- 888 ♀ im. " "
- 889 ♀ im. Savannah Sparrow
- 890 ♀ im. Yellow-billed Magpie

Morris Ravine, 3 mi. N Oroville, Butte Co., Calif., Dec. 31.

- 891 ♀ im. Cassin Wren

Leather River, 3 mi. SW Oroville, Butte Co., Calif., Dec. 31.

I hunted this area from about noon to 4:00 P.M. The day was sunny for the most part. The area is part of the dredged region near the rock crusher.

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and is covered by piles of dredged, water-worn boulders and in suitable areas along the river bank groves of willows and cottonwoods. A large burned-over area near the river contained hundreds of dead cottonwood trees and appeared to be a special attraction to woodpeckers. At least three species were encountered, but only two taken. The large cottonwood trees offered forage for numerous creepers, and resting places for birds. In the shrubbery near a dredged pond several Vigors Wrens were heard and one taken.

The following birds were taken:

- 892 ♀ im. Cassin Creeper
- 893 ♀ im. " "
- 894 ♀ im. " "
- 895 ♀ im. Vigors Wren
- 896 ♀ im. Western Blue Bird
- 897 ♀ im. " "
- 898 ♀ ad. Hairy Woodpecker
- 899 ♀ ad. Downy Woodpecker
- 900 ♀ ad. " "

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- 901 ♀ ad. Downy Woodpecker
- 902 ♀ ad. " "

Imman Ranch, 7 mi. NW Oroville, Butte Co., Calif., Dec. 31.

A typical riparian growth of willow, cotton tails, and



cottonwood along a stream. Lower Sonoran Zone, I'd say.

The following birds were observed:

Black-crowned Night. <sup>Near</sup> A flock of about 25 had been roosting in the willows along the stream and flushed at my approach.

Western Crow. -- Flock of about fifty was feeding in the ploughed field.

Sparrow Hawk. -- one seen.

White-crowned Sparrow. -- Common

Junco sp. -- Common.

Mallard. -- Three, one ♂, 2 ♀♀.

Teal (sp? -- 6 flushed from the creek.)

Red-shafted Flicker. -- Several seen

Savannah Sparrow. -- Common

Red-winged Blackbird. -- Few

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Brewer Blackbird. -- Common

House Finch. -- About 50 kept in a flock and perched on the tops of the tallest cottonwoods.

Willow Goldfinch. -- Two were seen.

Vigors Wren. -- One seen. Tried to take it, but couldn't get a good shot at it.

Brown Towhee. -- Several seen, but they kept so well to cover that I couldn't get a shot. The sharp "chirp" was heeded by other birds who flocked to cover whenever it was given.

The following birds were taken.

913 ♂ ad. Nuttall Woodpecker. Kept as a rule to the higher branches of the cottonwoods.

914. ♂ ad. Western Meadowlark.

915 ♀ im. Western Bluebird.

916 ♂ im. Song Sparrow. Found in the tules as well as in the willow thickets along the stream. Very difficult to get because of their shyness and difficult territory.

917 ♀ im. Song Sparrow.

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918 ♀ ad. Dwarf Hermit Thrush. A distinct surprise for it was found in a decidedly marshy area and when I shot it I thought I had another Song Sparrow.

919 ♀ im. Marsh Wren. The hardest bird to get I ever hunted.

[The page contains extremely faint, illegible text that appears to be a list or index. The text is mostly mirrored and bleed-through from the reverse side of the page. Some faint words and numbers are visible, such as "No. 1", "No. 2", "No. 3", "No. 4", "No. 5", "No. 6", "No. 7", "No. 8", "No. 9", "No. 10", "No. 11", "No. 12", "No. 13", "No. 14", "No. 15", "No. 16", "No. 17", "No. 18", "No. 19", "No. 20", "No. 21", "No. 22", "No. 23", "No. 24", "No. 25", "No. 26", "No. 27", "No. 28", "No. 29", "No. 30", "No. 31", "No. 32", "No. 33", "No. 34", "No. 35", "No. 36", "No. 37", "No. 38", "No. 39", "No. 40", "No. 41", "No. 42", "No. 43", "No. 44", "No. 45", "No. 46", "No. 47", "No. 48", "No. 49", "No. 50", "No. 51", "No. 52", "No. 53", "No. 54", "No. 55", "No. 56", "No. 57", "No. 58", "No. 59", "No. 60", "No. 61", "No. 62", "No. 63", "No. 64", "No. 65", "No. 66", "No. 67", "No. 68", "No. 69", "No. 70", "No. 71", "No. 72", "No. 73", "No. 74", "No. 75", "No. 76", "No. 77", "No. 78", "No. 79", "No. 80", "No. 81", "No. 82", "No. 83", "No. 84", "No. 85", "No. 86", "No. 87", "No. 88", "No. 89", "No. 90", "No. 91", "No. 92", "No. 93", "No. 94", "No. 95", "No. 96", "No. 97", "No. 98", "No. 99", "No. 100".]

I could hear them constantly but could never see them nor could I flush them from their tule patches. They did most of their travelling along under the over hanging tules and rare indeed was the sight of them.

- 920 ♀ im. Ruby-crowned Kinglet. Very common. It was amazing to me how nearly the call of this bird resembles that of the Vigor's Wren. I was surprised several times by this call and finally concluded that the call of this bird was less harsh than the "telegraphic" calls of the Wren.
- 921 ♂ ad. Long-eared Owl. Flushed from its roosting place in a clump of small willows. This is the first time I have noted this bird here for several years. I found the egg of this species in a Cooper Hawk's

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nest at Dry Creek, but don't remember having ever seen the bird.

From 3:00 to 4:15 P.M. I hunted at Dry Creek, a strip of riparian growth following Dry Creek thru the "hog-waller" country. Willows, oaks, cottonwoods, and Scotch Broom are the chief cover.

Took the following birds there:

- 922 ♀ ad. Nuttall Woodpecker  
 923 ♂ im. Slender-billed Nuthatch  
 924 ♀ im. Sierra Creeper  
 925 ♀ im. " "

All four were taken from the large oak trees along the bluff of the low hills to the south of the creek.

Morris Ravine, 3 mi. N Oroville, Butte Co., Calif., Dec. 25.

Spent from 12:00 to 3:30 P.M. hunting in this ravine. The sky was heavily overcast with clouds and at times the fog was quite heavy. Even so

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the country side was teeming with bird life. The following specimens were taken:

- 926 ♂ Sciurus griseus 550 - 290 - 81 - 37  
 927 ♂ im. Western House Wren

I could hear them constantly but could never see them nor could I find them from their white patches. They did most of their travelling along under the over hanging eaves and were indeed was the sight of them.

920 ♀ ad. Ruby-crowned Kinglet. Very common. It was amazing to me how nearly the call of this bird resembles that of the Vigor's Wren. I was surprised several times by this call and finally concluded that the call of this bird was less harsh than the "telegraphic" call of the Wren.

921 ♂ ad. Long-eared Owl. Flashed from its roosting place in a clump of small willows. This is the first time I have noted this bird here for several years. I found the egg of this species in a Cooper Hawk's

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nest at Dry Creek, but don't remember having ever seen the bird.

From 3:00 to 4:15 P.M. I hunted at Dry Creek, a strip of riparian growth following Dry Creek thru the "hog-walker" community. Willows, oaks, cottonwoods, and Scotch from are the chief cover.

Took the following birds there:

- 922 ♀ ad. Nuttall Woodpecker
- 923 ♀ im. Bladder-billed Nuthatch
- 924 ♀ im. Sierra Creeper
- 925 ♀ im. "
- 926 ♀ im. "

All four were taken from the large oak trees along the bluff of the low hills to the south of the creek.

Mounta Ravine, 3 mi. N Oroville, Butte Co., Calif., Dec. 23.

Spent from 12:00 to 5:30 P.M. hunting in this ravine. The day was heavily overcast with clouds and at times the fog was quite heavy. When so

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the country side was teeming with bird life. The following specimens were taken:

- 927 ♀ im. Western House Wren
- 928 ♀ Boivins Crissal
- 929 - 230 - 231 - 232

## Catalogue

- 928 ♀ ad. Hermit Thrush  
 929 ♀ ad. " "  
 930 ♀ im. Pallid Wren-tit  
 931 ♂ im. " " "  
 932 ♂ ad. Willow Downy Woodpecker  
 933 ♀ Juv. Spotted Towhee  
 934 ♂ im. " "

The following list of birds was noted:

- Calif. Bushtit. -- Several flocks. 100+  
Thurber Junco. -- In flocks. 100+  
Gambel Sparrow. -- 100+  
Plain Titmouse. -- Most widely spread of the birds. 50+  
Calif. Jay. -- 3  
Western House Wren -- 10+  
Spotted Towhee. -- 300+  
Brown Towhee. -- 50+  
Calif. Woodpecker. -- 20+  
Red-shafted Flicker. -- 10+  
Western Bluebird. -- 8  
Steller Jay. -- 2  
Hermit Thrush. -- 3

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- Pallid Wren-tit 10+  
 Ruby-crowned Kinglet 50+  
 Sierra Creeper 2  
 Cassin Vireo 1  
 Western Red-tail 1  
 Brewer Blackbird 40+  
 House Finch 20+  
 Varied Thrush 2  
 Audubon Warbler 5+

The mammals noted were three Lepus californicus and one Sciurus griscens; the latter was taken.

20 mi. S Coyles, Nevada, May 27, 1934

- 521 ♂ Marmota flaviventris 443-140-85-24  
 522 ♀ " " 425-120-85-31  
 523 ♀ " " 442-126-70-30+  
 524 ♂ Microtus montanus 181-44-25-14  
 525 ♂ " " 175-50-21-13  
 526 ♀ " " 155-40-20-14

- 933 ♀ ad. Hermit Thrush
- 934 ♀ ad. "
- 935 ♀ im. Pallid Wren-tit
- 936 ♀ im. "
- 937 ♀ ad. Willow Downy Woodpecker
- 938 ♀ juv. Spotted Towhee
- 939 ♀ im. "

The following list of birds was noted:

- Calif. Quail. -- Several flocks. 100+
- Thrush. -- In flocks. 100+
- Gambel Sparrow. -- 100+
- Plain Titmouse. -- Most widely spread of the birds. 50+
- Calif. Jay. -- 3
- Western House Wren. -- 10+
- Spotted Towhee. -- 300+
- Brown Towhee. -- 30+
- Calif. Woodpecker. -- 20+
- Red-shafted Flicker. -- 10+
- Western Bluebird. -- 8
- Stellar Jay. -- 2
- Hermit Thrush. -- 3

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- Pallid Wren-tit 10+
  - Ruby-crowned Kinglet 50+
  - Sierra Creeper 2
  - Cassin Vireo 1
  - Western Red-tail 1
  - Western Blackbird 40+
  - House Finch 30+
  - Varied Thrush 2
  - Audubon Warbler 5+
- The mammals noted were three lepus californicus and one Sorex eriscens; the latter was taken.

## Catalogue

(p. 1)

4 mi. W Donner Summit, Calif., May 24, 1934

- 500 ♂ Cyanocitta stelleri  
 501 ♀ " "  
 513 ♀ Ochotona princeps 195- ? -31-25

6 mi. N Fernley, Nevada, May 25, 1934

- 3 emb x 2  
 503 ♀ Dipodomys ordii 240-126-39-13  
 504 ♂ " " 237-135-36-13  
 505 ♂ " " 239-137-38-13  
 506 ♀ " " 3 emb x 3 252-138-37-13  
 507 ♀ " " 4 emb x 2 237-135-35-13  
 508 ♀ " " 4 emb x 2 236-135-36-13  
 509 ♂ Dipodomys desertii 365-212-58-17  
 510 ♂ " " 347-200-57-17  
 511 ♂ Onychomys 137- 48-19-16  
 512 ♀ Perognathus nevadensis 130- 70-17- 6  
 514 Crotalus  
 515 ♂ Red-winged Blackbird  
 516 ? Perognathus nevadensis (Taken from stomach of #514)  
 skull only

10 mi. N Elko, Nevada, May 26, 1934

- 517 ♂ Eutamias minimus 176- 80-27-12

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Jack Creek, 10 mi. S Deep Creek, Nevada, May 26, 1934

- 518 ♀ Citellus oregonus 240- 48- 44- 15  
 519 ♀ " " 255- 57- 40- 16  
 520 ♂ " " 255- 61- 46- 16

20 mi. S Owyhee, Nevada, May 27, 1934

- 521 ♂ Marmota flaviventer 443-140-68-29  
 522 ♀ " " 425-120-63-31 + skeleton  
 523 ♂ " " 442-126-70-30  
 524 ♂ Microtus montanus 161- 44-20-14  
 525 ♂ " " 175- 50-21-13  
 526 ♂ " " 155- 40-20-14

Cataglyphes

(p. 1)

4 mi. W Donner Summit, Calif., May 24, 1934

5008	<u>Cyanocitta stelleri</u>	
5010	"	
5130	<u>Cebastota princeps</u>	193-1-31-35

8 mi. N Terrey, Nevada, May 25, 1934

5030	<u>Dipodomys ordii</u>	240-135-32-13
5040	"	237-135-32-13
5050	"	232-137-32-13
5080	"	330-135-37-13
5070	"	237-135-32-13
5080	"	232-135-32-13
5090	<u>Dipodomys deserti</u>	325-212-32-17
5100	"	247-200-27-17
5110	<u>Onychomys</u>	137-45-19-18
5120	<u>Perognathus nevadensis</u>	130-70-17-8

5130 Perognathus nevadensis (Taken from stomach of #514)

10 mi. N Elko, Nevada, May 28, 1934

5170	<u>Reithrognathus</u>	178-80-27-13
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(p. 2)

Jack Creek, 10 mi. S Deep Creek, Nevada, May 28, 1934

5180	<u>Citellus oregonus</u>	240-48-44-15
5190	"	235-57-40-18
5200	"	238-61-48-18

20 mi. S Owyhee, Nevada, May 27, 1934

5210	<u>Marmota flaviventris</u>	443-140-68-29
5220	"	425-120-63-31
5230	"	443-128-70-30
5240	<u>Microtus montanus</u>	181-44-30-14
5250	"	175-50-21-13
5260	"	158-40-20-14



527 ♀	<u>Microtus montanus</u>	162-45-19-14
528 ♀	" "	154-40-20-13
529 ♂	<u>Peromyscus maniculatus</u>	141-60-19-17

Elko, Nevada, May 26, 1934

530 ♂	Arkansas Kingbird	
531 ♂	Western Lark Sparrow	
532 ♀	Mountain Bluebird (Brooding bird)	
533 ♂	Western Meadowlark.	

20 mi. S. Owyhee, Nevada, May 27, 1934

534 ♀	Microtus montanus	152-40-18-12	4 emb x 15
535 ♀	" "	<del>145-28</del> -18-14	

(p. 3)

39 mi. N. Elko, Nevada, May 26, 1934

536 ♂	Macgillivray Warbler.	
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20 mi. S. Owyhee, Nevada, May 26, 1934

537 ♀	Redwing Blackbird	
538 ♀	" "	

20 mi. S Owyhee, Nevada, May 27, 1934

539 ♂	Poorwill	
540 ♂	Chat	
541 ♀	Redwing Blackbird	
542 ♀	" "	

20 mi. S Owyhee, Nevada, May 28, 1934

543 ♂	Chat (Looks like brooding bird)	
544 ♀	<u>Peromyscus m. sonoriensis</u>	158-70-20-17
545 ♀	<u>Microtus montanus</u>	137-30-17-10
546 ♀	" "	153-37-18-10
547	Set of 4 eggs of Swainson Hawk (2 broken)	

10 mi. S Owyhee, Nevada, May 28, 1934

548 ♂	<u>Citellus mollis oregonus</u>	205-40-42-16 +skel.
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527 Microtus montanus 182-45-19-14  
 528 " " 184-40-20-13  
 529 Peromyscus maniculatus 141-30-19-17

Niko, Nevada, May 28, 1934

530 Arkansas Kingbird  
 531 Western Lark Sparrow  
 532 Mountain Bluebird (Brooding bird)  
 533 Western Meadowlark

20 mi. S. Owyhee, Nevada, May 27, 1934

534 Microtus montanus 182-40-18-15  
 535 " " 143-29-13-14

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20 mi. N. Niko, Nevada, May 28, 1934

536 Macgillivray Warbler

20 mi. S. Owyhee, Nevada, May 28, 1934

537 Redwing Blackbird  
 538 " "

20 mi. S. Owyhee, Nevada, May 27, 1934

539 Poorwill  
 540 Chat  
 541 Redwing Blackbird  
 542 " "

20 mi. S. Owyhee, Nevada, May 28, 1934

543 Chat (looks like brooding bird)  
 544 Peromyscus m. sonoriensis 188-70-20-18  
 545 Microtus montanus 137-30-17-10  
 546 " " 123-37-18-10  
 547 Set of 4 eggs of Swainson Hawk (2 broken)

10 mi. S. Owyhee, Nevada, May 28, 1934

548 Citellus mollis 208-40-43-18

Owyhee, Nevada, May 28, 1934549 ♀ Citellus mollis oregonus 270-68-38-13

(p. 4)

6 mi. S Riddle, Owyhee Co., Idaho, May 28, 1934550 ♂ Citellus oregonus 245-65-42-161 mi. S Riddle, Owyhee Co., Idaho, May 28, 1934551 ♀ Citellus oregonus 280-85-42-16

552 ♀ " " 268-68-42-16

553 ♂ Eutamias minimus 180-80-28-14554 ♀ Sylvilagus idahoensis 295-12-72-50 6 emb x 60555 ♀ Wilson Phalarope

556 ♂ " "

557 ♀ " " (Skeleton only)

558 ♂ Citellus oregonus (very fat)  
Skin only -- E.T. Hooper, Oct. 2, 19341 mi. S Riddle, Owyhee Co., Idaho, May 29, 1934559 ♂ Wilson Phalarope

560 ♀ " "

561 ♀ " "

562 ♀ " "

563 ♀ " "

564 ♂ Cinnamon Teal9 mi. S Riddle, Owyhee Co., Idaho, May 28, 1934565 ♀ Black Tern

566 ♀ " "

567 ♂ Yellowheaded Blackbird (Skeleton only)

(p. 5)

9 mi. S Riddle, Owyhee Co., Idaho, May 28, 1934568 ♀ Yellowheaded Blackbirds (Skeleton only)569 ♀ Black-crowned Night Heron

Section 1: General Information

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Page 1

Section 2: Detailed Description

Item 1: \_\_\_\_\_

Section 3: Additional Notes

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Section 4: Summary

Item 9: \_\_\_\_\_

Item 10: \_\_\_\_\_

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Item 13: \_\_\_\_\_

Section 5: Final Remarks

Item 14: \_\_\_\_\_

Item 15: \_\_\_\_\_

Page 2

Section 6: Appendix

Item 16: \_\_\_\_\_

Item 17: \_\_\_\_\_

Owyhee, Nevada, May 28, 1934

570 ♂ Sage Thrasher

8 mi. S Riddle, Owyhee Co., Idaho, May 28, 1934

571 ♂ Brewer Sparrow

1 mi. S Riddle, 5300 ft., Owyhee Co., Idaho, May 30.

572 ♀ Western Willet

573 ♂ " "

574 ♂ " "

575 ♀ " "

576 ♂ Citellus oregonus ← (Plus skull)577 ♀ Sylvilagus idahoensis 300-70-49-30 6 emb x 701 mi. S Riddle, 5300 ft., Owyhee Co., Idaho, May 31.578 ♂ Peromyscus maniculatus 164-70-19-17

579 ♂ " " 173-74-19-17

580 ♂ " " 172-73-19-17 (Flat skin)

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1 mi. S Riddle 5300 ft., Owyhee Co., Idaho, May 31581 ♂ Peromyscus maniculatus 162-68-19-17

582 ♀ " " 165-75-20-17

583 ♀ " " 165-68-18-17

584 ♀ " " 173-76-19-19

585 ♀ Eutamias 195-90-29-14

586 ♀ " 190-85-29-14

587 ♀ Wilson Phalarope (Skeleton only)

1 mi. S Riddle, 5300 ft., Owyhee Co., Idaho, May 30

588 ♀ Vesper Sparrow

589 ♂ Wilson Phalarope

590 ♂ Vesper Sparrow

591 ♂ " "

592 ♂ Savanna Sparrow

593 ♂ Wilson Phalarope (Skeleton only)

594 ♀ " " " "

595 ♂ Yellow Warbler

596 ? Sage Grouse (Juvenile)

Owyhee, Nevada, May 28, 1934

570 Sage Thrasher

1 mi. S Riddle, Owyhee Co., Idaho, May 28, 1934

571 Brewer Sparrow

1 mi. S Riddle, 5300 ft., Owyhee Co., Idaho, May 30.

572 Western Willet

" " "

" " "

" " "

" " "

573 Citellus oregonus

574 Sylvilagus idahoensis

300-70-49-30 6 emb x 70

1 mi. S Riddle, 5300 ft., Owyhee Co., Idaho, May 31.

575 Peromyscus maniculatus

164-70-18-17

" " "

178-74-18-17

" " "

178-73-18-17 (flat skin)

" " "

(p. 8)

1 mi. S Riddle 5300 ft., Owyhee Co., Idaho, May 31

581 Peromyscus maniculatus

162-68-18-17

" " "

163-75-20-17

" " "

165-68-18-17

" " "

173-78-18-19

" " "

183-90-22-14

" " "

180-83-22-14

" " "

582 Wilson Phalarope (Skeleton only)

1 mi. S Riddle, 5300 ft., Owyhee Co., Idaho, May 30

583 Vesper Sparrow

584 Wilson Phalarope

585 Vesper Sparrow

" " "

586 Savanna Sparrow

587 Wilson Phalarope (Skeleton only)

" " "

588 Yellow Warbler

589 Sage Grouse (juvenile)

1 mi. S Riddle, 5300 ft., Owyhee Co., Idaho, May 31

- 597 ♂ Rack Wren  
 598 ♀ Vesper Sparrow

(p. 7)

1 mi. S Riddle, 5300 ft., Owyhee Co., Idaho, June 1

- 599 ♀ Green-winged Teal (Brooding bird)  
 600 ♂ Redwing Blackbird  
 601 ♂ " "  
 602 ♂ " "  
 603 ♀ " "  
 604 ♀ " "  
 605 ♀ " "  
 606 ♀ " "  
 607 ♀ Vesper Sparrow  
 608 ♂ Green-tailed Towhee  
 609 ♂ Peromyscus maniculatus 175-72-19-17  
 610 ♀ Thomomys 178-60-26-4  
 611 " "  
 612 " "  
 613 Eutamias minimus  
 614 Tree Toad (Formalin)  
 615 Lower jaw of small carnivore (Pick up)  
 616 Broken skull of Marmot  
 617 Part of skull of some carnivore (2 pieces--same no.)

Indian Creek, 2 mi. SW Riddle, 5500 ft., Owyhee Co., Idaho, June 2, 1934

- 618 ♀ Vesper Sparrow (skel only)  
 619 ♂ Night hawk  
 620 ♂ Song Sparrow  
 621 ♂ " "

(p. 8)

- 622 ♀ Eutamias skin only 180-73-29-13  
 623 ♀ Citellus oregonus 281-60-42-17  
 624 ♀ " " 256-65-40-17  
 625 ♂ Fox Sparrow  
 626 ♀ West. Wood Pewee  
 627 ♂ Song Sparrow  
 628 Thamnophis

I. Mt. S. Hillside, 5250 ft., Wayne Co., Idaho, May 31

897 ♀ Rock Wren  
898 ♀ Vesper Sparrow

(p. 7)

I. Mt. S. Hillside, 5250 ft., Wayne Co., Idaho, May 31

899 ♀ Green-winged Teal (moulted bird)  
900 ♀ Redwing Blackbird  
901 " "  
902 " "  
903 " "  
904 " "  
905 " "  
906 " "

907 ♀ Vesper Sparrow  
908 ♀ Green-tailed Towhee  
909 *Thryomanes bewickii* 175-15-10-17  
910 *Thryomanes* 175-15-10-17

911 " "  
912 " "  
913 *Sialia mexicana*  
914 ♀ Tree Toad (larva)  
915 lower jaw of small carnivore (skel. v.)  
916 broken skull of bat  
917 part of skull of small carnivore (S. sp. - same no.)

Indian Creek, S. Mt. S. Hillside, 5250 ft., Wayne Co., Idaho, June 2, 1924

918 ♀ Vesper Sparrow  
919 ♀ Kinglet  
920 ♀ Song Sparrow  
921 " "

(p. 8)

922 ♀ *Ardea herodias* 180-75-25-15  
923 ♀ *Vireo gilvus* 251-60-15-17  
924 " " 255-85-15-17  
925 ♀ Fox Sparrow  
926 ♀ West. Wood Pewee  
927 ♀ Song Sparrow  
928 *Thryomanes*



Indian Creek, 2 mi. SE Riddle, 5500 ft., Owyhee Co., Idaho, June 2, 1934

- 629 ♂ Violet-green Swallow *skel. only*  
 630 ♂ Yellow Warbler  
 631 ♀ " "  
 632 ♂ Black-throated Gray Warbler  
 633 ♂ Cassin Purple Finch  
 634 ♀ Western Wood Pewee  
 635 ♂ Brewer Sparrow

1 mi. N. Riddle, 5300 ft., Owyhee Co., Idaho, June 3

- 636 ♂ Redwing Blackbird  
 637 ♂ " "

10 mi. N. Riddle, Owyhee Co., Idaho, June 3, 1934

- 638 ♀ Horned Lark

30 mi. N Riddle, Owyhee Co., Idaho, June 3, 1934

- 639 ♂ Horned Lark

34 mi. N Riddle, Owyhee Co., Idaho, June 3, 1934

- 640 ♂ Horned Lark

- 641 ♂ *Dipodomys ordii* (p. 9)

7 mi. S Bruneau, Owyhee Co., Idaho, June 3, 1934

- 641 Crotophytus

- 642 ♀ Lepus californicus skull only

5 mi. S Mountain Home, Elmore Co., Idaho, June 3, 1934

Skull only

- 643 ♀ Lepus californicus (Skaleton only)

- 644 ♀ " "

- 645 ♀ " "

- 646 ♀ " "

- 647 ♀ " "

Skin skel. E.T. Hooper - Oct. 3, 1934(?)

- 648 ♂ Citellus mollis idahoensis 193-33-33

- 649 ♂ " " " 231-38-38

- 650 ♂ " " " 231-44-37

Indian Creek, 8 mi. SE Riddle, 5800 ft., Owyhee Co., Idaho, June 3, 1934

- 639 ♂ Violet-green Swallow
- 630 ♀ Yellow Warbler
- 631 ♀ " "
- 632 ♀ Black-throated Gray Warbler
- 633 ♀ Cassin Purple Finch
- 634 ♀ Western Wood Pewee
- 635 ♀ Brewer Sparrow

1 mi. N. Riddle, 5800 ft., Owyhee Co., Idaho, June 3

- 636 ♀ Redwing Blackbird
- 637 ♀ " "

10 mi. N. Riddle, Owyhee Co., Idaho, June 3, 1934

- 638 ♀ Horned Lark

30 mi. N Riddle, Owyhee Co., Idaho, June 3, 1934

- 639 ♀ Horned Lark

34 mi. N Riddle, Owyhee Co., Idaho, June 3, 1934

- 640 ♀ Horned Lark

(p. 9)

7 mi. S Brunson, Owyhee Co., Idaho, June 3, 1934

- 641 Crotophyaga
- 642 ♀ Lanius californicus (skull only)

5 mi. S Mountain Home, Elmore Co., Idaho, June 3, 1934

- 643 ♀ Lanius californicus (skull only)
- 644 ♀ " "
- 645 ♀ " "
- 646 ♀ " "
- 647 ♀ " "

Skull skel E.T. Hooper - Oct. 3, 1934(?)

- 648 ♀ Citellus mollis idahoensis 193-33-38
- 649 ♀ " " 231-36-38
- 650 ♀ " " 231-44-37

5 mi. S Mountain Home, Elmore Co., Idaho, June 3, 1934

651 ♀	<u>Citellus mollis idahoensis</u>	212-42-31
652 ♂	" " "	215-47-35
653 ♀	" " "	217-40-35
654 ♀	<u>Eutamias</u>	179-83-30-15
Skin only - E.T. Hooper - Oct. 2, 1934		
655 ♂	<u>Eutamias</u>	175-80-27-15
656 ♂	"	173-82-27-15
658 ♂	"	160-75-29-14
659 ♀	"	180-85-31-16

5 mi. N Bruneau, Owyhee Co., Idaho, June 3, 1934

657	<u>Ammospermophilis</u>	135-40-32- 9 (yg)
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(p. 10)

4 mi. N Rupert, Minidoka Co., Idaho, June 4, 1934

Skull only

660 ♂	<u>Lepus californicus</u>	
661 ♀	" "	
662 ♀	" "	
663 ♀	" "	517-80-116-120

4 mi. N Rupert, 4300 ft., Minidoka Co., Idaho, June 5

664 ♂	<u>Dipodomys ordii</u>	265-150-42-12
665 ♀	<u>Perognathus parvus</u> (5 emb x 5)	169- 86-21- 8
666 ♀	<u>Eutamias</u>	190- 90-28-15
667 ♂	<u>Dipodomys ordii</u>	247-139-41-13
668 ♂	<u>Peromyscus maniculatus</u>	162- 68-20-18
669 ♀	<u>Citellus mollis</u>	205-41-31

9 mi. S Mountain Home, Elmore Co., Idaho, June 3, 1934

Skel only

670 ♂	Western Red-tail (Skeleton only)	
Crop & stomach filled with lizards. No other food found.		

(p. 11)

5 mi. S Rupert, 4300 ft., Minidoka Co., Idaho, June 5

671 ♂	Song Sparrow	
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5 mi. S Mountain Home, Elmore Co., Idaho, June 3, 1934

531 ♀	<u>Citellus mollis idahoensis</u>	519-42-31
532 ♀	" "	518-47-33
533 ♀	" "	517-40-33
534 ♀	<u>Peromyscus</u>	179-83-30-13
Skin only - E.T. Hooper - Oct. 8, 1934		
535 ♀	<u>Peromyscus</u>	175-80-27-13
536 ♀	" "	173-82-27-13
537 ♀	" "	160-73-23-14
538 ♀	" "	180-83-31-13

5 mi. N Brunson, Owyhee Co., Idaho, June 3, 1934

537	<u>Amphispemophilus</u>	135-40-33-9 (Vg)
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(p. 10)

4 mi. N Rupert, Minidoka Co., Idaho, June 4, 1934

539 ♀	<u>Peromyscus</u>	517-80-113-130
540 ♀	<u>Peromyscus</u>	" "
541 ♀	" "	" "
542 ♀	" "	" "
543 ♀	" "	" "

4 mi. N Rupert, 4300 ft., Minidoka Co., Idaho, June 5

544 ♀	<u>Dipodomys ordii</u>	285-150-43-13
545 ♀	<u>Perognathus parvus</u> (2 emb x 2)	199-86-31-9
546 ♀	<u>Peromyscus</u>	190-90-23-13
547 ♀	<u>Dipodomys ordii</u>	247-139-41-13
548 ♀	<u>Peromyscus maniculatus</u>	183-68-20-13
549 ♀	<u>Citellus mollis</u>	305-41-31

9 mi. S Mountain Home, Elmore Co., Idaho, June 3, 1934

Skull only  
 550 ♀ Western Red-tail (Skelton only)  
 Crop & stomach filled with lizards. No other food found.

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5 mi. S Rupert, 4300 ft., Minidoka Co., Idaho, June 5

551 ♀ Song Sparrow

6 mi. S Rupert, Cassia Co., Idaho, June 5, 1934

672 ♂	Song Sparrow	
673 ♂	<u>Citellus oregonus</u>	246-68-43-15
674	" "	
675	" "	

Skel. only

676 ♀	Yellow-headed Blackbird	
677 ♂	<u>Recurvirostra americana</u>	

Acequia, Minidoka Co., June 5, 1934

Skull only

678 ♀	<u>Lepus californicus</u>	389-45-115-110
679 ♂	" "	500-80-130-122
680 ♀	" "	475-85-130-135
681 ♀	" "	470-85-135-130
682 ♀	" "	460-60-130-125
683 ♀	" "	465-80-135-120

Acequia, Minidoka Co., Idaho, June 6, 1934

684 ♂	<u>Dipodomys ordii</u>	258-144-41-13
685 ♀	<u>Dipodomys ordii</u>	260-146-40-13
686 ♂	" "	255-143-41-14
687 ♂	" "	238-139-39-13
688 ♂	" "	243-137-41-13

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689 ♀	" "	233-137-39-13
690 ♀	" "	236-137-40-13
691 ♀	" "	232-127-39-13
692 ♀	<u>Citellus mollis</u>	197-50-30
693	<u>Scaphiotes</u>	

5 mi. N Rupert, Minidoka Co., Idaho, June 6, 1934

694 ♂	<u>Citellus mollis</u>	191-44-31
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Skull only

695	<u>Lepus californicus</u>	
696	" "	
697	" "	
698	" "	
699	" "	
700	" "	

6 mi. S Rupert, Cassia Co., Idaho, June 5, 1934

872	♂	Song Sparrow	
873	♀	<u>Citellus oregonus</u>	245-88-43-15
874	"	"	
875	"	"	
		Skel. only	
876	♀	Yellow-headed Blackbird	
877	♂	<u>Recurvirostra americana</u>	

Agassiz, Minidoka Co., June 5, 1934

878	♀	<u>Lepus californicus</u>	382-45-115-110
879	♀	"	500-80-130-122
880	♀	"	475-85-130-125
881	♀	"	470-85-135-130
882	♀	"	460-80-130-125
883	♀	"	455-80-135-130

Agassiz, Minidoka Co., Idaho, June 5, 1934

884	♀	<u>Dipodomys ordii</u>	338-144-41-13
885	♀	<u>Dipodomys ordii</u>	330-143-40-13
886	♀	"	335-143-41-14
887	♀	"	332-139-39-13
888	♀	"	343-137-41-13

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889	♀	"	333-137-39-13
890	♀	"	336-137-40-13
891	♀	"	332-137-39-13
892	♀	<u>Citellus mollis</u>	127-80-30
893	♀	<u>Scaphiopus</u>	

6 mi. N Rupert, Minidoka Co., Idaho, June 6, 1934

894	♀	<u>Citellus mollis</u>	191-44-31
		Skel. only	
895	♀	<u>Lepus californicus</u>	
896	"	"	
897	"	"	
898	"	"	
899	"	"	
900	"	"	

6 mi. S Rupert, Cassia Co., Idaho, June 5, 1934

Skull only

701 ♀ Lepus californicus2 mi. E Acequia, Minidoka Co., June 6, 1934.702 ♂ Microtus 170-45-20-12

703 ? " 140-44-20-10

704 Sylvilagus

705 " "

706 ♀ " 330-35-88-65

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707 ♀ " " 315-35-89-60

708 ♀ " " 338-35-90-62

Skull only

709 ? Skunk (Skunk skull pick up)

2 mi. E Acequia, Minidoka Co., Idaho, June 7, 1934710 ♀ Thomomys 188-59-24- 6

711 ♀ " 200-65-24- 6

712 ♂ Marmota 510-135-85-32713 ♂ " ~~526-95-80-32~~

714 ♂ " 585-140-80-32

Skull only-E.T. Hooper Oct. 1, 1934

715 ♀ Microtus 141-43-19-13

Skull only

716 ♂ Marmota (Skull only)2 mi. E Acequia, Minidoka Co., Idaho, June 8, 1934717 ♀ Sylvilagus 350-35-90-60

718 ♂ " 352-35-95-65

719 ♀ Thomomys 183-58-23- 6

720 ♀ " 205-57-23- 7

721 ♀ " 198-60-21- 6

722 ♂ Shrike

723 ♂ Red-wing Blackbird

724 ♀ " "

3 mi. E Rupert, Cassia Co., Idaho, June 5, 1934

701? Lepus californicus Skull only

3 mi. E Ascuta, Minidoka Co., June 8, 1934

702? Microtus  
 703? "  
 704 Sylvilagus  
 705 "  
 706? "

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707? "  
 708? "

709? Skunk (Skunk skull pick up) Skull only

3 mi. E Ascuta, Minidoka Co., Idaho, June 7, 1934

710? Thomomys  
 711? "  
 712? Marmota  
 713? "  
 714? "

Skull only - E.T. Hooper Oct. 1, 1934

715? Microtus

716? Marmota (Skull only) Skull only

3 mi. E Ascuta, Minidoka Co., Idaho, June 8, 1934

717? Sylvilagus  
 718? "  
 719? Thomomys  
 720? "  
 721? "

722? Strika  
 723? Red-wing Blackbird  
 724? "



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2 mi. E Acequia, Minidoka Co., Idaho, June 8, 1934

725 ♀ Red-wing Blackbird

726 ♀ " "

727 ♂ " "

728 ♂ " "

729 ♂ " "

730 ♂ " "

Skull only

731 ♀ Marmota 535-145-70-29

732 ♂ " 565-140-74-30

734 ? Canis latrans (Pick up)

Yankee Hill, Butte Co., Calif., May 16, 1934

Skull only

733 ? Canis latrans (Pick up)

4 mi. NW Paul, Minidoka Co., Idaho, June 10, 1934

Skull only

735 ♀ Lepus californicus

736 ♀ " "

737 ♀ " "

738 ♀ " "

739 ♀ " "

740 ♀ " "

741 ♀ " "

742 ♀ " "

743 ♀ " "

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744 " "

745 " "

746 " "

747 " "

4 mi. SE Albion, Cassia Co., Idaho, June 11, 1934

748 ♀ Citellus oregonus 280-75-44-15

749 ♀ " " 282-72-43-16

750 ♂ " " 283-68-46-18

751 ♀ " " 280-65-42-16

752 ♀ " " + skel 280-72-40-17

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2 mi. E Ascutia, Minidoka Co., Idaho, June 8, 1934

735 ♀	Red-wing blackbird	
736 ♀	"	
737 ♀	"	
738 ♀	"	
739 ♀	"	
740 ♀	"	
741 ♀	Marmots	535-145-70-22
742 ♀	"	535-140-74-30
743 ♀	Canis latrans	(Pick up)
744 ♀	Skull only	

Yankee Hill, Butte Co., Calif., May 18, 1934

735 ♀	Canis latrans	(Pick up)
736 ♀	Skull only	

4 mi. NW Paul, Minidoka Co., Idaho, June 10, 1934

735 ♀	Lepus californicus	Skull only
736 ♀	"	
737 ♀	"	
738 ♀	"	
739 ♀	"	
740 ♀	"	
741 ♀	"	
742 ♀	"	
743 ♀	"	

(p. 15)

744 ♀	"	
745 ♀	"	
746 ♀	"	
747 ♀	"	

4 mi. SE Albion, Cassia Co., Idaho, June 11, 1934

748 ♀	Citellus oregonus	280-75-44-18
749 ♀	"	283-75-43-18
750 ♀	"	283-88-48-18
751 ♀	"	280-85-43-18
752 ♀	"	280-78-40-17

4 mi. SE Albion, Cassia Co., Idaho, June 11, 1934

753 ♂	<u>Citellus oregonus</u>	+ skel	284-74-44-18
754 ♀	"	"	272-65-42-15
755 ♀	"	"	284-72-42-16
756 ♀	"	+ skel	306-80-46-15

3 $\frac{1}{2}$  mi. ENE Rupert, Minidoka Co., Idaho, June 13, 1934

757 ♂	Savannah Sparrow
758 ♂	" "

Snake River, 4 mi. E Rupert, Minidoka Co., Idaho, June 13

759 ♀	Red-winged Blackbird
760 ♀	" "
761 ♀	Flycatcher (Traill.) <u>brewsteri</u>
762 ♂	Red-winged Blackbird
763 ♂	" "

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3 $\frac{1}{2}$  mi. S Declo, Cassia Co., Idaho, June 14, 1934

764 ♂	Horned Lark	
765 ♀	" "	
766 ♀	<u>Citellus</u>	<u>Mollis mollis</u> 195-40-30
	Skin only	197-40-32
767 ♂	<u>Citellus</u>	" " "

4 mi. S Albion, Cassia Co., Idaho, June 14, 1934

768 ♂	<u>Citellus</u>	270-65-41-16
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Elba, Cassia Co., Idaho, June 14

769 ♀	Redwing Blackbird	
770 ♂	" "	
771 ♂	Song Sparrow	
772 ♂	Flycatcher	
773 ♀	Yellow Warbler	
774 ♂	<u>Sylvilagus</u>	378-50-100-65

Elba, Cassia Co., Idaho, June 15

775 ♂	<u>Microtus</u>	<u>M. nanus</u> 160-45-19-13
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4 mi. SE Abilton, Cassia Co., Idaho, June 11, 1934

753	♂	<u>Citellus oregonus</u>	+ anal	284-74-44-18
754	♀	"	"	272-65-42-18
755	♀	"	"	284-72-42-18
756	♀	"	+ anal	305-80-42-18

3 1/2 mi. ENE Rupert, Minidoka Co., Idaho, June 13, 1934

757	♂	Savannah Sparrow		
758	♀	"	"	

Snake River, 4 mi. E Rupert, Minidoka Co., Idaho, June 13

759	♀	Red-winged Blackbird		
760	♀	"	"	
761	♀	Pycnopterus (Traili.) brewsteri		
762	♀	Red-winged Blackbird		
763	♀	"	"	

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3 1/2 mi. S Declo, Cassia Co., Idaho, June 14, 1934

764	♂	Horned Lark		
765	♀	"	"	
766	♀	<u>Citellus mollis mollis</u>		195-40-30
		Skin only		197-40-32
767	♀	<u>Citellus</u>	"	

4 mi. S Abilton, Cassia Co., Idaho, June 14, 1934

768	♀	<u>Citellus</u>		270-62-41-18
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Hils, Cassia Co., Idaho, June 14

769	♀	Redwing Blackbird		
770	♀	"	"	
771	♀	Song Sparrow		
772	♀	Pycnopterus		
773	♀	Yellow Warbler		
774	♀	<u>Sylvianus</u>		278-50-100-55

Hils, Cassia Co., Idaho, June 15

775	♀	<u>Microtus r. nanus</u>		180-42-12-13
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Elba, Cassia Co., Idaho, June 15

776 ♂	<u>Microtus</u>	16Q-45-19-13
777 ♀	Song Sparrow	
778 ♂	" "	
779 ♂	Bobolink	
780 ♂	" "	
781 ♀	" Sparrow	
782 ♂	"	
783 ♂	" Skel. only	
784 ♀	Savannah Sparrow	
785 ♀	Redwing Blackbird	

808 Pituophis (p. 17)

786 ♂	Savannah Sparrow	
787 ♂	Redwing Blackbird	
788 ♂	Wilson Phalarope	
789 ♂	" "	
790 ♀	" "	
	Skel only	
791 ♂	<u>Lanius townsendii</u>	

Elba, Cassia Co., Idaho, June 16

792 ♀	<u>Microtus</u>	150-40-19-13
793 ♂	" "	150-37-18-13
	Skel. only	
794 ♀	Sparrow Hawk	
795 ♂	" "	
796	<u>Thamnophis</u>	
797 ♀	<u>Myotis</u> 1 emb x 10 mm.	
	Skel. only	
798 ♀	Nighthawk (fully developed egg in uterus)	

Elba, Cassia Co., Idaho, June 17

799 ♂	<u>Microtus</u>	155-44-18-11
800 ♂	West. Warbling Vireo	
801 ♂	Flycatcher	

4 mi. W Elba, Cassia Co., Idaho, June 17

802 ♂	<u>Citellus</u>	267-74-43-16
803 ♂	"	264-68-43-15

Alpa, Cassia Co., Idaho, June 18

776 Microtus  
 777 Song Sparrow  
 778 " "  
 779 Bobolink  
 780 " "  
 781 " "  
 782 " "  
 783 " "  
 784 Savannah Sparrow  
 785 Redwing Blackbird

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786 Savannah Sparrow  
 787 Redwing Blackbird  
 788 Wilson Phalarope  
 789 "  
 790 "  
 Skel only  
 791

Alpa, Cassia Co., Idaho, June 18

792 Microtus  
 793 "  
 Skel. only  
 794 Sparrow Hawk  
 795 " "  
 796 Thomomys  
 797 Myotis 1 emb x 10 mm.  
 Skel. only  
 798 Nighthawk (fully developed egg in uterus)

Alpa, Cassia Co., Idaho, June 17

799 Microtus  
 800 West Winding Vireo  
 801 Flycatcher

4 mi. W Alpa, Cassia Co., Idaho, June 17

802 Citellus  
 803 "

4 mi. W Elba, Cassia Co., Idaho, June 17, 1934

Skull only

804 ♂ Citellus *minimus scutator* 260-75-41-15

805 ♀ " " 262-68-41-14

806 ♀ Lazuli Bunting

807 ♀ Vesper Sparrow

(p. 18)

8 mi. N Elba, Cassia Co., Idaho, June 17, 1934808 PituophisSmall, 8 mi. NW Dubois, Idaho, June 19, 1934809 ♂ Citellus 265-70-43-15

810 ♂ " " 285-75-41-15

811 ♀ " " 266-75-38-13

Skull only

812 ♀ Lepus townsendii 600-110-150-110Yellowstone River, 3 mi. below Fishing Bridge, Yellowstone Nat'l Park, June 21, 1934813 ♀ Larus californicus (ovaries small ○)Madison Junction, Yellowstone N.P., June 23, 1934814 ♀ Citellus armatus 298-75-40-13Swan Lake, Yellowstone N.P. Wyo. , July 23, 1934815 ThamnophisElba, Cassia Co., Idaho, June 17, 1934816 Rana

(p. 19)

13 mi. W Rupert, Minidoka Co., Ida. Sept 20817 Crotalus

4 mi. W Elba, Cassia Co., Idaho, June 17, 1934

- 807 ♀ Vesper Sparrow
- 808 ♀ Lazuli Bunting
- 809 ♀ " "
- 810 ♀ Citellus
- 811 ♀ " "
- 812 ♀ " "
- 813 ♀ Citellus
- 814 ♀ " "
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(p. 18)

8 mi. N Elba, Cassia Co., Idaho, June 17, 1934

- 808 Pitophila
- 809 ♀ Citellus
- 810 ♀ " "
- 811 ♀ " "
- 812 ♀ " "
- 813 ♀ Lepus townsendii
- 814 ♀ " "
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Yellowstone River, 3 mi. below Fishing Bridge, Yellowstone Nat'l Park, June 21, 1934

- 813 ♀ Larus californicus (ovarian mass)
- 814 ♀ Citellus armatus
- 815 ♀ Thomomys
- 816 ♀ " "
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Elba, Cassia Co., Idaho, June 17, 1934

- 818 ♀ Citellus
- 819 ♀ " "
- 820 ♀ " "
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(p. 19)

13 mi. W Rupert, Minidoka Co., Ida. Sept 20

- 817 ♀ Crotalus



4 - 6 mi. N Idavada, Highway #93, Twin Falls Co.,  
Idaho, Sept. 13, 1934

- 818 ♀ Eutamias minimus scrutator 180-74-29-14 All three skin-  
819 ♀ " " " 192-91-28-15 ned & kept in  
820 ♂ " " " 174-74-27-14 30% alcohol 10  
days.

Richmond, Contra Costa Co., Calif., Sept 30

- 821 ♂ Brown (California) Towhee

5 mi. N Idaho-Nevada Line, Highway #93, Twin Falls  
County, Idaho, Sept. 13, 1934

- 822 ♂ Eutamias minimus scrutator 190-93-28-15  
(In 30% alcohol 23 days)

1 mi. N Fishing Bridge, Yellowstone Nat'l Park,  
Wyoming, June 30, 1934

- 823 ♀ Sciurus 330-124-51-25

- 824 ♀ Junco

East Oakland, Alameda Co., Calif., Oct. 7, 1934

- 825 ♂ Anna Hummingbird

- 826 ♂ Finch

El Cerrito, Contra Costa Co., Calif., Oct. 7, 1934

- 827 ♀ Spotted Towhee

- 828 ♂ Golden-crowned Sparrow

(p. 20)

Dwight Way Hill, Berkeley, Alameda Co., Calif., Oct 14

- 829 ♂ White-crowned Sparrow

- 830 ♂ Golden-crowned Sparrow

Claremont Canyon, Berkeley, Alameda Co., Calif., Oct. 14

- 831 ♀ Song Sparrow

- 832 ♂ Fox Sparrow

4 - 6 mi. N Nevada, Highway #93, Twin Falls Co., Idaho, Sept. 13, 1934

818 ♀ Eutamias minimus arizator 130-74-22-14 All three skin-  
819 ♀ " " 132-81-23-15 ned kept in  
820 ♀ " " 174-74-27-14 30% alcohol 10 days

Richmond, Contra Costa Co., Calif., Sept 30

821 ♂ Brown (California) Towhee

5 mi. N Idaho-Nevada Line, Highway #93, Twin Falls County, Idaho, Sept. 13, 1934

822 ♀ Eutamias minimus arizator 190-93-28-15  
(In 30% alcohol 23 days)

1 mi. N Fishing Bridge, Yellowstone Nat'l Park, Wyoming, June 30, 1934

823 ♀ Salix 330-124-21-25

824 ♀ Junco

East Oakland, Alameda Co., Calif., Oct. 7, 1934

825 ♀ Anna Hummingbird

826 ♀ Finch

El Cerrito, Contra Costa Co., Calif., Oct. 7, 1934

827 ♀ Spotted Towhee

828 ♀ Golden-crowned Sparrow

(p. 20)

Dwight Way Hill, Berkeley, Alameda Co., Calif., Oct 14

829 ♀ White-crowned Sparrow

830 ♀ Golden-crowned Sparrow

Claremont Canyon, Berkeley, Alameda Co., Calif., Oct. 14

831 ♀ Song Sparrow

832 ♀ Fox Sparrow

6 $\frac{1}{2}$  mi. N Idaho-Nevada Line, Highway #93, Twin Falls Co., Idaho, Sept. 13, 1934

- 833 ♀ Eutamias m. scrutator 187-85-28-13  
(Skinned & kept in 30% alcohol 36 days)

Strawberry Canyon, 1 mi. E Stadium, Berkeley, Alameda Co., Calif., Oct. 20, 1934

- 834 ♂ Pallid Wren-tit  
835 ♂ Peromyscus truei gilberti 195-100-24-21  
836 ♀ " " " 217-117-24-21  
837 ♀ Reithrodontomys 137-71-16-12  
838 ♂ " 134-70-16-12

Sage Desert, 6 mi. N Rupert, Minidoka Co., Idaho, El. 4500 ft., Sept. 16, 1934

- 839 ♂ Lepus californicus 560-98-135-126

S.F. Bay, Berkeley, Alameda Co., Calif., Oct. 28

- 840 ♀ Grebe (See notes p. 215)

(p. 21)

1 - 6 mi. N Nevada-Idaho Line, Highway #93, Twin Falls Co., Idaho, Sept. 13, 1934

- 841 ♂ Eutamias minimus scrutator #8 183-83-28-14  
842 ♀ " " " #1 165-73-27-15  
843 ♀ " " " #7 182-85-28-14  
844 ♂ " " " #4 182-83-28-15  
845 ♂ " " " #6 187-91-28-15

Bolinas Bay, Marin Co., Calif., Nov. 3, 1934

- 846 ♂ West. Belted Kingfisher  
847 ♀ Song Sparrow (Marin = gouldi)  
848 ♂ Brown Towhee  
849 ♂ White-winged Scoter  
850 ♂ Pied-billed Grebe  
851 ♀ Red Phalarope  
852 ♀ " "  
853 ♀ " "  
854 ♂ " "

8 1/2 mi. N Idaho-Nevada line, Highway #93, Twin Falls Co., Idaho, Sept. 13, 1934

833 *Buteo swainsoni* m. scriptator  
(Skinned & kept in 30% alcohol 36 days)  
187-83-23-13

Strawberry Canyon, 1 mi. N Stadium, Berkeley, Alameda Co., Calif., Oct. 20, 1934

834 *Falco* Wren-tit  
835 *Peromyscus* trunc. alberti  
836 " " "  
837 *Reithrodontomys*  
838 " "  
184-70-18-13  
137-71-18-13  
817-117-24-21  
195-100-24-21

Gate Desert, 6 mi. N Rupert, Minidoka Co., Idaho, El. 4500 ft., Sept. 16, 1934

839 *Icterus* californicus  
280-88-125-128

S.T. Bay, Berkeley, Alameda Co., Calif., Oct. 28

840 *Grube* (See notes p. 215)  
(p. 21)

1 - 6 mi. N Nevada-Idaho line, Highway #93, Twin Falls Co., Idaho, Sept. 13, 1934

841 *Buteo* minimus scriptator #8  
842 " " " #1  
843 " " " #7  
844 " " " #4  
845 " " " #6  
183-83-23-14  
186-73-27-15  
183-83-23-14  
183-83-23-13  
187-81-23-13

Holmes Bay, Marin Co., Calif., Nov. 3, 1934

846 West. Belted Kingfisher  
847 Song Sparrow (Marin = Gouldi)  
848 Brown Towhee  
849 White-winged Scoter  
850 Pied-billed Grebe  
851 Red Phalarope  
852 " "  
853 " "  
854 " "

Strawberry Canyon, Berkeley, Alameda Co., Calif., Nov. 11855 ♂ Perognathus c. californicus 220-118-28-13

856 ♂ " " " 212-110-27-12

Both these had been kept in captivity since Sept. 30, 1932.

(p. 22)

Berkeley, Alameda Co., Calif., Nov. 19, 1934

857 ♂ Audubon Warbler. Found crippled after a heavy rain. The left eye had been unjured severely and, besides this the bird could not fly. Very emaciated. Perhaps the injury preventing flight was of long standing. No bones broken.

Dwight Way Hill, Berkeley, Alameda Co., Calif., Nov 25

858 ♂ Wren-tit (Intermediate) One call of this bird sounds much like that of the Vigors Wren.

S.F. Bay, 4 mi. N Richmond, Contra Costa Co., Calif., Nov. 29, 1934

859 ♀ Pipit

860 ♀ "

861 ♂ "

862 ♂ Savannah Sparrow (Bryant Marsh Sparrow)

863 ♀ " " (nevadensis)

Both pipits and Savannah Sparrows were abundant here. The pipits were feeding on plowed ground for the most part and went to roost in the salicornia. I was there from 4:15 to nearly dark. The Savannah Sparrows were in the dense vegetation.

(p. 23)

The stomach contents of the Pipits showed they were subsisting solely on weed seeds.

The marsh there appears to be alive with rails, judging from the vociferations heard about sun down. I should estimate the Pipit population at about 200 birds.

Strawberry Canyon, Berkeley, Alameda Co., Calif., Nov. 11

858 ♂ Perognathus c. californicus  
 858 ♀ " " "  
 850-118-28-13  
 812-110-27-12  
 Both these had been kept in captivity since Sept. 30, 1934  
 (p. 23)

Berkeley, Alameda Co., Calif., Nov. 19, 1934

857 ♂ Anduson Warbler. Found crippled after a heavy rain. The  
 left eye had been injured severely and besides this the  
 bird could not fly. Very emaciated. Perhaps the injury pre-  
 venting flight was of long standing. No bones broken.

Dwight Way Hill, Berkeley, Alameda Co., Calif., Nov 22

858 ♂ Wren-tit (intermediate) One call of this bird sounds  
 much like that of the Vigors Wren.

S.F. Bay, 4 mi. N Richmond, Contra Costa Co., Calif.,  
Nov. 29, 1934

859 ♀ Pipit  
 850 ? "  
 851 ? "  
 852 ♂ Savannah Sparrow (Bryant Marsh Sparrow)  
 853 ♂ " " (nevadensis)

Both pipits and Savannah Sparrows were abundant here.  
 The pipits were feeding on plowed ground for the most  
 part and went to roost in the salicornia. I was there  
 from 4:15 to nearly dark. The Savannah Sparrows were  
 in the dense vegetation.

(p. 23)

The stomach contents of the Pipits showed they were  
 subsisting solely on weed seeds.  
 The marsh there appears to be alive with rails,  
 judging from the vociferations heard about sun down.  
 I should estimate the Pipit population at about 300  
 birds.

S.F. Bay, 4 mi. N Richmond, Contra Costa Co., Calif.,  
Nov. 30

- 864 ♂ Samuels Song Sparrow  
 865 " " "  
 866 ♂ Least Sandpiper  
 Skel. only  
 867 ♀ Least "  
 868 " " "  
 869 " " "  
 870 ♀ " " (Skel. only)  
 871 ♀ Tule Marsh Wren (paludicola)  
 872 ♀ " " " "  
 873 ♀ " " " "  
 874 ♂ Nevada Savannah Sparrow  
 875 ♂ Bryant Marsh Sparrow  
 876 ♀ Pipit (Skel. only)

(p. 24)

1 mi. E. Guerneville, Sonoma Co., Calif. Mar. 19, 1931

- 877 ♂ Sciurus griseus 582-265-79-35  
 (Collected by Marie Gramberg)

S.F. Bay, 4 mi. N Richmond, Contra Costa Co., Calif.  
Nov. 30

- 864 ♀ Samuels Song Sparrow
- 865 " " "
- 866 ♂ Least Sandpiper
- 867 ♀ Least " "
- 868 ♀ " " "
- 869 ♀ " " "
- 870 ♀ " " (Skel. only)
- 871 ♀ Tule Wren (psaltripicis)
- 872 ♀ " " "
- 873 ♀ " " "
- 874 ♀ Nevada Savannah Sparrow
- 875 ♀ Bryant Wren Sparrow
- 876 ♀ Flight (Skel. only)

(p. 24)

1 mi. E Geareville, Sonoma Co., Calif. Mar. 19, 1931

877 ♂ Sciurus harrisi  
(Collected by Marie Gramberg)  
582-265-79-36



N.B., pages, 256-259

and 270-312 were turned  
over to M. V. Z. as part of  
the result of a field trip  
during the holidays of  
1934-35 to Aloiss & the  
Santa Cruz Mountains.

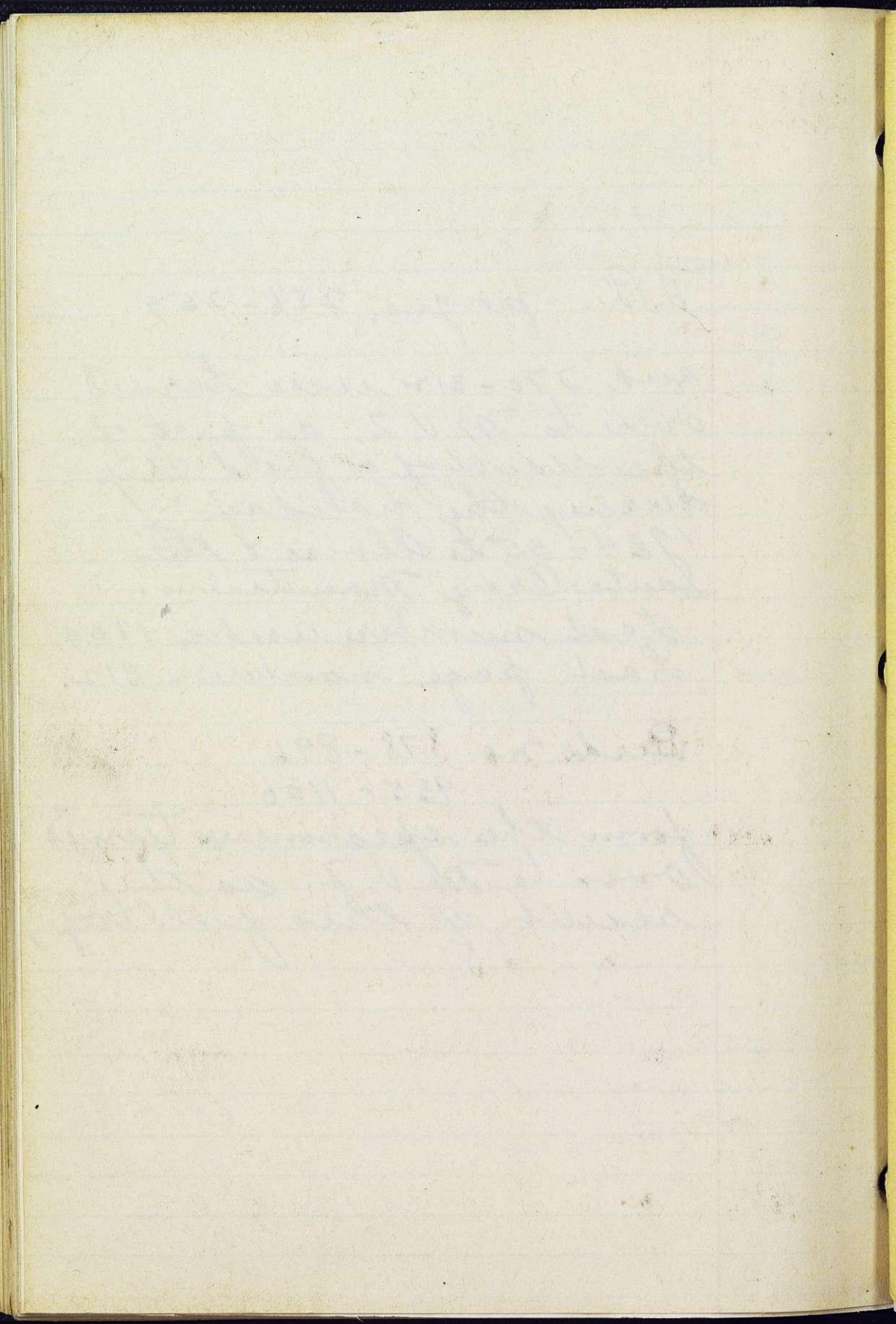
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Last page numbered - 312.

Birds no. 878-896

935-1100

from the specimens turned  
over to M. V. Z. as the  
result of this field trip.





Castilleja Haydeni.

Polemonium viscosum = sweet. musk.  
" confertum = sweet.

Laxafraga rhomboidea = small.

Laxafraga cernua = tall, with reddish  
nutlets.

Sedum stenopetalum =

Penstemon Hallii =

Aragallus multiceps = loco.

Vicia aculeata = small, depressed petal.  
(sheep eating this) ↑

Polygonum bistortoides linearifolium Knob

Achillea millefolium alpicola = yarrow

Potentilla subjuga = sheep eating this. n.w. slope

Sieversia turbinata = S. slope.

---

Draba crassifolia

Stellaria longipes lacta.

Stellaria umbellata - no petals, small, weak

Soxifraga austrorontana = Looks like sedum



Monday, March 1st  
1881  
Canton, Mass.

Very truly  
yours  
Wm. Lloyd Garrison

6223

Marion Mahan  
1506 N. Rose  
Compton, Calif.

Henry Fitch .  
Rt. 1,  
Medford, Oregon.

