



Lots &
Notes on Mammals and
Birds of Mex.
E. A. Goldman.
Alila.

Tulare Co.
California,
Estados Unidos.

Book 2nd

Apr 4th To Aug 10

1893.

(7)
Apizaco, Tlaxcala, Apr 4-6 1893
I spent two days here while
Mr Nelson went to see the gov.
in Puebla. The alt. must be over
8000 ft. I found no signs of jumping
rats here. There seems to be
an interval in which no jumping
rats are found between Golo
where I caught 5-toed jumpers
& Huamantla where I caught
4-toed ones. I saw no signs of
gophers. A stream flows by the
town which has a few bushes
& an occasional tree along
here mostly I saw & shot birds.
Mams. taken at Apizaco.
Sitomys. Got a rather large
species of Sitomys same as
taken at Golo. & a white-

(2) Apizaco.

Collected one same as taken at Amecameca. Both species lived among the rocks and along banks near the stream, & the smaller kind was common in grain fields everywhere.

Reithrodontomys. Caught a couple of them near the creek in a grassy patch.

List of Birds of Apizaco.

Scolecophagus cyanocapillus.

Pipilo fuscus.

Carpodectes mex. bon.

Melospiza fasciata mex.

Ammodramus.

Otocoris.

Tit lark.

Melospiza lincolni.

Dendroica aestiva.

Chalchicomula.

(3)

Melospiza socialis,

Chalchicomula Puebla Apr. 8-19
and 7 to May 2.

Mars. *Sitomys*. A same species of sito, as taken at Apizaco.

Dipodomys. A species of this genus is common. They are found more or less everywhere on the plain but especially along a bank & in land not cultivated lately. They usually have 3 holes though very often they have more all of which are used. Their range as far as I know it is in the shape of a triangle the extremes being Huamantla, Playacal, Esperanza

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Chalechicomula.

Puebla & Perote, Vera Cruz.

Reithrodontomys. Tolerably common along the hills in the grass at their bases.

Ariocola. We were somewhat surprised when I caught arioholas in grassy places at the altitude of the town (8200 ft.) This makes the lowest altitude at which we have yet found them in Mex.

They were rather dark colored.

Geomys. Tolerably common.

Lepus. Three species of the genus are found (1) the white sided jack. (2) a very large reddish woolly cottontail. & (3) a small gray one.

Mephitis. I picked up a skull.

(5)

Chalechicomula.

Neotoma.

~~Flores del Oro~~ ~~Izapa~~ Alt.

Birds of Chalechicomula.

Otocoris. Common in the fields on the plain near town.

Pipilo maculatus? A pipilo perhaps this one was common in the bushy places along road-sides & even in the midst of town wherever there was cover.

Carpod. mex. fusc. Common.

Melospiza lincolni? Com.

Pipilo fuscus? Com.

Harpox. curv. Very common on the hills along the edge of the plain where plenty of wild magueyes, cacti, & brush grows.

(6)

Chalchicomula.

Icterus wagleri. com.*Scoleophaeus cyanocephalus*.
Com. in the fields.*Rubia melanocephala*. Com.*Coccyzus occidentalis*.¹ One was
shot near town by Mr. Nelson.*Guiraca caerulea*.¹ Com.*Amnophila superciliosa*.¹ Com.,
along roadsides etc.

Tallies: One species, com.

Spinus psaltria var. com.*Scardafella inca*. com.*Harpot. ocellatus*. We saw this
bird here for the first time.
They were about as common as
Harpot. curvirostris & were found in
same locality.*Colaptes cafer*. Com. I found

(7)

Chalchicomula.

one nest in a tree, the aperture
only about 2 ft. from ground
& nest slightly above the level
of ground.*Aphelocoma sumichrasti*. Com.
up to edge of pines on the mt.
(Ojibwa).*Ammodramus*. com.*Spizella pallida*. Rather com.*Tarsius*. com.*Spizella atrigularis*. com.*Bubo virginianus subarcticus*.¹
One was brought in by native
hunter.*Hemiprocnis*.¹ I saw two of the
white-collared species flying.*Geothlypis speciosa*.¹ I shot
one bird on the top of a hill

(8) Mt. Orizaba. Tim. line.
near town.

Tachycineta thalassina.

Buteo. Saw several birds.

Caracara Polyborus cheriway. A
few more such but are not very
common. *

Mt. Orizaba near timber line.

Apr 19-21.

Mams.

Arvicola. Common among
succulent grass in canons. Not
common elsewhere owing to un-
favorable conditions.

Sitomys. White bellied species
com.

Sorex. I caught one specimen
in an Arvicola runway on a
bank. * For birds omitted here see
page 17

(9)
Mt. Oriz. Tim. Line.
Oryzomys. Rather com along
with arvicolas.

Neotoma. Not com. owing
to lack of cliffs. One was trap-
ped by Mr H. in the cave in
which we camped.

Lepus. We saw signs of a small
rabbit near & above timber line
but not in such great quan-
tities as near & above timber
line on Mt. Ixtaccihuatl.
There is plenty of cover for them
here about the edges of lava
beds but their signs were not
numerous. Possibly a small
specimen procured at a rancho
lower down (alt about 9300 ft.)
was the same as this one here.

49 Mt. Orizaba, Ranchos.
Canis latrans. Tracks probably
belonging to this animal were seen.
Birds.
Aimophila superciliosa: com.
Colaptes cafer: com.
Dendroica auduboni: ^{Found} Tossa, far
up, above timber line.
Dryobates stricklandi: com
near timber line.
Merula nigra: com.
Sitta pygmaea: com.
Sialia mex. com.
Snow bird, com.

Mt. Orizaba, Ranchos, Alt. 9300
Apr. 21-27.
Mams.

Arvicola: Very common when
ever there was cover of any

10 Mt. Orizaba, Ranchos, 10
kind.
Lepus: Two kinds are found (1)
a large one of which we pro-
cured no specimens here but I
saw one. It was perhaps the
same as the large one found
at the foot of the Mt. at
Chalchicomula (2) a small
gray one of which we got one
specimen.
Oryzomys: Not common
I caught 2 in a canon on
the south side of a hill south
of the Ranchos.
Reithrodontomys: A few were
caught mostly in Arvicola run-
ways.
Sitomys: White-bellied spe-
cies same as taken at Chal-

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Mt. Orizaba, Rancho.
Chicomula was com.

Sorex.¹ Two kinds were taken
(1) a large shrew & a small
downy one with pretty long tail.
Sciurus.¹ One was brought in
by native hunter, they are not
very com.

Thomomys.¹ A small smoky
colored species was common es-
pecially in some potato fields.
The soil here is of a blue volcanic
ash color & gophers were exactly
the same in color excepting

3 I caught out of some 15 or 18
specimens which were reddish
like those taken at Salazar, Mex.,
& on the "Sierra de Pachuca" in
Hidalgo.

(13)

Mt. Orizaba, Rancho.
Birds.

*Antrostomus macromystax*¹
I shot two specimens & saw one
other on the north side of a
cliff south of the Rancho.
One of them had a nest but
I failed to find it.

Aphelocoma couchii? A species
resembling this one was common
from lower edge of pines up to
about 11,000 ft. or more.

Aimophila superciliosa, com.

Buteo. A species of this genus
was seen on several occasions
but no specimens procured. They
were nesting somewhere in the
neighborhood.

Columba fasciata? Birds prob-
ably this species came in 2nd or 3rd

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Mt. Orizaba-Rancho.

to a hedge of gooseberries on several occasions. I failed to get a specimen. They seemed to feed on the green berries.

Cyanocitta. Birds of this genus were seen but none procured.

Colaptes cafer. com

Dendrocicla auduboni. com.

Dryobates stricklandi. Very com.

Empidonax; I killed 2 species of this genus near Rancho.

Ergaticus ruber. com.

Talco. A species of this genus was com.

Geococcyx alfinis; I saw none on the Mt. but people describe them.

Habia melanocephala. Com.

Mt. Orizaba-Rancho.

(15) Harporhynchus ocellatus. Rather com. as high up as Rancho.

Parus meridionalis. Com.

Pipilo! Two species we found here (1) something like the one at Chalchicomula very common & unusually bold. & (2) a species having a Rufous crown not previously seen, was not so com.

Sophia mex.! A bird was killed by Mr N.

Junco cinereus. com.

M zuglodytes bennuncialis. Rat-porkorn.

Trochilus huttoni. com

Certhia familiaris mex.! ^{one} I shot by Mr Nelson.

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Sitta Mt. Orizaba Rancho.*Sitta pygmaea*: Com.*Sialia mex.*: Very com.*Snow bird*: Com.*Merula nig.*: Com.*Spizella Soc.*: Very common on a hill which had been cleared near Rancho. They had very little black on forehead.*Setophaga picta*: Com.*Spinus pinus*: Rather com. at Rancho.*Sayornis pertinax*: Not very common I shot one bird.*Tachycineta thalassina*: Very com. on a hill near ranch where they would fly about in great numbers & occasionally alight on the trees.

Chalcicomula

(17)

Sitta carolinensis: Rather com from fir belt upward.

Chalcicomula Birds omitted in their proper place.

Tachycineta thalassina: Com.*Thryothorus bewickii fairdi*:^{very} Com.*Passerina ciris*: Not common I shot one bird on a brushy hill near town.*Campidornis guisei*: Rather com.*Daltruparus melanotis*: Com.*Salpinctes obsoletus*: Not very com. Those I saw were along a canon in the hills near town.*Zenaidura macroura*: Not very com.*Basilestra leucotis*: Com.*Eugenes fulgens*: Com.

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Tehuacan.

Trochilus platycercus: com.*Sylvania pusilla*: com.Butes: A species was rather com
but none were obtained.Falco: A species was com.

Tehuacan, Puebla. Alt. 5300 ft.

May 2-9 Mammals.

Lepos: Two species especially the larger one were common. The larger one was not exactly like that found at Chalchicomula but did not differ much apparently. The small gray one we got no specimens of but I saw a hunter with one he would not sell it looked very much like the small one found at Chalchicomula.

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Tehuacan.

Myotis: Mr H. bought some of bats who said they got them from houses.

Verpultus: He also got a couple of large bats of this species from same place.

Mus. musculus: I caught two of them in a brush fence far from any buildings.

Petroomys: Caught one near a large rock along some brush. Neobrama: A large red-backed rat was very common in the cliff east of town & under rocks. They usually had holes under rocks or other cover & made trails from them in all directions & had their re-

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Tribuacum.

ular dumping places sometimes 10 yds. from hole. Not a single dung could be found about their nests or anywhere except at this pile where there would be $\frac{1}{2}$ qt. or more of it. Their habits were very much like *Neotoma nelsoni* we got near Manzanilla, in Colima.

Mephitis: I caught a specimen having a white stripe in middle of face & long tail it was in such a poor state of fur however it was hard to tell what color he was.

Birds:

Amphispiza myrricola: Very

(20)

Tribuacum.

common along roadsides & brush fences.

Hemiprocnis; I saw some 20 or 25 of them on 2 occasions circling & flying about very high in the air east of town near a very large spring in a limestone cliff.

Pipilo fuscus? com.

Pipilo; Another bird was com. something like fuscus but with more white on chest & two brown patches on sides of throat.

Melospiza lincolni: I shot one specimen the only one seen.

Phainopepla nitens: Very com.

Aphelocoma sumichrasti:

(22) Tehuacan.

not very common. I shot one
bird & saw several others.

Harporrynchus curv. Very com.
Tanias; com.

Mimus polyglottos. com.

Scardafella inca Com.

Gioothlypis speciosa. Not com.

Zenaidura macrura. Com.

Melopelia leucoptera. Com.

Quiscalus major. Very common
in the midst of the town
& in newly plowed & other
fields near it.

Pyrocephalus rubineus com.

Catherpes mex. Not very common.
I saw several along canons which
come out of the hills east of
town.

Tehuacan.

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Campylorhynchus; A species of
this genus was very common
on the brushy hills east of
town.

Sylvania pusilla. Com.

Empidonax; At least one spe-
cies was com.

Microthraupis whitneyi; I shot
one specimen from a tree to
which it flew when startled
from a cliff by my approaching.

Spinus psaltria mex. Com.

Ampelis cedrorum. com.

Passerina ciris. Not com.

Diccalaris; Tolerably com.

Melanerpes hypopolius. Com.
about the candelabra cacti
east of town especially.

(24)

Huamanta.

Guraca caerulea, com.

Molothrus; A species of this genus was com.

Pterus wagleri, com.

Trochilus lucifer, com.

Myiarchus. Not very com.

Huamanta. Puebla. Mexic.

May 9th to 17th 1893.

Note—Huamanta is very much the same country as Chalchicomula, Puebla, and I neglected to make any lists of the Birds and mammals but they are much the same. From Huamanta I made a trip up on the Sierra Malinche found very little there stopped 2 nights and trapped high up near timber line.

Perote. Huamanta

got only two shrews Larvivora and 4 Neotomas. No signs of Geomys were seen on the Mt. or in the neighborhood of Huamanta. We worked the immediate neighborhood of Huamanta getting white-bellied Sitomys, Ruthiodontomys and Arvicolas, also Spermophilus mus.

Perote, Puebla. Mexic. 1893.

May 17th to about June 10th.

Alt. about 8200 ft.
Note. I made a trip down this place over into a lava bed about N.W. from town & in company with Mr. Nelson made a trip to the top of the Cofre which rises

Huamantla. Perote.

to a height of about 13000 ft. a few miles south of town. Work was done near Perote for several miles in all directions. Two camps were made on the Mt. one at the Casa del Nevado and another at a small hut where there was water just below fir belt.

General Notes.

Perote is situated near the ^{base of the} Cofre de Perote, and very near the eastern edge of the Mexican highlands. To the north east and west extend a sandy plain for 8 or 10 miles.

About 3 or 6 miles east the highland suddenly breaks down and from the crest one can look down on the low country of Vera Cruz. At the time when we

Perote. Huamantla.

were staying at Perote it was quite cold although about the warmest time of the year. Clouds float up from the warm country of Vera Cruz on strong winds in the afternoon. It is much colder all along this part of the edge of the Mexican highland than farther inland for instance at San Marcos.

Vegetation.

As on all the other high mts. we have visited in Mexico the distinct timber belts occur here on the Cofre de Perote.

- (1) A belt of Pine extending up to about 8500 ft. alt. then
- (2) A belt of firs extending until another belt.
- (3) Of pines is

reached the latter extending to timber line. The two pine belts are never of the same species.

In the "Malpais" or lava bed the following were characteristic. Yucca. Pinon (3-leaved), a kind of Juniper. one oak. 1 pine. a wild agave. The native grass called *Afillerilla* grew sparingly and at least three species of *Cactus*. The latter were all low bushy growing species which rendered whole acres of ground a hopeless mass of thorns, also a wild cherry.

The principal crops are corn, wheat, barley, garbanzo, alfeijon, & potatoes.

Arvicola. Probably two species of this genus were common (1) one was common along grassy banks and around many plants near Perote and (2) one was very common in little meadows that occur near timber on the "Cofre" at an altitude of probably 11,000 ft. The second species was always found in open ground and usually where the grass was very short due to the cattle and goats which range over them. In such places their holes were very common and runways leading from one hole to another very distinct.

Huanantla, Perote.

Canis latrans. A few are found on the Mt. plain about Perote and in the lava bed they are more common and said to be very destructive to the sheep and goats which are pastured there.

Dipodomys philippii Common from the lower edge of pines on the "Cofre" down all over the plain and east to the edge of the plateau.

Deer. Rather uncommon on the "Cofre" and in the lava bed north of town.

Geomys. Very common on parts of the plain and in the lava bed.

Perote, Huanantla.

Lepus. (1) A few jack rabbits are found on the plain it is the large white sided species. I believe no specimen was secured.

(2) A large cotton tail rabbit was quite common in parts of the lava bed where they lived among the thick Opuntias mentioned in section on vegetation. and fed on the fresh young grass which grew thereabouts. (3) a small species was not also common along with second species.

Lynxus. Said by the natives to occur in the lava bed and among the cliffs high up on the "Cofre".

Huanantla. Perote.

Perodontomys. Common in the succulent grass between along the base of the Mt.

Sitomys. Two species of this genus occurred (1) the common white-bellied species found all over this part of the plateau & (2) a large-eared rather long-tailed species was scarce in the lava bed.

Oryzomys. Not very common a few were taken under bunches of succulent grass along the base of the Mt.

Spermophilus. A small species of this genus something like next was common on the

Perote. *Huanantla*. plain.

Mephitis. Two specimens were trapped near town.

Neotoma. Quite common among the thick cacti in the lava bed where they make runways and have holes which usually enter the ground at the base of a large cactus.

Sciurus. A species of this genus is found rather sparingly on the "Cobre"

Birds.

Zenaidura macroura. A few were seen.

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Stramanta *Perote.*

Polyborus cheriway. Only 2 or 3 birds were seen on the plain.

Colaptes cafer.

Rather common down among the pines near Perote and up to timber line.

Swift.

Several black ones were seen just above fir belt.

Toechilus platyurus. Rather common in the lava bed where the were working about flowers. I did not find out whether for honey or insects.

Otocoris. Common on the plain.

Cimpidonax. Found the nest of a very dark colored species on a

Perote *Stramanta.*

shelf in a cave about a mile above town. The shelf was about 10 ft. from the ground. The nest was constructed of moss and fine grass and contained three white eggs with some blotches of brown about the size of pin head, on larger end.

Corvus. A species of this genus was rather common.

Uphelocoma sunchiasti.

Common along base of Mt. at Perote and among the pines & piñons in the lava bed.

Agelaius phoeniceus. Only one or two specimens were seen on the plain.

Perote.

Icterus. A lemon colored species was seen in lava bed.

Sturnella m. mex. Common on the plain near Perote. Found the nest of one under a small bunch of grass the nest ^{was} of grass and contained 3 young birds
June 3rd

Toxia. A few were seen on the "Copre" and one specimen secured.

Spizella soc. Common about the fields at Perote.

Carpodacus from Mex. com.

Pipilo fuscus. com.

Perote.

Amropila superciliosa. Com. from the base of the Mt. at Perote to timber line.

Spinus p. mex. Com at Perote.

Tunca cinereus. Com from Perote to timber line.

Guiraca caerulea erythyncha. com at Perote

Tachycineta thalassina. Com from Perote upward on the Mt.

Chelidon erythrogaster. Com. at Perote.

Janius. Com. at Perote.

Sylvania pusilla. I saw one or two the first day during our stay at Perote this was the

Last I saw of them for the
spring.

Harpolynechus eurus. com. at
Perote.

Salpinctes obsoletus. I saw one
or two in dry washes near the
base of the Mt.

Thryothorus b. *bairdii*. com. among
the magueys & cactus on the plain
Certhia fusc. mex. Rather com.
on the lower slopes of the Mt.
Parus meridionalis. com. along
with preceding.

Setophaga. A species of this
genus was com. on the Mt.
Phainopepla nitens. I saw two
or three near in the lava bed.

Sitta pygmaea. Common from
base of Mt. up to timber line.

Sialia mexicana. Rather com.
near timber line on the "Cofre"

Las Vegas. Vera Cruz Mex.
From about June 10th to 27th. 1893.
Itinerary.

Most of my trapping at this
place was done within 3 miles
of the town. A trip was made
to the Cerro de Volcanillo about
3 miles above Las Vegas on the
slope of the "Cofre". From this
cerro de volcanillo probably
all the lava came which forms
the bed, lying from the slope
down to Jallapa. When we
visited the peak ~~there~~ we saw
no signs of a crater there but
the peak itself is a mass of

Las Vegas.

Lava. The alt. at Las Vegas is probably 8500 ft.

General Notes.

Las Vegas lies on the East slope of the Cerro de Probo among the pine woods. just north of town is a deep barranca at the bottom of which is a small stream. This barranca heads only a short distance above Las Vegas at which it breaks down ^{down from} ~~from~~ to form ^{at first} the plain of the plateau and is probably a 1000 ft. in depth. From Las Vegas one can look down on the warm country of Vera Cruz. The descent from the town is very steep. A short distance from Las Vegas is a hill known in the neighborhood as El Cerro de los Papelos where at a distance

Las Vegas.

of probably 75 miles in a straight line ^{from the sea} thousands of seabirds become confused in the fog while flying along the front of the range and attracted by large fires which are built on the hill are killed by thousands by the natives with clubs. The birds are said to be of many species.

Plumal Notes.

On this slope of Probo are found three species of Scirurus. I afterward found ^{at first} that the plain grey species is confined to the pine woods above the oak belt which occurs on the E. slope of the Cerro. Two species the small one and the one with red rump & neck are

found lower down in the oaks. Las Vegas is situated in the zone occupied by the upper or grey squirrel. The two lower ones are found in the cañon lying just north of Las Vegas. Owing to its depth and the consequent difference in climate met with between the cañon and plain just above the two lower squirrels are thus brought within a very short distance of the town.

Vegetation.

At least two species of pines were found at this place one was very conspicuous on account of its long silky leaves. At least two species of oak, an Alder, elder and the grass Alfalfa.

Arvicola. Rather common along wet banks and under saccatoh grass.

Rhizomys. Not so common under ~~the~~ bunches of saccatoh fibrous. White bellied species was common.

Lepas. Three species of this genus at least were found. (1) A large cottontail was very abundant (2) a smaller one was common & (3) a few white-sided jack-rabbits were living on the plain near the station but they were very shy and although I hunted for them on several occasions Mr Nelsons offered 75cts. a head for them the Indians

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Las Vegas.

could not get any.

Sciurus. Three species were rather common. (1) the plain gray one of the pine woods & (2 & 3) the two of the oak belt were rather common in the barranca. *Mephitis*, I caught a single specimen at its hole under a large rock.

Geomys. Rather common in the plain near town.

Birds.

Alouatta. Common on the plain north of town.

Scalops mex. com.

Amorphiala superciliosa abund.

Dryobates scalaris. com.

Las Vegas.

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Ceryle rudis. Not uncommon in the pine woods just above town.

Setophaga virens. Common along with preceding.

Tachycineta thalassina. com.

Panis meridionalis. common in the pine woods above town.

Juncos crissens. Abundant

Corvus. com.

Sylvania pusilla 2 or 3 were seen the last time for the spring.

Cyanocitta coronata. com.

Setta pygmaea. com.

Gorbypis. A species of this genus was common.

Troglodytes brunneicollis. A few were seen in the pine woods.

Guiraca Caerulea, Common.

Merula migratoria, Com.

Aegialitis Phoeniceus. Saw two or three about ponds of water on the plain near town.

Jico, Vera Cruz, Mex.

June 21st to About July 18, 1873.

Itinerary.

Work was extended for 4 or 5 miles in all directions & a side trip made to the oak forest up on the slope of the 'Cofre' about 8 miles from Jico.

The alt. is about 300 ft.

Jico lies on the sloping base of the 'Cofre de Perote'.

General Notes.

Jico lies as just noticed on the

extreme lower slope of the 'Cofre' although a gentle slope extends from here to the coast. There are two ways by which Jico may be reached from the plateau. (1) by the Ferro Carril Interoceánico from Perote or from Tixtla to Jalapa and from there it is necessary to go on horseback by way of Coatepec. (2) From Perote the shortest route is to pass to the south of the peak by way of Rancho 'Obj's de Agua.'

The slope of the country toward the sea causes small streams flowing from the 'Cofre' to cut down deep in the volcanic soil and form small barrancas which run parallel to each

other all along the base of the Mt. Jico lies on the divide between two of them.

The inhabitants are mostly of the mixed races.

The principal occupations are coffee planting and fruitgrowing. Jico lies in one of the best coffee districts of Pera Cruz. The coffee grows from a short distance of Jico down. Near J. is an old volcanic cone with steep sides which is entirely covered by coffee. Very little stock is raised.

The climate is very damp & it rained heavily almost every day during our stay. Some times a shower would come

up suddenly and it would rain so hard that the streets of the town would be running streams from one sidewalk to the other. These streets are made passable at some of the corners by setting large & rectangular blocks of stone on end and stepping on the ends. Leather and anything that will absorb water becomes covered with mold in a very short time unless dried by a fire while it is hard work to prevent garments from rusting.

Vegetation.

The vegetation of J. is very luxuriant and of endless species

Just above Jico a heavy oak forest occurs. The lower part of this has now been cleared off. Several species of oaks and many native trees are included in it. One species of oak grows to be especially large and straight many of the trees measure 8 ft. in diameter and are very tall near the large abutments run out in all directions firmly bracing the great trunks and furnishing shelter between them for many wild animals.

All about the country grow hundreds of flowering plants.

The principal crop raised is coffee. Many tropical fruits are raised such as the orange

aguacate, mango, banana. A little corn, chile pepper and a few peaches are also raised.

Mammals.

Pecary. Very common in parts of the oak forest

Coyote. Not uncommon in the oak woods and up to timber line

Temesate. This little deer so-called by the people is quite common in the oak forest.

Inahlusu. This animal also is said to be common among the oaks.

Lepus. Two species may be given at least as occurring here one the large cottontail taken at

Las Vegas is not uncommon along the lower edge of the oak forest. (2) A smaller species is common about Jes' but generally hard to get on account of the vegetation.

Sciurus. One species is rather common about Jes & up to lower edge of the oak forest through the cleared belt.

Sciurus. These species are found same as those taken at Las Vegas. (1) The gray species of the pine woods above the oak forest is I believe never found lower down. (2) & (3) The small squirrel called by the people "mota" & the large squirrel with rusty rump neck and belly are

both common and even may be said to be abundant in the oak forest. The small one (mota) was especially common and fearless. One day while out trapping I startled one from a thick clump of bushes only a few feet away where it was probably searching for acorns. It sprang up to a dead limb only about 10 ft. away and stopping scolded away at me for several minutes with its tail curved over its back. It made a loud chattering noise and as it did jerked its head and body up and down. Finally it left the tree and springing to the ground ran off 20 yds. and

passing on a fallen log scolded me again for a minute.

Pitthodontomys. Rather common from J. up to lower edge of oak woods.

Sitomys. Two species were taken (1) white bellied Sitomys in the upper part of oak woods and upward to timber line. (2) A species was common in the oak forest.

Oryzomys. Not common. Two or three species I trapped near lower edge of oak forest.

Chivicola. Common along banks of ditches and cañons near Jico.

Martes. This porcupine called martache by the natives is not very common in the oak woods.

Procyon. Tracks were seen in the cañons and coffee plantations near Jico.

Rusus. Probably not uncommon two or three specimens from the oak woods were bought of the natives.

Lynx. A few are said to live high up on the "Cofre".

Urocyon. Probably a few are found below the oak forest.

Canis latrans. Found at least high up on the cofre.

Putorius. I trapped two one near Jico in a coffee field and one just at the lower edge of the oak woods.

Thephritis. Black & white tracks & skins of this genus were

brought of the Indians. — *Sorex*. Two species are found. (1) a small species is rather rare at Jico these taken were living in damp situations along the canons. (2) a black-tailed large species is rather common in the oak woods where they make well beaten roads sometimes three inches broad usually under fallen logs. One or two were also taken at Jico but always in damp well shaded situations. A shrew looking exactly like these was taken on Mt. Grizaba at an altitude of about 9000 ft.

Blarina. This species was common along ditch banks

and under logs and rocks in fields at Jico and up to the lower edge of fir woods. This species lived always in more open situations than the second *Sorex* just given and I believe are never found in the present oak forest although they are very common up to its extreme edge through the cleared belt.

Vesperilio. A single specimen of this ~~sp~~ genus was brought me by an Indian who had caught it in his house near lower edge of the oak woods.

Bat. Long-eared. Taken precisely as preceding.

Tatoua novemincta, said to be common. I saw tracks of the animal at Jico.

Mt. Lion. Said to be common in oak forest.

Birds.

Dendrocygna macroscopus. Abundant in the oak forest. While hunting one day with Mateo Ramirez the owner of the Ranchos ojos de agua in the oak forest we ran across a female with several young. The young birds scampered off in the undergrowth but the old young birds instead of following began to circle around Tamayo and I at the same time uttering a clucking noise. I was anxious

to make a specimen of her and as she kept too close to shoot with an ordinary charge I opened my gun & after putting in my auxiliary shot her with that. Then the young ones finding their mother did not follow began to come back at the same time uttering a queer little peeping noise. Although we kept very quiet they would not come in sight so that I could use my auxiliary and Ramirez I finally chased them and after about $\frac{1}{2}$ chasing Ramirez finally fished one out from under a log. They were only a few days old. Dark buff in

color and looked very much like young chickens.

Cathartes pictorialis. Not common I shot a female in a hedge near Jico

Ornithodoros maculli.

Penelope

Penelopina

Columba fasciata. Not uncommon in the oak woods.

Columbigallina passerina.

Scardafella inca. Not very com. a few were seen at Jico in the coffee fields.

Clarkartes aura. com.

Cathartes atratus. com.

Pipornis griseicauda.

Protophaga sulcirostis.

Piraya cayana mehleri. Common in the canons at Jico.

Trogon mexicanus. Not very common I shot one bird near lower edge of oak woods.

Ceryle caboruissi. Rather common along the canons at Jico

Colaptes cafer. Common along the lower edge of the oak woods.

Melanerpes formicivorus.

Bundant along lower edge of oaks.

Dryobates scalaris. Rather common at Jico.

Cypseloides niger.

Ochactura trunninctorginea.

I shot a single specimen and saw many others flying

at the Ranchos Jics de Agua & up as high as timber line.

Lamprolaema shami.

Amazalia beryllina. Common in the fields about Jics.

Cyanomia cyanocephala.

Myioodynastes luteiventris.

Common along hedges and cañons or wherever trees were growing near Jics.

Myiozetetes texensis. Common along with preceding.

Pachyramphus major.

Platysaris aglaie.

Myioarchus caprenneci.

Sayornis nigricans. Common along streams.

Empidonax albicularis. Common in the fields.

Empidonax fulvivirens. Common along with preceding.

Pyrocephalus r. mexicanus

Common along streams and damp meadows.

Dilophorus cyanogenys.

Ganocitta s. Leidemita.

Common in the oak woods.

Yphelocoma unicolor. Common along with preceding.

Calothraupis robustus. Common in the coffee fields.

Icterus auduboni. Common along canons and wherever trees are to be found.

Carpodacus fron. mex. Common in the town and among the coffee fields.

Spinus p. mexicana
Common in the fields at
Jes.

Spinus notata

Spizella socialis arizonae
Common in the fields.

Tunus cinereus. I was surprised
to find this species ranging
down almost as low as Jico
and up to timber line but
not in the gloomy parts
of the oak forest.

Aimophila rufescens. Quite
common on bushy hills
near town.

Habia melanocephala. Common
along with preceding

Guthraea caerulea erythryneha
Common along hedges. The ^{male} ~~male~~

birds are found of singing
from the tops of a tree. Their
song is rather fine.

Tanagra abbas.

Sporophila moreletta. Abundant
in the fields where there are bushes.

Sporophila corvina. Common
along with preceding species.

They have a habit of settling
on a branch and leaving it
as though to catch insects. Usually
try fly upward about two feet
then again alighting repeat
this every few seconds meanwhile
uttering a harsh little note
while in the air. They are very
restless little birds and fly
frequently from place to
place often going 100 yds. at

a time.

Euenethia phoacea pusilla

Volatinia splendens.

Euphonia hirundinacea.

Ornithion hepaticum. Common along cañons and hedges whenever there were trees.

Progne chalybea.

Selasphorus semipassus

Vireolanius melibophrys. Not common I shot a single bird near lower edge of oak woods.

Diglossa baritula. Not very common, I shot one near lower edge of oaks and saw two or three others.

Geothlypis cucullata. Common below the oak forest in fields

and on brushy hills.

Setophaga virens. Common in upper part of oak woods and up into the pine woods

Basileuterus rufifrons.

Basileuterus belli.

Hyperythreus longirostris.

Probably not common one was brought in by a boy.

Sclerurus mexicanus.

Heliodytes palleucus.

Heliodytes sonatus.

Catherpes mexicanus. Not uncommon along the cañons of Jico.

Cistothorus polyglottos.

Thryothorus maculifpectus.

Hemicorhinus prosthemene.

Altapetes pileatus.
Dendrocygnis erythropygia.
Myadestes obscurus.
Merrula grayi.

Merrula bugatana propinqua.
 Common in the oak along
 lower edge of the oak forest.
Melanotis caerulescens.

Catherpes melampus. Very
 common in the coffee fields
 and wherever there was plenty
 of cover. They are shy skulking
 birds and seldom seen in
 the open. They may often be
 heard or seen scratching on
 the ground among the
 leaves after the fashion of
 some of the Pipilos. I found
 a nest near Jico in a

fork of a coffee bush about
 four feet from the ground
 the nest was of coarse grass
 lined with finer grass. The
 nest contained two rather small
 light blue eggs covered
 uniformly with small brown
 specks.

Scalia azurea. I was surprised
 to find this species down ready
 to jico along with *Juncos cinereus*

Buavermon brunneum

Buavermon albimucha.

Cyclorhynchus flavigularis.

Olorospingus ophthalmicus.

Anthostomus macromystax.

I heard them at night while
 staying at Rancho Ojo de Agua.

Atlixco.

Atlixco. Puebla. Mex.

July 25th Aug 10th 1893.

One of three cities ^{Timanap.} ~~on~~^{at} the southern base of Popocatapetl a few hours ride from Puebla on a branch of the Interoceanic R.R. The altitude is about ~~5000~~⁶⁰⁰⁰ ft. Work was done for 3 or 6 miles in all directions.

General Notes.

Atlixco lies on a sandy plain a few miles from the southern base of Popocatapetl. It is surrounded except toward the south by low hills some of which are covered by a growth of brush. The drainage is toward the south.

Atlixco

The climate is rather dry during our stay although in the middle of the rainy season not much rain fell. There is enough water to grow such crops as wheat, corn etc. but such crops as sugarcane require irrigation.

The population of Atlixco is about 14000.

The principal occupations are sugar planting agriculture in general and stock raising.

Vegetation.

Schinus molle. is one of the most characteristic trees with casuarina the tree which bears large white flowers of the warm country. Immense quantities of alfalfa are raised and stock

is brought long distances to be fed on it while considerable quantities are shipped to the City of Mexico.

Coffee is raised near town but in very small quantities.

Plant. crops. corn, wheat, chile, sugar, Pineapple, Chirimoya, orange, sweet limes, pears, apples, plaches, cherries, guavas, and two species of aquafaba also a fruit call the Guiniquile by the people.

Large quantities of sugar cane are raised just below town.

Mammals.

Heteromys. Rather common along the edges of the grain fields where there is shelter and sometimes along small gulches where they

live along the walls.

Procyon. Tracks were seen.

Bassaris. Very common along arroyos and around fields.

Canis latrans. Said to be tolerably common a young one was brought in by hunter.

Mus musculus. Common along arroyos and around fields.

Dipodomys. A species looking very much like one taken at Pacheca was not uncommon in hedges along roadsides etc, where they were eating the ripened seeds of Schinus molle.

Mus ratus. Caught one in a trap set for Spermophilus along the wall of a barranca. Saw no signs made by them.

Atlixco.

Lepus. This genus was represented by two species (1) A Jack rabbit is common on the hills and in alfalfa fields. and (2) A cottontail is common also in alfalfa fields and in the sugar cane where it is almost impossible to get at them.

Geomys. A large species is common in the sandy country across the stream coming from the base of the Volcano and passing to the south of Atlixco and about two or three miles away. This sandy country all seems to lie on the farther side of the stream and

Atlixco.

extends up to the base of the Mt.

Description. Size large general color rather dark buff. Belly slightly lighter. Hair of back slightly tipped with blackish tail covered by a very scattered growth of fine short hairs.

I saw no signs of them on the Atlixco side of the stream. A ♀ had the following formula $P\frac{1}{1} \cdot I\frac{2}{2}$.

Spermophilus. Two species of this genus are found (1) The large common squirrel *Spermophilus macrourus* and (2) The small spotted one very bright in color and tail very long. Neither species

Athives.

were very common. The large one was confined to the rocky walls of small barrancas and the smaller one to generally has holes running at an angle into the banks of ditches etc. One one species was taken of the small one and I believe none at all of the larger one.

Dilechphys. Common judging from number of tracks seen. I caught two specimens in traps. They are of the gray species. A young one was struggling in the trap when I came up but as soon as it saw me it dropped its

Athives.

head and became motionless keeping the same attitude it chanced to be in when it first saw me. Its body was stiff as though dead. When I took hold of it it tucked its ears back as a horse does when angry but showed no other signs of life and made no effort to bite when I placed my finger in its mouth.

Birds.

Colinus pechoralis. Very common but hard to flush on account of the abundance of cover furnished by alfalfa, corn, and cane fields. Their calls could be heard at almost

any time of day by going out a short distance South or east of town.

Cathartes aura. common.

Cathartes atrata. Common.

Polyborus cheriway. Rather common.

Circus hudsonius. Several were seen foraging over the damp marshes and fields below town.

Chaetura brachyptera? Mr Nelson and I saw a number of swifts flying several miles from Atlixco toward the Mt. that he identified as this species.

Tayornis nigricans. Common along small streams.

Proctophaeus s. mexicanus. Rather common along

streams and the wet fields below town.

Plocons. Common in the grain fields about Atlixco.

Corvus. Common.

Molothrus robustus. Common.

Agelaius phoeniceus. Very common a short distance below town where some of the land is swampy and drainage ditches are common. They are generally found in scattering flocks although solitary birds and 2^s and 3^s are sometimes met with.

Sturnella m. mexicana. Quite common in same country as preceding species.

Iuscalus macrourus. common
They forage about in fields.
like *B. major* and blackbirds
in general. I saw them several
times fly in from foraging
trips in the fields and alight
on the trees and castor plants
near a large pond. They would
gather very closely together and
hop about as though searching
for food on the plants.

Spinus p. mexicana. Common
about the fields.

Carpodacus son. mex. Common
Habia melanocephala. Common
among bushes around the
fields where they may often
be seen hopping along
the branches and from one

to another probably searching
for insects.

Guiraca c. erythroncha. Common
Ammodramus. Quite common
among the damp fields
below Ixion. This species
is white below.

Pipilo fuscus. Common.
Amphispiza mysticalis,
common mostly on the
hills.

Spizella soc. Common
Pericara. Very common nest
on ground or low bush
according to two observations
made here. Both nests were
of the same material ~~the~~
grass roots with straw on
the outside. Eggs pure white

one end slightly smaller than the other and were three in number in each case.

Sporophila corvina. Very common. I observed the same habit as at Jico of flying from its seat straight up into the air and while rising giving vent to its dry little note then turning and diving down to its seat.

Sporophila moreletti, quite common.
Pitchochelidon melanogaster.

Common they were nesting under the eaves and on window panes of a church.

Chelidon erythrogaster, common this species generally flies nearer the ground I believe

than *Pitchochelidon melanogaster* I often saw them foraging over alfalfa fields close to the ground on *L. P. melanogaster* flying above them.

Familius excubitorides, common *Harpophryneus curvirostris*. Not very common specimens seen were among the brush on hills.

Catherpes mexicanus?

A white-throated wren was common along the banavas perhaps this species.

Thryothorus b. baizae. Not uncommon on hills.

The following birds were omitted in their proper places.

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Atlixco.

Melopelia leucomystax. Common among the brush on hills and around fields.

Zenaidura macroura. Common along with preceding species.

Scaevola nivea. Common in the fields.

Protophaga sulcirostris. Not uncommon around the fields below town.

Uranomitra. A species of this genus was common even in the plaza in the middle of the town.

Tochilus pulcher. Common

Tochilus platycercus. Common.

85.

Tochimilco.

Tochimilco. Puebla Mex.
Several days were spent at this
Between July 20 & Aug 10th the
gatis glichen for Atlixco.

Itineray.

Tochimilco is a small town on the lower slope of Popocatapetl.

Its altitude is about ~~6500~~⁶⁵⁰⁰ ft.
Work was done for 4 or 5 miles in every direction.

General Notes.

The town lies among the low hills bordering the plain on the extreme southern base of Popocatapetl. It is situated in a break in the hills formed by two deep ravines which come out onto the plain here. Tochimilco

Tochimiles.

lie between them. The climate here is somewhat cooler than at Atlixco owing to its greater altitude.

Vegetation.

Pines are found on the hills all around the town but several hundred feet higher. This is a small-coned 5-leaved species. Few oaks grow on the hills in scattered bunches and a few madroño. The casuarina comes up from the plain as high as Tochimiles. The chinimoya is species of aquacates, ~~and~~
The mangos and a little coffee is raised. Corn & wheat are the principal crops they are grown on the flat-topped hills near

Tochimiles.

town. Apples and peaches are also raised in considerable quantities but as usual of very inferior quality. A few magueys are raised for pulque and a wild agave grows also an acacia.

Mammals.

Procyon. Common.

Tigris. The same species as that taken at Atlixco is found here among the oaks but was very difficult to get as they refused bait.

Sciurus. Rather common above line on the Mt.

Lepus. Two species are found (1) The Jack same as found at Atlixco is not uncommon

along the base of the hills, (2) A large cotton tail is found among the hills and gets up some distance among the pines.

Birds.

Columbiagallina passerina?

I have having rufous under wing coverts perhaps this spec was found ^{on} along thick brushy hillsides but not very common. *Scardafella inca* common in the orchards and immediate neighborhood of the town.

Chitarts aula. Common.

Cathartes atrata. Common

Taleo sparverius. Common

Accipiter gnoma. I heard them in the evening on several

occasions.

Colaptes cafer. Probably among the oaks on the hills. *Chuetia brumilorges*, (or I saw swifts presumably this species flying over the hills.

Thraonotula. Polarab on hill sides wherever flowers were blooming.

Amazalia beryllina. Quite common I often saw them searching probably for insects on the mistletoe.

Basilinna leucotis. Common This species is in the habit of quietly on a dead branch usually on the extreme top of a tree for five minutes or more at a time and uttering a kind of

Tochimiles.

chirping noise, and all the time moving the tail up and down slightly and turning the head constantly from one side to the other and peering in all directions.

Empidonax. Saw several of a species of this genus but could not identify it.

Aphelocoma sumichrasti. Common among the oaks and lower pines.

Corvus corax sinuatus. Common *cardinalis*. Saw a single specimen of a species of this genus.

Spinus pinus. Not uncommon in the lower part of the pines.

Tochimiles.

Spinus psaltria mexicana. Common about town and on the plain below.

Larpsolacus son. mex. Common in the town and out on to the plain.

Habia melanocephala. Com.

Gunaea caerulea erythyncha. Com

Pipilo fuscus. Common.

Pipilo (Mt. Species) common *Junco cinereus*. Common on the hills and upward.

Percaea. (Species identified as being different from the Active species by T. S. Palmer in the Provisional list of C. W. Nelson was common.

Sporophila moreletti. Common along the streams near Tochimiles.

Petrochelidon melanogaster. com
Chlidon erythrogaster. common
Phlegopsis cinerea. Dark common
 They usually go in flocks of
 15 to 40. Fly from tree to tree usually
 keeping well up towards the
 tops. I sometimes saw them
 hunting among the oaks &
 mahoros something after
 the manner of fly catchers.
 A flock seems to frequent the
 same grounds often day
 after day.

Tanias ludovicianus excubitorides
 Common from the plain
 up to lower edge of pines.

Basileuterus. A species of this
 genus was common on
 open hillsides usually.

Leatherpes mex. conspersus,
 Not uncommon on the houses
 in the town and along the
 bananeas.

Thryothorus b. fairli. common
 from the plain up to pines.

Parus melindialis. common
 down to lower edge of pines.

Psaltriparus melanotos. common
 down into the oaks.

Catherpes. A species of this
 genus was seen on several
 occasions among the oaks.

Sialia mexicana. common
 down to lower edge of pines,
 in openings.

The following were
 omitted in their proper
 places. over

94.

Tochimiles,
Setophaga minuta.
 Common down to lower edge
 of pines.

Pergratus ruber. Not uncommon
 along with preceding species.

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* Part of this time was spent at
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