Journal.

1889.

Vernon Bailey
July 24 Left Albuquerque at 2 P.M. & proceeded to Flagstaff, Arizona.
Saw Prarie Dogs all along after getting onto the mesa W. of Rio Grande.
Also Diphodomy's hawks.
Was dark when we reached Gallop.

27 Looked around town most of day,
tried to find a horse. Did some
tramping but no collecting.
A cool, pleasant day.

28 Sunday
At the Bank Hotel, Flagstaff.

29 Started for Little Spring at 7 A.M.
& reached it about 11 A.M. 26 miles.
Rode through a splendid forest
of pines & grassy prarks.
Stood an Evening Grosbeak.
Saw Prarie Dogs in the prarks.
Homonyms all the way.
A small batch of snow in sight
on N. side of mountain.
July 30
At Little Spring.
Fished up earth.
Killed some birds & a Red
Squirrel & some Tamiasis.
Made a few skins & cut 14
Trops.

52° after sunrise, Spring water
44°.

Aug. 1 51°(7) at sunrise. Clear, hot at noon.
Caught a few mammals, made up the
skins & some birds.
Got 5 bats in evening of 3 species.

2. Worked at specimens all day.
Had a specimen about to put up, a
beauty.
50° in morning.
Aug. 3  Killed 3 Pine Squirrels & a Skjumant  
    + a Picoides viridissi  5 Dryopoecius \n    Thradori  & a Hummer.  
    Had a lot more birds. Made  
    13 bird skins & 6 mammal skins.  
    A pleasant day.  

4  Sunday,  
    Took a long ride to Partridge Spr.  
    + beyond.  
    Carried home some specimens.  

5  Went around to N. E. side of mountain  
    up high on the rock. Found Goose-  
    beezy  + strawberry  + raspberry bushes  
    where.  
    Set 19 traps  + caught 6 Shearwaters  
    philosoma  + dot 2 more. Caught  
    27 new Arctides with short tails.  
    Killed a Black-tail Junct  saw  
    the old dot in evening.  
    Made 7 mammal & 2 bird skins.  

6  Went to traps before breakfast  + got  
    7 Shearwaters - nothing else.  
    Made 9 mammal  + 6 bird skins.  
    A hard rain began at 5:30  P.M.
Aug. 7
Set 44 traps. Caught 4 Arvicolas + 2 Speckledes + 4 Tamaris. Made 5 skins. Rained + hailed at 11 A.M.

Aug. 8
Cold in morning - 50°. Went to traps + caught 13 Hespermys + 3 Arvicolas + 3 Tamaris lateris. Late in day caught 4 more Tamaris + a Hespermys + a Speckledes, in all 25 mammals. Made 18 mammal + 6 bird skins - all of best + skinned 5 more mammals.

Aug. 9
Looked down to a caliche butte about 7 miles north. Killed 2 Prairie Dogs + a Scissors-tailed Flycatcher. Showers all around all day, it rained hard + hailed in evening.

Aug. 10
Caught a few mammals. Made 14 mammal skins + 2 bird skins. Only rained a little.

Aug. 11
Sunday
Staid at camp all day.
Aug. 12 Am alone again. Everyone else
went to smoke-dance.
Felt weak & worked slow.
Caught & put up 8 Chipmunks + 5 birds.
Added 3 new raptors to our list of
birds.
A pleasant day & no rain here.
Measured, catalogued, labeled, skinned
stuffed + cleaned the skull of a
Tawhia 4 vitellus in 11 minutes; another
in 11 1/2 minutes.
Got 2 Tawhias.

13
Caught a lot of Chipmunks & a Tawhia +
killed a crossbill & an Aecetes juncus.
Made 9 skins. Went down to
Buckalees + hired his boy to cook & help
around camp.

Haven't felt like crowding work very fast.
A pleasant day. No rain but showers
around in evening.

July
Have not worked much today.
Added two new birds to my list +
killed + put up 5 birds + 3 mammals.
Found a little lake above the spring, now
nearly dry:
A cool day & no rain.
Showers all around.
Aug. 15

Feel better today & set some traps.
Caught a Neotoma & found a new kind of Bat dead by water, though
Shot some birds & made 2 bird skins & 3 of mammals.
Packed a box of skins - mammal.
A cool day,
55° at sunrise & 73° at 2 P.M.
The last bit of snow disappeared in P.M.
No rain here but showers around.

16

Caught 2 Squirrels & 2 Neotomas & 2 Chipmunks.
Shot a few birds & added a #2 rifle bullet 9 to our list of birds.
Mr. Sproulton came & promptly began work on the plants.
It rained hard & hailed & blew for a short time in P.M. A cold, gray evening.
56° at sunrise.

Aug. 18. Sunday. 54° in morning, 70° in P.M. Windy & fall like. There ought to be a mock among birds.

Aug. 19. Shot 7 Hummers before breakfast, made up their skins in A.M. Hunted & set traps in Kendores Park in P.M. Saw a large bear but could not catch it. Shot 17 Phloxes in Walker Lake. Found 3 dead cattle by Walker Lake under trees that have been struck by lightning. Sent our cook to town for mail. C.H.W. + party returned just in time for supper, after having a hard trip. We almost worn out. A cool day, no rain.
Aug 20. Got a GodHawk & a Strumet. 4
Mornings. Made some bird skins.
Cold morning - 50° pleasant day.

11 21 Made skins most of A.M.
Chased a Antelope out of Heindees Park.
My boys gained on them while on hard
ground. But they ran among stones 
heat me.
Went up the Mt. in P.M., not quite up
tenth line. Got a Night but no
other new species.

11 22 Caught 3 snowshoes. Put up 5 furs
enough. Made 8 bird skins.
Went up to trap in high peak in evening.
5 caught an Arvicola & 2 Sorax &
Highlivers.
Saw 2 Owls - But.
A cool day, mostly cloudy.
Aug. 23 Made up a few skins early in morning &
then started up the mountain.

Eat lunch at 1:30 P.M. near timberline,
then went up to summit. Mr. Knott's
barometer registered 1190 feet at the top,
but there were heavy clouds & rain on
the other sides of the mountain.

Saw one small patch of snow on
the other side. Snow fell on the top
yesterday but only lasted a few hours.

Saw 8 Mountain Sheep across an
another ridge. Saw Bear tracks
on a possible trail. Caught a long-
tailed grizzly, killed a Dendroica
occidentalis, an Anthus hirundineus
& a pair of pintails.

Reached the summit at 3:10 P.M. &
home at 7. Rode to timberline.

24 Went around to N.E. side of mountain
with 0.41 M. to get timber altitudes.

Got up to the Abies concolor, Picea
engelmannii & Pirus balsamana altitudes.

Saw another patch of snow on N.E. side of
mountain. Got a few birds & plants.

Made 4 bird skins in morning & 5 in
evening. O.H.W. killed a rabbit.

A cool day.
Aug. 30  Came down from mountain where I have been staying since the 26th near timber line & about 11,000 ft. high. Found two streams of water higher up, it comes from under rocks & is at a temp. of 33° F when it comes to light. Caught some Sorexes & Arctoclas along the water courses, got a Zanias laterale above the highest timber & some T. Fontinula nearly as high. Took Thompsonia & Pesttopymns & Pine Squirrels close to timber line. Killed a Golden Eagle on rock at water, it measured 7 ft 1/2 in. across wings & 3 1/2 in. long. Made out one trip from my camp to the summit. Found Porcupine grazing but no Porcupines. Saw no game. Halted @ H.M. at the Eagle but it was tough & bad & foul smelling. Have not felt well for a week or more & could not climb easily. Was past this morning on grass & leaves along the streams. It is much cooler than down at camp.
Sunday.

2 Went down to Cedars to get altitude of the same. Got a few specimens.

3 Were going to Bill Williams Mt. but couldn't find our horses & so gave it up. Explored the Buttes to the west of camp.


5 Caught an Opossum, killed some birds, 7 on the way home. Killed 3 S. Grammurus & 4 Lepus texensis. Found lots of Horn Toads. Got home at 6 P.M., tired & thirsty but with a lot of good specimens.
Sep. 6. C.H. W. went to town, I worked all day on specimens.
A cold day, 45° in morning,
A little rain, bed flowers all around. Thunder & lightning,

Sep. 6 to 30th. Have been to the Grand Canyon & to Wausau. Haven't kept journal.
C.H. W. left Oct. 1st.

Oct. 1. Broke up our camp at little Spring &
I took some goods & my gun & horses &
we went down to another cattle camp.
3 miles N.E. of Partridge Spring & set
28 traps for Prognathus maculatus.
Saw a herd of about 10 Antelopes & one
deer in another place.
Shot a Prairie Dog & caught a Sprawling
spikehorn, skinned these.
Made my bed on an old table as the cowboys
can't get me. Was so tired I didn't
I have but a kist of water for 24 hours.

11. Caught 8 Keyser's-aricensis & a
Meadow-hail vs. Prognathus.
Regd. my traps & took 8 with me & set
along the road in local valleys.
Started for Smith's Spring & followed up
the canyon as far as I could. Had
to turn back where the canyon becomes narrow
& rocky & steep, at 7400 ft. Reckon that
Douglas fir begins in the canyon here. I found
no water except in a little hole dug by a
sheep herder near the bottom of the chin below
the canyon.
Note - All these altitudes are from the barometer with Little Spring of 8,150 ft. as a base, & do not correspond to the map contours.

Afterwards corrected the altitude of Little Spring to 8,250 ft. 100 feet should be added to all altitudes here given.

Oct. I drank a little of it but it was so hot I cut wouldn't touch it. Found a dirty Greaser heading south but he couldn't talk English nor understand my Spanish.

I went back & around east of the little peak & climbed a long, steep road up to the top of the saddle south of it which is 8,475 ft. On top of this saddle I found the first Ponderosa douglasii & Pino pumilio mixed with Ponderosa. The road then goes down the ridge about 100 ft. into the basin about Smiths Spring.

This is a pretty pretty basin of some 40 acres. The 4 species of last named Trees come down to the bottom all around the sides.

Reached Smiths at 1 P.M. Noon at home. Eat my lunch & went on up the "cater trough", which is too wide for a cannon but a very deep valley.

Followed this about a mile to 8,900 ft. At the ranch the stream is small & in the evening was dry. A mile above it is a roaring little creek with water at a temperature of 47°.

Going up the bottom of the valley I met Abies grandis at 8,700 ft. Pino ponderosa style in the bottom first runs up the N. side - facing S. - 100 feet higher. Pinoa englemansi begins in the bottom at
8800 feet, this is Aber-colored, continues up the valley into the old crater bottom.

At 8900 feet I left my horse & went up the N. side of crater which slopes to the S. E., very steep.

The slope began with only Pines Schizoc & P. douglasii & firs. Picea englemannii & Aber-colored begin on the saddlehill at 9300 feet. (though common in the bottom & on the South side) Pino-ristata begins & P. douglasii runs out at 9700 feet. P. Schizoc is still common.

It was getting late & I went no higher. This slope is heavily timbered with conifers this as steep as stones can lay.

The S. side of valley is a tangle of yellow firs with only here & there a bunch of conifers. It would be useless to climb it Picea englemannii & Aber-colored are scattered over the south side - facing N.W. - from where they begin in the bottom of 8700 to 8800 feet upwards.

Came back & camped in the corner of Smith's field. Borrow an comfort / mats / for a bed. Folks all gone & house broken.

Caught a little speckled crakes at 9000 ft. The valley is full of raspberries, bushes & must have been a fine place for Bear & Turkeys once. Such old Bear tracks on Potlik Herrns. Saw 4 Eagles.
Oct. 3

Got up & started before sunrise for Pinea Peak. Left out of the base on west side at 7:30 a.m.

Went around on S. side & climbed it when Pinea Ponderosa runs up the highest, which is 20° W. of S. on a rounded slope.

The mountain is very steep (30°) all loose pine eideress except the rocky crest & sides of old craters.

On the rounded S.W. side Ponderosa runs up to the top & Pseudotsuga douglasii & Pima flexilis begin at 8150 feet.

On the W. side of mountain P. douglasii & P. flexilis begin at 7450 ft. & run to the top all around & on the west exposed S. slope. Here Ponderosa & Pima adultis & Juniperus virginiana & Circaeaster pumilus run up to the top, but are scattering.

On the very top are flexilis & douglasii & jepillies, which alone cover the higher N. slope down to 7950 ft. in the crater where ponderosa begins. Douglasii & flexilis extend down the crater, N, to 7250 ft.

The crater is on the same general plan as that of San Francisco but it is circular, it opens to the N.E., & has blown out to the bottom. A great circular slide of lava has filled up, over 200 feet high on the inside at this at the opening.
+ turned the channel to the W. Much lava has flown out + formed great beds & ridges below, but the volcanoes seem to have blown out a vast amount of cinders. The country all around as well as this one itself, is all fine black + red cinders, loose + easily heated + with little vegetation except pines + cedars. This cinder region seems to extend the range of all of its trees both higher + lower. Sunset Peak + a lot more are cut by are all loose cinders + some are perfectly bare of vegetation.

The cedars, as well as Pines ponderosa, have an unusual extension down to the N.E. towards the Little Colorado River. This extension is in a nile circle on the black cinder region. P. ponderosa covers all the flat land between Oatman + Smith Spring + around the big peaks east of Oatman, but Cedars + Pines extend up the south sides of all the buttes that I passed to the tops.

Came around to my house & started home at about 5 P.M. Reached the A1 camp below Partridge Spring a little before sundown. Found an Engelmann + 5 Hesperocepilis in my traps. Read traps + camped at old log campsite.

Saw deer of 4 + 11 + 12 + 15 Antelope. Hot day + water scarce. Saw 2 Bobcats
Sat. 4. Got up before daylight & found my lunch had got lost or gone. Went to begin a Mass. Caught 2' hares, a muskrat, & a Parotomus (fish) & a Nictari. Had to walk to Little Spring for my lunch about 6 miles. Threw back & got my things & back again to Buckless, where I arrived at about 3 P.M. Met George Buckless coming to hunt me up. Shot two Tanimas later & saw 3 more. Saw lots of Sevensheds & heard 4 or 5 beaking. Have a heavy, guttural voice that comes from away down their gullet. Shot a Red Tail H. Pithed my flirt & skinned things & wrote in evening. A hot day.

5. Started up Agassiz Peak in morning. At Buckless this & Barometer read 83.50 at starting. Abies concolor & Pinus engelmanni do not show a lower limit here as the lower side of the mountain is all a tundra park, but a few Abies concolor & Pinus flexilis grow along a hill near Buckless house.

I followed up the W. ridge of Agassiz on the side facing N.W. going up S. on S. W. slope coming down.
Ruffles run up to 9500 ft on N.W. slope & on S.W. slope to 9900 ft & down to below the ranch. P. douglasii runs up to 9300 ft on crest of ridge & as far down as timber zone which is to 8900.

Pine s. p. s. runs up to 9300 on S.W. slope. P. s. f. runs up to 8950 ft on N.W. side. On S.W. slope, P. engelmanni & P. s. a. are scarce. Begin near the same level, at 9350.

Trees three form the timber at 6700 ft.

No P. arizonicus found on the N.W. slope.

The barometer registered 8520 on return to Bucklers, which is 150 ft higher than it read at same place in morning. It worked slowly by jumps when high up & probably did not register near up to the real altitude.

I found no game or specimens that I wanted except a Tanimas with his Red Squirrel.

Got back about 2 P.M., made some skins & after supper went up the crater flume in Buckleys field. Started with barometer of 8475, at bottom of crater on E. side 8300, top of crater flume 8450.
Oct 6

Sunday.

7 Finished my report, packed a few specimens to my truck so as to send it to town today or next day while I go around towards turkey track to get altitudes of trees. Cold, rainy, windy all day. The top of mountain down to timber was coated with snow in the morning but it all went off from this side by noon.

8 Took a bag of biscuits & left Reddells in morning. Came to Ft. Macon & took the first telegraph reading for a base. Then struck off east for the S. slope of the mountain, rode my horse up to 9150 feet & then climbed to 10,100 where the pikes ceased. I could gain nothing more without going to timber line. Came down & across to the north side of Elden Mt. Which is not a peak & is not called a mesa by the people. Did not go up this as it seemed useless & I was getting late. So I followed down around to near Elden Spring.
Oct. Rode till late, but the moon is full + it is light. Camped by an old log + slept with my back to it to keep out of the cold wind.

Saw 15 Deer above Ft. Warron.

Atascosa tules were common on the side of the mountain.

Shot a Seinum about to see if it was humpback last year, but they had not more than started a shot at it with my gun.

A cold windy day, a little snow on the summit in morning.

9 Got up before sunrise + started.

Went to Golden Spring + then around the base of mountainleast.

Found an little like the one at Grand Caion, on the sides of mountain + a square backed cedar. The mountain is so steep + two sides that I could not well climb it. There are few trees on it any way + they claim to be all the adirice from bottom to top.

Went about 10 miles down the Turkey Tank road to where the cedars began + then found some stumps, then came back to Flagstaff.
Oct.

10 Left Flagstaff at 5:20 A.M., before daylight. It is cold and frost on everything, ground frost ice on roads. Forget to take thermometer reading as dropped. Reached Williams at 7 o'clock and stopped for breakfast. Williams is 6,950 feet. Pines ponderosa extends all along the R.R. to Williams and about five miles beyond, where cedars and pines begin. The barometer registers the same here as at Williams. The cedars are mostly of the eastern hemlock species at first. Ponderosa still grow along in the cedars to Fairview at 6,130 feet. Below this no ponderosa or pine seen, and the cedars are all Junipers virginianus. At Fairview begin grassy basalt, grasses, mosses, and scrub oak are common. In the valley at Pinewoods, 5,900 feet, there are no cedars, but they may be seen on the hills all the way to Prescott junction.
Prescott Junction registration 5425 feet.
There are no trees in the valleys, but there are a few on the hills on all sides.
Reached Prescott Junction at 11 A.M., went to the Pioneer house.
The Prescott train had not come in the night before, did not come till 2 P.M., then returned at 8 P.M. It is a restless old thing with a patched up engine, can run down hill all right but can't pull up hill.
Started down a narrow, eroded valley at a great rate, but fortunately kept right side up. Passed a lot of Prairie Dog plus 5 miles below Prescott junction.
Saw a Coyote + a Rose muleear.
The valley widens & there are ranches + some water + finally a small creek.
Grass is good except when footstrewed close. There are no trees except a few scenty cedars on the hills.
At Bangherst, 50 miles from Prescott Junction + 25 from Prescott, a man brought a dozen freshly killed hopmouth gamblers + two Goddells onto the train.
Had to wait half an hour to get up more steam 15 miles from Prescott + here it became too dark to see.
Reached Prescott at 8 P.M. & went to the Williams house. Prescott is 5500 feet.
Oct. 11
Left Prescott at 8 A.M. on the stage for Florence by the Black Canyon road.
At Prescott, the thermometer registered 54°F at starting. Prescott is in a rough
group of rocky peaks & mountains, there
are cedars, ponderosa & red rocks & few
evergreen oaks make all through town. It is very rocky. The Ponderosa
are small & keep mostly to N. slopes.
The Cedars are mostly the square-looked kind. The hills are covered with grass.
Thomas' Ranch, 15 miles from Prescott,
4,250. No cedars in the valley, or
other trees, but can see them on
The high hills around. Begin to see
Lophotyphus gambelii.
Mayers' Ranch, 35 miles from Prescott,
4,550 feet. Stopped here for dinner at
2 P.M. No Cedars here. Forms in
valley.
Hodgnet Creek, 4,550 feet. Mesquite
(P. nudiflora) begins here in valley, &
Yucca Brevifolia are numerous & two
Minres, yucca glauca seen & some Hesperoyucca
crassifolia.
Antelope station, 3,900 feet. Polyp Cold
Area begin at 3,450 feet on S. slope of
the Antelope Mts. The trees are covered to density.
A long descent over steep roads from 8th of Antelope Mt. down into valley, with Mesquit and euc. brush in the washes & flat oases & Pinyon all along. Tamarisk bushes seem to be common & their bals are numerous. Leper shrub & Quirnes frequently seen & two Coyotes would likely get out of our road. Ox was lying in the road & did not get up till the horses were within 100 feet of it & then only walked behind a bush which we passed within 50 feet of it.

Rambutiflee 2650
Past Rambutiflee the road gets rough again & we go up & along Black Canyon & then down into the canyon by a steep rough road. Cerus giganteus begin on the rocks about Black Canyon at 2700 feet, are small (not often 20 feet high), & are attiring. Fouquieria splendens begins with them & is common all along the road, especially in the most rocky places. It was dark when we reached Rambutiflee & objects are dim through the moon is full.

After passing Black Canyon the road is not very rough & follows valleys & washes the rest of night.
Oct. 12 At daylight we are out of the hills & on a levelish plain covered with Larrea Americas & grease brush & a few Giant cacti & other cacti. Barren, rocky hills are close by nice squarely from the plain. It is about 20 miles to Phoenix & all a smooth plain with about 2 inches of fine light dust in the road. There is no grass - little vegetation except brush which grows in scattered bunches. Recognizable lots of lots of Dipotamia & Dipotamia desertica are numerous as are their bosses. Lopholobus gambeli are running all around.

Reached Phoenix at 9 A.M. & went to the Commercial Hotel, where I found Dr. Stappenger had arrived 12 hours before. The barometer registered 950 at Phoenix at noon.

Went down an easy flat S of town & hunted in P.M. We caught killed a Rabbit & some birds, made up skins in evening.

A hot, cloudly day. Rained in evening.

13 Sunday. Rained all night & pools of water in streets. Lots of Scorpions in town. Barometer 850 feet at 7 A.M.
Oct. 14 Left Phoenix at 1 P.M. arrived in
Tucson at 7. Went to the Palace Hotel
& stopped for the night.
Booked at Phoenix at 9 A.M. 650.
1 P.M. 700.
1 P.M. 710.
3 " " 850.
3 " " 850.
3 " " 850.
8 " " 1920.

15 We found Mr. Bean & had a good
talk with him.
The train was late so we did not get
off till 3 P.M. Reached Benson
at 6 P.M. The train doesn't go
south till morning so we had
to lay over again.
Till Tucson east it is level & rather
bare until we begin to go down into the
San Pedro Valley. Then it is rough &
hilly & deep washes & creeks & the R.R. is
very crooked. There are some wet
washes along along here & grass in
the valley. Yucca & Yucca & Aceti
are common all along.
Had a lively ride on a freight.
(Yucca is a phonetic spelling of the
common name of Yucca gloriosa)
Barometric at Benson, 3100 ft.

- Crittenden 3650 ft.
- Nogales 3480 ft.

Altitudes taken from a S.P.R.R. Guide:

- Yuma 1400 ft.
- Texas Hill 353 ft.
- Maricopa 1186 ft.
- Tucson 2390 ft.
- Benson 3578 ft.
- Dragoon Summit 4414 ft.
- Bowie 3759 ft.
- San Simon 3409 ft.
- Sepas 4503 ft.
- Gage 4488 ft.
- Deming 4334 ft.
- El Paso 3715 ft.

Oct. 16

Lt. Benson at 7:30 AM. Followed up the San Pedro Valley to Fairbank. A small stream runs in the riverbed, there are shallow wet marshes & ponds. There is grass in the valley & some cacti.

From near Fairbank to Sonora is a smooth, rolling, grassy plain with much staked grazing & ranches or lots of mounds of Difofamps (not desert).

Near Old Camp Crittenden the Santa Rita Mts. are quite high & cacti are common. Then the road runs through a rocky canyon full of Walnut & Sunflower trees & Cottonwoods. This canyon is beautiful & has a rapid creek tumbling through it.

Cows run high upon the hills. The rest of the way is hilly & rough & bare. Some small ranches in the valley. Callabreze is low & the valley is full of wild sunflowers & weeds & cacti. We crossed over a heavy, muddy creek where we ride in going to Nogales.

I get sickness & go back to story. Cottonwoods & Walnut trees in valley, Octagon hills. Nogales is Mexican for Walnut trees. Rode around at Nogales & decided to return to Callabreze.
Oct. 17 Intended to go to Calabasas in morning but was told that there was to be a bull fight here at 4 P.M. so we decided to stay over a day. Hunted down the valley in Mexico till noon. Got a score of Schizocephalus green and some lizard and birds. Got held by an old cow that was thirsty for our blood. Saw some small flocks of Long-Junes and some Jays. Also a file inferior. Skinned a car specimen after dinner and went to the bull ring at 4 P.M. but were told that the fight would be tomorrow or Sunday.

Oct. 18 Reached Calabasas at 10:30 A.M. and secured lodging and got our trunks open and all settled by noon. Hunted out traps in P.M. found lots of rooks of Diploceps and some small lories. Killed some birds. Shot at bats in evening but didn’t get any. We heard a good place to work. The flats all around are covered with weeds or grass and there is a small creek or some wells. Along the hills are lots of mesquite trees and some cottonwoods on the flats.
Oct. 19 Went to traps & found part one Dip.   
Hunted all afternoon & killed a bag of birds, but found no mammals.   
Killed a Gerebexy california at 12 o'clock & found its stomach full of large grasshoppers & nothing else.   
Skinned bird & went of P.M.   
The weather is beautiful, warm days & cool nights.

20 Sunday. Went to the old church of the Mission de San Juan de Tunasquez, two miles down the valley towards Tuscan. Found it an interesting pile of old ruins & Dr. Stegner took 9 photos of it.   
Saw 5 Sornoquilus gramineus & a big Jacka Rabbit.   
Got back late with sore feet.   
The valley is quite pretty in places, with large cottonwoods & willows along the creek & Mesquite trees over much of the flats. The grass is good - lots of cattle Ezra in the valley. There are Mexicans living on small ranches here & they live in little adobe houses & raise a few beans & squash & red pepper & some barley & wheat.
Oct. 21  Set 34 traps in forenoon & killed a few birds.  In P.M. went 2 hrs trapping & 9 bird relics.
A pleasant day.

22 Went to traps in morning & caught a Skunk & an Oyebandy & two Perognathus & 4 Dipodops & a Hespermys.
Made up all the skunks except the Skunk.  Baited my traps again in evening.  The ants carried off all the bait through the day.
D. Stiglzer killed a Dofila centurus & two Calebris centurus.

23 Went to traps & got 8 Dipodops & a little Perognathus &  a Skunk & shot a Jack Rabbit.
D. Stiglzer killed a cotton tail & 4 Grasswrens.
Caught a Thomomys in evening.

24 Caught 5 Dipodops & 3 Perognathus & an Oyebandy.  Took up my traps on the flats & in the Mesquite brush on south side of valley & kit out 20 in evening on the east side of valley in a wash.  Set most of them for Perognathus & mice at 10:30 under mesquite brush.
Skinned the specimens & came from yesterday's lot. Worked till 9 o'clock in evening. Got up at 6 in morning. We added 4 new birds to our list & a new snake.

Oct. 25 Caught 2 Hesperomys rororrius & 2 Myomurus, 2 Helmina, & 2 Buphoma. Went up to top of a high hill about 4 miles N.E. of the hotel. The barometer registered 2950 feet at starting at 8 A.M. & on the peak at 11:30 45 feet. Returned to the hotel at 2 P.M. at 3150. The hill is rather bare & stony without trees. Fouguria splendens & Agaricas & Castanopsis are common on it. Saw one Deer near the top & 300 feet of snow. Shot a Pseudophanes margaritif from a flock of about 40 & saw a few Ocelotus. Saw a shot of a Linthus tigrinus. Found 20 Screwpine花 or lomas. Found lots of vines of a big Diospyros & set some traps for them in evening. Set 24 traps after sundown.
Oct. 26 Caught 2 Dipdamps & 2 Dipdamp's  
Made up these 2 skins I had  
from yesterday. Set more traps &  
hunted in PM, but without much  
success. Found a Dipsodytes in the  
Dipdamps holes.

27 Sunday

28 Caught some Dipdamps & had  
a few other things to skin.  
Hunted a little while & set some  
traps towards evening.  
Mr. Stegner shot at a Coyote that  
we found hunting among Dipdamp  
holes.  
Went to sew on my report in evening.

29 Caught 6 Dipdamps & made up  
the skins. Then packed the specimens  
I packed my trunk. Finished my  
report & wrote letters in evening.  
We are ready to leave California  
tomorrow.
At 8:30 Dr. Steiner went to Ft. Huachuca in morning & I took a later train for Nogales. The customs house officers would not let my bags pass without paying 10c found duty on them! As the train was pressed for paying duty they said I would have to wait till tomorrow. Finally, after much delay & gathering among themselves, they said I would have to take them through if I wouldn't sell them. They emptied my truck & pulled everything to pieces & left me to make it over. I finally got things packed in time to take the 7 P.M. train for Magdalena, Mexico & arrived there at 12 P.M. Bought $2.60 Mexican money for $2.00 of Uncle Harris of Nogales. The fare from Benson to Nogales is 10c a mile.

From Nogales to Magdalena they are three rates; 1st, 2nd & 3rd class, of $2.20, 2.20 + 1.50 for 60 miles. At this rate in Mexican money the real cost is 30c less. I took 2d class fare & enjoyed riding on a cushioned seat. Otherwise it was good.
It was moonlight till nearly 12 o'clock, and I could see that we were following down a coved valley bounded by rough hills. There were trees all along the valley, that for a ways seemed to be oaks, but were finally replaced by cottonwood and willows. I could see a few little streams along the road, but they seemed to be no towns before reaching Mandalas. The night was so cold that I nearly froze in the car, my teeth clattered all the way from the hills to a hotel.

Oct. 31 Woke up in a town I had never seen before & began to make it's acquaintance. Draped through town & down the valley & out on the hills to see what I wanted to locate. Found I could work all sides as well from town as anywhere, so I hired a room & got my trunk & in P.O. took a train of several miles over hills & through washes east of town, killed a Flicker, Great, Hairy Woodpecker, Polioptila, & some others. Saw a Cotton-aid & heard Jock Hattie.
Found holes & various signs of small mammals. On the whole, the prospect seems good.

Many species of plants are new to me, especially the Cacti. A flat-laved Opuntia reaches a height of 15 or 20 feet. Giant Cacti are abundant & a smaller species of the genus, from 6 to 10 feet high. Palm trees are growing in town yards, some orange trees are full of fruit, while honeymelons are abundant & very cheap.

Magdalena has the appearance of being a very old town, is all of adobe buildings & the dwelling houses all have large courts in the middle.

I have found but one man in town other than Mexican or Chinese, & he is a Jew. Have found 2 or 3 Mexicans who talk a little English & go on along very well. The food at the Hotel Sobora is unusually good: Tortillas, beans, & hot peppers, all cooked with grease & onions.

A warm day but cold again in evening.
Nov. 1. Cold in morning. Made up a few bird snares & then hunted + cat traps. Killed a few birds + skinned them. A not very profitable day.

2. Caught 2 Dipsadans deserti (?), & 2 small Dipsadans like agilis, & 7 Pachycheles of two species, a large + small kind, & a Skunk with a white stripe on each side + long tail. The big Pachycheles + Skunk are scarce this time of the year.

Dipsadans may be shot a polythrony cheery, which is a bird new to me, saw it once, the one killed had a string around its leg.

Made up the 12 mammal snares + went to help + baited them in evening. Found 2 Campylotopus in my traps, nothing else. They seem to be no Chipmunks or Squirrels.

Saw a big tree lizard in town but didn't dare shoot it. Saw 2 big Jack Rabbits & a Cotton-tail but didn't get any of them.

Lose two tags, my dogs I think. A cold night but pleasant day.
Nov. 3  Sunday.

Took my papers & went down a half mile from town to sit on a point of rocks & wait, while these a pair of folio & Hume came around near my head, & Calyptela gamblei nearly over me. An Limnias flowered & picked a little yellow berry with its bill & placing it in its right claw, rested its tongue across the branch & held the berry while it picked off the pulp, then gave it seed a little & picked another. This one it took in its left claw & proceeded as before. I watched it eat bbooeries in this way, changing put each time.

Saw a pair of Columbita nulla pacifica.

4 Went to traps early & got an @nymphs and nothing else next.

Made 10 hammed & 3 bird skins.

Rained a little in morning and wind blew all day. Rather chilly & all the Mexicans were shivering.

Went out late & set a few more traps & hunted for rabbits without success.

Farmed & Campylotrochus roosting in these nests after sunset.

This nests always seem to be kept in small & are probably used to roost in.
Nov. 5. Caught some Phorothyris + Diphodonns
+ a Bowlums + shot a Reafit + two
Squirrelns + a Texas Cardinal Grouse.
Made up all of the skins.
A cold morning on hardly warm
Enough to be pleasant during the day.

Oct. Went to Mapas 4 found a Bowlums +
+ a Diphodonns + a Heaferson's Premuns +
+ a Phorothyris + a Vlotana + a Squirrel in
there. Then went on to the Mts. S. E.
Of town about 6 miles. Shot Two
Reafis my photo + saw 4 more.
The mountains are about 1000 feet
higher than town + have no timber except
Marquet + Jerry Tea, are cocky + slow.
Had hard work to climb to the top.
Found a lot of snail shells on top, all
old empty ones, couldn't find any alive.
Killed 6J Femmes + saw more; saw
Deer tracks + one bear, a small one.
Killed one Lemins harri on the rocks,
saw no more. It was cold + windy.
Shot one S. pramninnins on the rocks
+ killed a few birds.
Started about 7 A.M. + got back about
4 P.M. Have a good bag full of stuff
to skin.
Nov. 9. Skied yesterday a game which took most of the day.
Got boxes ready for packing + wrote part of my report in evening.

8 Packed the specimen + my trunk + finished my report.
Got things to the ship + ready to start for Guaymas at midnight.

9 It is 424 kilometers from Magdalena to Guaymas, from Magdalena 340 K.,
from Carlo 218 K., + from Hermosillo 145 K.
It began to get light about an hour before reaching Carlo + we were
running on a straight, level road down the Sonora River Valley.
The hills have faded + the arid valley, covered with manguios, cacti,
iron tree, palo verde, + cacti stretches away on each side to a width of
nearly 30 miles, I should think. There is very little grass or small
vegetation + the ground is mostly
bare under the trees. All the trees
are short, round-topped junipes +
The valley looks like an orchard.

The extremely rough mountains are on both sides but none with timber on or high.

We cross the river till we cross it at Henriville. Here there are

large caves, or bamboos, along the river & ditches.

No farms seen until near Henriville

when they cease alfalfa,erguson, some hills, large orange groves.

The oranges are not ripe, but are a

false yellow & looked good. I bought one & ate part of it but it was not

good. Palm trees are common about

the town.

Near Coole, I saw several gray flying

Turkey Buzzards & also along to

Henriville. Here they were about 100

of them in town, flying around & sitting in buildings, & I feared they were not

Turkey Buzzards at all, but some

other large cjcules.

Saw a few Mexican jackrabbits

along the road & some Dipsa longus &

lots of Recognizables & some

Hornwing flies. Birds were scarce.

At Henriville we turned off from

the river valley & followed an old

road
wide, level valley to Guaymas.
There is not much change of country,
the plants change gradually to new
species of cacti appear while others
vanish. Giant cacti are hardly
seen all day, but 3 smaller cacti
take their place. Trees & brush grow
thicker as we near the coast & there
are some farms, one large field of
cotton. Near the coast it is
rocky & very rough & we cross
a wind around bays & lakes until
Guaymas is reached away out on
a narrow strip of flat coast
between the rocks of the Pacific
Ocean.

Arrived at Guaymas at 5:30
P.M. & went to the Cosmopolitan
Hotel.
Two Black-tailed Fawns were in the
station yard at Cardo's & had been
taken near there. They were as
large as a small adult of the
same dark grey color as the adult
at this season. Were perfectly tame.
Nov. 10. Sunday, at Guaymas.

Took a walk down the slope & picked up some shells & watched the Gulls & the crows. Saw a S. grammicus. Guaymas is larger than Tucson & seems more of a live place.

Went to a bull fight in P.M. They have one here every Sunday. Stayed till they had killed 3 bulls, then left. Found the men were hurt much. It is an exciting scene but terrible.

Nov. 11. It is so rocky around Guaymas that there is no chance for finding the small mammals that I want, so I took the train at 8 A.M. & went back about 30 miles to Ortiz where I found a sandy valley & rocky hills, which gave a country where the different mammals can live. Could have stopped nearer to the shore but not in so good a place nor a place so convenient to stay.

Reached Ortiz at 10 A.M. Placed a few traps & killed one Specophilus grammicus before dinner. In P.M. set the rest of my traps & killed some birds.

A warm day but pleasant. Foggy at Guaymas, lin returning.

Birds is a little Whitetail deer at Ortiz.
Nov. 12 Caught 4 Perognathus & a Dipodomys & a Heteromyus. A Wild Cat ate some things out of my traps & something else ate another Perognathus. Also two Spermophilus breviscanus. I saw a lot of snow. Saw 8 or more, big Mexican Jack Rabbits.

In evening set the traps over & shot a Perognathus that I pulled out of a hole.

A warm, clear day.

Nov. 13 Went to traps before breakfast & found a Neotoma & Neseromys & a Dipodomys & 5 Perognathus.

After breakfast examined all of these but 1 of the Perognathus before the train arrived at 10 o'clock.

Left Ortiz at 10 A.M. for Nogales. Saw a few Spermophilus breviscanus, & saw lots of Jack Rabbits all along the road. Reached Cactus at 3 o'clock. There are large fields of grain & sugar cane in the middle of the valley east of Ortiz, but not much farming near the R.R. anymore before reaching Nogales. 50° (7) at sunrise, 90° at noon at Nogales.
Nov. 14. Rode all night & got into Nogales at 9 A.M. Will 8 hours in making the last 75 miles. Rose over a Mexican & cut his log off at Magdalena. He died soon after.

Found ice on the pond at Nogales & a very chilly morning.

The water shed is about 7 miles S of Nogales. From there the Rio de Sonora flows south & the creek flows from Nogales N to the Santa Cruz of Calebasas.

Found the U.S. Custom House Officers very civil & obliging. Passed my box of specimens through without opening it. Am glad to be back among white men again.

Stuffed & packed the skins collected at Ortiz & wrote in evening.