Journal

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Nov. 15

Left Nogales (Arizona) at 3 P.M.
reached Benson at 10.
Took the last bound train & reached Wilcox at 12 P.M.

...The town of Dos Cabezas - Two-headed - is 15 miles S.E. of Wilcox.

Had to wait for my train took a walk over the plain. Shot a young \textit{Spermophilus triboenus} & a \textit{Mephitis} & some aardvarks were in the trees.

Found lots of sloe & tracks of a small \textit{Dipodomys}, \textit{Spermophilus} & also of mice. Saw about 8 Lynx tigrinae.

Ravens are numerous & mostly \textit{Cathartes}, though I heard one crowing of the heavy, guttural sound as common in Salt Lake Valley.

The voice of \textit{Cathartes} is fine & harsh.

The country about Wilcox is flat & rather bad, much of it is blanked over with alkali. The middle of the valley is covered with salt grass, farther back than the mosses-like argypyticus & a fine yellow \textit{Aster}.

The two heads of Dos Cabezas are in plain view to the S.E.
Nov. 17 Monday.

18 Got my truck but found the stag didn't go to Dos Cabezas until tomorrow. Went hunting.

Killed a hesus sylvaticus and some birds.

Skinned these & then set 18 traps.

Cold nights - pleasant days.

19 Only caught one Tommys - one rifles. Skinned these & took the stag for Dos Cabezas at 1 P.M. Arrived there at dusk.

Dos Cabezas is in the foot hills of a group of low mountains with no timber or clear water. There is little vegetation or animal life. Altitude 5300.

20 Hunted most all day, killed a hesus sylvaticus, a 5. Grammiss & some birds. Set some traps but could not find much signs of game. The country is pleasantly day & here.

Wether cold.
Nov. 21
Caught 3 Dipodomys, 3 Ormthamys, a Nestama, & a Hesperomys.
In P.M. went 2 miles down the road toward Wilcox & explored a cave.
It does not extend far, is full of holes & cracks that seem to be alive with Nestamas. Saw one Bat but could not get it. Picked up half a helptfull of bones on the bottom. They are an immense sight of bones on top of the dirt; but the dirt is damp & I could find no bones a few inches below the surface. They seem to have been brought there by owls. I could find no pellets, but there is owl droppings over all the cracks. The cave is in a hard, gray limestone. It is about 30 rods from the road on the west side.
Saw very few birds & no mammals but Rabbits & a few Prairie Dogs.
Resent very tired & cramped up the skin. A very pleasant day & not too cold for comfort.
Nov. 22 Caught a big Dipodomys & some 
Ochotonas & a little Dipodomys. 
Skinned three & set some traps. 
did not hunt much. Explored a 
shoat to an old mine but found 
nothing in it. Caught a Prairie Dog.

23 Caught 3 Perognathus flavus - or like 
it - 1 & 3 big Dipodomys & 2 Ochotonas. 
Killed a pair of Hesperus albinus cristatus. 
Made up the stove & hunted a little while in evening. 
A very pleasant day & warm evening.

24 Sunday

25 Packed up & wrote my report.

26 Came down to Wilcox - 15 miles - in 
A.M. & in P.M. set 23 traps - hunted 
on the plain about Wilcox. Found nothing 
to shoot but birds & Rabbit. 
Set the traps for Perognathus & Dipodomys 
mostly. 
A very pleasant day but rather 
windy.
Nov. 27 Caught 2 Dipdops & 4 Prairiechickens.
Skinned them & packed & sent them by mail. Wrote up my Wagon notes. Then waited till 12 P.M. for the train to Deming, N.M. Cold in morning & evening, hardly warm at noon.

Nov. 28 Reached Deming & day light & put up at the St. James Hotel. Took traps & went down into the valley & set 20, 2 that a Reddy fox, & a Javus. The sandy part of the valley is fairly level down with tracks of Hoppit & Dipdops (?). The middle of the valley is a sandy region, covered with tall grasses & a few big weeds. Higher up the soil is harder covered with scrubbly mesquite. There are no trees in sight. Now, rough mountains are all around. The valley is broad & quite level. Deming is a lively little R.R. junction town & a point of supply for mines & ranchers. The river is dry. Wells are deep, & there are about 50 windmills in town.
Oct. 29
Caught a Dipsochis & a Nebylona
& a Pteronotus speck & a Goboboo
5 1/2  Trotans
1 Botte i. columns
2 Osereefis & 2 Cardioaenus m. fruticos
1 and Bursaprena & a drosadiso.
Sot 13 wood traps, making 33 in all, mostly for mice & Dipsochis
on the sandy land along the dry
river channel. Found some holes
of Skunk or Badger, but they were
full of Rabbits tracks & no use to set
traps at them. Saw lots of Rabbits
of both kinds.
Got back to hotel at 12:30
in P.M. made up the skins.
A cold morning & warm day.

Nov. 30
Caught 2 Dipsochis & an Osylobony & an
Nestorona & a Cotontail.
The Pteronotus ran over & about &
showed my traps, but would not get
in them. They are very numerous but
I dont know how to catch them successfully.
Killed a few birds. Put up skins
in P.M.
A cold morning but warm day.
This is the last day of Nov. & my catalogue
shows 105 mammal skins, about 30
species for the month, & I have traveled
800 miles.
Dec. 1 Sunday. Warm but cloudy &<br> looks like rain.<br> Went to my traps in morning & got<br> some Dipodops & Orychomys &<br> Perognathus pack.<br><br> "2 Caught 5 Dipodops & 3 Neotomas<br> & 2 Perognathus traps. Reset<br> the traps carefully & tried raining<br> the Perognathus with sunflower seeds<br> as that is what they seem to feed on;<br> they soon take their place on the trap. Had<br> found the Neotoma on the mud<br> & had caught 3 at that hole.<br> Dipodops are not so easy to catch<br> as the little Orychomys were in<br> Mexico & in Damsborough.<br> Found a big stick house of Vespas<br> & set traps for them.<br> Condor sighted flying around<br> town & feed with the hogs<br> in a stock yard. They are as tame<br> as the domestic doves.<br> It took me from 11 o'clock till dark<br> to skin & put up 15 mammals.<br> Warm & some cloudy."
Dec. 3 Caught 3 Dipodops & 1 Jumper of a
herbivorous l. castaneus. Hunt &
bailed the traps, will try one night more to
catch Perognathus.
In P.M. went out among the mesquite brush
E of town. Found a few birds & killed a
thysanura; found tons & traces of
the big Dipodops & some little
Perognathus holes. Saw lots of rabbits
of both kinds. Saw a Coyote in morning,
but not near enough for a shot.
Wast in morning & small day.
Saw 3 lizards & shot one.

4 Caught a Jumper & 2 Dipodops.
Looked up traps & in P.M. set them
out on higher ground south of town.
Shot a thysanura & sold it.
Have had 33 traps set for a week
& have not had one.
Tried remodelling some eucalyptus
traps as to catch Perognathus.
They are afraid of traps & don't care
for wheat.
A warm day & cloudy.
Dec. 5 Caught a Porcupine in each of my two new traps & nothing in the other 13 Cyalen traps. Caught a Dipodops & Dipodops deserti (2). Made up skins & wrote some. A pleasant day.

Dec. 6 Caught 3 Dipodops deserti & some Dipodops & an Oryctolagus & a Schizomys funereus philosoma. Washed up skins & packed up to can ready to start for El Paso tonight. A warm, pleasant day, some cloudy.

Dec. 7 Reached El Paso, Tex., at 6 A.M. Got breakfast & there went down to the river to rec low clay, the water was. Found the bed of the river dry & grown up to willows & weeds. That settled the boat trip. Got settled at a hotel, bought a trunk & some other things that I was in need of, made some traps & wrote letters, so did not get much time to hunt. A warm day but windy & dusty. The country is as dead & dry as it could well be.
Dec. 8  Sunday,

Went down the river flat about two miles & then out over the higher grounds to the N.E. Found a few hogs on the flat that seem to be of Perognathus, but took at these & some more traps for Dipodomys at the edge of the valley. Lepidium niveum covers all of the land above the river flat. It is a bright & pretty evergreen, but stinks. Saw very few birds & no mammals but Rodents, Lepus tamarisc & sylvaticus were common. Traveled a long way through the close lands & so didn't find much sign of life.

In P.M. took a trip around in the hills N. of town. Got some traps & shot a Tanimia with a pole gun tail, saw 2 more.

In evening skinned the Tanimia & 2 birds.

A warm day, but windy & the air full of dust. Could hardly see across town. The river is dry & water in the wells is horrible. It tastes like old dirty soup & has a bad effect.
Dec. 11 Catchet 2 Dipodops + 2 Tanias (harrisi) & 2 Perognathus.
Set more traps.
A cold morning & warm day, not windy.

Dec. 12 A cold morning with a skin of ice on pond.
Caught a Dipodops ordi & a Dipodops + a Hesperomys + 2 Nectoma + two Tanias harrisi. Nothing in my Perognathus traps. Have about 20 just for them. Have in all 40 traps set but do not catch much. Tramped over the snow of the mountain but did not see a Tanias. Found two in my traps though.

Dec. 12 Warm night.
Found 3 Perognathus flavus in my traps & a Dipodops ordi & a Nectoma & 3 Tanias harrisi & 2 Hesperomys.
Set some beds & a Hepus thomassii.
Went around over the hills & came down above the stream to the river.
Found a good place to set traps over in a basin.
A hot day & no breeze.
Dec. 3 A warm night but I only caught one Perognathus. Caught 2 Dipsodes & 2 Dipodomys ordii & a Thrones & 3 Grumpy. Part of my traps are up on the mountain N. about 5 feet above the river on the flats. It takes me all day to go around to them & set them over, but I catch as little that I can put up in the evening. Another warm day, fairly hot, no wind.

Nov. 14 Caught 3 Perognathus flavus & two Perognathus, probably, obtusirostis. Two Gerbils & 2 Dipodomys ordii & a Thomomys. Took up my traps on the rocks & left out 23 down on the flats, mostly for Perognathus.

Put up 10 skins today & added two species to my list of mammals. Killed a Cercos clypeolabrus & 10een. A warm night & hot day.

Nov. 15 Sunday. Took a Perognathus flavus & 2 Dipsodes from my traps on the flats below town. A warm night & pleasant day.
Dec. 16 Took up the last of my traps on the flats of town. Crossed over the ridge N.W. and set 20 traps in a little valley about 2 miles from town and proto of the 150 feet higher. Set some traps among the coves around the valley, killed nothing. Scared a Coyote out of his bed under a bunch of Leabush and two rabbits in a deep wash. Only had No. 12 shot in my gun as did not shoot.
A strong wind from N.W. all day.

"17 A cold night, no frost, did not expect to catch much but got 3 Tanyias + 3 Dipodonyx redi + 2 Tanyia 72.
Perforated with small bushes on an Omebonyx. Saw 4 Coyotes together up on the hills. seemed to be hunting Chipmunks. Saw 3 Chipmunks, shot on.
A pleasant day, no lot.

"16 Caught 5 Dipodonyx + 4 Tanyias.
Took up traps. Set 2 for Squirrels.
Made up styles and went along.
A cold morning + warm day.
Dec 19 Caught a Single but did a bad job in shooting it & it started itself for a specimen, I cracked its skull, packed & sent the specimen & packed my trunk & finished report.

Dec 20 Left Alamos at 6:30 A.M. A cold morning, a thin scale of ice on water. Followed the Rio Grande valley down to near Finley, then wound around through "bad lands" till we came up onto the mesa at Finley. There the country is a rolling plain with some peaks & ranges of old mountains. It is dry & rather bare. Yuccas are abundant, the tall yuccas & Yucca elephantipes. There are some Coches & low yuccas & Yucca mexicana is abundant. Not a tree of any kind to be seen. Grass is scarce. There is no water & no stock. No one lives along the R.R. after it leaves the Rio valley except at stations & water is brought to them by the train.

Sierra Blanca is composed of a depot, a store, saloon, church, a hotel, & several dwelling houses. In P.M. hunted set traps. Saw 2 Jack Rabbits & Shrikes & a Curvidhwigan. Killed nothing. Set 17 traps.
Dec. 21 Went the cold of my body in A.M. & got a Professing ecumees, an Omophly, a Dipodomy adzi, o a big Dipodomy, a figus adzi, I think P.M. Caught a Cyronum's adzi, I shot a figus ecumees. Went o'er the hill north of town. It is rocky & about 500 feet high, then went out on the plain. The country is dry plains & rocky hills. There is said to be a salt lake 15 miles north of here. A cold, windy night & morning, not very warm all day.

Dec. 22 Found a Zania & 2 Dipodomy adzi & 2 Omophly in my legs. Met Mr. W.H. Streeterly (don't know how to spell his name), who is in charge of a State Geological Surveying Party about 15 miles east of here. Got some information from him & had a pleasant chat of an hour. A warm, pleasant day.

Dec. 23 Caught one Omophly & 5 Prairie Dogs. Took up my figure from the rocks on the hill S. of station & set some way on the flat N. A cool morning & warm day.
Dec 24 A warm night + warm day
Caught 2 Omulays, 2 Dicrodonys redi,
A Matoora, a Geomy, 2 Tonomys +
a Teshuyms.
With the 3 Prairie Dogs caught last night
these last are very stunning all the P.M.
Did not get all of the tough desert, but set
most of them in new places.
Killed a Shrike + saw 3 Amphilonga
in verdandis.

Dec 25 This day it is Christmas but it is like
a day in early September. The boys
celebrated with Firecrackers instead of
snowballs.
Caught a big Dicrodonys + 3 little
ones, 2 Omulays + a Tonomay.
Made skins in P.M. Did not do a
full days work because it is Christmas.

Dec 26 Caught a big Dicrodonys + 2 little ones
+ a Omulay. Killed 3 Dicrodonys +
an Amphilonga in verdandis.
Made skins + hunted some, but
hunting is not much use. Saw a
Driodota + 2 Kevens but couldn't
get a shot at either.
Warm + some cloudy.
Dec. 27  Caught a Perogatius & 2 Spinners.  1 2
2 Hesperus 1. Convolvus, 4 Hesperus
of a larger kind. 4 a Vesperus, 3 Diphonan
2 Hesperus 2 Convolvus.
Set some traps down the R. R. last
7 toe to get more traps.
Made 11 skins in 10 min.  7 wrote some
in evening.
A little ice on water in morning, but
warm all day.

Dec. 28  Caught 2 Hesperus 2 Diphonan
2 Convolvus 1 Hesperus, but nothing
that I wanted. T ook up traps.
Saw a Coyote, it had been at a dead
cow that the bears had killed.
Made up the skins 
Afternoon wrote on report in evening.
W arm night, but the wind came up
in morning and blew a gale all day from
The N., cold in evening.

Dec. 29  Sunday 29° in morning, wind
from the east all day. Clear cool in
evening. Is going to be a cold night.
There is one well back 870 feet deep but the
water is poor and not much used.
Another is being drilled is down over 800
feet but no water yet.
Dec. 30 Cold & clear in morning, 16° at sunrise. Left Sierra Blanca at 11:30 A.M., followed the valley all the way to Meetz, a little town at Mt. Blanca of the Eagle Mts. The valley is grassy & small brush & greas pines still & no water or much stock. Prairie Dogs numerous all along. Saw antelope. Saw 7 antelope near Meetz. Clouds & sunshiny, but cold all day. Laid at Meetz 11:30 minutes & took the stage for Ft. Davis. 22 miles N.E. Reached there at 7:30, after dark. Had a cold ride after a rain of little. Mules, saw Prairie Dogs & a lot of Antelope tracks.

31st Got a pony & started up the mountains to find a place to stay. Followed up the Chupio Creek about 14 miles to Mr. Finley's Ranch & concluded to stay there. It is near the pine timber & there are evergreen oaks & Cedars & Piñon pines all around. The country is rough & rocky.
Jan. 1. Stayed all night at Mr. Finley's. In morning started back to Davis.
A windy day. Rods fast and saw nothing to shoot. Picked up what things I needed for collecting, wrote letters, got all ready to leave. At Davis in morning.

Jan. 2. Left my things at hotel to be brought up by a team tomorrow. Took my gun and started back up the mountains. Found a lot of frogs and tadpoles in a pool of the creek near Davis. The creek is becoming a small stream from a mile above Davis down past the post. Saw large boulders. Crossed into long pools from Davis up to Dobbs ranch, 7 miles above. Shot a blanket weaver and saw more of some that were evidently weavers. Found a large prairie dog town about 2 miles above Dobbs on a ledge in a hill. The dogs were numerous. Shot one old male with large protruding tusks and a strong odor, like an old fox. They were tame and I could have shot more at close range. Saw several S. grinnemans but failed to get any. The afternoon was warm and they were out on the rocks running. Reached Finley's at 5 P.M. with a lovely rain. Walked 15 miles but took it slow. Came up at about 2000 feet.
Jan. 3

Mr. Finley says that a man was up last Sunday with a barometer & placed the altitude as follows: 77 Davis 5000. Finley's reach 6000, the highest peak of the Davis Mts. 9500. Probably Davis reached is 5500.

Hunted some but didn't bring a large supply of ammunition with me or didn't hunt very far or long. Killed a large gray Rabbit, near to one, & some birds.

The team that I expected to bring up my things today started down at 7 I Davis over night & will not be up till tomorrow. Weather cloudy & windy & not much game out.

My lips are very sore from riding in the wind & thawed cold! I little while out in the wind made them ache & swell to my face swell, so, as this isn't much use in hunting, I tried indoors most of the day. My things did not come till about dark. Now I can do some work.

In evening skinned birds & associated thoroughly being. Killed nothing but a few birds. My knees hurt when I walk much.

A cloudy, windy day. Foggy in morning.
Jan 5 Sunday. Had to again the rest of my birds to keep them from spoiling. It began to rain in P.M. I kept it a drizzle the rest of the day & night. The old dog went out & took a very long walk through the trees. The top was lightly covered with snow. The trees were nearly top sitting on limbs of snow, seemed to be perfectly at home. We petted him a while, but couldn't turn him out. John Finley said the dog would tree him again close by, if we took him out, so as I wanted to see him climb a tree, I went up & when close to him he dropped down past me through the limbs to the ground. The ground was stony so we couldn't see the dog & never saw him again. They out quizzers had & Finlly have brought a number when the dog trees them. are said to always turn & never go into a hole in wood.

6 A warm damp morning, cloudy & still. Set traps & killed a gray rabbit & caught 2 Thrushes in A.M. In P.M. went up the mountains to see of the highest peak on the south end of the group, it is probably 9000 ft high. For this thing I had it was a large cliff & the current
while I was on top of the peak. Started down on a long walk but my knee soon began to hurt so I had to go slower & didn't quit walk to reach till 8 o'clock.
I followed up a canyon, climbed over rocks & through brush, saw lots of Bristle cone pine, larkspur, wild iris, weed of various colors, he made fine growth. Its sandier is small & spindling. Fruits begins about half way up the mountain (probably at 8000)
returns to top, it is nearly over 8 miles through 30 feet high, is quite thick on north side of mountain. Ponderosa, huckleberries, junipers, & oaks run to top of mountain. Small, silver beaded oak is abundant from base of peak to top. It rained about half the time I was out & I saw no game but a Pueca & a couple 9 did not get the Cattle.

Jan. 7
Caught 2 Thowomys, 5 Heptomys, a Nekorva, a Bram幅的 gaulomius, & shot a Spheniscus.
While at cabin, hunted a little near home couldn't go far as my knee is lame.
In evening took the dogs & went out after skunks but found nothing.
Warm & cloudy, rained in P.M. evening. Saw several Jack Rabbits.
Jan. 8 Caught 2 hares, & 2 Thompsons. Killed some birds. Hunted, cut throats, made up the skins. Tramped till eleven o'clock in evening with the dogs, but they found nothing. Cloudy & windy most of day, but no rain. Cleared up in evening.

9 Caught a Wren son Virginia, in a hop, cut not toll in roosted. It was an old 7 + very soft, a No. 0 steel brat held it by two toes of a low fool. If cut in the throat the first night after it was cut, I think they lack the cunning of the Kid fool. Caught a Wren son Virginia, & shot a few birds of a huge tawake. Reck my legs, made up the skins & hunted.

A clear warm day, but found no S. grammicus and ran hooters. The Petter watch along the ledges & probably catch them. Clouded up in evening again.
Jan. 10. Caught nothing but a Hesperomya & a Vespera. The wind blew a gale until noon then it rained hard till 4 P.M., so I did not hunt any. Went up the cañon about 3 miles with the Finley boys & watched for a Bear that had been eating a dead cow. Sat in the brush from 7 o'clock till 10, but nothing came. It was so dark we could not see to the cow, so put away & was cold watching. It is probably Wild Cats or Foxes that eat it instead of Bears. Am going to try poison now. While riding up the cañon, we saw a large Black-tail Buck & a Doe standing on the side hill above us. The Buck was a magnificent fellow, with big horns. He was very dark colored, the Doe was lighter. They were too far for a shot-gun & the fellow with a rifle missed them. The rain has filled up all of the rock tanks & there is plenty of open water now.

Nov. 11. Caught a Vespera virginiana & one Hesperomya, killed a Jay & 4 Meal-terinae. Made up the skins & hunted. Went up the cañon about 3 miles to the old saw mill, didn't see any game except 2 Grouse & failed to get them. I do not know the species but they are called Tod Grouse. Clear & windy, clouded up in evening.
Jan 12 Sunday. 25° in morning + a little flurry of snow, windy + raw all day. Snow blow off.

15 22° at sunrise, clear still. Coldest morning of the winter so far.

Took a horse + started over the mountains to see the country on the north side + visit the ranches + get Bear alice.

Went up the canyon about 3 miles + then climbed the right side + crossed the divide where it is 7270 ft. Measured by W. T. Cameron of Waco. Followed old Girt road down the canyon on the other side + reached Mr. Perkins' ranch at 1 P.M.

This is about as high as Fireleys - 6000 ft. Was welcomed by 4 horses + the rest of the family. After dinner went farther down the canyon + killed a few small animals. Saw a S. quinnipiens. Birds + plants are about the same as at Fireleys. finns flagilis + he never have had oak grow on the north side of the mountains high up.

The canons are pretty + deep. The N. side of Livemore peak is a perpendicular face of granite that looks to be 5000 ft. high.

In evening went for hunting with 8 boys + 5 horses. It was windy + day + the dogs could not keep a trail. + caught nothing. They ran two rabbits for some time +
made lots of music. We followed up & down mountains over broken rocks & nearly broke our ankles. It was dark & cold.

Staid out till 1:30 A.M. I left & we will for the woods just to hear the crows among the rocks. We could not tell which was dog or which eagle.

Jan. 14. Couldn't get any Bear skulls of Mr. Perkins. They had killed a number but a long way from home & did not bring in the skulls of but one & the boys smashed it.

Could not induce Mr. Perkins to take a cent for my IID. Said he it was paid a cent for staying under his roof.

They are rough but generous & intelligent people as are most of the ranch men.

Mr. P. told me where to find a Panther skull at a ranch 2 miles west of here, Mr. Currie, also I started to follow his directions up one edition & down another. Killed a S. gram, & saw another. They were in a sheltered place in the edition where the sun shone & it was warm, were feeding under juniper trees. The killed had its cheek pouch full of juniper berries & was very fat, though not adult.

Saw no wild birds or much game of any kind.

Went over a divide & down another edition.
came to Mr. Kerr's Ranch about 2 p.m. 
found the bones of two Felis + got the skull of one + the upper part of skull + the tail bone + scapula of the other. 
They had the skin of one, but Mr. Kerr was not at home so I could not get it. 
It was in fine shape, of a grayish brown + has the fore claws + tail half on. 
Both the Panthers were said to be 7.

Found a Beers skull, which is of a f that had 2 cubs.

Went down the Cañon a mile farther to Mr. Timberups after a Bear skull that was said to be there, but could not find it. 
Came back into mill creek Cañon + then over the main divide Cañon. The sun went down while 8 miles from home with a mountain to cross + no trail over the top. By good luck I did not get lost + reached Kerr. 
Finally at 8 o'clock.
Rather enjoyed the trip, saw much country, got some good specimens, + met several pleasant people.

Jan 15. Packed up + went down to Ft. Davis. 
Cold + windy, clear.
Jan. 16 Came down from Ft. Davis to
WASP - 22 miles. Faced a strong,
cold wind all the way, got chilled.
Saw little game, only P. D's. & Ostriches
& long fur 1 mo Rabbit.
As usual when I come to town had
a lot of little things to attend to &
did not get my report finished.
Nor all the specimens ready to ship.
Lee was & cattle thick in morning
& it hardly thawed all day. Clear &
windy.

Jan. 17 Packed up & sent off the specimen.
Finished my report & sent letters & got
my things ready for another start
in morning.
A cold morning but warmed up to a
comfortably day.
Did not get time to go hunting at all.

Jan. 18 Got a team & started for Mr. Lloyd's place
in morning. It is 35 miles S. W. of WASP.
The country is at first rolling plains,
Then we follow down a valley between
low hills, with steep & are valley-looking
sides. The country looks as though
there would be fabled wood, but could
not find any to lean of any.
The ground is fairly covered in places
with Caledonia, in large & small pieces,
white & greyish & pink, & very pretty.
Grass is mostly eaten up & there's
rather bare. There is lots of brush—
mostly thorny as, mesquite, go-to-claw,
& redbud & sphaerae & lots of pedestals.
Saw no trees on the trip except a few
junipers virginianas (?). In the hills near Mr.
Lloyd's & some cottonwoods along the
creek at his place. Prairie Dog, Cynomys
ludens alpinus—very numerous from Meda
to the hilly country near Lloyd's, also lots
of Dipodons (or not ?) Leups lepis
& sphaerae are very numerous in the
brushy valleys, sometimes 20 leips
in sight at once & several sphaerae.
Cobitla argunata was common.
& a number of small birds that I had
not seen &d sometime before.
Lloyd's place is 4200 or 5000 feet below
Meda. There seems to be a great difference
in the weather here, Lloyd says that has
been but one frosty weather this winter.
The country about Lloyd's place is hilly &
stoney & rather bare & several animals do
not seem to live here on that account,
such as Dipodons & S. sphaerae.
The creek valley at Lloyd's place is
Jan. 19 Sunday. Found 20 mysposa & 9
Gophers in my traps. Took a long walk & saw a prairie
vivianus & lots of Rabbits & some
Gophers. A warm, quiet day.

\[20\] Caught 2 #20 possums & 9 #9 ovines
& shot a Gray Rabbit.

Made up the skins & cut 28 traps &
traveled some. Followed up the
creek a mile or so. Found a lot of
red tailed hawks in the Cottonwoods
but didn't kill any.

Found signs of Dipodomys & Neotoma
races.

A warm, pleasant day, wind from
the N. in morning & from the S. in P.M.
Jan. 21. Caught 2 Digosumps & 4
Onyemaums & 6 Heddsonums & one Kestonum
+ 2 Goopums + about 2 Lytums subsistens
+ one Lytus teepums & a Lynum + 7
Butons + a Stunnella.
Cleaned open + loaded shells +
made 14 skins + skinned the rest of
the small stuff. Reset the traps.
A pleasant day, clear + warm.
Have been rather busy.
The Hawkes came to the Cottonwood
by dozens to roast, + I shot then in
evening. Found the lynum in
one of the Cottonwoods + shot it with
No. 8 shot.

Jan. 22. A nice clear, cool morning.
Caught a big, yellow, smooth tailed
Pecoswallowl (New). Caught a very
large Goopum, 2 Onsawaums, + 2 Heddsonums.
Shot 2 Lytus subsistens,
Set the traps over, made up skins,
Went down the canyon in evening to set
Skunk traps + got back after dark.
The little turtles were "fiddling" in
the pools + froze cooking as I
came back.
A warm, pleasant day.
Jan 23 Caught 2 of the big new Perouges, 3 Hesperomy 1. Serovicius, very pale, a Diploglos and a Hesperomy examins.
Took all the legs and made up the skins.
Set 15 traps in P.M. mostly for Perouges.
Took a long tramp over the hills but got nothing but an old skull of Bear.
Dredged the creeks for frogs and found another kind of Turtles and some shells but no frogs. Expect to start for Wapta in morning.
A clear, cool morning, cloudy with a sprinkle of rain in P.M.

Jan 24 Caught 3 Hesperomy 1. Serovicius & 1 of a Rovers, C. c. fimbriatis.
Put up skins, packed up & made out my report. Clear & pleasant.

Jan 25 Came to Wapta in a very wagon, came slow & hunted & picked up stores along road. Saw a hawk that was probably False vulture on a nest in a hole high up on the face of a cliff.
Saw a Refit that is in size between the two others got at Hoyda. Saw lots of Refits & Prarie Dogs. Obscens
& Sanguineus numerous.
A hot day. Invest nothing still with my copy.
June 26 Sunday, weather pleasant.

27 Packed up the rest of my specimens & sent them, packed my trunk & cleaned gun & loaded a lot of shells & left Maryva at 2:30 P.M. for Laramy.

From Maryva the R.R. runs over nothing, grassy plains covered in places with thistles, no brush or trees. Prairie dogs numerous & all that were near enough to see plainly were prairie dogs. After riding about 30 minutes we come into hilly country, a range of low, broad mountains resembling part of the Pikes. The road winds around hills & along crooked valleys & we begin to go down a steep grade. No stick the R.R. has to make large curves to lessen the grade. Pasing is the first station among the hills, is nothing but a station, but is in quite a pretty valley. There are a few rocks on the rocks. The country does not change much from the rocky hills & ravine, crooked valleys & hill near Alturas, where it is smoother. The valley wider. Water seems to be found all along by digging, & stock is abundant. At Haymond there is a little creek, with small forms along it. There is brush & grass but no timber. It would be a good place
Jan. 23. Out early morning but not cold, got out & began to get acquainted with the town & people & surrounding country.

Found a town & stop & two little stores & saloons combined & my restaurant. There is a bunch of soldiers camped between town & the river.

I couldn't find the river until a man told me it was down in that hole just across the R.R. about 40 rods from town. It runs through a narrow cañon about 200 feet deep. The bed is all limestone & is cut into numerous rich cañons by the water.

to collect. The House Mts. are near, are a flat topped bunch of low, rocky hills. The R.R. follows down a crooked narrow valley & makes great curves again to ascend the grade. We soon leave the creek & are between low, stony hills which seem dry & uninteresting. Reck Sanderson at 7 o'clock & stop for supper. It is dark here but the moon is shining & about the same size, stony hills; as near as I can tell, it is the same to Laramie.

Received Laramie at 10 P.M. 191/2 miles from Eagle. Found a restaurant where they serve some beer. in one corner it was put in with a blade.
May 28-29,

On coming from Taos to Del Rio we were in the night but had a good moon. It is a very rough country, the R.R. runs near the river most of the way and sometimes you can look down 200 feet straight below you to the river again as high as cliffs over your head. There are 2 long tunnels. Painted Caves is the meek place on the route. The cliffs are grand, the tops looked as far away as the stars. The Caion is bushy & would be splendid for collecting. There were several good sized houses & someone had a fire in one of the caves.

This is a sandy flat along the river most of the way down in the Caion, sometimes on one side & again on the other. This is covered with Brush & Weeds & flowers are in blossom down this & birds are numerous. There are lots of Corn Deer & Skunks teading along the rivers. It would be a good place to collect, only I do not want to make but one more stop & want to make that where the fauna is characteristic of the flat country south of the Caion. This I will not find until I get further down, & from all I can learn Del Rio seems to me the best point. The country above the Caion here is very strongly dry. Some kind of Perognathus seems to be common here. A Black Bear & Bald Eagle are kept at a calbin as pets. Panthers are said to be numerous on the Peex R. Hunted most of the day, killed some birds, took notes, & collected some plants worthless thus in the Caion. Cedars, Rooks & Mosquitoes are common in Caion, also the Resurrection plant on rocks.

The limestone is full of fossils. Went into some caves but found nothing.

A very warm day. Got some shells like those I found in Sonesta, N. Y.
Jan. 29 Came into Del Rio at 1130 A.M. Went to hotel & slept till 2 p.m., then got out & began looking about. Found myself in a shabby, scantily little town full of brush & cacti. The country all around is flat & mushy except some low hills 1 mile east of a blue line of mountains away in Mexico, at least 100 miles away. Got my things to hotel & skinned 3 birds that I killed yesterday & skinned theJim, skin that I got of Lloyd's before dinner, in P.M. toda. tvs I went out on a road to the south. Found some old & lots of ruins of Siquoradas. At 12 traps & hunted till sundown. Killed a Cottontail & 4 Quails & some other birds. Birds are numerous. Found a deep, red-stained river near town. Didn't know it was this late. The Rio Grande is about 5 miles distant & I did not see it. Farmers are awakening, some fields of wheat are green & nice. The stalks of cotton & corn are on most of the ground, seem to be the principal crops. Fruit trees are numerous; that seems to be good enough for irrigation farms are quite numerous. Warm enough for summer. Trees are mostly info, but plants are green & vegetables in all stages.
Jan. 30.

A damp, misty morning but cleared up by noon.

Made 4 Guad skins & then went to heaps.

Caught 1 Spec of fish, like 13 lineals,

& an Opossum in a tech set at a hole.

It is an old & has 9 very small young in

the pouch. Each young hole just held at a

tech & keeper clawing the wet, mossy hair

to pull itself down closer. The old one did not

offer to fight. Caught 3 Heifers &

3 Skunks. Shot some birds.

In P.M. went across the creek & down on

the other side. Found a lot of fossil

shells, cow turtles, killed some birds, &

found good holes for Skunks.

Got all the things claimed but the

Opossum in evening.

A warm day.

31.

Caught 2 Sigmodons & a Heifer, & a Rabbit. Shot another Rabbit & some

birds. Made up skins & hunted.

Saw lots of Rabbits but no other mammals

except Sigmodons, they seem to be
guilty himself.

Cloudy & misty in P.M., cool in P.M. Warth.
Feb. 1. Caught a 3 Cottontails & 3 Squirrel.

Shot a Rabbit. Shot a Goldfinch.

Went up the creek - San Philp's Creek - about a mile. It is a queer stream.

Rocks running under ground + then rising up out of holes. It is very deep in places.

The water is clear + there are lots of fish in it.

Cloudy & warm all day + a sprinkle of rain in warning. Clouded up about 4 P.M.

2 Sunday.

3 Took my traps + went down creek on the other side, about a mile.

Set 15 traps but did not find good place.

Saw lots of Cottontails + some Muskrat Traces. Shot 2 birds.

My head aches + my legs are weak so I could only crawl along + got very tired.

In P.M. glanced the 2 birds + went down west of the line. Took 2 pills, which affected finely.

Then took two doses of Quinine. Felt better in evening.

It was cloudy & misty all of A.M., but cleared up at 1 P.M. + was hot.

Wrote some letters + got some sleep.
Caught a Nuisance in Redford, brought into the town. My hat had a band of red cloth, I think, & I kept it under my arm.

Put on trousers as ordinary, worked in garden as do.
Feb. 6. Went to traps down the creek to the Rio. Caught 6 Muskrat skins & a Muskrat + a little bladder. Set a Panida & 2 Fox Squirrels. Spent a good deal of time after the Squirrels & sawn 4 times before I got them. Got chilly + have a sore throat to pay for it. Set 3 Georng's traps.

Made up skins + begun on report in evening.

Weather as usual only damper in afternoon, almost raining.

7. Rained + blew a gale in the night, the rivers very high. Squirrels + water along road, cold + cloudy yet in morning. Got out early + went to traps. Caught an Ochotona but no Pocket Gophers. The rain filled up the holes & the traps wouldn't spring. Did not look to hunt much but set another Georng's trap.

Packed specimens + wrote in evening.

8. Got a gale & went to Georng's trap. Caught one fine skinned. Packed up + finished report & am ready to leave in morning.

A clear bright + cold. Some frost. The first clear morning since I have been here.
Feb. 9

Left Del Rio at 11:30 A.M. and reached San Antonio at 8 A.M. - 170 miles.

The country is all flat. At San Antonio I am out of sight of mountains for the first time. In the first town, coming to the Black Hills of Dakota in June, 1888.

I did not get light until the train was about 50 miles of San Antonio. Here the country looked better than at Del Rio. There were small streams with mesquite & encrusted oaks along them, some of the trees are loaded with gray Spanish moss. There are pasture & cow pastures.

Grass is abundant.

Near San Antonio there are good farms.

Vegetable gardens are green with all sorts of vegetables. The mesquites are in blossom & so are some small plants.

Vegetation is mostly brown in a baking state. Yucca trees are in blossom in the yards in town.

It is Sunday, but I strolled about town most of the forenoon & then called on N. Athotter in P.M., spent the rest of the day with him.

There are some old buildings in San Antonio, the old Alamo Mission building where David Crockett was killed, is a fine old ruin 100 years old.
San Antonio is built in the brush. It is flat & loosely built, many little tumble-down houses. It is called the nicest town in Texas but I do not like it. There are lots of birds all over town. The Mocking birds & Cardinals are trying to sing. A pretty morning when

7th 10

Another pretty morning, waking 3 in succession. Atkinson says it is the coldest spell of the winter. The forts are light & it seems to warm up quickly. Found that I could not have town for the north until 4 o'clock P.M. So after attending to my baggage & other business, I went back to lithographs & stayed till 2 o'clock talking with him & showing him some about doing field collecting. Left San Antonio at 4 P.M. for home by way of Austin, Ft. Worth, Kansas City, Quincy, Burlington & Minneapolis. Reached Chicago at dark. After leaving San Antonio the country is open, rolling prairie with limpid bay. No streams. The sand is dark & looks rich. Great good large farms all along & no sign of irrigation. Large cotton fields are numerous, also corn-
Feb. 11. Came into Ft. Worth at daylight. This is a nice city, seems more like Minneapolis. The country around is all rolling prairie & corn, with good big farms. The prairie grass, now not cut way down, is high & thick & yields a good crop of hay. That seems to be of good quality. Wheat fields are green. Fields of standing cotton & corn stalks are abundant & large. There are lots of birds, but I can't tell Sturvelle magna from neglecta, or whether they are Crows or Ravens. I can't identify anything.
positively from the train except a few
Sparrow-Hawks & Crows, Morning
Flies. As we go further from Ft.
Ward, the most of the prairies (not farmed)
are groves of deciduous & evergreen
trees common. At Ft. Ward, this is oak
timber all around. & black oaks soon
become common. Now it is alternately
rolling prairies & small oak timber.
As we begin to strike the small streams
flowing into the Red River, other trees
are met with. At Pilot Point there are
large poplars, elms, & black cherry. Near
the Red R. the timber becomes nearly
continuous of such trees as soft
poplars, heavy, white ash, & red willow the
kinds before met with.

The Red R. is not much of a stream
but has a wide sandy bed much like
the Platte. From Pilot Pt. to the river
the soil grows more sandy. & Post Oak
hills become common. We did not
see any along the R. R. from Ft. Ward
to Andrews, though they probably occur.
At Collinsville a drift of Condylla
crisata went remaining through
the woods & reminded me that I had not
seen the kind for nearly 2 years.
Crossing the Red R. into Wash. Ter.
The R.R. passes through woods for some distance, then out onto rolling prairies; then as far as Muskogé, when it got dark, it was alternate timber & prairies, with numerous small streams, in lines running again back level & after passing Muskogé, horses & almost mountains for some distance. We seemed to cross a range of low mountains extending N.E. & S.W., covered with pines, cedar, & oaks. Sumach is common & the first white pine was seen after passing Savannah. Some of the pines look like fir trees. I remember Prof. Cooke as we passed through Cadiz, a little town on the prairie.

The soil & grass & timber are excellent all along the R.R. in Indian. There are little towns & a few farms & a little stock, but I didn’t see an Indian neither a saloon.

It was dark as we came into Muskogé at the Arkansas R.

It first in the morning at Ft. Worth had a very pleasant day. A little eating near the first for, but not much after leaving Texas. Pocketed Gopher hills numerous all through.
Feb. 12 Arrived Kansas City at daylight. Clear, frosty morning. Temperature 29 at sunrise.Began to see mists & overcoats. Here are the first grain elevators I have seen since entering Western Neb., June, 1888.

Leaves Kansas City at 8 A.M., enters the Missouri R., turns N. & to Quincy, Ill. The timber along the Missouri R. is more like that of Minnesota. Ironwood, large elm, basswood, buck, maple, ash, & hickory are common.

After leaving the timber of the river, the are on rolling prairie, with black oak, small sloughs, & fine farms. Thrifty towns are close together on the R.R. The faces of Scandinavians & Germans predominating. The color element is scatter. I left the Mexicans in San Antonio.

There is timber along the streams which are numerous. A thin veil of ice covered the forks in the morning but was gone by 8 P.M.

Arrived Quincy at dusk & had to wait till 2:40 in the morning for the train to Burlington, Iowa. Large flocks of geese were common all day, other birds seem to be scarce.
Apr 15 Lift Guiney at 2 A.M. & came into Burlington, Iowa, at daylight. Have to wait till 7:30 P.M. for train to Minneapolis. A cold, frosty morning, no snow, no ice in ditches but the ground slightly frozen. Made a mistake & left the train & have to wait till tomorrow night. Colder up & got warm in a drizzle of rain in evening & all night.

14 An everlasting long day & nothing to do. Laugh but not cold. Got started at last - 7:30 P.M. Then a lot of Passers dennision in Burlington & also in Kansas City.

15 At daylight we are near Wauca, Minn. - little spots of snow are lying in shady places. It is frosty & air feels fresh & nippy. Snow increases in extent & at Wauca Junction, where we strike the St. P.M. & O.R.R. it covers half the ground & in the woods it almost the ground. At Minneapolis it is the same - only a little more of Elk River. Had to wait at Minneapolis
till 4 P.M. + reached Elk River at 6. The winter has been unusually warm + there is much bare ground.