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Dr. Stejneger
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3000. *Sitta pygmaea* ♂ ad.
St. Fides Mts. Little Spring. 8200' Arizona
Sept. 8, 1889.

Another of same species ♀ ad.
Same locality and date.
measured Total length 107 mm
Diam. of eye 2.5 mm

A *Turdus auduboni* (sex indisting. juv.)
same locality and date measured
total length 187 mm; eye 4.25 mm

Sept. 9. Trip to Grand Cañon.

Ph. 1. - 'The Vanguard'. Sun behind small
cloud. inst. 5. From Duckboard. 4 pm

Ph. 2. do. do

Sept. 10. Ph. 3 Breakfast in camp. Bright sun
inst. 1 - 8 am.

Ph. 4. Packing up. To. 51

Ph. 5 The main body. Bright sun.

inst 5. from Wagon. 11 am.

Ph. 6 do. do.

Ph. 7 Old ^{conarajou} Indians. Red Horse Spring. bright sun.

inst 1. - 2 pm.

Sept. 11. (Camp. Cañon Spring. 7500').

Ph. 8. View of Grand Cañon of the Colorado. Bright sun. inst. 5. - 10.15 am.

Ph. 9. Do. do. inst. 1, same view as 8.

Ph. 10. Do. do. inst. 1. view to the right of 8 & 9.

Ph. 11. Do. do. inst. 5 same view as 10.

Ph. 12 Do. do. inst. 3. view between the 8 & 10.

Ph. 13 Do. to left of 8. ^{inst. 1.} partly clouded 4.40 pm

Ph. 14 Do. do. inst. 5. do

15. X X X. Roll-holder slipped from camera so plate light struck. perhaps act. fogsing also.

Ph. 16 = 14 inst. 5.

Ph. 17 = 13. " 1

Ph. 18 = 12 inst. 1. 4.45 pm.

Ph. 19 = 10 inst. 1. "

Ph. 20 = 8 " "

Sept. 12. (Camp. Cañon Spring)

Ph. 21. Do. do. from slightly different standpoint. Partly clouded. Rain in background. inst. 5. 2.50 pm.

Ph. 22. Do. do. inst. 5.

Ph. 23 From a point further west looking west. inst. 5.

Ph. 24 Do do. inst. 1.

Ph. 25 Do looking N.E. inst. 5. 1.

Ph. 26 Do. do. inst. 5.

Sept. 13. - (Camp.)

Descriptions of colors of lizards brought back by Dr. Merriam from the Grand Cañon.

(1) "Mitt. about 3500 ft." Sept. 12. 1889. ^{dark} Sceloporus ^{and interrupted}
15850 Above drab gray with ^{an} indistinct zigzag lines of lighter color one scale wide

across the back gradually arranging
into ^{32 regular} cross bands across the tail, the
darker ones occupying 2 to 3 scale rows, the
lighter interspaces one scale row less; head
and upper neck suffused with light
ochre; most dorsal scales edged with
orange red, a few of the lighter ones
being bright yellow along the keel
especially those ~~last~~ of bordering the
blackish shoulder patch behind; legs
above like tail, but ^{dark} cross bars on fore
legs nearly obsolete; three blackish, but
ill defined and somewhat indistinct
patches on the loins; whole under surface
silvery white with some golden green
on the flanks.

(2) 'Alt. about 3000 ft' 'Sept. 12, 1889' Sceloporus
15849. ^{Clarkii juv.}

Head and ~~neck~~ above brownish drab
dark brownish gray, the snout lighter

with a regular pattern of greenish
white forming an X shaped figure
following the inner edge of the super-
ocular region
Ciliary, and a spot of similar color
with a black central dotlet in the
middle of the occipital; sides of head
and upper neck brownish drab, with
a few dusky spots in the upper
mandible; a narrow blackish brown
streak from lower part of eye back
over the upper corner of the ear opening;
a similar semilunar streak parallel
with the head shield on the upper neck;
rest of upper parts ^(of body and limbs) drab gray with
well defined black spots and cross
bars, the latter on light ~~scaly~~
scales bordering the black ones on
the sides of the anterior back
tinged with ochraceous; the shoulder
patch particularly black, well defined

and connects across the neck
with the one of the opposite ~~side~~
side; under side white, silvery
anteriorly, with a pale brassy gloss
from the lower breast backward;
lower eye lid sky blue.

(3) "1" "Hitud. about 3000 ft.; Sept 12 '89" Uta
15847 *Uta stansburiana*?

Above coppery drab with three longi-
tudinal series of indistinct brown
spots along the back which is speckled
all over with numerous blueish white
specks from 1 to 3 scales large; tail
somewhat gray with faint cross
bars of a slightly darker color
and a longitudinal dusky spot along
the median line of each of the ~~anterior~~
darker cross bars of the anterior half;
legs with faint dusky cross bars;
head more rusty on the crown inclining

to greenish bronze on supercilia and
portion between them; snout dusky;
under side whitish, flanks inclining
to greenish; chin and throat sky blue
with faint dusky markings.

(4) "2" Do. do. Same species.
15846

Similar to above.

(5) "3" Do. do. do.
15845

Similar to foregoing ones, but back
with less light speck, but with
numerous dusky dots particularly
noticeable on the upper neck; whole
head uniform coppery drab; cross bars
on tail more distinct; chin and
throat whitish, slightly suffused
with blueish and marbled with
purplish gray; upper and lower mandibles

suffused with pale salmon color

arvicolor

(6)
16789

"Hyla" Grand Cañon, Ariz. Sept. 13, 1889

C. H. Merriam. Alt about 3500 ft.

Above uniform frosted silvery, irregularly overlaid with a faint golden gloss, more brassy on tympana and sides of face; iris pale brassy with black markings; faint traces of dark cross bars on limbs. The light interspaces being pale golden; under side whitish, ~~pale~~ suffused with pale ^{bluish} greenish on mentum and middle of breast and belly (faint on the latter parts) and ^{with} pinkish ~~and~~ on fore neck; flanks posteriorly as well as inside of limbs bright and deep gamboge yellow, under side of thighs as well as sides of belly more brownish orange; discs pale orange

pink

(7). Lizard coll. by Bailey, near
15838 Uta ~~oreata~~ ^{symmetrika}
bottom of Grand Cañon. "4"

General color above grayish drab, more pinkish on the tail and along the middle line, with a series of 8 "herring bone" cross bars of dusky growing paler behind and including a lighter spot on the middle line; the 6 anterior crossbars are bordered behind by a narrow black line, and all both in front and behind by a ~~blackish~~ ^{whitish} one, broader behind than in front; on the sides several rows of indistinct pale spots, many of them bordered anteriorly by dusky; a narrow dusky line across the head between the eyes; an indistinct dusky line from nostrils through eyes to above ear; legs and tail indistinctly cross banded by the ground color with lighter irregular intervals; under side

whitish with an emerald green elongated
spot on each side of the breast, and a
more yellowish one on the middle of the
throat. ^{In alcoholic specimen (Apr. 10 '90) the} green of the sides is faint sky blue and
the yellow of the throat has disappeared.

(8) "5" *Do do.* Same species.
15849 *Uta ornata symmetrica*

Like the above but somewhat darker
and pattern more distinct, no

green on sides of breast, and with

The spot on Throat pinkish yellow. ^(Says in the notes)

(9) "6" *Hyla* ^{versicolor}. Same loc. & collector. Sept. 13.

16191

Like the one coll. by Dr. M. descr.

above, but less metallic and more

of a clayey color, except hypanium

which is coppery; discs more

purplish pink.

(10) "7" *Hyla* ^{versicolor}. ~~Do~~ do do. Like above.

16192

Wets of hind feet in all bright gamboge
yellow.

(11) "8" *Hyla* ^{versicolor}. Same species, coll. & loc.

16190

Clayey above with numerous slightly

darker spots, and well marked cross

bars on limbs of same color; throat

mentum dark purplish gray with

whitish dots; labial margins whitish;

breast whitish belly bluish gradually

merging into yellowish behind; inside

of legs bright gamboge yellow, thighs

underneath more brown speckled with

whitish; discs pale flesh color.

(12) "9" *Dufa* ^{punctatus}. Near bottom of Cañon

16185

about 2500 ft alt. Bailey coll. Sep. 13, 1889.

Above greenish ^{malachite} pea green densely

speckled with small bright vermillion

specks, limbs more whitish, likewise

speckled with red and like the flanks

likewise speckled with minute black

specks; nostrils black; iris brown mottled

with black; upper labia and under surface

blueish white, irregularly speckled with black.

lower belly and underside of thighs dark brownish flesh color; soles dull orange.

No 3001 -- Stones and soil to illustrate protection mimicry of Phrynosoma no H. 136. (color sketch no 3) collected at the same spot as the animal, at Cañon Spring, edge of (7500') Grand Cañon of Colorado, A.T. Sep. 12 1889.

Sept. 14. (Camp.)

Ph. 27. Down the cañon 9.30 am
bright sun inst. 1.

Ph. 28 Do from higher up the trail;
^{Copyright (5x4)}
~~lengthwise~~; Douglas pine in centre; inst 1.

Ph. 29 X (safety opened before cooking!)

Ph. 30 = 28.

Ph. 31 Collecting cones & under difficulties.

Do do. do. ~~upper~~ lengthwise (4x5)

Ph. 32 "The Monument" from upper portion

of trail. 5x4. Do. do. do.

No. 3002 -- Deinorhiza nigrescens ♂ ad.

Grand Cañon Spring, A.T. - Sep. 14, 1889.

T.L. 130 ^{mm} diam. eye 2.2 ^{mm}

Iris dark brown; bill and feet blackish plumbeous; soles whitish.

No. 3003 -- Parus gambeli ♂

Grand Cañon Spring, A.T. Sep. 14, 1889

T.L. 133 ^{mm}; diam. eye 3 ^{mm}.

Iris dark brown; bill black; feet bluish plumbeous. — Moulting all over.

No. 3004. Zonotrichia leucophrys ^{intermedia?} ♂

Grand Cañon Spring, A.T. Sep. 14, 1889.

T.L. 180 ^{mm}; diam. eye 4 ^{mm}.

Iris hazel; bill brownish yellow, lower mandible $\frac{1}{2}$ yellower, upper one with dusky tip; feet hoary brown.

Merriman's coll. No. — . Vireo plumbeus

Grand Cañon Spring, A.T. Sep. 14, 1889.

T.L. 140 ^{mm}; diam. eye 3.5 ^{mm}.

Iris very dark brown; upper mandible
dusky plumbeous, lower one pale bluish
plumbeous, tomia nearly whitish;
feet ~~pale~~ bluish plumbeous

Ph. 33. About same view as 10, or
perhaps 12. Sun, clear, somewhat
hazy, especially distance. inst. 1. 5.45 pm.

No 3005. Loxia stricklandi ♂

Cañon Spring, A.T., Sep. 15, 1889.

T.l. — mm; diam. eye — mm

Feet horny brownish gray.

Knowlton No. — Melanerpes torquatus. ♂

Cañon Spring, A.T., Sep. 15, 1889.

T.l. 275 mm; diam. eye 5 mm

Iris hazel; bill blackish plumbeous,
pale at base of lower mandible;
feet pale bluish plumbeous.

Sep. 16. Grand Cañon Spring

Photo 34 "Sunday Morning Devotions" inst. 1. — 9.30 am

Ph. 35 do. do. inst. 3. do.

Sep. 19. Little Spring Camp. S. Francisco Mts.

Ph. 36 Camp. inst. 1. sun 1.45 pm.

Ph. 37 do. inst. 3 do.

Ph. 38 Merriam's tent inst. 1 do.

Ph. 39 Knowlton's do. timberline. part shaded.

Ph. 40 ?? do ? Turned me eyes ahead, perhaps.

~~Ph. 41~~

No. 3006. Troglodytes aedon arcticus — 0.

Little Spring, S. Francisco Mt. 8200' alt., Ariz.

Sep. 19, 1889.

Total length 118 mm. diam. eye 3.5 mm.

Iris hazel; bill dark horny brown,

lower mandible, except tip, flesh color;

feet horny brownish gray. Molting all over.

Sep. 20.

No. 3007. Certhia Troglodytes arcticus ♂

Little Spring, S. Francisco Mt. 8200' alt. Ariz.

Sep. 19, 1889.

Iris T.t. — ^{mm}, diam. eye — ^{mm}

Iris like boots; bill do.

H. 135 Amblystoma tigrinum (nebulosum)

16179. Little Spring, S. Francisco Mt. Ariz.

Sep. 19, 1889. — 8200' alt.

Found wriggling in the ashes
by the campfire in the evening;
evidently fallen from one of the
logs which were gathered in
the immediate neighborhood of
the camp. — Color sketch 2:

Dark and light colors of the
body same as shown in the
head; under side, except tail,
pale yellowish gray; fore portion
of toes tinged with pinkish; skin
of back somewhat darker than head.

H. 136 Phrynosoma hernandesi

15724 Colorado Cañon Spring, Ariz. 7500'

Sep. 12, 1889.

Color sketch 3.

Stones to illustrate mimicry = No. 3001.

Under side whitish, ^{on body} with orange

and bluish ^{gray} specks which are

most dense on chin and throat

so as to nearly conceal the ground
color; across the fore neck a collar
of bright brownish orange.

No. 3008. Sciurus

♂

Camp Little Spring, 8200', San Frisco Mt.

Sep. 20, 1889.

T.L. 305 ^{mm}; Tail 123 ^{mm}; hind foot 50 ^{mm}.

No. 3008 a Skull of 3008.

No. 3009 Melospiza lincolni

♀

Camp Little Spring, 8200', S. Frisco Mt. Ariz.

Sep. 20, 1889.

T.L. 138 ^{mm} diam. eye 3 ^{mm}.

Iris dark brown; bill horny brownish slate, paler along Tomicia and at base of lower mandible; feet pale horny brown.

No 3010. Sitta pygmaea ♂

Camp Little Spring, S. Frisco Mt., Ariz.

Sep. 21, 1889.

Tl. 105 ^{mm}; diam of eye 2.5

Eye Iris dark brown; bill blackish slate, except basal half of lower mandible which is blueish white; feet dark olive gray; soles yellowish.

No 3011 Tamias quadrivittatus ♂

cinericollis Allen.

Little Spring, S. Frisco Mt., Ariz.

Sep. 21, 1889.

Tl. 220 ^{mm}; tail 101 ^{mm}; hind foot 34 ^{mm}
No. 3011 a. Skull of same

No. 3012 Tamias quadrivittatus fasciatus
♂ lateralis

~~Little Spring~~ Crater Lake, b. Little Spring,

S. Frisco Mt. Ariz. Sep. 22, 1889.

Tl. 258 ^{mm}; tail 95 ^{mm}; hind foot 39 ^{mm}

No 3012 a. Skull of same.

No H. 137, Phrynosoma hernandesi

15725 Hull's Spring (between Little Spring,
S. Frisco Mt & Cañon Spring, Ariz.,
'alt.') Sep. 17, 1889.

Color sketch 4.

Border spines as well as tips of most spines on the extremities and tail white, more or less tinged with bluish green; tips of spines on body mostly of the latter color, except the large ones in the dark patches; under side whitish, scales anteriorly (basally) orange, those of the body with minute gray dots which are collected in larger spots, densest on chin and throat. Collar brownish orange. — Storer illustr. minimum = 3013

No. 3013. Stones from Hull's Spring, illustrating minimum of fragoris no.

Sep. 24. 1889. Little Spring.

Ph. 41 Skinning tent. L.S. - inst. 1.

Bright sun; 1.30 pm.

Ph. 42. Camp after moving do. do.

Ph. 43 S. Francisco Mt. from Dr.

Memo. tent door. 5x4 - 5 inst. 4.

Ph. 44 Water troughs, Little Spring, inst. 1. 2.

Ph. 45 Arizona Stier do do.

Panorama from Walker Lake Crater, highest point of rim (inst. 3 - 3.30 pm) bright sun.

Ph. 46 X X (2 or 3 on one plate!)

Ph. 47 San Francisco Peak.

Ph. 48 —

Ph. 49 —

Ph. 50 — (Hendrick peak in extreme right corner)

Ph. 51 Hendrick Peak (to the left).

Ph. 52 X X (Safety not closed when shutter clicked)

Ph. 53 Same — as xx

Ph. 54 —

Ph. 55 —

Ph. 56 — Rim of crater

Ph. 57 — S. Fr. peak in right hand corner;

the tree in the middle, same as

the one on extreme left in Ph. 47

end of Panorama.

Ph. 58 Walker Lake with S. Frisco Peak in background, from rim of crater.

inst. 3. - 3.45 pm. 5x4.

Ph. 59 do do.

Ph. 60 'Half blown rose' at the well.

inst. 1. 4 pm.

Ph. 61 'The fairy's cabin' (Nesbitt). S. Fr. do.

Ph. 62 O. O. O. ? —

No H. 138. — Sceloporus consobrinus

15739 Cedar Belt, half way between Cañon Spring and Little Spring, trig. about 6500 feet alt.

Sep. 17, 1889

Color of belly patches emerald green passing into brilliant blueish green towards the black line; neck patches more blueish than those of flanks.

No. H. 139. Phrynosoma hernandesi juv
15726 Canon Spring, Ariz.

Sep. 15, 1889.

Color pale reddish gray,
head and ^(in light portions) spines, more reddish,
less gray; the neck patches
and the cross bands of body
and limbs ^(including spines), as in the adult
but more regular and of a
dark gray color; chin and
throat tinged with same color as
upper surface and with faint
markings of gray; rest of
under surface white.

This is the most distinctly
marked specimen of this size I
have seen. ~~At~~ In most of the
younger ones, the whole upper
surface is more or less uniform
reddish gray with but faint

indications of the dark pattern;
in this respect the young ones
seem to be alike in all the
color varieties.

Color Descriptions of Reptiles & Batrachians
brought home by Dr. Merriam from
Moon Copie.

Bufo ^{woodhousei} "10" pale above pale olive green
with a somewhat lighter stripe down
the back; top of tubercles pale red
surrounded by black rings; lower
surface of olive white. - Tanner's
gulch, 3 miles north of Tuba City (2 miles
Moon Copie). - [Separate olive bottle?]

Ph. 63. - "One Cocks" Mill Street, ex G. F. McClan
[and picture?]. Sep. 29, 1889, inst. 1.
Bright sun. 11 a.m.

Ph. 64 Dr. do.

Color Sketch 5.

Bufo "11", Little Colorado River, crossing
^{woodhousei}

to Mon Copie, Sep. 22, 1889.

Iris brassy densely obscured by dark mottlings except narrow inner ring which is bright metallic. Under surface blueish white, ^{lower} abdomen and ^{inner} under side of posterior extremities pale brownish yellow; palms likewise, inner under surface of out. limbs pinkish.

"12" - Color Sketch 6. - Lizard from W. of
15824 *Crotaphytus wislizenii*
Little Colorado River (crossing to Montezuma) Sep. 26 '89

Under surface pale greenish white; palms slightly pinkish, tail under nearly white. Tongue deep pink; pharynx blackish carmine; palate ultramarine blue. Iris brassy greenish yellow

No 3014. *Buteo calurus* ♂ ad

Little Spring, S. Inyo Mt. Ariz.

Sep. 27, 1889

Iris ^{medium} dark brown. Bill dark horny ^{plumbeous} slate, ~~flat~~ pale, more greenish towards base of lower mandible; cere yellow; feet yellow, claws dark horny ^{plumbeous}.
T.L. 550 ^{mm}, wing 13 ^{mm}

No 3015 *Passerella schistacea* ♂

San Francisco Mt., Ariz., 9000'

Sep. 29, 1889.

Iris brown; bill dark horny plumbeous, basal half of lower mandible yellow; feet violet brownish gray.

"13" *Phrynosoma ~~smithi~~ hernandezii*

"3" ¹⁵⁸¹⁵ West of Little Colorado R., among black lava. Sep. 26, '89

Ground color of upper side ^(including head) sating black; light markings on median ^{well} third of body, "maples yellow" ^{abruptly} gradually

into the yellow ochre of those of the sides; tips of most lateral spines white. Those of few largest horns on head mottled with ochre; under side yellowish white, throat mottled with blackish; all over light ochre yellow.

Remark in re. to the Phrynosomas
collected by Dr. Merriam
in the ^{summer 1889} ~~neighborhood~~ ^{valley} ~~west~~. All from the
immediate neighborhood of St. Fran-
cisco Mt. ^{and} to the Grand Cañon
of the Colorado have the head
colored as in the Thom first
color sketch of Ph., viz, the an-
terior portion of a greenish
gray posteriorly grading into a
Indian red on the large occipital
spines, while those from the
Painted Desert ^(Mormon Copie trip) that are ^{a yellowish} brown
have the head similarly and
almost uniformly colored, and the
black specimen from the Lava
belt ("83") has the head black like
the rest of the body, except the largest
of the spines which are yellowish.

No. 3016 - Black Lava to illustrate
the color mimicry of the black
Phrynosoma "13" Merriam.

No. 3017. Moths.

Little Spring, S. Frisco Mt., Ariz.

Sep. 30 '89. - Found dead.

No. 3018 Anthus pensilvanicus ♂
S. Frisco Mt. Ariz. 9000'

Sep. 25 '89 (Knowlton skinned).

Photos from the Ducklar Ranch,

Start Spring, Ariz. Oct. 1, 1889, 11:30 am

Ph. 65 Readjusting the Pack.

Ph. 66 S. Francisco & adjacent Peaks

from in front of the house.

Ph. 67 Dr. Williams & Liljeström's Peaks
from same.

Ph. 68 The Ducklar house.

Ph. 69 Jack and Jennie (Mormons)

Ph. 70 The acronymic Mormon and his
family.

Ph. 71. A shot at the missing member.

Ph. 72 X Agassiz Peak, S. Frisco Mts.

Ariz. from $\frac{1}{2}$ mile north of
Flagstaff. - 4.30 pm. inst. 1. Sun.

Last picture and rest of paper
spoiled by reloading holder in
broad daylight.

Oct. 3. - New roll American
Film (420) put in at night
by lamp light, so first two plates
spoiled (old coil wound in darkness).

Ph. 73 (marked on plate) } Spoiled. X.

Ph. 74

No H. 140. Sceloporus Mta

15729.

Rim of Walnut Canon, 8 miles

S.E. of Flagstaff, Ariz., 7000' alt.

Oct. 2. 1889.

On throat a pale orange brown patch,
flank patches flesh color.

Ph. 75. Agassiz Peak, S. Frisco Mts.

Ariz. from Flagstaff. inst. 3.

3.30 pm. Bright sun.

Ph. 76 do do from a somewhat
different point.

Ph. 77 San Francisco Mountains
from train at Bellemont

Station, 12 miles west of

Flagstaff. 4.30 pm. inst. 1.

Oct. 4. Prescott. A.T.

Ph. 78 View of 'Thumb Butte' from balcony
of hotel Williams (Mrs. Baumann)

1 pm. inst 5. Bright sun.

Ph. 79 View of 'Granite Peak' from do. do. do.

No H. 141 Sceloporus

15740

Prescott, A.T., (on logs)

Oct. 4, 1889. (Flank and neck patches blue)

No H. 142 Sceloporus

15741

Prescott, A.T., (on logs)

Oct. 4 1889. (Flank and neck patches green)

Ph. 80. Same as 79, but 5.15 pm.,
partly cloudy, inst. 1.

Oct 5 '89. Prescott A.T.

Ph. 81. View of Prescott, from the water
reservoir. Clear inst. 1. 8.45 am

Ph. 81. View of Ft. Whipple from do. S. Pres
Mts, & in the distance. Do do do Falls

Ph. 82 Do do do. Focus 100.

Ph. 83. Typical specimen of *Juniperus*
pachyphloea ~~occidentalis~~: "cheek bark cedar",
Near Prescott. ab. 5500' - 25 feet dist;
gone to show size; 10.30 am. bright
sun. inst. 1. - Shrub oaks near.

Ph. 84 } Typical spec of *Pinus ponderosa*

Ph. 85 } do. do. - 75 feet dist. do. do.

84 possibly not exposed.

Ph. 86. *Cotyledon* from forest
inst. 1. 11.30 am. bright sun.

Ph. 87 Same, from behind, Prescott Court-
house in the distance. do do.

No 3019. *Parus griseus*
Prescott, A.T., 5500', Oct. 5 '89
T.L. mm, diam. of eye mm.
T.L. 5 ⁷/₁₆ inch.
Iris dark brown

No H. 143. *Phrynosoma* juv
15738 Prescott, Ariz. Oct. 5 '89.

No H. 144 *Sceloporus*
15742 Prescott, Ariz, Oct. 6 '89. (among rocks)

No H. 145 *Sceloporus*, Ariz, do
15743 Prescott, Ariz, Oct. 6, '89. (rocks)

No H. 146. *Sceloporus*
15744 Prescott, Ariz. Oct. 6 '89 (rocks).

NB. *Pinus ponderosa* occurs at
Prescott down to the plain,
or about 5200 feet without
regard to ^{main details of} slope exposure. ^{The whole valley sloping north}
is mixed with ^{cheek bark} cedar (*Junip.*
pachyphloea ~~occidentalis~~) extensively and scrub
oaks at least up to 5500'. On the
west slope of the Granite Ridge on the way to Skull Valley
the pine gives out about at 5500 and before then only in

~~No. 3020. - *Tamias dorsalis*~~

~~by the cat!
left skin taken
Prescott, Ariz. Oct. 6, 1889. Among rocks.
Tail evidently defective, forming a
thickened knob at the end, hence
no measurements!~~

~~No. 3020 b. Skull of same.~~

No. 3021 *Salpinctes* ♂

Prescott, Ariz. Oct. 7, 1889.

T.L. $5\frac{7}{16}$ inch.

Iris brown; bill dark brownish
plumbeous, lower mandible
paler grayish except tip; feet
blackish brownish black

No. 3022 *Tamias dorsalis* ♀

Prescott, Ariz. Oct. 7 '89 - 5600'

Tot. L. $9\frac{2}{16}$ inch; Tail $3\frac{15}{16}$ inch

hind foot, incl. claws, $1\frac{5}{16}$ inch

This species always seeks
safety among the rocks, like
T. lateralis

No. 3022 b. Skull of same.

No. 3023. *Spermophilus* ♂

Prescott, A. T. Oct. 7 '89 - 5600'

T.L. $13\frac{12}{16}$ inch; Tail $5\frac{14}{16}$ inch

hind foot incl. claws $2\frac{3}{16}$ inch

No. 3023 b. Skull of same.

No. 3024 *Spermophilus* ♂

Prescott, A. T. Oct. 7 '89. - 5600'

T.L. $15\frac{2}{16}$ inch; tail — inch

hind foot incl. claws — inch

No. 3024 b. Skull of same

Pl. 88.

Oct. 8, Stage

Pl. 88. - Watching the horses (stage coach)

(Skull) (lower jaw) 2 from 2 from
Glean inst. 1.

Pl. 89 Spoiled by exposure to daylight. On
plate variously inscribed 88

Pl. 90 do do. ?

Oct. 9, 1889 - Vulture ^{mine} P.O. Ariz
Monterey Co.

Studies of cactuses.

Ph. 91 'Candlestick cactus' Cereus giganteus

Given to compare for size: sent L. Wright
on 11.30 am. (5x4)

Ph. 92 cactus (same as I ran

into my skin. do. do do. (4x5)

Ph. 93 Fouquiera (Spinosa) splendid. Oct. 10
~~cactus~~ ~~with~~ ~~hairs~~ ~~Yuccatal.~~

do do do do

Ph. 94. From generations of Candlesticks.

do do do do. 12 noon

No 3025. Auriparus

♂ &

Vulture ^{mine} P.O., Ariz., Oct. 9 '89

T.L. 110 ^{mm}; diam. eye 2.5 ^{mm}

Iris dark brown; bill horny blackish
plumbeous, paler at base of lower
mandible; feet blueish plumbeous:
parine! Call note very characteristi-
cally parine: chickadee-like!!
Molting all over.

No 3026 Phedipila

o

Vulture, Ariz., Oct. 9 '89.

T.L. 107 ^{mm}; diam. eye 2.75 ^{mm}.

Iris brown; bill dark plumbeous, paler
at base of lower mandible; feet blueish
plumbeous, soles whitish. Call note
decidedly catbird-like. Molting all over.

No 3027 Amphispiza

♂

Vulture, Ariz. Oct. 9 '89.

T.L. 137 ^{mm}; diam. eye 3.5 ^{mm}.

Iris brown; bill blackish plumbeous,
lower mandible, except tip, paler
blueish gray, feet pale horny gray.
Molting, especially head.

No 3028 Amphispiza

♀

Vulture, Ariz., Oct. 9 '89

T.L. ^{mm}

Colors like Amphispiza.

No 14. 147 - Lizard Cnemidophorus tigris

157#9

Vulture, Ariz. Oct. 9 '89.

No. 148. Lizard Callisaurus draconoides.

15734 Vulture, Ariz. Oct. 9 1889.

White underneath without colored flank patches; on
On white sand sides of throat dusky lines

No. 149. Lizard Crotaphytus wislizeni

15736 Vulture, Ariz. Oct. 9 1889.

No. 3029 Tamias ♂

Vulture, Ariz. Oct. 9, 1889.

T.L. 210 ^{mm}; tail 77 ^{mm}

hind foot, incl. claw, 38 ^{mm}

Among rocks.

No. 3029 b. Skull of same

No. 3030. Sayornis ♂

Vulture, Ariz. Oct. 9, 1889

T.L. 192 ^{mm}; diam. egg 3 ^{mm}

Iris dark brown; bill and feet
brownish black.

No. 150. Lizard. Callisaurus draconoides

15735 Vulture, Ariz. Oct. 9, 1889

Flanks light emerald green,

the two dark bars do
the sides being darker
front of each green,
smaller one of flesh colored; throat

Negatives

Oct. 10. which without dusky lines.

Ph. 95 - Echinocactus
Cylindropuntia cactus with curved

spines. - Vulture, Oct. 10. - 11.30 am.

Bright sun; inst. 1. - 10 feet distant.

Cactus 900 ^{mm} high.

No. 3031. Campylorhynchus ♀

Vulture, Ariz. Oct. 10 '89

T.L. 198 ^{mm}; diam of egg 3.5 ^{mm}

Iris copper red; bill slaty brown
lower mandible, except tip, pale
bluish gray; feet dull pearl
gray; Primaries molting

No. 3032 Salpinctes ♂

Vulture, Ariz. Oct. 10 '89

T.L. 145 ^{mm}

Colors as No. 3021.

No 148. Lizard Callisaurus draconoides.

15734 Vulture, Ariz. Oct. 9 1889.

White underneath without colored flank patches; on
On white sand sides of throat dusky lines.

No 149. Lizard Crotaphytus wislizenii.

15736 Vulture, Ariz. Oct. 9 1889.

No 3029 Tamias ♂

Vulture, Ariz. Oct. 9, 1889.

T.L. 210 mm; tail 77 mm.

hind foot, incl. claw, 38 mm.

Among rocks.

No 3029 b. Skull of same

No 3030. Sayornis ♂

Vulture, Ariz. Oct. 9, 1889

T.L. 192 mm; diam. egg 3 mm.

Iris dark brown; bill and feet
brownish black.

No 150 - Lizard. Callisaurus draconoides

15735 Vulture, Ariz. Oct. 9, 1889

Flanks light emerald green,

the two dark bars descending from
the sides being darker green; in
front of each green patch a
smaller one of flesh colored; throat

white without dusky lines.

Oct. 10. Ph. 95 - Echinocactus
Cylindropuntia with curved

spines. - Vulture, Oct. 10 - 10.30 am.

bright sun; inst. 1. - 10 feet distant.

cactus 900 mm high.

No 3031. Campylorhynchus

♀

Vulture, Ariz. Oct. 10 '89

T.L. 198 mm; diam of egg 3.5 mm

Iris copper red; bill slaty brown
lower mandible, except tip, pale
bluish gray; feet dull pearl
gray; Primaries nothing

No 3032 Salpinctes

♂

Vulture, Ariz. Oct. 10 '89

T.L. 145 mm

Colors as No. 3021.

No 3033 Harporhynchus palmieri ♀

Vulture, Ariz., Oct. 10 '89

T.L. — ^{mm}; diam. eye 5 ^{mm}

Iris orange yellow; bill and feet
horny dark brownish gray.

No 3034 Phainopepla nitens ♂

Vulture, Ariz., Oct. 10 '89

T.L. 192 ^{mm}; diam. eye 3.5 ^{mm}

Iris copper red; bill and feet
brownish black; lower mandible
at base pale brownish gray.

No 3035 Lanius ♂

Vulture, Ariz., Oct. 10 '1889

T.L. 233 ^{mm}; diam. eye 5 ^{mm}

Iris dark brown; bill dark
plumbeous; feet brownish
black; Primaries molting and all over.

No. H. 151 Lizard. Uta

15727

Vulture, Ariz., Oct. 10 '1889

No. H. 152 Lizard. Uta

15728

Vulture, Ariz., Oct. 10 '89

Mr. In addition to the four species of
lizards collected at Vulture, I
noticed several specimens of
Cnemidophorus
inornatus with pale
sky blue tail, the same as observed
at Prescott, and at Phoenix

No H. 153 Horned Rattlesnake Crotalus cerastes

15723

Vulture, Ariz., Oct. 10 '89.

Found dead and only head and
rattle preserved.

No 3036 Dophotyphlops ♂

Vulture, Ariz., Oct. 10, 1889.

T.L. 287 ^{mm} diam. eye 4 ^{mm}

Iris dark brown;

Mr. — The "candle stick" cactus appears first
about 7 or 8 miles south of
Stanton, on road between Prescott & Phoenix, Ariz.

Ph 96 X Vulture Peak, from south side.

8 am. 1 inst. (Spotted).

Ph 97 do do.

P.S. The timberline (*Pinus ponderosa*) around Prescott is laid down on a map by John T. Hardy, geol. of the territory, first published in the Journal of Mining Engineering, 1882. Prof. Hardy has in preparation a more detailed map. - The candle stick cactus he informs me goes up to about 3000 feet.

No 3037 Speotyto

♂

33 miles nw. of Phoenix, A.T.,
half way between Ph. and Vulture.

Oct. 11, 1889

T.L. 232 ^{mm}, diam egg 11.5 ^{mm}

Iris yellow; ^{light} horny greenish-yellowish
gray; feet drab gray.

No 3038. Lepus

o. immat.

Phoenix, A.T. Oct. 12, '89.

T.L. 368 ^{mm} tail 56 ^{mm}

hind foot incl. claws 80 ^{mm}

No 3038 b. Skull of same.

No H. 154. - Lizard *Cnemidophorus* ^{signatus}
¹⁵⁷⁵⁰ Phoenix, A.T. Oct. 12 '89.

No H. 155 Turtle *Kinosternon henrici*.

¹⁵⁷⁵⁵ Salt River, Phoenix, A.T. Oct. 12 '89. (alive)

No H. 156 Lizard. Uta

¹⁵⁷³⁰ Phoenix, A.T. Oct. 14 '89.

On throat are ill-defined patches of
pale brownish orange.

Ph. 98. - Maricopa Indians at
Tempe RR station. 2 per. cloudy
inst. 1.

No. H. 157. Snake *Phyllorhynchus browni* n.s. & g.
Tucson, A. T.

Presented by Mr. Herbert Brown, Tucson.

No. H. 158 lizard. *Sceloporus clarkii*!!

15745 Tilden, A. T. Oct. 15, 1889.

No. H. 159. Lizard To Uta

15731 *Tremm, A. J. Oct. 15, 1889*

Flank patches pale greenish blue,

Horat paten. very pale greenish.

Ph. 99 - San Augustine, Church, Tucson, A. T.

Oct. 15. 1889. — Bryant Ave. 11:30 am. inst. 1.

Ph. 100 ds. dr. ds.

Ph. 101 de du 12 noon.

Ph. 102 Santa Catalina Mts from R.R.

Station, Tucson, A.T. - 1.30 pm. Dist.

Ph. 103 do do do. 5 inst.

Oct. 17.

Ph. 104. Mexican

8 ann.

Ph. 105 Mex Fan

Ph. 106 M. water c

Ph. 107 Mex. Isla

123039 Spermophilus ♂ juv

2 miles south of Nogales, Sonora, Mex.

Oct. 17, 1889.

T. l. 420 mm, tail 200 mm

hind foot incl Toes 57. mm

No 3039 b' Skull of same.

Mr H. Neo. lizard *Cnemidophorus guttatus*

15751 2 m. s. Nogales, Mex. Oct. 17 '89

Tail and hind legs pale reddish

brown, almost transparent; dorsal

median stripe dark like head,

the other light stripes pale straw

color becoming white posteriorly.

No. 14. 161 Lizard *Cnemidophorus gularis*

15752 2 m. S. Rogers, Mex. Oct. 17 '89

Ph. 98. - Mariopa Indians at
Tempe RR station. 2 pm. cloudy
inst. 1.

No H. 157. Snake *Phyllorhynchus browni* n.s. & g.
Tucson, A.T.

Presented by Mr. Herbert Brown, Tucson.

No H. 158 Lizard *Sceloporus clarkii*!!

15745 Tucson, A.T. Oct. 15, 1889.

No H. 159. Lizard *Uta*

15731 Tucson, A.T. Oct. 15, 1889

Flank patches pale greenish blue,
throat patch very pale greenish.

Ph. 99 - San Augustine, Church, Tucson, A.T.

Oct. 15, 1889. Bright sun. 11:30 am. inst. 1.

Ph. 100 do. do. do.

Ph. 101 do do 12 noon.

Ph. 102 Santa Catalina Mts from RR.

Station, Tucson, A.T. - 1:30 pm. inst.

Ph. 103 do do do. 5 inst.

Oct. 17.

Ph. 104 Mexican Watercarrier, Mex Nogales.

8 am. inst. 1 bright sun (ficus?)

Ph. 105 Mex Farm house (adobe) do. do do.

Ph. 106 M. water carriers do do. 8:15 am. inst. 1.

Ph. 107 Mex. Ishanty, Nogales, do do do. 8:30 am

23039 *Spermophilus* ♂ juv

2 miles south of Nogales, Sonora, Mex.

Oct. 17, 1889.

T. l. 420 mm; tail 200 mm

hind foot incl. toes 57. mm

No 3039 B Skull of same.

No H. 160. Lizard *Grundophis gularis*

15751 2 m. S. Nogales, Mex. Oct. 17 '89.

Tail and hind legs pale reddish
brown, almost transparent; dorsal
median stripe dark like head,
the other light stripes pale straw
color becoming white posteriorly.

No H. 161 Lizard *Grundophis gularis*

15752 2 m. S. Nogales, Mex. Oct. 17 '89

Body like frogging, but hind
legs and tail opaque brownish
drab... like frogging among on stony ground

No H. 162 Lizard Uta

15732 2 m. s. Nogales, Mex., Oct. 17, 1889.

Flank and throat patches blue.

On logs.

No 3040 Dryobates scalaris bairdi ♀

2 m. s. Nogales, Mex. Oct. 17 '89.

Iris dark chestnut; bill dark
greenish slate; feet, ^{pale} greenish
plumbeous.

Tl. 170 ^{mm} diam of egg 3 ^{mm}

No H. 163 Lizard Cnemidophorus gularis

15753 Calabasas, A.T., Oct. 18, '89

= No. 16041: tail brownish drab = 161.

No H. 164 Lizard Sceloporus

15746 Calabasas, A.T., Oct. 18, '89.

No H. 165 Lizard Uta

15733 Calabasas A.T. Oct. 18 '89. Catches on house wall.

Flank patches pale sky blue; throat patch
pale yellowish green in the middle, orange on the sides.

No 3041 Pyrocephalus mexicanus ♂ ad

Calabasas A.T. Oct. 18 '89

Tl. 145 ^{mm}; diam. of egg 4 ^{mm}

Eyes brown; bill and feet blackish
brown.

No 3042 Pipilo maculencus ♂

Calabasas A.T. Oct. 19 '89.

Tl. 222 ^{mm}; diam. egg 4.5 ^{mm}

Eyes raw umber; bill pale
purplish gray; feet pale
brownish gray

No 3043 Centurus uropygialis ♂

Calabasas, A.T. Oct. 19 '89

Tl. 240 ^{mm}; diam egg 4 ^{mm}

Iris chestnut; bill blackish
plumbeous; feet pale greenish
gray. Primaries & crown patch and
all as
brothers;

No 3044 Harporhynchus palmeri ♀

Calabasas A.T. Oct. 19 '89

Tl. 295 ^{mm} diam egg 5 ^{mm}

Iris orange yellow.

Oct. 20.

Ph. 108 Mex flour mill, Ranch near
Mission. 10 am. slightly
cloudy; inst. 1.

Ph. 109 do. do.

Ph. 110 Ruins of Mission Church "Mission
de San Juan de Tumulacacori," 10 miles
n. of Calabasas.
Exterior, front. 11.30 am; lightly veiled; inst. 1.

Ph. 111 do, front, at close range

Ph. 112 do interior: toward the altar,
from the entrance.

Ph. 113 do: ceiling of abois

Ph. 114 do: looking toward the entrance

Ph. 115 do: ^{interior} from top of triglyph above entrance.

Ph. 116 do: baptisterium (?) in yard

Ph. 117 do: church from the yard.

Ph. 118 do do.

Ph. 119 do: exterior. do do.

No. H. 166 lizard. Sceloporus clarkii!

15748 Tumulacacori, 10 m. n. of Calabasas A.T.

Oct. 20 '89. - On adobe wall.

Under side white with faint
trace of bluish throat and
flank patches (Shortly after
death these become intensely
blue broadly bordered with
black. Upper parts lighter than
in the alcoholic specimens and
most of the dorsal scales bronzy
green at base.

No. 3045. Agelaius phoeniceus ♂

Calabasas, A.T., Oct. 20 '89

TL. 222 ^{mm}; diam. eye 4.5 ^{mm}

No. 3046. Dryobates scalaris bairdi ♂

Calabasas, A.T., Oct. 21 '89

TL. 177 ^{mm}; diam. eye 3 ^{mm}.

Iris dark reddish brown; bill blackish
plumbeous, lighter at base of upper lower
mandible; feet pale greenish plumbeous.

No. The Geococcyx collected by Bailey at Calabasas
measured ^{mm}
TL. 585 ^{mm}; diam. eye 8 ^{mm}

No 3047. *Sphyrapicus nuchalis* ♀

Calabasas, A.T. Oct. 21 '89

Tl. 218 mm diam. egg 4 mm

Bill dark purplish slate, paler
below; feet dull pale plumbeous.

No 3048 *Mimus polyglottis* ♀

Calabasas A.T. Oct. 21 '89

Iris ^{brownish} yellowish.

No 3049 *Peperomyia leucophrys concolor* ♂ juv.

Calabasas A.T. Oct. 22 '89.

Tl. 120 mm; tail 52 mm

hind foot with claw 19 mm

No 3049 b. Skull of same

No 14. 167. *Liquid. ~~Centropus~~ *gularis**

15754 Calabasas, A.T. Oct. 22 '89.

Tail pale sky blue, light stripes
on body pale straw yellow.

No 3050. ~~*Polioptila*~~ *Calcaricus ornatus* ♀ ad

Calabasas, A.T. Oct. 22 '89.

Tl. 151 mm; diam. egg 4 mm

Iris brown; bill brownish slate,
lower mandible pale; feet
horny brown;

No 3051 *Campylorhynchus brunnicapillus* ♂

Calabasas A.T. Oct. 22 '89

Tl. 210 mm; diam. egg 4 mm

No 3052. *Thryothorus bairdi* ♀

Calabasas A.T. Oct. 22 '89

Tl. 133 mm; diam. egg 3 mm

No 3053 *Lepus* ♂

Calabasas A.T. Oct. 23 '89

Tl. $14\frac{14}{16}$ inch; tail $2\frac{5}{16}$ inch

hind foot incl. claws $3\frac{8}{16}$ inch.

No 3053 b. Skull of same.

No 3054. *Catherpes ^{mexicanus} ~~compensus~~ *punctulatus** ♂

Calabasas A.T. Oct. 23 '89.

Tl. 147 mm diam. egg 3 mm

Iris brown; bill dark brownish
slate, lower mandible gradually
becoming paler basally, the basal third
wholly being nearly white; feet dark horny ^{brown}

No 3055. Spermophil

♀

Calabasas A.T. Oct. 23, 1889.

Tl. 445 mm; tail 187 mm

hind foot, incl. claws, 56 mm

No 3055 b. Skull of same.

No: Character 6' in Ammodramus
Ridgw. & Maurer p. 407: "Tail
3 times as long as tarsus" does not
hold; not one of the averages shows
this proportion! In A. baileyi with
tail only 2 1/2 times tarsus length of
latter is not given!!

Also in d² (p. 408), "tarsus" for
exposed culmen!

No 3056 Cardinalis e. superbus

♂

Calabasas, A.T. Oct. 24 '89

Tl. 240 mm diam. egg 4.25 mm

Iris brown; bill ^{adult} orange red
brownish at base; feet brownish gray

No H. 168. Frog

15720.

Sonita Creek near Calabasas A.T.

Oct. 23 '89.

~~Color green with dark brownish~~
~~olive~~

No H. 169 lizard Holbrookia

15737

Calabasas, A.T. Oct. 23 '89.

No 3057 Calamospiza melanocorys

♂

Calabasas A.T. Oct. 24 '89.

Tl. 175 mm; diam. egg 3.5 mm

Iris brown; bill pale bluish
gray, lower mandible pale, ~~mostly~~
more whitish; feet ~~brown~~ grayish
brown.

No 3058 Dipodops

♂ ad

Calabasas A.T. Oct. 24 '89

Tl. 233 mm; tail 136 mm

hind foot incl. claws 36 mm

No 3058 b. Skull of same

No 3059. Dipodops

J

Calabasas, A.T. Oct. 24 '89.

Tl. 210 mm; tail, 130 mm

hind foot and claws 35 mm

No 30596. Skull of same

Oct. 25 '89.

Ph. 120. View of country near Calabasas

from foothills of the Cayatano Mts.

barom. 3365' looking east, to

show effect of slope exposure on

hill in middle of picture; the

north slope being covered with narrow-
leaved Agaves

yucca while the south slope

is covered with "Yuccatels" (For-
guieria) and mesquite "cat-claw".

The crest of the hill runs nearly

straight east and west. 9.30 am.

sun slightly veiled; inst. 1.

Ph. 121 Santa Rita Peak from southernmost

peak of Cayatano Mts, Calabasas, 4550'

to the left in far ground are other peaks of

11.30 am. sun but slightly veiled by cirrus; inst. 5.

Ph.

No 122

Agave, narrow-leaved, red slope of

4475'

Calabasas A.T. 12 noon. D. D. V. Bailey.

5x4.

Ph.

No 123

"Lover's Glen" Cañon, Calabasas

12.30 pm D. D. 4x5

No H. 170 Frog.

15721

Smoots Creek, Calabasas, A.T.

Oct. 25, '89.

No H. 171 lizard Sceloporus

15747

Calabasas A.T., Oct. 25, '89.

On the RR track among stones.

On the flanks a longitudinal,

narrow patch of pale

sky blue, and a spot of similar

color on each side of the neck

below the ear opening.

No 3060 Rhynchophanes meconis

J

Calabasas, A.T. Oct. 25 '89.

Tl. 153 mm diam. eye 3.75 mm

Iris dark brown bill clay colored, paler
underneath, tip dusky; feet dark horn brown

No 3061 ^hTomomys ♂ ad

Calabasas, A.T. Oct. 25 '89.

Fl. 210 ^{mm}, tail 62 ^{mm}, hind foot
incl. claws 30 ^{mm}

No. 3061 b. Skull of same.

Oct. 27. 1889 - Calabasas A.T. ✓

Ph. 124. Unloading burro train
bringing in ore in bags, at
R.R. station. Bright sun; 12:15 pm. inst 9.

Ph. 125 Do. do. inst. 3.

Ph. 126 Do do inst 5.

Ph. 127. Burros from do. do inst. 5?

Ph. 128. Raising a burro do do. inst. 1.

Ph. 129. Santa Rita hotel, Calabasas,
from S.E. Daily on balcony.
12:30 pm. inst 1.

Ph. 130 X? Has probably both the "tank house"
and the Santa Rita Mts. from
balcony of Santa Rita hotel inst.
4:15 pm. bright. inst. 1.

Ph. 131 (or 132) Cayatana Mts and
Santa Rita Peak, from Lobby
balcony Santa Rita hotel. 4:15 pm.
inst. 1.

Oct. 28 '89. - Calabasas A.T.

Ph. 133, "Tank house" Santa Rita Hotel
from the hotel balcony. Daily in drive.
3:15 pm. bright, inst 1.

No H. 172. Frog.

15722 Calabasas, A.T. Oct. 29, 1889.

Brickyard pond.

Ph. 134 Croton in garden, Hotel Santa Rita,
Calabasas, A.T. Oct. 29 '89. 10:45 am
bright sun. inst. 1.

No 3062 Rooting nest of itavi-
parus flaviceps ♂
Calabasas, A.T. Oct. 29, 1889.

No 3063 Skunk ♀
Huachuca Station A.T.
Oct. 30, 1889.

Tel. 595^{mm}; tail 270^{mm}
hind foot incl. claw 62^{mm}

No 3063 b. Skull of same

Oct. 31. 1889. Ft. Huachuca

Ph. 136 X Spotted.

Ph. 137 - Hotel Huachuca, Ft. H. a T.

1.55 pm bright sun inst. 1.

Ph. 138 - Broadland Square

with a small land one in the

background; Ft. Huachuca. '5025' feet, not

corrected. 1.45 pm do. do. 5x4

Grass 24 inches long.

Ph. 139 Hawk. o o.

Ph. 140 Fort Huachuca, A.T., from the hill

south of it. 2 pm. 4x5. inst. 1.

Ph. 141 Do do do do. inst. 5.

Ph. 142 Do do do do do 3.

Ph. 143 Do do; from nearer and lower. inst. 1.

N.B. The following altitudes, except under heads of species, are not corrected.

Nov. 1. Ft. Huachuca (Hotel).

Barom. 178; 8 am local time

24.23 = 4720'

9 am. At the water reservoir in the valley

a little over 2 miles

south of the fort barom. 23.75 = 5225'

Here a tall ^(40') and old *Juniperus*

pacchylota; this species appears in

small exemplars about 1 mile from

the fort.

First ^(20') small *Pinus ponderosa* in

valley 9.30 am. bar. 23.58 = 5410'

A few feet higher a large tree,

60 centim. in diam. at base, and

young trees become ^{more} numerous; among

the oaks; no. bycamous any more —

Pinus ^{of this size} now numerous among the

oaks on the east slope of the valley up

to the top, but none yet on the western

slope.

10.45 am valley bifurcates barom. 23.29
= 5715' f. Lycamons only occasional
here still a large one. Pines not yet on
western slope. - Going up the left (east) fork
then shortly the valley again widens.
this time up right or southern branch.
Pines now become numerous, but
the short-needled kind, only occasional

P. ponderosa. Oak still continues.

Long cañon a little higher up.

11.15 barom. 23.09 = 5930' Pinon with nuts
here on 5 ~~rods~~ square side by side:

P. ponderosa, other Pine, Pinon, Junco. ^{in fruit} ~~large~~ broad-leaved agave; birds:

Black crested Jay; *Melanerpes formicivorus*, bird;

Junco yellow eyes

12.15 pm ~~Pass~~ large fruit bearing broad-leaved
agave. Still no pines on left east slopes
except pinons, and Junco. p. - Barom. 22.66 =
6410' - Ascent 45 min

1 pm. Pass. Bar. 22.62 = 6460' - Lizards.

From the top of the pass I can see
unobstructedly south over lower ridges, the
horizon being formed by blue mountains
way back in Mexico. It is evident that
the Huachuca Mts are not continuous with
the latter or wide plainlike valley
separating them. Nor does the pine appear
on the south slopes of Huachuca Mts.
as seen from here, except on the higher
peaks, and the pines are consequently
not continuous with what pine forests
there are in the Mexican Mts. 40 or
more miles away. I am told by Mr. Abbott
that the Junco Woodpeckers were not shot
30 miles south of the boundary but
at least 120 miles, and with the country
now lying at my feet I am ready to
believe him.

5.30 pm Hotel Huachuca Barom: 24.40 = 4850
Nov. 2.
8 am. Hotel Huachuca, Barom: 24.21 = 4750
1 pm: 24.18 = 4780

No. H. 173 Lizard *Peta*

15761.

H. Huachuca, A.T. Pass Summit 6700'.

November 1, 1889.

A faint ~~pale~~ cream-colored patch in middle of throat.

No. H. 174 Lizard *Sceloporus*

15756

H. Huachuca A.T. Pass Summit 6700'

Nov. 1 '89.

On throat a large patch of brilliant ultra marine blue running backward on each side of the neck; ~~on each~~ flanks pale greenish blue terminating ^{forming} on the groins in a black spot; scales on back creamy white, black at base; on upper neck a black collar bordered posteriorly with white; longitudinal stripe on each side of upper neck, and stripes on sides of head likewise white; tail suffused with greenish blue; throat in front of blue patch and ~~middle~~ belly, lower parts white.

(no black bordering blue patch; the black surrounding it appeared after death).

No 3064 *Spermophilus*

♀ ad.

H. Huachuca Valley A.T. about 5800'.

Nov. 1 '89

T.l. 458 mm tail. 217 mm

hind foot incl claws 55 mm

No 3064 b. Skull of same

No 3065 *Junco*

♀

H. Huachuca Valley, A.T. 5000-6000'

Nov. 1 '89.

Tl. 152 mm, diam of eye 3.5 mm

Iris bright deep chrome; bill: upper mandible ^{very dark horny} blackish brown, lower mandible horny buff; feet pale brownish flesh.

No 3066 *Passerella*

♂

H. Huachuca Valley, A.T. at 5800'

Nov. 1 '89.

Tl. 157 mm, diam of eye 4 mm

Iris brown; Bill brownish slate, sides at base and basal half of lower mandible wax yellow. Feet pale brownish flesh.

No 3067 Pipilo ♀

Ft Huachuca Valley, A.T. 5000-6000'

Nov. 1 '89

TL 203 ^{mm}; diam. eye 3.75 ^{mm}

Iris pale raw umber; bill blackish brown; feet dark grayish brown.

No 3068 Cyanocitta ♀

Ft Huachuca Valley, A.T. 6000'

Nov. 1 '89.

TL 290 ^{mm}; diam. eye 6 ^{mm}

Iris dark brown; bill and feet black.

No 3069 Aphelocoma ♀

Ft. Huachuca Valley 6000-6700'

Nov. 1 '89.

TL 327 ^{mm}; diam. eye 6 ^{mm}

Iris very dark brown; bill blackish slate, below at base whitish; feet black.

No H. 175 lizard Sceloporus

15757 Ft Huachuca A.T. 5300'

Nov. 2 '89.

Changed in color very greatly after death. When just shot it was nearly black all over, except the blue patches underneath and on the under surface of the tail, so black in fact that it was almost impossible to distinguish the pattern on the upper neck. When ~~examined~~ examined an hour after, when coming home, it had changed to the same colors as no 174. In the living animal the blue throat patch was deep ultra marine blue verging to Prussian blue on the posterior branches down each side of the fore neck; this continued though considerably duller back-wards on each side of the chest until they meet the flank patches which were vivid greenish blue; the black groin patch was also strongly suffused with Prussian blue;

not of under surface, except of tail
which was whitish, was a smoky
blackish; upper surface, including tail,
smoky black with a faint coppery
luster on the back.

No 176 Lizard *Sceloporus*

¹⁵⁷⁵⁸ Ft. Huachuca A.T. 5700'

Nov. 2 '89.

Like *jugosus*, though not quite so
dark; tail with a decided greenish
blue tinge. Changed like *jugosus*.

No 177 Lizard *Sceloporus*

¹⁵⁷⁵⁹ Ft. Huachuca A.T. 5700'

Nov. 2 '89

Like *jugosus*, perhaps still
lighter and changing in the same
manner; underneath whitish, except
posterior throat and flanks which
were of a pale sky blue.

No 178 Lizard *Uta*

¹⁵⁷⁶⁰ Ft. Huachuca A.T. 5800'

Nov. 2, 1889.

On throat a patch of vivid straw
yellow.

No 3070 *Spizella*

♀

Ft. Huachuca A.T. 5800'

Nov. 2 '89.

Pl. 133 ^{mm} diam. eye 2.5 ^{mm}

Iris brown; ^{bill} horny brown above, flesh
color below; feet pale horny brown.

No 3071 *Sialia*

♂

Ft. Huachuca A.T. 5800'

Nov 2 '89.

Pl. 167 ^{mm}; diam. eye 4 ^{mm}

Iris dark brown.

No 3072 *Spermophilus*

♂ juv

Ft Huachuca Valley, 5600' A.T

Nov. 1 '89

Pl. 375 ^{mm}; tail 167 ^{mm}; hind foot 51 ^{mm}.

No 3072 b Skull of same.
Nov. 3.

No. 144 - Ft Huachuca and Huachuca
Valley from the north. 10.30 am.
light sun. inst. 1.

No. 145 - Dipodomys hill, 4 miles north
of Ft Huachuca. do do do 11.45

No. 146 - do do, slightly different view.
Diameter of hill 3 metres; height
60 centims

No 3073 Lepus ♂
Huachuca Plains, A.T. Nov. 3 '89.

Iris pale raw umber.

TL. 560 mm; tail 83 mm

hind foot incl. claws 130 mm

No 3073 b. Skull of same

No 3074 Otocoris ♂

Huachuca Plains, A.T. Nov. 3 '89.

TL 167 mm; diam eye 3.5 mm

Iris brown; bill plumbeous, darker

at tip; feet brownish gray.

No 3075 Junco ♂

Silver City, N.M. Nov. 5 '89.

TL. 150 mm; diam. eye 3.5 mm

Iris very dark brown; bill flesh
color, tip dusky; feet brownish gray.

No 3076 Junco ♂ !!

Silver City, N.M. Nov. 5 '89.

TL. 155 mm; diam eye 3.5 mm

Colors as foregoing.

No 3077 Harporhynchus ♀

Silver City, N.M. Nov. 5 '89

TL. 270 mm diam. eye 6 mm

Iris ochrace yellow; bill black;
feet ^{dark} brownish gray, Tarsus
lighter behind.

No 3078 Lepus ♂

Silver City, N.M. Nov. 5 '89

T.L. 343 mm tail 33 mm

hind foot incl. claws 82 mm

Iris dark hazel

No 3078 b Skull of same

No 3079 Lepus ♀

Silver City, N.M. Nov. 5 '89

Total. 340 mm tail 46 mm

hind foot with claws 84 mm

No 3079 b Skull of same.

No 3080 Lepus ♂

Silver City N.M. Nov. 5 '89

T.L. 327 mm; tail 36 mm

hind foot incl claws 80 mm

No 3080 b. Skull of same.

No 3081 Lepus ♂

Silver City, N.M. Nov. 5 '89

TL 595 mm; tail 83 mm

hind foot incl claws 136 mm

No 3081 b. Skull of same.

Nov. 7 '89 Silver City, N.M.

Ph. 147 Yucca. Dist. 1. height 3.15 m

Ph. 145 Yucca with fruit stalks 20 20 20 5x4

Ph. 149 Same plant do do do 5x4

Ph. 150 ~~Same~~ Ore Mill Unloading
Silver ore from Ores. Alts.
Dist. 1. height 4 m.

Ph. 151 do do do do

Ph. 152 do do do do

B The altitude of Silver City as ascertained by RR leveling from the sea is said to be nearly 6000', or near so, that 2d story of this hotel may be considered to be 6000' within a few feet. Nov. 178 Nov. 7. 7th pm 23.45 (-5550!)

The country around Silver City is a rolling plain cut by numerous "crazes" and ^{thinly} covered with Yucca, shrub oaks, Piñon and both species of Juniperus both *padleyana* and the strip bark species.

Species of birds observed in addition to those previously.

Red tailed hawk
Carpodacus
Regulus calendula

Pipilo macrourus

(*Aphelocoma*)
Sylvia (red crowned)
Merula propinqua

Colaptes cafer

Lanius

Amphispiza bilineata

(*Zonotrichia*)

No 3082. *Harporhynchus*

♂

Silver City, N.M. Nov. 7 '89.

Tl. 300 ^{mm}; diam. eye 4.5 ^{mm}

Iris clay colored; bill black; feet dark brownish gray.

No 3083 *Oarus*

0

Silver City N.M. Nov. 7 '89

Tl. 133 ^{mm}; diam. eye 2.75 ^{mm}

Iris brown; —

No 3084

♂

Silver City N.M. Nov. 7 '89.

Tl. 220 ^{mm}; diam. eye 4 ^{mm}

Iris chrome yellow; bill very dark brownish gray; feet dark brownish gray.

No 3085 *Pipilo*

♀

Silver City N.M. Nov. 7 '89

Tl. 198 ^{mm}; diam. eye 4 ^{mm}

Iris brown; bill pale lilac gray, upper half of upper mandible dusky; feet lilac gray. Tars darker gray.
Common among the houses in town.

No 3086 *Myadestes townsendi*

♀

Silver City N.M.; Nov. 7 '89

Tl. 210 ^{mm}; diam. eye 5 ^{mm}

~~Egg~~ Iris brown; bill ^{brownish black} blackish brown; feet blackish brown.

No 3087 *Spizella*

♂

Silver City N.M.; Nov. 8 '89

Tl. 138 ^{mm}; diam. eye 3 ^{mm}

Iris dark brown; bill brownish flesh color, culmen dusky; feet pale brownish gray.

No 3088 *Osaltripes*

0

Silver City N.M.; Nov. 8 '89

Tl. 105 ^{mm} diam. eye 2 ^{mm}

Iris dark brown; bill and feet black.
Voice decided, raspy, somewhat tagittal

No 3089 *Thryothorus*

♀

Silver City N M.; Nov. 8 '89

Tl. 133 ^{mm}; diam. eye 3 ^{mm}

Iris dark brown.

No 3090 *Aphelocoma*

♂

Silver City N M.; Nov. 8 '89

Tl. 295 ^{mm}; diam. eye 6 ^{mm}

Iris brown; bill and feet black.

No 3091 *Otocoris*

♂

Silver City N M. Nov. 8 '89.

Tl. 163 ^{mm}; diam. eye 3.5 ^{mm}

Iris brown; bill slate colored, paler,
nearly whitish at base of lower
mandible; feet brownish slate.

No 3092 *Lophortyx*

♂

Silver City N M. Nov. 7 '89

Tl. 283 ^{mm}; diam. eye 5 ^{mm}

Iris brown; bill black; feet pale
brownish pearl gray.

No 3093 *Lophortyx*

♀

Silver City N M. Nov. 7 '89

Tl. 270 ^{mm}; diam. eye 4.75 ^{mm}

Iris brown. etc. as ♂ 3092

No 3094 *Spinus*

♂

Silver City N M. Nov. 9 '89

Tl. 110 ^{mm}; diam. eye 2.75 ^{mm}

Iris brown; bill pale bluish gray, culmen
and tip dusky; feet brownish gray.
Molting all over.

No 3095 *Zonotrichia*

♀

Silver City N M. Nov. 9 '89

Tl. 159 ^{mm}; diam. eye 4 ^{mm}

Iris brown; bill dull brownish orange,
tip dusky; feet pale honey brown.

No 3096 *Lepus*

♀

Silver City N M. Nov. 9 '89

Tl. 353 ^{mm}; tail 42 ^{mm}

Hind toe incl. claws 82 ^{mm}

No 3096 *b.* Skull of same.

Nov. 10 '89. Silver City, N.M.

Ph. 153 Silver City, from hills west of the town. 2 pm. sun highly visible. inst. 1.

Ph. 154 Piñon tree. 6500'

do do do.

Ph. 155 Silver mine

in valley west of Silver City. do. do. do.

Ph. 156 Cactus. 6500'

do do do.

Ph. 157 Chaparral Cedar. 6500'

Silver City in background. do do do

Barom. 178. Fremont Hotel 2nd floor.

9.30 pm. 23.19 (5820')

Nov. 12 '89. El Paso, Texas.

Barom. 178. Vendome Hotel 2nd floor.

8 am. 25.57 (3360')

Ph. 158 Church, Juarez, Mex.

9.20 am. bright sun. inst. 1.

Ph. 159 Part of Juarez, on Plaza, Juarez

Mex. do do do.

Ph. 160 Interior of Church. do do do.

Ph. 161 Do do. 5 sec. do.

Ph. 162 Exterior of do. near view. do do do.

Ph. 163 Entrance to military barracks, Juarez, Mex.

do do. 9.50 am

Ph. 164 Street in Juarez do do do.

Ph. 165 Architecture: fruit stand do do do.

Ph. 166 Public school for girls, Juarez. do do do.

Ph. 167 Street scene Juarez do do do.

Ph. 168 Court house, El Paso, Texas. do do 11 am

Ph. 169 Public school, El Paso, do do 11.15 am

Ph. 170 Building on Main Street, El Paso. do do.

Nov. 14 '89. El Paso, Texas.

Mount. north of town. Barom. 178.

12 m. 24.84 (8 am. at S.S. station.

26.19) [inst. 5700' ?]

3.30 pm. Esty Home Vendome. 26.14

31620 S. S. barom.

8 pm. 26.26

No 3097 Tamias interpres

♀

El Paso, Texas, Nov. 14 '89 - 4000'

tl. 223 mm; tail 82 mm

hind foot incl. claws 38 mm

among rocks.

No 3097 b. *Snail of same*
Nov. 15 '89 El Paso

5.30 ^{am} S.D. office barometric corr. 26.33

Gen. Surv. Barom 178 26.20

Correction + 0.13.

Correction 8 am Nov. 14. + 0.11

5.30 - Hotel Vendome, 20th B. 175: 26.22.

No H. 179. - *Holbrookia*

15762 El Paso, Texas. Nov. 16 '89.

Ground color above vinaceous
cinnamon becoming more vinaceous
posteriorly, the spots being brown
between cinnamon rufous and
vinaceous rufous; flanks anteriorly
orange buff, posteriorly sulphur
yellow, the black crescents having
a tinge of neutral tint on the yellow.

No H. 180. *Gerrhonotus*

15763 El Paso, Texas. Nov. 16 '89

No H. 181 do

15764 El Paso, Texas, Nov. 16 '89

No H. 182 do.

15765 do

No H. 183 do

15766 do

No H. 184 do

15767 do

No H. 185 do

15768 do

No H. 186 do

15769 do

No H. 187 do

15770 do

No H. 188 do

15771 do.

This species, 180-188, lives on rocks
or sand and ^{immediately upon being himself discovered} always seeks refuge in
holes under some bush, mesquite, cactus
or the like.

No H. 189. Lepus Wt.
15772 El Paso Texas, Nov. 16 '89

No H. 190 do
15773 do

No H. 191 do
15774 do

No H. 192 do
15775 do

No H. 193 do
15776 do

No H. 194 do
15777 do

No H. 195 do
15778 do

No H. 196 do
15779 do

No H. 197 do
15780 do

No 3098. Tamias intrepus ♂
El Paso, Texas, Nov. 16 '89. 4000'

Fl. 215 mm; tail 76 mm
hind foot incl. claws 38 mm

No 3098 b. Skull of same

No 3099 Tamias intrepus ♂
El Paso Texas, Nov. 16 '89 4000'
Fl. 215 mm; tail, 72 mm
hind foot incl claws 36 mm

No 3099 b. Skull of same

No 3100 Tamias intrepus ♂
El Paso, Tex. Nov. 16 '89 4000'
Fl. — mm; tail — mm
hind foot incl. claws 37 mm

No 3100 b. Skull of same

No 3101 Tamias intrepus ♂
El Paso, Tex. Nov. 18 '89 4000'
Fl. 215 mm; tail 80 mm
hind foot incl. claws 35 mm

No 3101 b. Skull of same

No 3102. Tamias intrepus ♂
El Paso, Tex. Nov. 18 '89 4000'

TL 212 mm; tail 75 mm
hind foot incl. claws 35 mm

No 3102 b. Skull of same

No 3103 Tamias interpres ♀

El Paso, Tex. Nov. 18 '89 4000'

TL 218 mm; tail 75 mm

hind foot incl. claws 36 mm

No 3103 b. Skull of same

No 3104 Tamias interpres ♀ 4000'

El Paso, Tex. Nov. 18 '89

TL 200 mm; tail 68 mm

hind foot incl. claws 35 mm

No 3104 b. Skull of same

No 3105 Tamias interpres ♀

El Paso Tex. Nov. 18 '89 4000'

TL 214 mm; tail 73 mm

hind foot incl. claws 36. mm

No 3105 b. Skull of same.

No H. 198 Lizard Uta

15781 El Paso, Tex. Nov. 20 '89 3700'

No H. 199 do

15782 do

No H. 200

15783 do

No H. 201

15784 do

No H. 202

15785 do

No H. 203

15786 do

Prof Baird
and Mr. D. M. Silliman
St. Louis

(198-20

lier than 189 reg.

The 198-

found on the

sandy f

the Rio Grande

on the r

4 miles the

R.R. ties.

Nov. 21 '89

Paso.

Geol. Surv

26. 12

S.S. mac. baron corr. for temp. 26. 23

corr. + 0. 11

TL 212 mm; tail 75 mm
hind foot incl. claws 35 mm

No 3102 b. Skull of same

No 3103 Tamias integrus ♀

El Paso, Tex. Nov. 18 '89 4000'

TL 218 mm; tail 75 mm

hind foot incl. claws 36 mm

No 3103 b. Skull of same

No 3104 Tamias integrus ♀ 4000'

El Paso, Tex. Nov. 18 '89

TL 200 mm; tail 68 mm

hind foot incl. claws 35 mm

No 3104 b. Skull of same

No 3105 Tamias integrus ♀

El Paso Tex. Nov. 18 '89 4000'

TL 214 mm; tail 73 mm

hind foot incl. claws 36. mm

No 3105 b. Skull of same.

No H. 198 lizard Uta

15781 El Paso, Tex. Nov. 20 '89 3700'

No H. 199 do

15782 do

No H. 200 do

15783 do

No H. 201 do

15784 do

No H. 202 do

15785 do

No H. 203 do

15786. do

(198-203 same paler than 189 reg.)

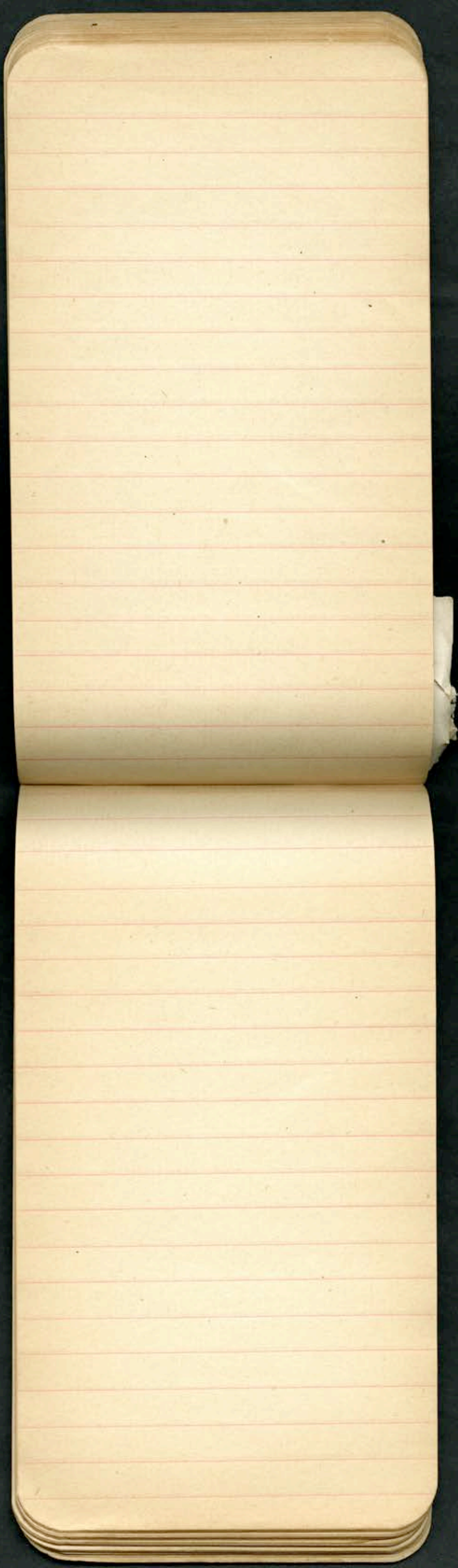
The 198-203 were found on the
sandy flats near the Rio Grande
on the embankment under the
R.R. ties.)

Nov. 21 '89 S.S. office El Paso.

Geol. Surv. Mex. 178. 26. 12

S.S. more. baron corr. for temp.: 26. 23

corr. + 0. 11





John D. Blaney, M. D.

TERRITORIAL GEOLOGIST,

PRESCOTT, ARIZONA.



St Louis
Introducing
Dr. Schenker's
Imaging

OFFICE OF

The Citizen Printing and Publishing Company.

Publishers of the Daily and Weekly Arizona Citizen.

Tucson, A. T., Oct 15 1889.

Dear Mr Fournier
Calabasas

Dear Sir:

The promoters of this
note Dr. Sturges and Mr Bailey
both connected with and collect-
ing for the Smithsonian will
visit your section for the
purpose of collecting Mam-
mals reptiles etc.

Any favor shown them
will be duly appreciated
by yours truly
Herbert Brown

Adult: Top of head dull tawny brown; indistinctly streaked with darker brown; rest of head, including anterior portion of forehead, plain ash, becoming gradually paler (almost white) on chin and throat; short very pale grayish buffy. The sides and flanks similar but rather deeper; belly and under tail-coverts white; back grayish tawny, broadly streaked with black; middle wing-coverts tipped with pale buffy, but greater coverts with out light tips; bill cinnamon; length (this) about 4.50, wing 2.70, tail 2.50, culmen 0.35, tarsus 0.72. Hab. New Mexico (vicinity of Silver City). [Ridgw., Mem. p. 419]

dy. Tail more than twice as long as culm; no dusky streak behind eye

3. *S. monticola*

(e) Wing not longer than tail (usually shorter). (Wings partly without any quill, and top of head distinctly streaked with dusky). dy. Head distinctly striped; ear-coverts light buffy brown, in marked contrast with the very distinct line of supercilium and median stripe of dull whitish, and edge of side of neck.

4. *S. pallida*

dy. Head not distinctly striped, and ear-coverts not distinctly brownish.

5. *S. leucurus*

dy. Head and neck plain grayish; chin and supercilium black in adult.

6. *S. atrigularis*

2. S. arizonae

a) distinct dusky throat behind eye.
 d) Isthmus less than twice as long as culmen;
 e) Wing decidedly longer than tail
 dusky spot on chest.

lower mand. without yellow; ad. without
 6) Wing without 2 distinct white bands;

center of chin . . . 1. S. ochracea
 mandible yellow; adult with dusky spot in
 6) Wing with 2 distinct white bands; lower

in black on chin or throat . . .
 a) Head more or less conspicuously marked, but
 streaked with dusky in young.

brownish (belly always white) in adult,
 parts plain whitish, grayish, or pale
 brown, or else very indistinctly streaked; lower
 upper tail-coverts plain grayish or grayish
 brown. Isthm. : lower back, rump, and

Spizella (br. n. mex. r. Tex.

" atricapillus eximius

" meridionalis.

Psaltis plumbeus

" santa-ritae.

Arremonops flaviceps.

Polioptila caerulea.

" plumbea.

Sialia mexicana

" arctica.

UNITED STATES NATIONAL MUSEUM

UNDER DIRECTION OF

THE SMITHSONIAN INSTITUTION

WASHINGTON, August 31, 1889.

List of Special Deiderata among Arizona Birds

Cyrtonyx, Leophotyx, and Callipepla: good specimens
for mounting.

Colinus ridgwayi. Series.

Meleagris gallopavo. Good specimens for mounting.

Scardafella inca.

Parabuteo unicinctus harrisi.

Buteo borealis calurus. Very dark specimens

" abbreviatus.

" lineatus elegans — if it should be met with.

Urubitinga anthracina.

Aschibuteo ferrugineus. Good specimens for mounting.

Aquila chrysaetos. " " " "

Falco fusco-caerulescens.

" richardsoni,

Polyborus cheriway. Good specimen for mounting

Syrnium occidentale. " " " "

Megascops asio trichopsis.

" flammeolus. Very special desideratum!

Glaucidium phalaenoides } Series
" gnoma.

Micropallas whitneyi.

Coccyzus americanus occidentalis

Trogon ambiguus.

Ceryle cabanisi.

Dryobates arizonae.

" scalaris bairdi.

Picoides americanus dorsalis. Series

Colaptes chrysoides.

Melanerpes uropygialis.

Antrostomus vociferus arizonae.

Phalaenoptilus nuttalli nitidus.

Chordeiles texensis.

Chaetura vauxii

Cypseloides niger

Eufenes fulgens.

Coeligena clemenciae.

Calothorax lucifer.

Sache laterostris.

Mypodognastes luteiventris.

Myparchus mexicanus magister.

" lawrencei olivascens.

Contopus pertinax.

Empidonax hammondi.

" fulvifrons pygmaeus. Series.

Ornithion imberbe ridgwayi. "

Otocorys alpestris chrysolaema "

Corvus cryptoleucus

" corax sinuatus

" americanus hesperis.

Agelaius phoeniceus sonoriensis.

Icterus parisorum.

" cucullatus nelsoni.

Leoxia curvirostra stricklandi.

Spinus psaltria arizonae.

Spizella pallida.

" atrigularis.

" northerni.

Junco cinereus palliatus

" dorsalis.

Peucaea arizonae. Many as possible!

" carpalis.

" cassini.

" ruficeps

Melospiza fasciata fallax.

Passerella iliaca schistacea.

Pipilo aberti.

Cardinalis cardinalis superbus. Series.

Pyrrhuloxia sinuata beekhami.

Guiraca caerulea eurhyncha.

Passerina versicolor pulchra.

Piranga hepatica.

" at rubra cooperi.

Progne subis hesperia.

Tachycineta thalassina.

Phainopepla nitens.

Vireo bellii

" pusillus.

" vicinior.

" huttoni stephensi.

" atricapillus.

Helminthophila luciae.

" virginiae.

" ruficapilla gutturalis.

Dendroica aestiva sonorana.

" graciae

" townsendi

" occidentalis

" nigrescens.

Sciurus noveboracensis notabilis.

Geothlypis trichas occidentalis.

" macgillivrayi.

Setophaga picta.

Cardellina rubrifrons.

Harporhynchus bendirei

" crissalis.

Hauporlynchus lecontei.

" curvirostris palmeri.

Campylorlynchus brunneicapillus.

Catherpes mexicanus conspicuus or punctulatus.

Certhia familiaris montana

" " mexicana.

Parus inornatus griseus.

" atricapillus septentrionalis

" meridionalis.

Psaltis plumbeus

" santa-ritae.

Arreiparus flaviceps.

Polioptila caerulea

" plumbea.

Sialia mexicana

" arctica.

