

7 Sep
Myriophorum
Lower Calif. Exp. Feb 16, 1902
to *James Heller* Nov 18

THE

Stanford Note Book

No. 7 Plain

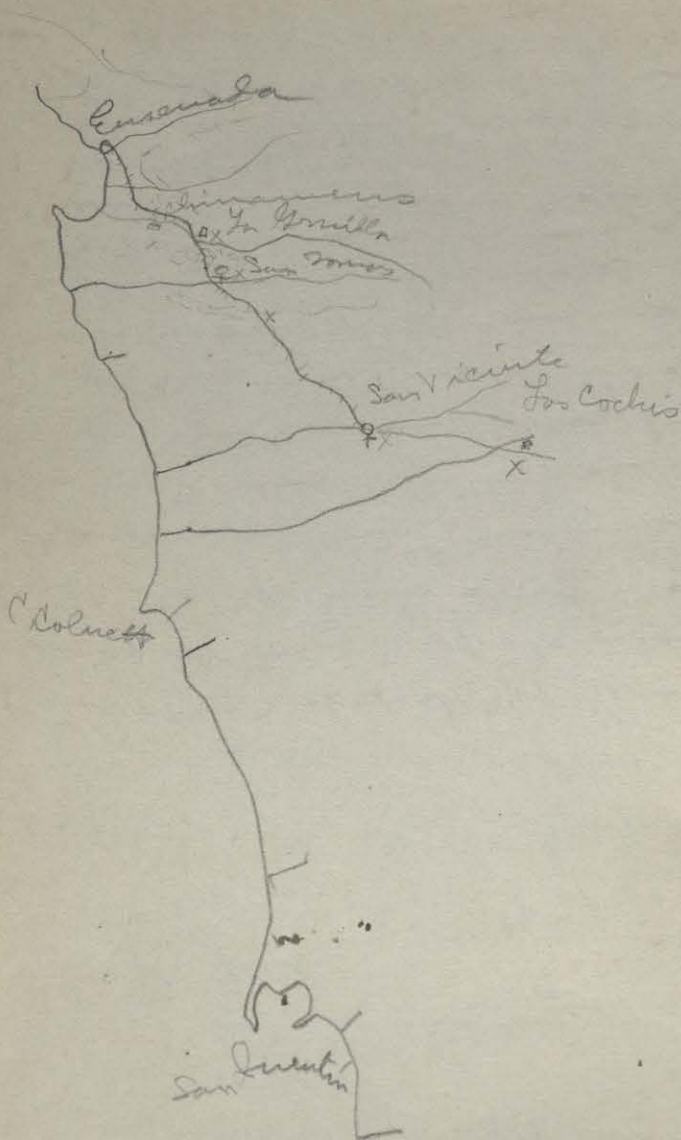
STANFORD BOOK STORE

SW
33

1902
Feb 16

- 1902
- Feb. 16 - left San Diego at 8:50 P. M. for Escondido on Str. St. Louis
- 17: Arrived at Escondido but did not get ashore in AM, on account of gales. Because rough & had to remain aboard.
- 18: Went ashore about 4 P. M. having a somewhat spell. Put up at Dunbridge Hotel.
- 19: Cut out a few traps above hotel on the hills.
- 20: Caught an *Peromyscus rufinus*, 2 *P. frontalis*, 3 *Tax. medius* & 1 *Perognathus fallax*.
- 21: Set out more traps. Caught a few *Perodipus agilis* & *Neotoma intermedia*.
- 22: Caught several *Perodipus*, *Perognathus fallax*, 3 *Thomomys fulvus* (dark colored). Many *Lepus townsendi* seen also one *Spizella monticola* & one *Lepus californicus*.
Scaphiopus seen to be
 com. hills

- 23: Got permit for guns
- 24: ~~Went to~~ Felipe J. Diaz, Gen permit
~~at~~ at custom house
- 25: Nothing doing too rough
- 26
- 27: Bought outfit
- 28: Made contact with Felipe J. Diaz,
- Mar 1: Left Ensenada with 6 burros & outfit for San Felipe with Felipe, Heriz, & agents, etc., made Chinese gardens in La Guacilla canon where we camped.
- Mar 2: Camped at La Guacilla on account of rain, put up tent.
- 3: Camped at spring near San Juanas, put out a few traps
- 4: Caught 5 *Perodipus aeglis*, or near this form but larger & lighter apparently. Los burros, shot a yellowish bat.
- 5: Burros did not arrive so remained all day. Several Jack rabbits seen. Shot one *Lepus auduboni* caught one *P. t. medianus* at camp. Several *Spermophile* of *beecheyi* seen a few *Thomomys* signs also
- 6: Caught 7 *Thomomys fulvus* and shot one *Lepus auduboni*. Rained in AM. Bought three more burros of Pedro Gutierrez.
- 7: Started for San Vicente in P.M. but got only about 6 miles.
- 8: Made about 27 miles & arrived at San Vicente about 6:30 P.M.
- 9: Left San Vicente at 10:30 AM, & arrived at Los Cochis about 15 miles east where we camped.
- 10: Left Los Cochis at 9:15 AM, and arrived at base of grade near head of San Antonio River about 5:30 P.M. The San Antonio River separated by a high range of hills from the Los Cochis creek and is considerable dryer & more desert like. A bush acacia very common here but not seen elsewhere. Shot several *Uta stansburiana* on the road; also one *Verticaria*. Set out a few traps
- 11: Remained in camp to rest burros for the hard climb. Caught 3 *Neotoma intermedia*, 2 *Perodipus aeglis*, one badly eaten *Perognathus* and 2 *Peromyscus* which are like *P. t. medianus* except feet & mouth reddish cinnamon, this may be due to food however



Collected several *Uta stansburiana* near camp. Also another species in cañon with blue belly + throat. Several seen but only two secured, nearly as common as the other sp. a *Sceloporus orcutti* seen in cañon but too shy to be shot. One *Tamias propellus longii* taken in cañon above camp where water is found. Brush rabbits fairly common. A few Jack rabbits seen also. Noticed tracks of coyote fox in mud of cañon. Gopher mounds not rare.

12: Set out fifty small traps. Caught a large very light colored *Peromyscus* with a short tail, also one good *Perognathus*, many *P. fraternulus* + *P. texanensis*, one *Neotoma intermedia* + one *Lepus flor.* I climbed mountain in A.M. shot a *Crotaphytus* with shoulder bars like *C. baileyi* but striped also. Shot several *Sceloporus orcutti* seen several more on trail to Los Encinos, also many *S. biserialis*, several *Phrynosoma* taken one small *P. f.* others *C. blainvillii*. *Uta stansburiana* common everywhere. Arrived at Los Encinos about 2:00 P.M., which is much higher + consists of a small canyon with live oaks, altitude about 3000. *Spermophilus* *g. baileyi* common about this place. Set about 30 traps.

13: Caught many big eared *Peromyscus* size of *P. wisnigii* also few *P. fraternulus* + *P. tex. medius* also one *Blattellid* ant. Saw many rats nests in ~~shot~~ willows which looked like *N. f. macrurus*. Shot several *Sceloporus biserialis* + *S. orcutti*.

arrived at Trinidad about 12:00 P.M.
This place is separated from desert by a
considerable divide, its water runs off
to the west into San Antonio River
at ~~San~~ ^{San} Rafael, altitude about 2500.

14: Set out a few small traps. Caught
many *P. tex.*, *rubris*, + a few *P. fraternulus*.
Saw several *Tepos calif.* + *T. flor.*, also
Pitendontomyia lutea + *P. nigricans*, also one
Spermophilus g. beecheyi + *S. ~~flor.~~*

15: Caught several *P. tex.* med + *P. fraternulus*
+ one *P. insignis* like those at Los Encinos.
Perodipus agilis common.

16: Only a few specimens taken. One
Thomomys seen. ~~Two~~ Two bats seen.

17: Left about 2:00 P.M. for spring
4 miles east of Trinidad where we
arrived at 4:00 + camped. Set out 25
traps.

18: Caught one *Perognathus* + one light
colored, short tailed *Peromyscus* like
that one taken at San Antonio Riv.

Many *P. fraternulus* + *P. tex.*, med.
taken. Also one *Tepos calif.* + *T. flor.*

Left at 11:30 for San Matias spring where
we arrived at 6:30. The spring is on
the desert side of the divide and
high up about 4500 alt. The pass is
wide + level like San Dominga. The
vegetation does not change
much.

on the divide several plants begin
The tree yucca continued through.

A few *Callisaurus* taken in pass, also
one *Phrynosoma blinvillei*. No *Spermophilus*
seen except at spring in Trinidad
where they were common. Too late
to set out traps

19: Rained all ^{morning} day so remained in
camp. Set out some traps. Piñon + sot
quite common about camp. The
water is just at the edge of the
Piñon belt.

20: Caught many *Peromyscus fraternulus*
+ one large eared form size of *P. insignis*
but light colored which is probably
desert form of *P. insignis*. One *Spermophilus*
taken. Started for ^{Camp Belknap} ~~Colo~~
camp at 9:30 AM. Trail lead through
a long canon. Noted a few *Sper-*
mophilus g. beecheyi on the rocks. Hill
very dry + barren. Saw a few Calif.
quail. Low down in canon *Yucca*
cactus which continued to edge of
desert but not in desert proper.
Several *Callisaurus* shot on desert.
also two *Tepos calif.* desert

21: Camped in Cañon Esperanza
near the mouth among ~~cedars~~ + mesquite
trees. Set out about 40 traps.

22: Caught many *Diposaurus* + one small *P.*

with large ears & broad tail.

23: Caught 2 *Coryphæ* & several *P. vancouverensis*

+ one *Lepidomys pallidus*
24: Shot several *Crotalus* ^{*ula virgatus*} ~~*scudderii*~~
in the canon where they are quite common
on the granite boulders also one egg

Sceloporus orcutti ^{*scudderii*} ~~*scudderii*~~
Caught another of the small large eared
Peromyscus. Started for San Felipe

with Mr. Felix party about 10 AM.
Camped opposite Providencia Canon in
old lab bed on desert.

25: Started early for San Felipe. near
Canon Providencia shot a white-
winged dove. Several white-tailed

eggs shot near Breva Vista camp.
Shot a yg. 3 Antelope, one other
seen on the gulch slope. Frogs common

along road. Arrived at San Felipe
about 10 P.M.

26: Skinned antelope & fixed up
camp. Rained part of day. Felipe
gathered a lot of reptiles.

27-31
April 1-

10: Left San Felipe in AM.
Manuel Felix remaining because
his burros ran away. Camped

at Breva Vista. Felipe saw one
Antelope. Set out a few traps &
caught *Perognathus parvus* +

Lepidomys s. similis.

Mammals of San Felipe

1 *Antilocapra americana*
Scattered bands live on the
plains about San Felipe. Several
seen, one shot.

2 *Ovis cervina nelsoni*
A few ranges down on the
low desert mts. near San
Felipe during the rainy season
when they can get water.

Some live permanently near the
Pozo Solador Breva Vista
where there is a tank.

3 *Spermophilus leucurus*
Not common, a few seen
about the vertical sides of a canon.
Not noted elsewhere.

4 *S. pilosus* ?
Abundant everywhere, especially
about thorny bushes along the
coast under which they have
their burrows. Note a low
clear whistle. Females with
3 to five half developed embryos
just moulting, most with winter
pelage still.

5 *Peromyscus*
Rare, only two taken.

6 *Lepidomys deserti*

Abundant everywhere, on plain
& along coast & canyons, holes
in colonies of from 3 to
12 holes usually.

6-*P. m. similis*

nest so common as the
last & less colonial

7- *Perognathus* - large
common in flat lands of beach

8- *P. parviventris arenicola*?

more abundant than first

9 *Neotoma desertorum*?
Abundant in bushes near
the beach

10 *Lepus cinerascens*?
said to be plentiful some
years, but seen by H. Gray.

11 *L. x. deserticolus*
One taken

12 *L. calif.*?

Common

13 *Felis concolor* -

Foot tracks seen at the springs
several years ago by M. Hales.

14 *Canis estor*?

Abundant.

15 *Procyon l. pallidus*

Tracks observed occasionally by
M. Hales. No tracks seen during
our stay.

16 *Taxidea, neglecta*

Several mts nests seen where
timber bushes ^{are} beneath
get the gnats ^{perched} by butagers. No
fresh tracks seen.

17 *Mephit. cal. pallidus*

Abundant.

18 *Galapagus californicus*?

A large rockery said to
exist on Cowsey Peak about
15 miles N. E. of here.

19 A large black pitia Porpoise
seen occasionally.

Reptiles of San Felipe

- 1 - *Chelone mydas* -
A few seen in the bay
- 2 *Coleonyx variegatus*
One taken
- 3 *Phrynosaurus dorsalis*
Three taken, One other seen
- 4 *Callisaurus draconoides*
Most abundant lizard,
Encumbered in white sand,
- 5 ~~*Crotalus phyllorhynchus*~~ ^{*Uta nearcticus*}
One taken in mouth of canon
in mt. 6 miles west of San Felipe
- 6 *Saurornis ater* -
Mr. Hales says they occur
on a mt. 15 miles N.W.
- 7 *Uta stansburiana*
Very abundant in flat near
bank at mouth, less common
on plains.
- 8 *M. symmetricus*
A few seen in bush near mesa
- 9 *Phrynosoma platyrhincus*
One taken. Said to be common on the
- 10 *Cnemidophorus tigris*
abundant on muddy plains
- 11 *Crotalus cerastes*
One taken. Tracks abundant.
- 12 *C. mitchelli*
Said to be nearly as common as first

Birds of San Felipe I.C.

- 1 Taxis - com.
 - 2 Pelicanus calif. Common
 - 3 Mimus ludovicianus - com.
 - 4 Gallinula ferruginea One taken
 - 5 Ceryle alcyon - One seen
 - 6 Osprey, com. Nesting in sardines
 - 7 Cathartes aur - Common
 - 8 Actis macularia
One seen,
 - 9 Sturnus occidentalis
One seen
 - 10 Sturnus californicus
One seen
 - 11 Sturnus vulgaris
A few seen
 - 12 Phalaenoptilus nuttallii
Seen twice.
 - 13 Myiarchus cinerascens
Several seen.
 - 14 Sturnus vulgaris
Seen twice
 - 15 S. v. semialba -
a few seen
-
- 16 Empidonax
One taken
 - 17 Pyrocephalus r. mexicanus
One taken
 - 18 Corvus c. sinuatus
Common
 - 19 Agelaius p. sonoriensis
This seen about water
during stay.
 - 20 Carpodacus A. mexicanus
Several seen.
 - 21 Spizella breweri -
One taken
 - 22 Hirundo erythrogastra
One seen
 - 23 Mimus polyglottos
One seen.
 - 24 Harporhynchus lecontei
Several seen.
 - 25 Ampelis flaviceps
Common, nesting
 - 26 Ptiliopsis caerulea obscura
Abundant, common
bird.
 - 27 Hummer. ?

- 11: Made Cañon Diablo about 6 P.M.
 Burros worked very slow. Set out a few mouse traps & caught *Perognathus fallax* & *Peromyscus eremicus*.
- 12: Reach cañon Esperanza about noon. Remained two nights. Caught mostly *Perognathus* where formerly none could be found. Apparently they have just come into the cañon or else swarms from a liberation.
- 14: Started for Trinidad. Camped in Cañon Viento. Set out a few traps. Took one *Neotoma desertorum*. This is doubtless the same species which inhabits Cañon Esperanza. The specimen is slightly more fulvous than San Felipe ones. Saw a few gopher mounds near camp & set some traps but caught none. No mounds seen elsewhere in cañon or about San Matias. Believe however that this is a stray of *T. fulvipes*.
- 15 Arrived at San Matias at noon. Camped two days. Caught another of large eared mouse

also some *Perodipus agilis* & many *Perognathus* ~~fallax~~ ^{spinalis} & *femoralis*. Saw several *Felis cinerascens*. Felipe killed 3 *Crotalus ruber* & one *C. mitchellii*. Shot a *Uta* - n. sp. - on willows about spring. In Cañon Viento shot *Sceloporus orcutti* & *Crotaphytus baileyi*.

17: Left San Matias for Trinidad where we arrived at 6 P.M. In the ~~day~~ ^{evening} caught several *Xantusia vigilis* under yucca stems, sometimes as many as four were found under a single stem. This yucca must be *Y. mohavensis*. The yuccas follow down Cañon Viento about half way but do not touch the edge of desert so this species does not probably occur there unless they live under mesquite leaves. Saw one *Spermophilus tereticaudus* & heard several others about 5 miles above Agua Jito.

19: Felipe left for San Matias to hunt up the burros.

- 20: Left Trinidad with Campbell on horse back for Eusemada. Camped a little above Aguila Blanca. Surrounded on us first ~~by~~ about two inches of rain fell in form of snow & hail. Region much like Eusemada except a few scattered green mescal & yucca, ^{unlike those of} occur mostly chemiso bush & juniper.
- 21: ~~Left~~ Arrived at Ojos Negros at 6 P.M. Near Cerro Colorado a single Pinus jeffreyi seen near road. Also a few Quercus wrightii or grisea.
- 22: Arrived at Eusemada about 5:30 P.M. along Las Cruces Creek many Quercus agrifolia seen.
- 25 Left on St. Louis for San Diego
- 26 Took train for Riverside
- 27 ~~Left San Diego at 12:05 P.M.~~ ^{Left San Diego at 12:05 P.M.}
- 28: Returned to Eusemada on boat.

- May 7: Left Ensenada at 10:30 AM, with 6 burros & Henry Johnson as guides, camped at Las Cruces first night.
- 8: Stopped at Ojos Negros at noon. Camped at a spring a little way other side of the river. Spring called Canoa.
- 9: Camped at Sulphur Spring about Santa Clara valley.
- 10: Reached Alamo at noon & bought supplies & a burro. Noticed a few *Spermophilus leucurus* near Ojos Negros also some *Callisaurus draconoides* & *Cnemidophorus tigris*. These species continued all way to Alamo, *Vismaya dominica* about trail also beyond the River.
- 11: Left Alamo about 10:30 AM, & camped at Santa Catarina valley.
- 12: Arrived at Trinidad at 5:30 P.M. & camped at Campbell's.
- 14: Took a ride to San Antonio Indians & Joruncho Ranch for burros & horses but without success.
- 16: Left with Verdugo for round up at Santa Catarina to buy burros, camped in summit of road.
- 17: Went to Pabayo's ranch for burros.
- 19: Left Pabayo for Trinidad.
- 20: Took a trip for 7 ox burros but found none.
- 21: Went with Verdugo for 7 ox colonies & set 4 traps.
- 22: No foxes caught.
- 23: Two young foxes taken.
- 24: Left Trinidad about noon & made Joruncho at 7 P.M.
- 25: Camped at Corral about 7 miles south of Joruncho.
- 26: Lost trail near Guiso Spring but found it again a few miles below & struck camp.
- 27: Stayed at this camp one day & trapped. Caught two *Perognathus* *ferussacii*, 2 *Perdipus* *aythii*, 1 *Lepus* *cunicularius* & 2 *Peromyscus* *leucurus* & *Peromyscus* *leucurus*. Johnson shot a ♀ deer.
- 28: Camped at spring about 6 miles south of San Rafael River.
- 29: Passed through San Jose *chico* river & camped several

miles beyond the canon,
 30. Camped at Valadanes.
 31. Started for San Antonio but
 missed the trail + went straight
 up the mountain to Santa
 Cruz at base of main ridge
 about noon + had to take an
 trail south west to San Antonio
 where we arrived at 5 P.M.
 Set out a few traps. Camped at
 edge of north fork under some
 large live oaks + sycamores.
 Trout plentiful in creek but
 no other fish seen. a few
 caught in seine. *Isonemura*
 + *Carbone capillus* occur but
 only a few of the latter seen.
 This is probably their northern
 limit on the coast slope.
 Mesquit, white sage, flatopuntia
 + buckwheat the commonest
 bushes. Cotton wood, willow oak
 sycamores + water nutty the
 common bushes along the creek.
 No alders seen on creek.

June 1 A few *Peromyscus fraternus*
 + *Perognathus fallax* taken + 1 *P.*
femoralis + 1 *Peromyscus major*

2. More traps set out. Caught
 several *Peromyscus frat.*, *P. major*
P. misiquis, *Perognathus fallax*
 + *P. spinatus*, *Microtus*.

1 *Neotoma f. macrotis* + 2 *Neotoma*
 3. Same species taken, 1 *Spermophilus*
g. fisheri secured.

4. caught several *Thomomys fulvus*
 + one ^{very likely form} *Thomomys longicrus*, several others
 seen + a smaller species common.
 a few cotton tail observed. Tracks of
 one *Procyon* seen. *Vulpes macrotis*
 said to be common on dry hills +
 coons abundant in fall about fruit
 trees. Deer rare now but
 winter. Lions sometimes in
 considerable packs. Wild cats common
 small shrews, *Spilogale* only kind
 which occur. Flying squirrels
 rare.

5. Reptiles abundant. One *Chilomeniscus*
 taken. *Verticillium* + *Cnemidophorus*
 abundant about crevices. One *Iscerodontus*
 taken. *Salpiscia ornith.* abundant.
S. biserialis rare + on oaks.
quivalis. *Uta stansburiana* abundant
S. quercina common on rocks about
 crevices + on trees. Several *Thamnophis*
lammidi seen + two taken.
 One turtle seen in the creek.

6. Started with one *Peromyscus* loop
 for Rosette about 11:00 AM. Made
 about 18 miles + camped at a

Small water hole country
 rolling on flat higher than San Antonio
 with some charrino brush. Cacti
 few, no more cardones seen.
 7. Made Posarito about 5:30
 P.M. & camped in cañon a short
 distance below the settlement.
 Met Mr. Boudry & his party about
 ten miles north of Posarito. He
 had been sheep hunting about
 Soledad where he took four sheep.
 At the Parral yet Mattoni were
 were seen. Set out a few traps about
 camp. Posarito is in a wide
 valley near the summit of the
 mountain at about 3700 ft. altitude.
 The upper end of the valley is
 desert like in flora as at
 Trinidad, Red Gobernadora
 about. One small gray palm
 seen near camp. Others said
 to occur farther up the valley.
 This is the northern range of
 the desert palm on the
 coast slope. It does not
 extend further north on the desert
 slope apparently which is rather
 unusual. *Sarcobatus* cactus
 common ~~also~~ cardones
 seen from the cañon

8. Caught several *Perognathus*
femoralis + *Peromyscus eremicus*
 & one *P. k. medianus*. Set out more traps
9. Caught several *Perodipus agilis*,
Peromyscus femoralis, *Peromyscus eremicus*. Shot
 several *Mus mus* and *Perodipus*
rubricollis which is apparently the only
 species. One *Canis* taken. Several
Lepus tex. taken. *Lepus arizonensis* seen
 occasionally.
- 11 Left with a quail + 4 burros for
 Mattoni for sheep. Camped on *Yucca*
 above Parral.
- 12 Arrived at Mattoni at noon. Saw two
 deer at Parral + one ♀ *Ovis* on way over
 to Mattoni. Mattoni is a large
 rounded valley with cliffs several hundred
 or thousand feet tall rising in on the
 west, north-west + south. It opens on
 the east to desert. The cañon contains
 a fair growth of gray desert palms
 as far as water extends. A few scrub
 oak, yucca + water-worn were also
 seen. Mesquit, *dequin* + a few Palo
 fierro were seen on the desert flank
 which covers most of the valley. *Opuntia*,
Crotilla, + cardones common. Johnson
 saw several bands of sheep, out of 11 at water
 but none secured. Most were ♀s or small
 ♂s. Set out a few mouse traps
- 13 Caught a ~~few~~ ^{one} *Perognathus* *pen-*
citatus + several *P. spinatus* + *Pero-*
myscus eremicus. Signs of nests is
 common but none secured. A few
Lepus tex. seen, also some *Spermophilus*
leucurus but no *S. tereticaudus*, no *Hesperomys*
 burrows noted. Deer rare about Mattoni

A few *Felis concolor* & *F. tigris*
tracks seen. Coyotes tracks com-
mon one taken near of dung
contains skins of the dates
which forms a large part of their
food evidently. *Myotis c. fortis*
seen every night.

Remains at water holes waiting
for sheep. They come down at
about noon, from our records
extends from 9:30 AM to 3:00 P.M.
but most come about 12 M.
probably to avoid lions or coyotes.
They are very cautious when
approaching a water hole & spend
hours looking about & listening
before coming down. Much of
this is done when a mile or two
away or even farther. The least
little noise startles them but
when surprised they do not
bolt & run but look at the point
a little ways away & look again.
When feeding on the hills they
are very watchful, looking up
after taking a few mouthfuls
& gazing about in every direction.
A herd is feeding continually

lunch up when surprised & all
face different directions standing
on the highest rocks & looking
down seldom up. They appear
to inhabit the middle line of
cliffs, not leaving on the upper
edges of the mesas or about the
base of the cliffs. Most of the
eyes seen had eyes, usually one
about a month or two old, one
shot with two eyes, a ♂ & ♀. Quite
a few seen without eyes. One
white eye seen. They do not
appear to depend on smell like
a deer the wind making no
difference in hunting them.

The reptiles about Malton
were about the same as occur about
Esperanza Canyon farther north.
Uta ~~*gambelii*~~ was the commonest species
living on the palm trees, willows &
rocks, it means not more farther
up the cañon or granite boulders. One
U. stansburiana shot only one seen.
Scoloporus orcutti common on rocks
in morning & evenings but not
during midday heat. Adults shy &
hard to secure. Several *S. mayfieldi*
taken on rocks, in sand but not seen
on trees.
Cnemidophorus steganeus common
in sand.

One *Crotalus* *rufo* taken. Johnsons
killed a *Furcifer* *pilatus* *boylei*. I found
the east bank of a *Boscovium* in
creek bed.

Calisaurus *ventralis* not very common,
a few occur on desert.

July 2: Left for Parral. Shot several
Chondestes *collis*. Saw 2 *pygmaea* birds
& one ♀. Weather windy & foggy seen.
Lion tracks seen & few sheep on mesa.

One quail secured some about 25
on middle of grade out of desert
One coyote taken. Caught many *Perognathus*
infernus & *parvulus* & *Spermophilus* *g.* *fisheri*
also several *Thomomys* *fulvus* &
pernix, *leucurus*. *Vesperugo* *fuscus*
common one *Psalm* *felleus* which
had a dozen ♀s with large embryos
one or two.

B. Reptiles as at Matton but
Uta *slau* *bandana* common. No *Sceloporus*
apostemus *g.* One large *Eumeces*, light brown
yellow with red stripes, like one taken
near San Juan. One *Blasius*
crustaceus taken in garden on
black soil & *C. mitchellii* *hillebrandii* near
head of grade by grade. *C. lichenarius*
taken at dusk in rocks. Birds
at Matton mostly *Psittacus* *pacificus*
litae valley. *Quail* *Bon* *bon*
plata *trialis* *parvulus*. About

Matton many *Cordas* seen.
A *Scor* *luteus* taken on top of grade.

July 9: Left Parral & made a
camp on canon near summit of
divide among *Palms* *pinus*,
scrub oaks & ash trees. Quite a number
of *Furcifer* *merriami* seen but only
one egg secured. Several deer seen.
One *Peromyscus* *iniquus* *plata*,
P. l. *barbatus* & *Perognathus* *percillatus*
iniquus *l.* *fallidus* & *Vesperugo* *fuscus*
seen. *Sorex* *cydonatus* seen. *Silphus*
col. common. *Perodipus* *aequatus* common
between intermediate abundants.
Reptiles common. Many *Sceloporus*
biseriatus seen, also *S. orcutti*.
One *Eumeces* *skullin*, taken
under rock near camp. *Cnemidophorus*
common, also *Uta* *quiroga*.

Mr. *Partridge* common near Saltillo.
Thomomys *Wentit* *plata* - *litae* &
trialis *trialis* in *podium* *trialis* also.
No *Uta* *slau* *bandana*. *Partridge* *Furcifer*
merriami or *Sceloporus* *biseriatus* extend
much further south, at least north
San Juan. San Juan *trialis* *trialis*
common in mud at water hole, also
trialis *trialis*.

July 11: Left for Rosarito as we were
out of quail.

July 13: Left Rosarito at 4: P. M.
with a guide & travelled until mid-

night when we camped at a
 spring. ^{There are some cedars trees on}
 sided of cañon. ^{rather high}
 14: Left spring at 8:30 A.M. for
 San Quintin where we arrived
 at 7 P.M. & camped at
 the windmill. A few scattered
 palms continue down the cañon
 to within 10 miles of the coast
 but all these bear only flowers.
 Cardones everywhere, also Pitycha
 cactus but all these grow
 on the south wall of the cañon
 the north being covered with oak,
 manzanita, bushes, sycamores
 etc. Mescal very large & of a
 different species than at
 Rosarito.

15: Moved into town

Reptiles of Joruncho

- 1 Uta stansburiana - seen
- 2 Sceloporus orcutti - "
- 3 Crepidophorus stejuegeri - taken
- 4 Basania c. retusum - taken
- 5 Crotalus ruber -

San Jose

- 1 Callisaurus ventralis
- 2 Uta stansburiana
- 3 " speciosa

- 4 Sceloporus biserialis
- 5 " orcutti
- 6 Phrynosoma blainvillii
- 7 Crepidophorus stejuegeri
- 8 Eumeces
- 9 Crotalus ruber

San Antonio

- 1 Callisaurus ventralis - sand
- 2 Uta ^{microscutata} ~~speciosa~~ - oaks & veg.
- 3 " stansburiana - rocks & sand
- 4 Sceloporus biserialis - oaks - com
- 5 " orcutti - rocks - "
- 6 Gerrhonotus - rare -
- 7 Crepidophorus stejuegeri
- 8 Verticaria - abundant
- 9 Chilomeniscus - one taken
- 10 Phrynosoma blainvillii - com

Rosarito

- 1 Callisaurus ventralis
- 2 Uta speciosa
- 3 " stansburiana
- 5 Sceloporus orcutti - not com.
- 6 " ^{perostictus} ~~speciosa~~ - rare
- 7 Crepidophorus stejuegeri
- 8 Verticaria - a few seen, one taken
- 9 Crotalus ^{perhaps southern range} ~~ruber~~ ^{on Es.}
- Basania ~~retusum~~ ^{Matthews}
- 1 Callisaurus ventralis - a few
- 2 Uta stansburiana - on sand
- 2a " nearsi - a few preserved
- 3 " speciosa - abundant
- 4 Sceloporus orcutti - com.

- 5 *Sceloporus magister* - a few seen.
- 6 - *Cnemidophorus tigris* - a few
- 7 - " *stepheneri* " " "
- 8 - *Tamias s. g. boylii* - One seen by H. J.
- 9 *Bassanius c. v. v.* - cast skin ~~found~~.
- 10 *Crotalus ruber* - One taken.

- Parra -

- 1 *Callisaurus ventralis*
- 2 *Uta mearnsi* - a few
- 3 " *stansburiana* - a few
- 4 " *gambusia*, abundant
- 5 *Sceloporus orcutti* - com.
- 6 *Cnemidophorus stepheneri* - com.
- 7 *Eumeces* - a large one without stripes like specimen taken at San Jose seen at water.
- 8 *Lichanura rosea fusca* - One taken
- 9 *Bassanius c. v. v.* - One taken at top of grade by J. H.
- 10 *Crotalus mitchelli* - a blackish one taken in garden, another white one seen at head of grade.

Rosario divide

- 1 *Callisaurus ventralis*
- 2 *Uta ~~mearnsi~~ stansburiana*
- 3 " *gambusia*
- 4 *Sceloporus biserialis* - com.

- 5 *S. orcutti* - com.
- 6 *Xantusia henshawi* - One seen about rocks at dusk supposed to be this form but may have been *X. nigra* as *gracilis* were common.
- 7 *Cnemidophorus stepheneri* - com.
- 8 *Eumeces* - skitt. One taken under rocks.

Trinidad

- 1 *Cnemidophorus marmoratus*
- 2 *Sceloporus orcutti*
- 3 *Uta stansburiana*
- 4 *Cnemidophorus stepheneri*
- 5 - *Amniella pulchra*
- 6 *Pitheophis catenifer*
- 7 *Thamnophis*
- 8 *Phrynosoma blainvillii*

22: Left San Quentin at 4 P.M. + camped at the mouth of San Simon Cañon a mile above Young's ranch. Set out a few traps near camp.

23 Caught several small *Pteronotus* apparently a new form related to *P. stepheneri* but smaller. Perforator was taken & also *P. t. medius*. Later took a few *Phyllorhynchus* near camp & one short tailed

Peromyscus like one taken at
Solado Trinidad but darker.
Perognathus furvus + P. penicillatus
taken on hillside near camp.

Two *Perodipus* ~~agilis~~ ^{agilis} near
camp on hillside + another bigger
& larger from in fields. These
latter made very large burrows
about size of ground squirrels
but they all looked like eggs
in coloration.

About the lagoon at the
mouth of the river I took 2
foxes, apparently new + many
Microtus gray + *Phithodonta*
with considerable reddish coloration
larger than longeared *phallicus*.
A few com tracks seen + one
caught but it escaped with the
trap. Two coyotes taken
looked + darker + larger
than those taken on Iself coast.
One deer shot by Johnson a 3 point
which had the tail white all
around + looked like a

doose streak + tail of *O. h. californicus*.

Vegetation mostly small
bushes + few *Pithecha* cactus
on rock slopes of hillside
also some *Garembusia* + a few
cardones seen below toward
Provero. River bed mostly
water - mostly paper
willows + cottonwoods
at lagoon cat. tail common +
a heavy succulent weed like
ice-plant.

Paired during the first
few days of our stay which
is very unusual.

Reptiles scarce. Caught a
few *Sceloporus magister* +
Uta stansburiana. One *Cnemidophorus*
seen + taken. One *Crotalus*
terrestris seen. One *Crotalus*
ruber secured from a
rancher, 4 1/2 ft. long, specimens
6 ft. said to occur Black

rattlers said to occur & also
 small blackish form perhaps
 a phase of *D. michelli*. One
Bassaris v. frank taken &
 another seen. *Procyon*
lotor taken, also a *Chilomeniscus*
 secured on a path at dusk,
 at Compa's ranch secured
 a few ground squirrels, &
 large form of *Peromyscus v.*
medius. *Spermophilus l. peninsulae*
 abundant.

Badger left out of list
 sent to Ellis. They
 have been caught about the
 mill.

6. Left San Simon for Wild-
 aqua ^{island} at ranch on way to Posquito
 Camp about 4 miles up canon at 9 P.M.
 7. Arrived at aqua ^{island} at
 3 P.M. & camped. Set out a few traps.
 Caught *Perognathus penicillatus*
Peromyscus iniquus & *P. v. medius*.
 Saw many large nests of *nestora*
lodes etc. *v. f. mont.* or *thru* etc.

Mammals of San Quentin

- 1 *Odocoileus hemionus* Tol. com.
- 2 *Antilocapra americana* Ex.
has been taken at S. Tol. & also (Martinez)
- 3 *Spermophilus l. peninsulae* Ca.
- 4 " " *sp. fisheri*? Tol. com.
- 5 *Peromyscus v. medius* - abundant only
at Compa's ranch only
- 6 " " " *sp. rare*
- 7 " " *fraterculus* abundant
at Compa's ranch only
- 8 " " (short tailed *v. sp.*) rare
- 9 *Blithrodontomys l.* com at lagoon
- 10 *Neotoma intermedia* com.
- 11 *Microtus eximius*? com at lagoon
- 12 *Thomomys fulvus*? com.
- 13 *Perodipus agilis* com.
- 14 " " ? eggs? abundant
- 15 *Perognathus formosus* com
- 16 " " *penicillatus*? com
- 17 " " (*stephensi*?) abundant
- 18 *Lepus cinerascens* tol. com.
- 19 " " *californicus* " "
- 20 *Felis concolor* - rare
- 21 " " *r. californica* "
- 22 *Canis ochropus*? com.
- 23 *Vulpes macrotis* rare
- 24 *Procyon l. hernandezii* tol. com on beach

- 25 *Taxidea a. neglecta* rare
- 26 *Spilogale* - rare
- 27 *Lalax* - 4.
- 28 *Galophas*, com in ids
- 29 *Phoca vitulina* - com in bay
- 30 *Sorex*, 1st. com. at lagoon
- 31 *Verperula fusca*? rare.

Arrived at Agua Escondida at 3 P.M., & camped. This is a small cove near Posanto cove filled with callowmets willows & Palms. Caught ~~the~~ one of the Coyotes & ~~one of the~~ *intermedia*

10: Left Agua Escondida at 11. AM for Posanto where we camped above the town in the callowmets at 7 P.M. On way over saw several *Sidus* trees on mesa near cañon. These were mixed in with cardones & were in blossom, I photographed two. This is evidently the northern range & here they are limited to a narrow belt not over a few miles wide. Said to be abundant farther south on both coasts.

11: Shot one *Lepus cin.*? This is a new local. Took *Utricularia callisaurum*, *Crotalus ruber* at Agua Escondida. Saw a yellow striped *Arctomys* perhaps *A. ~~leucurus~~* in cañon but could not secure it.

12: Shot several *Lepus cinerascens* caught a ♂ *Neotoma f. macrotis*

13: Caught a *Peromyscus* *minimus* at a *Neotoma* nest. This is a new species I did not take here in June or July.

14: J. brought a large *Perognathus forsteri* which had been caught in one of the houses at Posanto where it had stored up several lbs. of corn & beans in a hole from which it has been drowned out. Shot a *Verperula fusca*. Both of these species are new to my list of this locality. The large *Neotoma* I took at Agua Escondida has the appearance of the *intermedia* of the north & builds a large nest ~~to~~ which I mistook for *N. f. macrotis*. The other *Neotoma* taken on hillside in rock piles are much smaller & redder. Think two species occur here.

15: Left Rosarito for the San Pedro
Mante Mts. Made my first camp
at San Jose, a cattle ranch + creek
about 15 miles north of Rosarito
+ about 4000 ft. elevation, about
1000 higher than Rosarito +
in different vegetation. Most of
the vegetation is juniper +
chamisso bush with a few
mesquites, Yuccas + mesquites
noticed one large Piñon near
here on trail. Several *Spermatophytes*
abundant, but do not think
they extend much farther up
the mts. Johnson saw a *Tamias*
obscurus near the camp. *Samb.-oak*
common on hillside. *Deepans* *inquire*
not sure about the camp.

16: Started from San Jose at 8:30 for
the mountains. Noticed several
pools about water holes a
little above our camp at base
of grade. Passed through the
Piñon camp at 3 P.M. The
vegetation was mostly *samb.-*
oak + red-chamisso with a few
Piñons. Collected *signs*
very abundant. A few *Tamias*
*For the first time with *Spermatophytes**

ground. *squirrel* seen but no *Tamias*
or *Spermatophytes* seen. After
crossing a high ridge above
Piñon the main ridge of the
mountains was here reached at about
6 or 7000 ft. elevation. We looked
down upon valleys of yellow
pine a few hundred feet below.
The ridges here are barren of yellow
Pines, being mostly *manzanita*
samb.-oak, *chamisso*, *etc.* *perhaps*
with a few Piñons. This is probably
due to lack of water as many of the
pines in the valley were dead.
Apparently from lack of moisture.
To the south the mountain sloped
off into brush mesa + hills +
before we could be seen the last yellow
Pines on the peninsula. Santa
Eulalia lies in the second pine valley
& considerably lower than the first. The
creek drains off to the south. Besides
the pines, the grey oak + *samb.-*
oak are common. *Pharos* *cal.* *abundant*.
A few *yucca* *amblyandra* + *mesquit*
plants + a few *small trees* +
flat *leaves* *scattered* over

seen on the hillsides. On entering
 the first pine grove J. slots
 small buck which skinned its horns
 in rolling down the hills. These
 were still in the velvet. This
 specimen appeared more reddish
 than the coast form & had a
 patch of reddish on the dorsal part
 of the tail but it did not
 extend to the tip but was
 separated from it by the white
 from below.

Aug 27: Santa Eulalia. Saw a *Tamias*
 today feeding on the acorns of the
 Scrub oak, *Quercus dumosa*. I
 think their distribution depends
 largely on this bush as they
 appear to extend as far down the
 mountain as it does which is
 also the limit of the Piñon
 pine.

Sept. 2: Left S. Eulalia for
~~Posarito~~ Santa Rosa meadow
 where we arrived at 8 P.M.
 & pitched camp at the head of
 the cañon a considerable
 distance from the valley. Water
 scarce only a few rock pools
 in the cañon.

Birds of Posarito

- 1 Killdeer - Common along the creek
- 2 Valley Partridge - Abundant.
- 3 - Mourning Dove - "
- 4 - Turkey Vulture - "
- 5 - Zone Tailed Hawk - One seen at
 Agua Escalada
- 6 ~~Acorn~~ Sharp Shinned Hawk - a
 few seen.
- 7 Flicker sparrow - Com.
- 8 Water horned Owl - Tol. com.
 Heard often.
- 9 Wood Pewee - a few seen.
- 10 Turkey voo - wild - Tol. com.
- 11 Texas Nighthawk - Abund.
- 12 Ark. Kingbird - Com.
- 13 Ash-throated Flycat. "
- 14 Say's Phoebe - Tol. "
- 15 Black " Com.
- 16 Am. Raven Abund.
- 17 Ariz. Wood Owl - Com.
- 18 House Finch - "
- 19 Willow Goldfinch - Abund.
- 20 Desert Sparrow. "
- 21 Song Sparrow Com.
- 22 Brown Towhee - Tol. "
- 23 Cliff Swallow - com.
- 24 Phainoptila - "
- 25 White rumped Sucker - Rare
- 26 Field Vireo Com.
- 27 Min. Woodpecker Rare

28. Owl, Throated - a few seen.
 29. Scattered among them - a few seen
 30. Munt. 700' com.,
 31. Bush " - "
 32. West. B. tit 200' com.,
 33

Reptiles of San Quentin

1. *Crotaphytus wislizeni* - one taken
2. *Uta stansburiana* - com.
3. *Sceloporus zosteromus* - 700' com.
4. *Chenidophorus steyi* - One seen.
5. *Verticaria* - One seen.
6. *Chilomeniscus* one taken
7. *Lampropeltis boylii* 2 taken
8. *Baccharis v. retusum* - 2 seen
9. *Crotalus mitchelli* - one seen
10. " " puber - one taken

Trees & shrubs about Santa Catalina

1. *Pinus quadrifolia* -
 Common. Confined chiefly to the
 rock ridges & hillsides. Noticed
 from San Jose to the camp. Not
 common below the Pines, 4500 ft.
2. *Pinus jeffreyi* - Abundant in the
 valleys about here but absent
 from the ridges apparently
 because of lack of water. Many of
 the trees in the valleys dead
 on account of drought. Does not
 extend any further south than
 a few miles south of camp.
3. *Salix* -
 A small shrubby species abundant
 along all the streams. No other
 species noted.
4. *Quercus dumosa* -
 Common on the hillsides &
 ridges.
5. *Q. grisea* -
 Abundant among the pines from
 2000 ft high, 41. inches.
6. *Rhamnus purshiana*
 Abundant about camp; first seen
 at Pinos.
7. *Ceanothus* - oak leafed -
 Abundant on ridges & hillsides
 above pines.

- 8 *Adenostema* (Chamisso) abundant on all hillsides, the only shrub on many hills.
- 9 - *Did. Chamisso* - a few seen above also noted common on hills near S. Eulalia Pine near first pines
- 10 - *Opuntia* - flat leaved - a few on hills
- 11 " - round " - " " " "
- 11a *Mammillaria* *caerula* - a few in the rocks
- 12 - *Hay compositae* abundant about sand flats where it grows very thick excluding all other bushes.
- 13 *Arctostaphylos glauca* abundant on hills
- 14 *Yucca involvens* - not rare on hills
- 15 *Mesal* - large green leaves, not rare on hillsides above the pines
- 16 *Mazania* like shrub with flower clusters like *(Philadelphus serpyllifolius)*
- 17 *Symphoricarpos* - a few seen
- 18

Birds of S. Eulalia

- 1 Western Solitary Sandpiper - Three seen about spring, One shot.
- 2 W. Partridge
Common. Many shot.
- 3 Valley Partridge
One very noticed + a few shot.
- 4 Mourning Dove
a few seen.
- 5 Cal. Vulture
a few of 5 seen.
- 6 Turkey Vulture
abundant.
- 7 Cooper's Hawk (*Harris Hawk*)
Three seen daily, One shot.
- 8 Red-tail
Tot. common.
Red-tail?
- 9 Swain. or (*Harris Hawk*)
One large black hawk without red tail seen.
- 10 Sparrow Hawk
Seen a few times.
- 11 Horned Owl
Heard often
- 12 Roadrunner
One seen.

- 13 Belted Kingfisher
One seen.
- 14 Cabanis's Woodpecker
Common
- 15 Cal. Woodpecker
A few seen.
- 16 Red-shafted Flicker
a few seen & heard.
- 17 Poor-will
Heard often. a few seen.
- 18 White-throated Swift.
Several seen.
- 19 Cuckoo
Several seen, all ♀s
- 20 Rufous Hummer
One ♀ seen.
- 21 Black Phoebe
a few seen.
- 22 Olive-sided Flycatcher
One heard.
- 23 W. Wood Pewee
common, 2 shot.
- 24 Red Jay
abundant down to 4000 ft.

- 25 Am. Raven
abundant.
- 26 Pinon Jay
Very abundant in Pinon
wren below 5000 ft.
- 27 Cassin Purple Finch
One ♀ seen.
- 28 House Finch - ♀
Common.
- 29 Ark. Woodpecker
abundant.
- 30 Pin Siskin
One seen. Several heard.
- 31 Townsend's Junco
abundant.
- 32 Bell's Sparrow
Two seen & shot.
- 33 Her. Song Sparrow
One taken in traps. ~~two others~~
seen.
- 34 Spurred Towhee
Two, common.
- 35 Blk. hd. Grosbeak
Several seen & heard.

- 36 Martin
a few heard & seen
- 37 cliff Swallow
Common,
- 38 Violet-green Swallow,
Common.
- 39 Parula-wg. Swallow, ?
A few seen near 'bark' or
Spring,
- 40 Lutescent Warb.
Several seen, one shot
- 41 Yel. Warb.
Common
- 42 Blk. thro' Gray Warb
a few seen
- 43 Pileolated Warb.
Trl. common
- 44 Cal. Thrasher
a few seen, one shot
- 45 Slotted Crown Wren
Hatched at 5000 ft below,
- 46 House Wren
abundant
- 47 Rock Wren
abundant,
- 48 White-rumped Nuthatch
abundant
- 49 Gray Titmouse
Trl. common. Several shot
- 50 Mt. Chickadee
Common,
- 51 West Tit
Trl. common
- 52 Bush-Tit,
abundant; several shot,
- 53 W. Mt. Gnatcatcher
Several seen & shot,
- 54 Blue bird
abundant; down to
5000 ft. (Pine)
- 55 Brewer's Sparrow,
One shot; only one
seen,

Mammals of Santa Catalina.

- 1 *Odocoileus hem.*
Several shot & three skinned.
An old doe & a yearling shot,
the doe had the tail white above like
the one taken at San Simon, while
the yearling & spots back had a
dark dorsal stripe as *O. californicus*
is said to have. Perhaps the form
californicus is based on an immature
animal. Horns in the velvet. One
small fawn in dark red coloration
seen.
- 2: *Tamias obscurus*.
Common, appear to live mostly in
the scrub oak & feed on the acorns.
Some seen low down as San Jose
carral.
- 3 *Spermophilus g. fisheri*?
abundant.
- 4 *Peromyscus thurberi*
Vol. common on the hills & rock
piles.
- 5 *P. t. gambelii*?
Common chiefly about the creek
bottom & sage flats.
- 6 *Neotoma fusc. nevad.*?
Common about the willows near
water holes & about the brush hills
where many large nests were seen.
- 7 *N. intermedia*
Common on the hillsides in rock
piles.
- 8: *Microtus*
A few runways seen in one place
in the willows but none could be taken.
- 9 *Thomomys*
abundant about the valley.
- 10 *Perodipus sp.*?
abundant. Light colored with
little black on back.
- 11 *Perognathus bairdii*?
Rare. Two taken on sage flats.
- 12 *Lepus cin.*?
Rare. A few seen & only one was
taken. Piles abundant on hillsides but
mostly several years old. Doubtless
abundant as at Piochition.
- 13 *L. mont.*
A few seen. None taken.
- 14 *Felis concolor*
One old track seen by J.
- 15 *Canis*
One taken. Tracks rather scarce.
- 16 *Urocyon*
One taken. No other tracks seen.
- 17 *Nyctepithecus*?
One track seen.
- 18 *Scap. saurus*
A few old runways seen in the sand.

19 P. *spidula* *hespera*
Abundant.

20 *respectus* *ficus*
Common

21 *Mysotis* *luc.* *longica*
One taken. Rare.

Reptiles of S. Eulalia

1. *Sceloporus biserialis*
Abundant on the oaks & about the rocks & brush generally. Seen chiefly on the ground.

2. *S. graciosus*
Seen in a few places but not common. Some seen that had their burrows beneath bushes instead of rocks.

3 *Amecetes skiltoniana*
One small one taken & another seen; both found beneath rocks.

4 *Crotalus bicifer*
A small black rattler taken. The Mexicans assert that they grow no larger which would if true lead one to expect a form different than *C. bicifer*. Rare. No tracks seen.

5 *Uta stansburiana*
Abundant on the rocks everywhere.

Sept. 5 left Santa Rosa for La Grulla where we arrived at dusk & camped near the corral at the lower end of the valley. S. Rosa lies S. Eulalia is in a quartzite or hard sandstone region, only the ridges in places being granite. La Grulla however is wholly granite the hills composed entirely of granite boulders placed in all kinds of positions. Between these rocks the pines find a foothold. The valleys are open meadows, the pines only growing among the boulders. This is a very different region from the southern part of the range where the ridges are made up of sandstone & comparatively smooth & brush covered & the valley filled with pines. No Piñon Pine about La Grulla where sugar pine & *Limonium* is quite common the latter along the creeks & the former on the ridges. Ridges here with little or no brush; a few *Mazus* & live oak seen & *Rhamnus* common.

Mammals of S. Posa,
1 - *Odocoileus* here
I have seen at Pinal about
3 miles south on our way over, a
few tracks noted but none seen
near camp.

2 - *Tamias* *obocurus*
Abundant about the
logs + rocks bordering the
cañon

3 - *Spermophilus* *g. fisheri*
One caught + several heard.

4 - *Peromyscus* *thomomys*
Abundant in the cañon
where many were taken
in oak + manzanita brush,

5 - *P. tex.*
Common in the cañon
+ on the flat valley also,

6 *Neotoma* *inter.*
One taken in the rocks at
head of the cañon. No nests
of sticks of N. fisheri seen in
the creek bed or willows.

7 *Thomomys*
Abundant on the floor
of the valley, one taken

8 *Peromyscus*
Pursions *tot.* common
on the floor of the valley. One
taken

9 - *Perognathus* *boileyni*
Flour eggs taken in the
cañon but not adults.
Apparently much more
common than at S. Catalina

10 *Lepus* *mont.*
Trackless common in the
drier parts of the valley.
Tracks noted however.

11 *Felis* *concolor*
The tracks of two seen
+ one heard calling through
meadow at 9: P.M.

12 *Canis*
One taken + a few tracks
seen far down the cañon

13 *Urocyon*
I saw the tracks of one
in valley a little way south.

14 *Procyon* *hesperus*
Abundant

15 - *Vesperugo*
a few seen.

Reptiles of S. Posa

1 - *Uta stansburiana*
One taken, only a few seen, apparently near their natural range on the banks.

2 - *Sceloporus biserialis*
A few seen & two taken, not as common as the next & apparently into the first this is their upper limit.

3 - *S. graciosus*
Very common. The most abundant species.

4 - *Phamophis hammondi*
In same small one with yellow stripes.

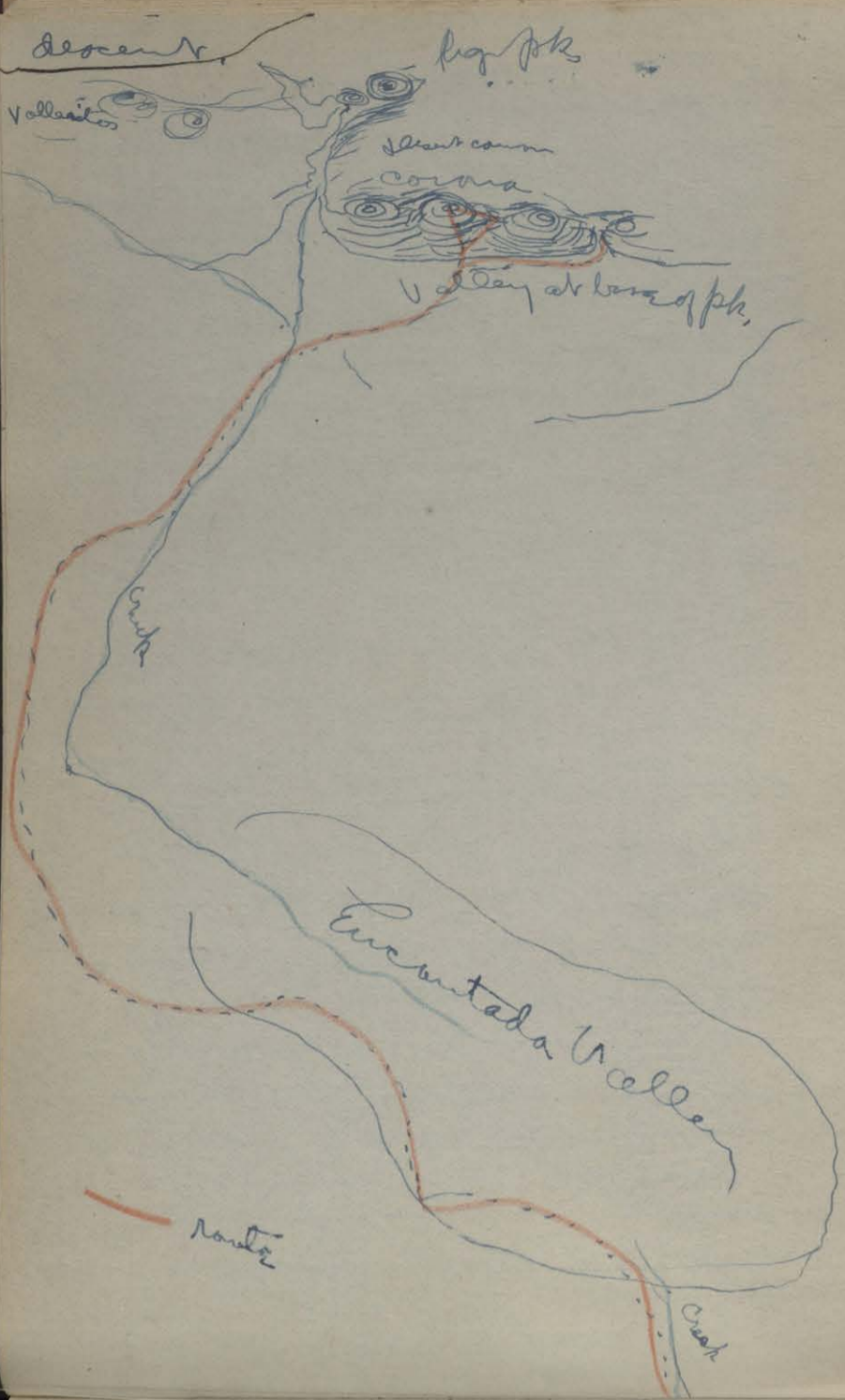
Birds of S. Posa

- 1 - M. Partridge
a flock heard near camp.
- 2 - Turkey Vulture
common.
- 3 - Red-tail
A few seen down the canon.
- 4 - Sparrow Hawk
One seen near camp.
- 5 - Horned Lark
One seen in the canon.
- 6 - Cabanis's Woodpecker
common.
- 7 - Flicker
Several seen.
- 8 - Anna's Hummer
Several seen & common.
- 9 - Rufous Hummer
Two seen shot.
- 10 - Empidonax diff.
One seen in canon.
- 11 - W. Wood Pewee
common.
- 12 - Pine Jay
abundant.
- 13 - ~~See~~ Purple Finch
common. Several shot.
- 14 - Ark. Goldfinch
abundant.

- 15 Pal. Horned Lark,
a large flock seen in the
valley as we were leaving
- 16 Trn. Junco
Abundant;
- 17 - Horned Lark
Trn. Junco in canon,
only ones seen,
- 18 - House Wren
common
- 19 Rob Wren
abundant in canon,
surprised to find
the canon was in such a
good place for it.
- 20 Mr. Chickadee
a few seen.

- 21 Bluebird
Abundant.
- Trn. J. S. P. Wren
- 1 - Trn. P. Wren rare, perhaps
the upper limit. if
 - 2 - Yellow Wren - abundant
 - 3 - Wren - a few small ones in canon
 - 4 - Gray oak - a few bushes
 - 5 - Scrub oak - common
 - 6 - Manzanita - abundant.
 - 7 - Willow - bushes in the canon
 - 8 - Phoebe - common

Sept 20. Climbed the middle peaks of the
Corona. Left Saluda at dawn + got a
quail at Encantada. At about 8500
saw our first Cypress Fir trees which
became commoner as we ascended.
Cypress abundant on the large flat
at base of peaks. Fir trees scattered
in canon but thick on north hillsides.
The peaks consisted mostly of gigantic
boulders with a few yellow & sugar
pines + Libocedrus + Abies, Manzanita
+ Scaevola abundant to the top, as
also scrub - oak. Noticed a few
gray oaks in canon on way up to the
flat. Only signs of manzanita on
peaks seen were vestigial ferns,
piles in rock piles. No Curlew or
Tanager seen; One seen below
flat, when a few ground squirrels
were seen. Hoppers abundant on the
flat. From the top of the peak went
one to the north west could be seen
close by which is evidently higher
& composed largely of granite slide
rock as are most of the canons on
the desert side. Here too for a
nearly perpendicular cliff. One canon
seen near the top on desert side, no
other slopes seen which would be
available for Camp. A few deer
signs seen & one seen in the



22: Left Salinas at 3 P.M. & made pass
 way to Vallacito. A few pine &
 sugar pine seen on way over.
 23: Arrived at Vallacito at 3 P.M. On
 way over saw many *Pinus Murrayana*
 on the edge of little valleys
 filled with grass & weeds & rimed
 by aspen. Many of these pines
 were 2-3 ft in diameter & 60 or
 more ft. high. Very abundant. A
 few deer seen on way over & one coyote.
 Oct. 2: Climbed eastern ridges of the valley
 to edge of desert & close to the
 highest peaks. ^{at 9500 ft.} Saw a few pine trees
 on ridge, also some cypress which
 appear to keep on the desert side.
 Fir & sugar pines common. 5 deer
 shot 3 ♀ & 2 ♂ favours; one of the latter
 had a white tail the other had a dorsal
 dark stripe as did two of the ♀s the other
 being white tailed. The color of
 the tail is apparently individual &
 apparently remains fixed from youth.
 Saw several *Tamias*. *Junco schickadee*
 were the only common birds.
 4: Made another trip toward the peaks
 but did not get far. Cedar seen to be
 confined chiefly to the western edge of
 Vallacito now being found in the valleys
 on the ridges but abundant to the
 south & west. Largest tree found near
 trail at south end, about 14 ft in diameter

Birds of Laguna

- 1 Green-winged Teal -
One ♀ shot. 9 feathers seen
- 2 Shoveller
One ♀ shot
- 3 Pintail
15 shot - Common in ponds.
- 4 W. faced Booby This -
One seen in pasture + observed through a telescope. No which seen about base of bill. neck grayish brownish streaked. Evidently a young bird.
- 5 Sora
One shot in creek; others heard in swamp.
- 6 Western Sandpiper
One shot, only one seen.
- 7 Yellow-legs -
Several seen.
- 8 Western Solitary Sandpiper
Several seen
- 9 Killdeer
Abundant
- 10 Mt. Partridge
Several shot; one feather seen only
- 11 Mourning Dove
Several seen
- 12 Cal. Vulture
One seen about the coronas pits, a few more about a dead steer in meadow.
- 13 Turkey Vulture
Abundant.
- 14 Harris's Hawk ?
A few seen in meadow chasing dark lutea field hawks. Belly white, throat grayish dusky streaked; size of Cooper's Hawk. One seen eating a chipping sparrow
- 15 Sharp-shinned Hawk
A hawk of this size seen on trail to Encantada.
- 16 W. est. Red-tail
Common - One shot.
- 17 Sparrow Hawk -
A few seen - Rare -
- 18 Horned Owl
Common One shot.
- 19 Belted Kingfisher
Several seen.
- 20 Calaniss Woodpecker
Common
- 21 Cal. Woodpecker
A few seen. Pines to be pecked with acorns seen occasionally.
- 22 Red-shafted Flicker
A few seen. Heard often.
- 23 Dusky poor will -
Heard often
- 24 White-throated Swift
Several seen about the peaks w. of meadow

- 25 Anna's Hummingbird
Common, 9 shot.
- 26 Rufous
Common, 9 shot.
- 27 Ash-throated Flycatcher
One seen.
- 28 W. Bl. Oboche
Common
- 29 Olive-sided Flyc.
A few observed & heard.
- 30 W. Wood Pewee
Common.
- 31 ~~W. A.~~ St. Lucia Flyc. ♀
A few seen. One shot.
- 32 Beld. Jay,
a few seen about peaks S. W. of ^{meadow}
Not one seen in pines, kept in chaparral
usually.
- 33 Am. Raven
abundant.
- 34 Pinon Jay,
Not common bird of Pinon,
- 35 Brewer's Blackbird,
abundant.
- 36 Cassin's Purple Finch
a few seen. Heard often.
- 37 Ark. Woodpecker,
Common.
- 38 West. Chipping Sparrow
Common.
- 39 Tow. Junco
Abundant.
- 40 Heer. Song Sparrow
Common in country.
- 41 Spurred Towhee
a few seen.
- 42 Bob. Id. Grosbeak
One seen.
- 43 W. Tanager
a few seen, all females.
- 44 Violet Green Swallow
a few seen.
- 45 Cal. Shrike
One seen & shot at but lost.
- 46 Vireo Warb. Vireo
One shot, a few seen.
- 47 Ind. Warb.
Common.
- 48 Aud. Warb.
Common.
- 49 Blk. Throated Jay
Not common.
- 50 Mangrove Warb. ?
One shot, another seen.
- 51 Pileolated Warb.
Common.

- 52 Rock Wren
abundant
- 53 House Wren
common.
- 54 Blue Wren
Several seen in swamp & creek, one shot.
- 55 Slender-billed Nuthatch
a few seen.
- 56 Wh. nuthatch
abundant
- 57 W. Chickadee
abundant.
- 58 Dusky-bk. Thrush
One shot. Several seen. Evidently a migrant as only seen during latter part of migration stay
- 59 San Pedro Bluebird -
abundant.

Reptiles of Salsilla

- 1- Sceloporus graciosus -
The most abundant reptile. Found about the meadows on the borders where which they live. Many seen also hiding in burrows in the sand bordering the meadows
- 2- Eumeces skiltonianus
Two blue-tailed snakes seen but none secured.
- 3- Thamnophis hammondi
Common about the creek & edge of swamp in the meadow
- 4- Crotalus leucifer
Two caught in rat traps. No others seen. This is the only form known to occur.

This meadow is evidently above the range of Scal. bisectatus & uta stansburiana & clausenianus

Mammals of La Silla

- 1 *Odocoileus hemionus*
Rather scattered about La Silla.
One spike buck seen & tracks of several others. J. went hunting two days but without success.
- 2 *Ovis c. nelsoni*
A few horns been seen about the Corona peaks, no signs seen by us.
- 3 *Sciurus d. meadowsi*
Two taken & a few others heard by no others seen. Said to be more common at other ^{some} seasons. Those taken were in yellow pine trees.
- 4 *Tamias olivaceus*
Abundant living in the boulder piles. A few seen below the peaks at 9000 ft.
- 5 *Spermophilus g. fisheri*
Abundant in the boulder piles about the meadow.
- 6 *Peromyscus tex.*
Abundant about the creek & damp meadows.
- 7 *P. thomomys*
Common everywhere in the rocks & weeds.
- 8 *P.* — like the last but smaller.
A few taken along the creek.
- 9 *Neotoma a. fus. mac. 3*
^{rare signs of fus.}
A few nests seen along the creek.

The most of them live in rock piles like *N. intermedia* does lower down. Many paths seen in boulders on the highest peaks.

- 10 *Microtus* —
A few found in meadow about the rocks where there is vegetation enough to shelter them.
- 11 *Thomomys*
Abundant everywhere in damp meadows or sandy hillsides.
- 12 *Lepus mont.*
A few said to occur in the dry parts of the valley, no signs seen however.
- 13 *Felis concolor*
Part. ~~the~~ skeleton found.
- 14 *F. m. cal.*
Part. ~~the~~ signs seen. One seen on way over to Encarnada.
- 15 *Vulpes* ^{not common}
I saw a few tracks at Alcatraz Spring. Rare.
- 16 *Mephitis*
Said to occur but doubtful.
- 17 *Spilogale*
Said to occur.
- 18 *Sorex*
A few runs seen but no mounds. They apparently do not ~~turn up~~ mounds. Seen only in the sand.

in the dry parts of the valley not occurring in the heavy black soil which they prefer in other localities.

19 *Myrtus l. longipes* - a few taken by Walter near

20 *M. evotis* a few taken, occurring like the last in limited numbers,

21 *Vespetilio fusus* One taken, a few others seen.

22 *Mycteronis mohavensis* One taken, a few others seen. The rarer species,

23 - *Cornis*
Weasels not known a few said to occur about the mission. *Peromyscus* not known. The Encantado rancher did not know of skunks this high up & he has lived there longer than anyone else & resides on the mountain,

1 *Alnus pinetorum* abundant about the hills & creeks as bushes.

2 *Ceanothus cordellii* abundant on hillsides & along creeks in a few places.

3 *Rosa cal.* abundant especially about creeks & base of the peaks.

4 *Amelanchier* a few seen.

5 *Cereus* - a small *Cereus* ^{mountain} seen in the rocks occasionally.

6 *Opuntia* - a few small one seen with flat elliptical stems.

7 *Syrphocarpus* - seen about creeks & hills.

8 *Arctostaphylos pungens* - not as common as the west, seen on peak

10 *A. sphaerocarpa* - abundant on hills, to the highest parts.

11 *Salix* a few seen.

12 *Populus tremuloides* common near the creek, seen at base of peaks on pine flats.

13 *Quercus chrysolepis* & a few seen below large *Q. dumosa*

- 14 *Q. grisea* -
 Seen only near base of peaks,
 15 *Q. dumosa* ~~chrysolepis~~
 abundant on all hills &
 on the peaks. Very variable in
 leaves & size,
 16 *Carpinus*
 Seen about base of peaks
 at 2000 ft. at head of uncontacted
 canon, some trees 2 ft. though
 a few seen about the lower slopes
 of the peaks,
 17 *Abies* -
 A few seen at base of peaks
 at head of canons, on north
 side of peaks the predominant
 tree.
 18 *Pinus lambertiana*.
 Common on ridges about the
 meadows & on the peaks. No
 large trees known,
 19 *P. jeffreyi*
 much abundant throughout
 to the summit, largest 12 ft in diam.
 20 *Thuja cedrus* -
 A few seen about creek &
 in *Sulla*. Also on peaks,
 21 *Pinus* ~~resinosa~~ *resinosa* ~~resinosa~~
 in hills. *Pinus* ~~resinosa~~ *resinosa* ~~resinosa~~
 (*amophila*)

Pinus ~~resinosa~~ *resinosa* ~~resinosa~~
 trees about the valley

Oct 6: Had a trip down the trail to
 the next water at Aguaje de las Mesas
 at about 6500 ft, in a canon filled with
 cedar & yellow pine. At about 7000
 ft some hills covered with chamise
 and chincho, some *manzanita* &
 few gray oaks. Coon tracks, lion tracks
 seen along creek

8: Left *Abies* for Aguaje de las Mesas
 about 500 ft above the opening of the space
Chamaecyparis is the limit of the *Dr. quercus*
manzanita & a *quercus* form *latkes*
 its place. Here *chamisa* brush & prickly
 leaved *ceanothus* begin, also *yerba santa*
 Cotton-tail pines seen in the *chamisa*
 brush but not common. This is their
 vertical limit & they apparently do
 not range beyond this brush as at
S. Coulalia.

13 Left Aguaje de las Mesas at noon
 & camped at Pison about 2000 ft
 lower down on a large flat where
 a few yellow pine grow. This was the
 last grass seen on the mountain.
Jack-rabbit paths & *Perodipus* burrows
 were common here. Set out a few traps
 in the canon below the Mesas & caught
 several *Perodipus*, *baileyi* & *P. m. sp.* *Micocentrus*
 & *Tex.* Set out a few traps also about the

Birds of Valdecitos

- 1- Mt. Partridge
Several flocks seen.
- 2 Condor
a few seen flying over
- 3 Turkey Vulture
Several seen
- 4 Sharp shinned Hawk
One shot, several others seen
- 5 Cooper's Hawk
One shot, another seen
- 6 Harris's Hawk
One seen
- 7 W. Red-tail
Common
- 8 P. Hawk ?
One shot, perhaps a sp. sharp-shin.
- 9 Spar. Hawk
One seen
- 10 Horned Owl
common
- 11 Burrowing Owl
One seen by J. V.
- 12 B. Kingfisher
a few seen
- 13 Cabanis's Woodpecker
common.
- 14 Cal. wood pecker
A few times within range in brush
seen, a few birds seen
- 15 Flicker
- 18 Red-bellied Sapsucker - Two shot
- 16 Am. Hummer
Common, only a few seen
- 17 Rufous Hummer
Several seen
- 19 Oliv.-sided Flycatcher
Heard a few times
- 20 W. Wood Pewee
a few seen
- 21 West. Flycatcher
a few seen, One shot.
- 22 Belding Jay
a few heard in the brush & in
the pines near camp.
- 23 Raven
Several seen.
- 24 P. Jay
Abundant.
- 25 W. Evening Grosbeak ?
Several shot. Common for a few days
only.
- 26 House Finch
Two shot. Seen often.

- 27 Low. Goldfinch,
a few shot, common
- 28 Pine Siskin,
a few taken, many seen,
- 29 Junco Sparrow
common. Two shot,
- 30 W. Chipping Sparrow.
abundant
- 31 Towhee
abundant.
- 32 Spurred Towhee
a few seen,
- 33 Low. Partridge
one seen.
- 34 ~~W. Vireo~~ - ?
a Vireo heard doubtless a Warbler.
- 35 Interm. Warb.
abundant,
- 36 Ind. Warbler
common.
- 37 Mc Gills Warb.
one shot. Several seen,
- 38 Pileolated Warb.
common.
- 39 Am. Pipit
Several seen in the meadows
- 40 ~~W. Vireo~~
a few seen.
- 41 Canada Wren
one heard.
- 42 W. Horned Lark
a few seen. One shot
- 43 Golden-billed Nuthatch
Several seen.
- 44 White-naped Nuthatch
not so common as the last. One shot.
- 45 W. Chickadee
abundant.
- 46 R. C. Kinglet
Several seen.
- 47 Hermit Thrush,
One shot, other seen.
- 48 S. P. Bluebird,
common.

Mammals of Vallecitos

1. *Odocoileus hem.*
Common. Seven shot. Running season just beginning in latter part of Sept. Horns hard. Few bucks seen. Coloration of tail evidently of no value but variable. Horns show dark white tail + a few deer but most of the adults had a dark dorsal stripe on throat.
2. *Onisc. Nelsoni*
A few has been shot on the ridge bordering the desert side of the mountain. No signs seen.
3. *Sciurus d. nearctic.*
None taken ^{at least} only ones seen. apparently rare.
4. *Tamias obscurus*
Abundant but mostly young. Notes same as *T. townsendi*. a chirping sound when near or disturbed & a booming sound occasionally.
5. *Spermophilus g. fischeri*
a few seen, three caught. Not common.
6. *Peromyscus tex.*
Common about the creek.
7. *P. leucurus*
Abundant everywhere.
8. *P.* — like the last but small sized. Only one taken.
9. *Neotoma f. macrotis*
Common. Nests in the willows but most live in the bank of the creek.
10. *M. intermedia?*
Two taken. Not common, evidently ^{near} their vertical range.
11. *Microtus*
Common along the creek in grassy places & soft earth.
12. *Thomomys*
Abundant about the creek
13. *Perognathus baileyi*
One taken, only one seen. Many traps set but not others taken.
14. *Felis concolor*
Said to occur. No tracks seen.
15. *F. p. cal.*
Said to occur. No signs seen.
16. *Canis*
One taken. Several seen.
17. *Urocyon a. cal.*
A few small tracks seen supposed to be of this species.
18. *Spilogale*
Two taken. Rare.
19. *Scapanus*
Murray not rare but none could be secured. No mounds above mounds this form but mounds probed through the earth at considerable depths. Surfaces mounds used only once.

- 20 *Myotis evotis*
A few seen.
- 21 *M. velox*
One shot. Common.
- 22 *Vesperugo hesperus*
Several seen.
- 23 *Myctinomys mohavensis*
Several seen.

Reptiles of Vallecitos

The
Sceloporus gramineus
Only reptile seen; not
common.

Altitudes

Rosario	3000
"	Divida 4000
Pino	4000
S. Eulalia	6000
"	Pora 7000
La Gulla	7500
Vallecitos	8000
"	Kressas 6500
Piton	5000
Huis	9000
Trinidad	2500

Trees & shrubs of Vallecitos

- 1 *Pinus lambertiana*
common on ridges of north
hillsides with firs but nowhere
forming forest of large size.
- 2 *P. quadrifolia*
a few seen on the desert
ridges at 1,000 ft. but all small
& on the desert slopes only.
- 3 *P. jeffreyi*
abundant & predominating
except on north hillsides.
- 4 *P. Murrayana*
Abundant in the valley, opening
about the margins; found also
in the cañons. Extends south to
within the ridges of La Gulla, but
seen on the ridges near desert or
away from the valley.
- 5 *Abies concolor*
Common on north hillsides &
on the ridges near the desert. However
grows in some places.
- 6 *Larix decurrens*
Seen only to the south of the
valley & on the desert slopes.
not in Vallecitos proper.
- 7 *Cupressus guadalupensis arizonica*
a few seen on the desert slopes.
- 8 *Juniperus*
One seen near camp.
- 9 *Opuntia*
a few seen near camp.
- 10 *Cercocarpus*
a few small bushes in places
near the camp.

- 11 *Salix* —
common along the creek, none
seen on two sides in distance.
- 12 *Populus tremuloides*
abundant in the valleys, growing
about the edges forming sparse,
foremost trees but 18 inches
diameter.
- 13 *Quercus chrysolepis* —
abundant on hillsides. Flowering
thicket & chaparral, seldom
growing in form of tree. Highest
ridges to cañons.
- 14 *Dr. gossia* —
a few seen but mostly bushes.
- 15 *Artemisia* — wood *Spiraea*
common along creek.
- 16 *Rhamnus frut.*
common along creek hillsides,
small & bushy.
- 17 *Ceanothus cordulatus*
abundant on hillsides.
- 18 *Arctostaphylos glauca*
abundant on hillsides.
- 19 *a. purpurea* —
not common.
- 20 *Symphoricarpos mollis* —
abundant about creek forming
small thickets.
or *Dracopis*? (*Amorpha*)
common on hillsides.

- Pitons but caught only *P. tex.* & *P. n. sp.*
- 14: Went down a bushy cañon & camped
a few miles below our last camp
in about the same kind of country.
Set about 35 traps & caught several
P. tex., *baileyi* & *Per. frut.* This is
evidently the upper limit of the last,
& perhaps the lower limit of the
first species. *P. tex.*, *baileyi* is found
the lower edge of the yellow pine, but
not found below. The pine is
more or less what San Mateo. *Perom.*
thunder is a yellow pine species, but
rare below that belt.
 - 15: Followed down the cañon to the
Guerra spring & camped. Shot a few
Mt. Quail here but set no traps.
Famias heard down nearly to Guerra.
 - 16: Made Trinidad at sunset.
 - 19: Left Trinidad for Alamo &
camped at Rancho Viejo about
15 miles N.E. of Alamo.
 - 27: Made a trip over the S. Catalina
Mts. to Agua Caliente on edge of
the Yuma Desert. In Agua Caliente
Cañon saw many Cal. Fan Palms
in groves chiefly high up in cañons
& near water; none seen below Indian
Settlement or below the water. They
ascend cañons to within 1000 ft. of the parat.

Mammals of Agave de los Resas

- 1 *Odocoileus hemi.*
Tracks not rare but none seen.
- 2 *Tamias ob.*
a few seen. One shot. not common.
- 3 *Spermophilus fisheri*
A few heard & one seen. Not common.
- 4 *Peromyscus tex.*
a few taken on hillside.
- 5 *P. thurberi*
a few taken but rare. Evidently the lower limit.
- 6 *P. n. sp.* (small ears but size of the body)
Abundant everywhere.
- 7 *Neotoma f.*
Two taken. Not common.
- 8 *M. uter.*
none seen but evidently not rare here.
- 9 *Microtus*
common on the swampy hillsides.
- 10 *Thomomys* ~~mont.~~
abundant. Two taken.
- 11 *Perognathus bairdi*
One taken. Rare. Abundant however in next canon about 1500 ft. lower.
- 12 *Lepus cir.*
Bills seen abundant in ~~the~~ brush above camp but ~~not~~ ~~above~~ ~~the~~ ~~brush~~ ~~to~~ ~~which~~ ~~they~~ ~~are~~ ~~evidently~~ ~~confined~~ ~~in~~ ~~the~~ ~~upper~~ ~~limit~~.
- 13 *Felis concolor*
a few tracks seen about the camp.
- 14 *Procyon*
a few tracks seen along the creek but evidently rare.
- 15 *Lorex*
One taken. Rare. St. Helix says he has taken them in his garden in Joruafo.
- 16 *Scapanus*
a few runways seen.
- 17 *S. protellii*
Several ~~seen~~ ~~in~~ ~~the~~ ~~upper~~ ~~limit~~. Common. Evidently the upper limit.
- 18 *Y. pedicularis*
a few seen. ~~Upper limit.~~
- Rep. d. f. d. Resas.*
- 19 *Uta stansburiana*
a few seen. Upper limit. Common in next canon below.
- 20 *U. g.*
One seen in canon but not seen.
- 21 *Sceloporus orcutti*
a few seen in cabs on hillside. Upper limit.
- 22 *S. biserialis*
a few seen in brush on hillside. Upper limit. Also seen above camp.
- 23 *Stenopus phil.*
a blue-tailed one seen in canon bed.

Birds of Agassiz Island Texas.

- 1 - Mr. Quail
a few seen on a flat above the camp.
- 2 - Mourning Dove
a few seen.
- 3 Turkey Vulture
a few seen
- 4? Pigeon Hawk -
one shot.
- 5 Red-tail
a few seen.
- 6 Horned Lark -
one shot, several heard,
- 7 Sabnis Woodpeck,
Common.
- 8 Red-bellied Sapsucker
one shot, not common.
- 9 Cal. Wood,
Tree with acorns stuck in bark
seen. No birds however observed
- 10 Red-sh. Flicker
a few heard
- 11 Anna Hummer
common
- 12 Bell. Jay
a few seen. One shot.
- 13 ~~Canada~~ Wren
a few seen.
- 14 ~~Ho. Wren~~
a few heard
- 15 Ark. Woodpecker
a few seen
- 16 Tur. Woodpecker
a few seen.
- 17 Ind. Sparrow
Common.
- 18 Chipping Sparrow
a few seen. One shot
- 19 Junco-town
a few seen. Evidently there
lower limit.
- 20 Song Sparrow
a few along the creek
one shot
- 21 Spurred Towhee
a few heard.
- 22 Ind. Warb.
a few seen.
- 23 Ark. Warb.
a few seen.
- 24 Long-t. Chantrelle
one shot. Evidently there
lower limit.
- 25 Pil. Warb.
Several seen.
- 26 ~~Ch. Wren~~
a few seen. One shot. Evidently near the
lower limit.

- 27 Vireo Wren.
One shot, several seen.
- 28 Slay. - bl. Smithcatcher -
a few seen.
- 29 Wh. Wp. Nuthatch
Several seen.
- 30 W. Chickadee
Common.
- 31 Wren - Tit,
Several seen & many heard. Their
upper limit.
- 32 Bush - Tit,
Tol. common, Upper limit.
- 33 Rub. cr. - Kinglet
Common.
- 34 Par. bl. - Thrush -
Common. Sev. shot.
- 35 S. P. Bluebird
Common in pairs.

Succession of Agave & other trees

- 1 - *Quercus grandifolia*
abundant on canyon sides -
- 2 - *S. jeffreyi*
a few in the canyon & north
slope.
- 3 *L. trichomanes*
abundant as com. as yellow pine in
the canyon. In fruit
- 4 *Yucca & arborescens*
Common on south hill sides
- 5 - Mesquite - Gum - Agave showi
Common on south slopes,
upper limit.
- 6 - *S. rigida* - few -
a few seen.
- 7 *Mammillaria*
Common in rocks.
- 8 *Salix* - tree
Common. Some trees, fr. through
upper limit.
- 9 - *Salix* - bushes in valleys,
upper limit.
- 10 *Populus fremontii*
a few small ones seen,
upper limit.
- 11 *Quercus chrysolepis*
Common. Trees 1 ft. diam., also ^{bushes}
- 12 *Q. dumosa* -
In mesquite below - abundant
- 13 *Q. grisea* -
Common in a few places.
all bushes.
- 14 arroyo-wood - a little seen in canyon

- 15 Rhamnus abundant,
- 16 Ceanothus cord. a few seen in cañon
- 17 Ceanothus greggii ^{richly leaved} abundant on hillside. Upper limit.
- 18 Ce. white-bark - Common on hillside. Upper limit.
- 19 Chamaecyparis - Common on hills, upper limit.
- 20 Red chamaecyparis - com. on hills, upper limit.
- 21 Arct. glauc. (glabrous) ^{abundant} above camp about 500 ft. lower limit.
- 21 Arct. (glauca leaved) common upper limit.
- 22 Symplocos - common in cañon.
- 23 Juniperus natchii abundant on hill.
- 24 Manzanita (Rhus ovalis) common, upper limit.
- 25 Escobito - common upper limit.
- 26 ~~Rhus~~ Rhamnus crocea ^{cliff} common up to limit.

- 27 Fouquieria - common, upper limit.
- 28 Sambucus glauca ~~One~~ One bush seen near camp.
- 29 Rosa - abundant in cañon below
- 30 Mt. Malvaceae Cercocarpus A few seen in cañon upper limit.
- 31 Clematis ab.

Yucca seen about Piton (2000 ft. below base)

- 1 - Prun. jef. low limit
- 2 - " grad. -
- 3 - Sage bush - upper limit.

Birds seen about Piton -

- 1 - Br. Towhee - a few, upper limit.
- 2 - Wm. Sparrow - a " " "
- 3 - Bell. Jay.
- 4 - Ind. Sparrow - ab.

Heterocentrus + Prun. villosifolia first seen a little above Pecos St.

about 3000 ft. alt. a few seen with
bunches of small black fruit. Many
have been cut for the edible cabbage
like heart of the crown. Ocotillo
seen high up a cañon & lower down
many depue & iron-wood seen
also gray mesquite & garrambina
Desert willow seen common on the
west side of pass near Bategui.

A few Piñon pines seen near the same
place. In Agua Caliente cañon a few
Antelope Squirrel seen. Mt. Sheep
or Ed. to be common on desert range
just west of the Cocapob. mts. Mule
Deer common & also a few Burro
Deer from the Colorado Riv. said to
occur especially on desert mts.
Antelope also occur.

Near S. Catalina Mission a Yucca
obscura seen in scrub oak also
many cogen tracks. North about
10 miles of the mission a grove of
yellow pine seen which is evidently
the nearest one north of San Pedro
Mts. Near Palms are said to
occur in Arroyo Grande a little
north of San Juan P. as; this is
their southern limit as the
Green Palm which begins at
Santa Maria Mts. is another species.

Nov. Spent six days trapping
at Barcho Viejo. Caught one
of the large-tailed Peromyscus. Per.
s. rubicollis abundant. A few P. f. f.

Peromyscus ~~obscura~~ *obscura* common at
S. Catalina. *Peromyscus* ~~obscura~~ *obscura* one taken.
Lepus arizonae common, several
taken. *S. rubicollis* rarer, one taken.
Specimens of *f. f.* evidently
mostly *luteus* only one taken &
no others seen. *S. ariz.* occurs also
in San Juan but do not think
it extends much farther south unless
the *S. Calabris* collection westward.
Instead of *S. rubicollis* as they
may have been by their size &
habits of living along ^{near} ~~near~~ bottom
in willows.

Nov. 1. Left Barcho Viejo about noon &
made Chincachada later at night. On
the way up saw the first yellow pine
at Marconi Ranch at about 4000 feet.

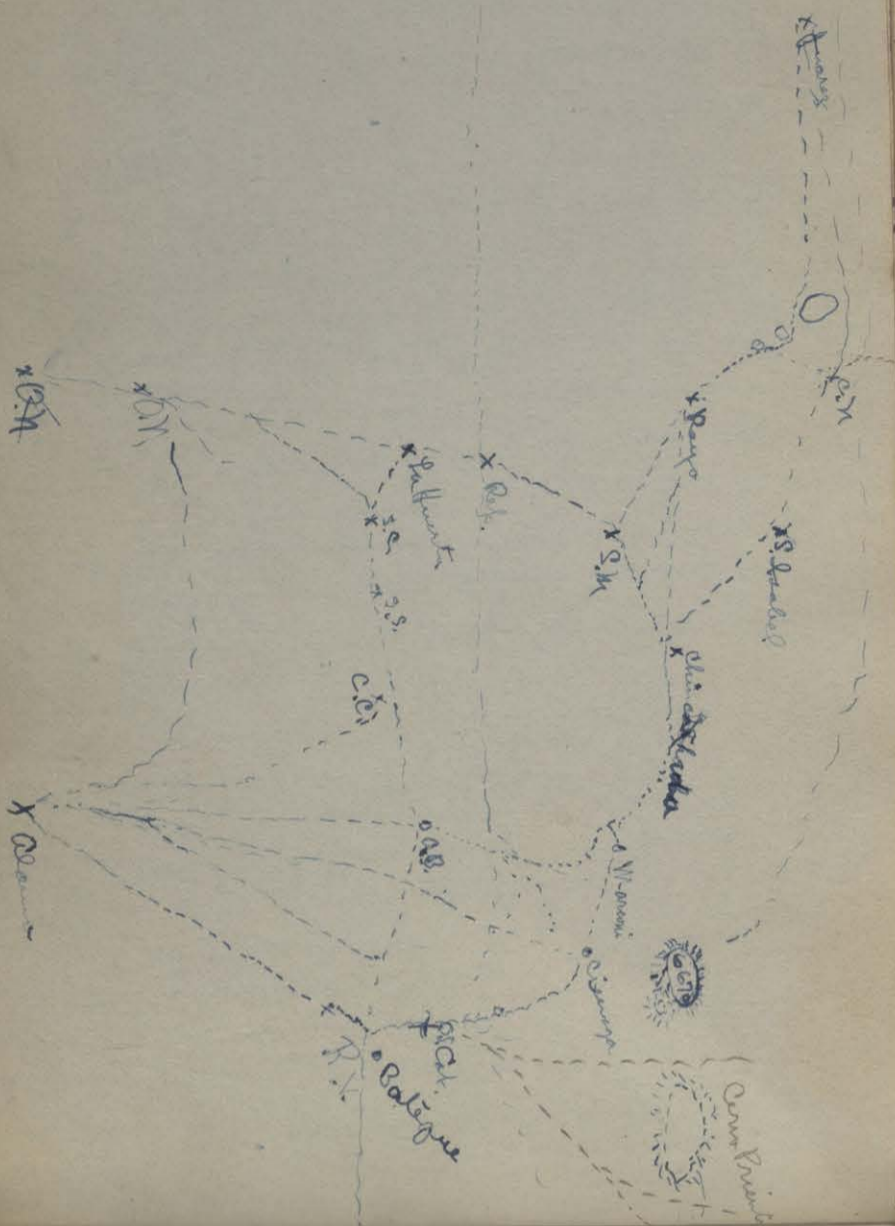
Dipodomys wislizenii & *D. duran* also common.
San Joaquin sage & much Chamisa Colorado & Chamisa
& Palo-armadillo.

Nov. 2. Made the saw mill. Traveled all day on
top of Mt. in yellow pine forest, a few *S.*
Chrysops seen, commonest oak *S. wislizenii*.
Several Coyote seen.

Nov. 3. Passed through El Paso & camped at the
Lagoon.

6: Left for the Bajada with the
Dr. but missed the trail & got only
as far as the Calabozo when we remained
one night.

15: Left for the Bajada again. Camped
the second night in the second
Palm grove at about 4000 feet.



Reptile of El Glavo

1. *Cnemidophorus maculatus* —
com in Glavo creek,
2. *Callisaurus draconoides* very common
several seen, not shot
3. *Uta stansburiana*
abundant everywhere
4. *Sceloporus biserialis*
abundant,
5. *S. orcutti* —
common,
6. *Phrynosoma hernandesi*
common
7. *Cnemidophorus steph.*
abundant
8. *Lichanura*
a few known
9. *Tamias popetio boylii*
common
10. *Dipsosaurus dorsalis*
sol, common
11. *Thamnophis hammondi*
common,
12. *Crotalus lucifer*
common, one taken, not
13. *C. mitch.*
less common than the last.

Mammals of Alamo

- 1 *Odocoileus hem.*
Not common.
- 2 *Tamias ob.*
One seen at S. Cal. mission.
- 3 *Spermophilus opus* *fortis*
Common
- 4 *S. l. panimulae*
Common.
- 5 *Per. tex. med.*
Abundant.
- 6 *S. + bobtail* -
One taken
- 7 *P. frut.*
Abundant.
- 8 *P. minimus* -
~~scarcely~~ occurs.
- 9 *Neot. fusc. mac.*
Common.
- 10 *N. intermedia*
Abundant.
- 11 *Thom.*
Abundant.
- 12 *Perodipus*
Abundant.
- 13 *Lepus arizonae*
Common.
- 14 *L. cinereus* - abundant
- 15 *L. calif.*
Abundant
- 16 *Felis concol.*
Common near San Pablo &
Canyon Holores.
- 17 *F. r. cal.*
Not seen in Alamo Canyon
- 18 *Canis*
Abundant
- 19 *Vulpes macrotis*
A few seen near Elpis negro
- 20 *Procyon*
A few seen in canyon
- 21 *Taxidea*
Rare - One seen
- 22 *Spilogale*
Probably occurs -
- 23 *Nyct. v. harr.*
One seen stuffed

Birds of a lawn

- 1 Kingbird
One seen.
- 2 Killdeer
abundant.
- 3 Mt. Parula
a few occur in cans.
- 4 Val. Parula
abundant
- 5 White Throat
~~to be~~ com.
- 6 Cal. Nuthatch
rare
- 7 Turkey Vulture
abundant
- 8 Marsh Hawk
One seen
- 9 ~~W. Goshawk~~ Zone-tailed Hawk
One taken
- 9a - ~~Harsh Hawk~~ - One seen at RV
- 10 Red-tail
common
- 11 Golden Eagle
One taken, ~~com~~
- 12 Horned Owl
common
- 13 Screech Owl
One taken, ~~traps~~ ~~traps~~ ~~traps~~
seen
- 14 Road Runner
common
- 15 ~~Indigo Bunting~~
a few seen
- 16 Cal. Woodpecker
common
- 17 Lewis Woodpecker
Two seen - One taken
- 18 R. - the Flicker
common
- 19 Ark. Woodpecker
abundant
- 20 Blk Phoebe
common
- 21 Horned Lark
abundant
- 22 Red Jay
common
- 23 Raven
com
- 24 Yel.-leg. Bl. bird
One taken by R
- 25 W. Meadowlark
com
- 26 Bull. Oriole
com
- 27 Green. Bl. bird
abundant
- 28 W. T. W. ch
abundant

- 29 Int Sparrow
com
- 30 Bell's Sp.,
com
- 31 Bron. Trobe
abundant
- 32 Cliff Swallow
abundant in houses
- 33 Phainopepla
com
- 34 Cal. Shrike
com
- 35 Am. Pipit.
com
- 36 Cal. Thrasher
rel. com
- 36 ~~Rock Wren~~
com
- 37 Cann Wren
com in canon
- 38 Rock Wren
com

- Trees & shrubs of canon
- 1 *Pinus quadrifolia*
rel. com but scattered
 - 2 *P. muricata*
near S. Antonio S. E. of Escondido
 - 3 *Yucca lubrica*
abundant
 - 4 *Yucca*
com
 - 5 *Populus fremontii*
abundant
 - 6 *Salix* - black
abundant
 - 7 *Quercus dumosa*
abundant
 - 8 *Q. agrifolia*
com
 - 9 *Rhamnus* *purshii*
com
 - 10 *Ceanothus*
com
 - 11 *Arctostaphylos* (open leaved)
abundant
 - 12 *A. glauca*
rare seen
 - 13 *Sarcocolla vesicaria*
abundant
 - 14 *Mesquit* (open)
abundant locally
 - 15 *Chenopodium*
com abund.
 - 16 *Chenopodium colorado*
com *sparsifolium*
Abbotson *maximiliani*
1896

- 17 Mangle *Rhus wata*
 Fre. com
- 18 Eridodendron
 com
- 19 Desert Willow
 com. near Batague
- 20 Palo amarillo - Holly
 Fre. com.
- 21 Mesquit
 com about R. V.
- 22 Junipers cal.
 abundant everywhere
- 23 Soap bushes -
 abundant
- 24 Cauntilla
 abundant
- 25 Psatamote
 common on rocks

got a lot of small trees - some
 several *Trichostema* *Peruvia*
eremicus & *P. martirensis*, & *Neotoma*
fusca. This is evidently the
 lower limit of the latter two
 species. One *Perognathus* taken.
 Met a man (Sesenda) who said
Vulpes, & *Procyon* & *Tamias*
 occurred above farther down
 at the Palomar Prius
 monophylla was common here
 but the other pine (*P. quadrata*)
 was not seen much below
 the Calabozo. The pine
 extended only a little farther
 down. Honey Squirrels Mangle
 & scrub oak were abundant.
 The green - fan palm & the
 gray palm were common.
Cholla & *scotilla* were seen
 the latter only below camp.
 Cut-claw, mesquite & *Acacia*
chimo were common. A bush
 with whitish feathery *Parlat* seed
 was common.

17: Camped at *Agua Escaldada* ^{4500 ft.}
 at the top of the grade & above the
 palm belt. Here *Yuccas*
 were

Cholla + mesquite + acacia
 were common. Caught one red one
 brown, many *Peromyscus* (black)
 one *Perodipus* & two *Perognathus*
 the latter one taken below this is
 the lower limit of the thin forest
 species. One *Dipodomys*
 & a *Hesperomys* & *Tamias*
 seen by the Mr. also deer,
 Caught one *Spermophilus leucurus*
 which is rather high up. Got 4
 W.M. my does which form pins
 common. *Perispermophylla* common
 a few *S. jifferyi* also occur but
 go no lower

18. Spent one night at the lower
 part of the Calabozo but caught
 only one *Corynorhinus* & a *Peromyscus*.
 A few *Tamias* seen, also some
 corn. The latter may be the
 Colorado form as the drawings
 is that way. Only a few *Yucca*
 seen here & the yellow pine
 is common. Saw one *Tamias*
 the *S. jifferyi* appears only
 at this place.

Peromyscus of California
Dipodomys here
 Common. Thin bark about
 the large with 12 points, very fat
 evidently summer season just begun
 the forked horn bark about which
 had been many some times. Said
 to remain in the burrow all winter
 No. All up there. These are taken
 a small & a large variety. No
 dorsal stripes on tail, other one
 white tail.

2. *Spermophilus grammurus*
 Common. Several taken

3. *S. leucurus*
 Taken only at Agua Escondida
 where they were common. Apparently
 limited to Mesquite territory. On
 coast slope not noted above Agua
 Blanca.

4. *Tamias obscurus*
 Common but shy. Found both
 slopes to 3000 ft., apparently do not
 hibernate as no fat found on them.

5. *Peromyscus* *leucurus*
 abundant. Found outside
 of pines.

6. *P. macrourus*
 abundant. Found as low as
 Palomares a desert slope at edge of
Perispermophylla.

7 P. tex. gambeli
Common about the Laguna

8 P. tex. pictus
One taken on the Calabozo.

9 Neotoma inter
Common about Laguna, Evidently
not on desert slopes

10 H. fuscipes
Abundant; extending to
Paloma on desert slope.

11 N. director canis
extend to low edge of P. in belt
at Agua Escondida.

12 Microtus
Evidently occur about wettest
swamps but no signs seen about
Lagunas which are too dry.

13 Perodipus ag.
Taken at Agua Escondida only.
Signs seen about Chinochada in
the pines.

14 Perognathus baileyi
Common about Lagunas but
not seen elsewhere.

15 P.
Taken a desert slope at
Paloma at Agua Escondida
but no higher.

16 Thomomys mont.
Abundant everywhere.

17 Lepus arizonae
One seen at A. Escondida
then eastern limit. Said by Mr.
all to occur generally.

18 L. calif.
Said to occur by Mr. Allsup

19 L. calif.
One seen near Campodotal
at Agua Escondida. Signs not
rare about Lagunas but individuals
one seen at El Pango

20 Felis concolor
A few tracks seen near the
Calabozo. Said to be common.

21 F. calif.
Common. Several seen. One taken.

22 canis
Abundant. Blacker than those
on the Alamo Plain.

23 Urocyon
One taken by Mr. Allsup at Agua Escondida.
This is the first record. None. No tracks seen
anywhere.

24 Procyon

25 Tracks seen on the Bambon
creek & also at the Calabozo.
Perhaps the Colorado form occurs
at the latter place & the course
on the west slope.

26 The photos

Said to be the common at
the Baquialago.

27 Scorpions

A few signs seen. Several found
at the Lagunas & also surface
mounds.

28 Pipistrellus

a small bat seen at the Laguna
Repleta of the Laguna

1 Uta stansburiana

Several seen, common

2 Sceloporus biserialis

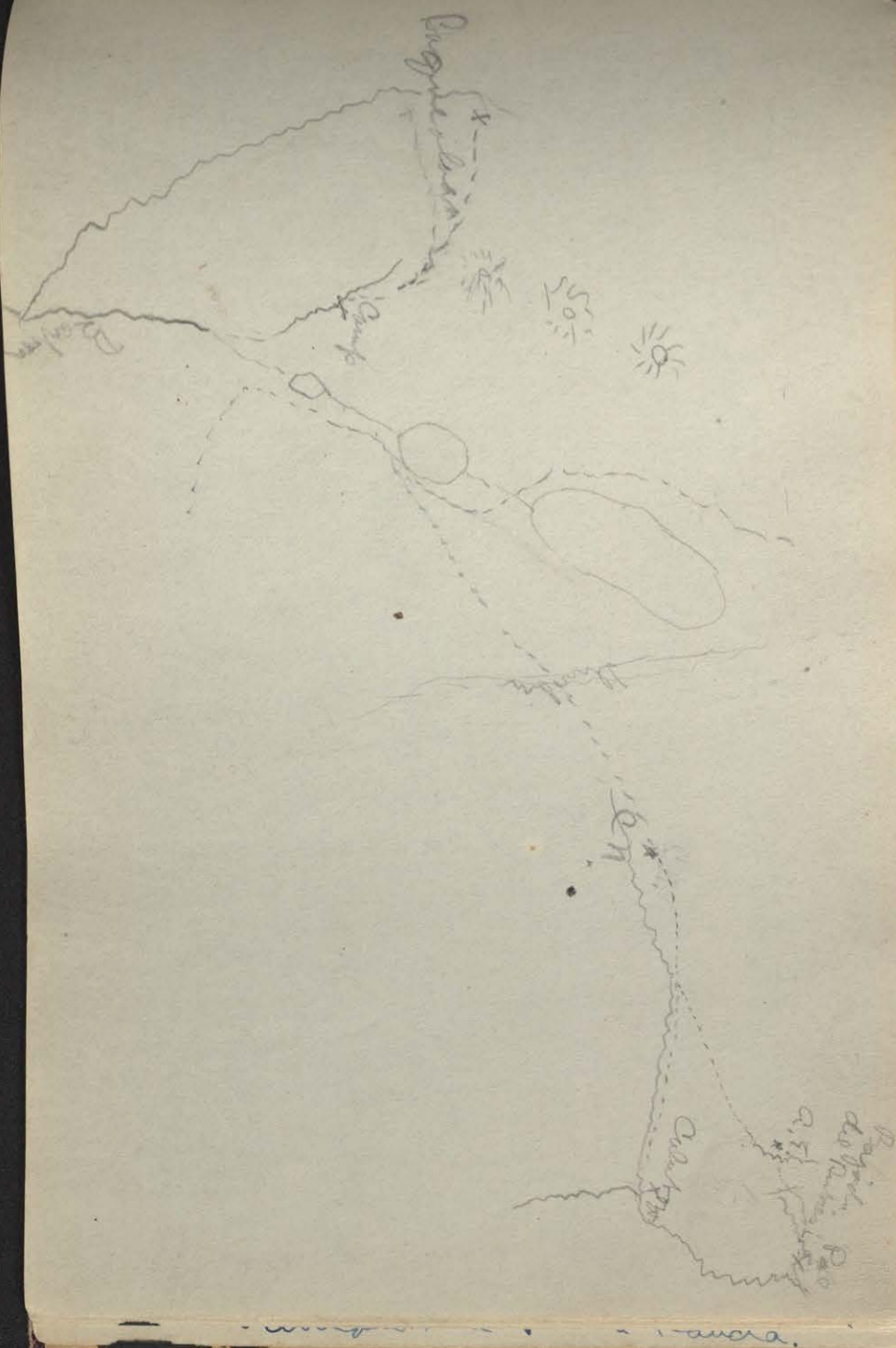
Common

3 Thamnophis hammondi

Said to occur

4 Crocodylus lunifer

Said to occur



Parts of H. Lagoon

- 1 Mallard
a few seen, two shot
- 2 ~~White-headed~~ Redpoll
Several flocks seen
- 3 Pintail
abundant, taken
- 4 Spoon-bill
Common
- 5 Kingbird
Several seen
- 6 Sharp-shin
Common
- 7 Ruffe Gull
a few seen
- 8 Gull
Common
- 9 Killdeer
abundant
- 10 Yellow-bill
One seen
- 11 Mt. Partridge
Several flocks seen, One at
Palomar also
- 12 Valley Partridge
abundant, seen as far
east as Laguna Seca
- 13 Turtle Dove
a few seen
- 14 Wh.-wing Dove
Common at Laguna Seca
- 15 Calif. Quail
One seen at Laguna & also
at Calabozo
- 16 Turkey Vulture
Common
- 17 Harris Hawk
Several seen, One shot
- 18 Sharp-shin Hawk
Common
- 19 Red-tail
Common
- 20 Sparrow Hawk
a few seen
- 21 Golden Eagle
Several seen
- 22 Horned Lark
Heard every evening
- 23 California Woodpecker
Several seen
- 24 Calif. Woodpecker
abundant
- 25 Red-sh. Flicker
Common
- 26 Red Phoebe
a few seen
- 27 House Wren
Several flocks seen
- 28 Bell. Jay
Common

- 29 Raven
Common
- 30 Bryn. Blackbird
Common
- 31 Meadowlark
Several seen
- 32 Purple Finch
A few heard
- 33 Int. Sparrow
Common
- 34 Am. Pipit
Common
- 35 Cal. Thrasher
A few seen at Ag. Encinitas
- 36 Sparrow Dove
One seen at Calabozo
- 37 Cañon Wren
Tot. common
- 38 W. mp. Nuthatch
Common
- 39 Slender-b. Nuthatch
A few seen
- 40 Bluebird
Tot. common
- 41 Townsend's Solitaire
One seen
- 42 Junco
abundant.
- 43 ~~Wren-tit~~
Common
- 44 Mt. Chickadee
Common, seen also at Palom
in western specimens.
- 45 Wren-tit
Common
- 46 Bush-tit
Common
- 47 Blue Jay
abundant
- 48 Ark. Goldfinch
Common
- 49 Ruby-cr. Kinglet
Common
- 50 Song Sparrow
a few seen at Calabozo.

Trees & Shrubs of N. Laguna

- 1 Pinus jeffreyi
abundant everywhere
above 4000 ft.
- 2 P. coulteri
a few seen in the Baguealaga
- 3 P. quadrifolia
Common at edge of yellow
pine on both slopes. On desert
side seen as far as Calabozo
- 4 P. monophylla
abundant on desert slope to
Calabozo; seen as low as Paloman
- 5 Libocedrus
a few occur.
- 6 Juniperus
Common on west slope to
4000 ft.
- 7 Populus fremontii
Common in streams
- 8 Salix villosa
abundant
- 9 Quercus wislyzenii
Common forming trees lower
- 10 Q. chrysolepis
a few trees seen, many bushes
- 11 Q. dumosa
a grassy form common on slope
- 12 Q. agrifolia
a few seen at Baguealaga
- 13 Q. grisea
Common
- 14 Calif. Fan Palm *Wendlandia fil. parviflora*
Common at Paloman
- 15 Gray Palm
Common at Paloman
- 16 Yucca urenata
Common as high as Calabozo,
also on west slope
- 17 Tongue-leaved Yucca
Common at Paloman
- 18 Green Mesquite
Common at A. Escudito &
as high as Calabozo
- 19 Gray Mesquite
Not seen above Paloman below
the pine belt.
- 20 Castilleja - seen below Paloman
- 21 Cholla
Common up to A. Escudito
- 22 Yucca
Seen scattered in pines.
- 23 Casahuate
Abundant in pines
- 24 Flowering cherry
Common at A. Escudito &
Paloman

- 25 Feather, bush - *Croocarpus*
Common at Calabozo & Palomar
- 26 Spiny leaved *Ceanothus* *C. gorgi*
Common on low slopes both
sides.
- 27 Wh. - bark *Ceanothus*
Fr. common,
- 28 Blk, drams
Abundant,
- 29 Red *Chamaecrista*
abundant
- 30 Mesquite
fr. seen as high as A, Escobedo
- 31 Cat-claw
Common at A, Escobedo
- 32 Palo china
Common as high as A, Escobedo
- 33 Rom oak,
Common at Calabozo
- 34 Md. jays
Common, seen as low as *Maricao*
- 35 Jays bush
abundant everywhere
- 36 Palo amarillo (holly)
abundant both slopes.
- 37 Poison oak
Common at Calabozo & Palomar

- 38 *Mimosa*
Common at Palomar & also
near ~~Calabozo~~
- 39 *Cassipouira*
Common at A, Escobedo
- 40 Gum. tree
Common at Palomar
- 41 *Arctostaphylos glauca*
Common
- 42 A. (green - *Laurel*)
Common
- 43 *Garrya*
Common to desert slope
- 44 *Eridictyon*
Abundant, everywhere
- 45 *Gratiola*
Seen at Palomar
- 46 *Sambucus glauca*
Seen at Calabozo
- 47 *Lonicera*
Seen at Calabozo
- 48 *Shumac* City bush
Common at A, Escobedo &
Palomar
- 49 ~~Shumac~~ *Rhus laurina*
Seen at Palomar

Nov 19: Began snowing & continued to 29th.

22: Broke camp & went to El Paso

23: Left El Paso & arrived at Ojos Negros at dark.

24: Took a trip with the Dr. to Marconi's ranch near the Real. Saw several *Lepus calif.*, *S. calif.*, saw one *Sperm. leucurus* which species does not hibernates at all evidently. Coons, *Corylus*, *Spilozoa*, *Neophila*, *Vulpes*, & Badger, said to occur.

25: Went to Ensenada on a freight wagon. Saw many bushes in the hills like *Rhamnus*, color, but with wider leaves & blk berries like *Myrica* & red shreddy bark. *Buckeyes* & *Shrubs* abundant. Bushes with pitted seeds & also some with maple like seeds seen. *Thorny cherry* abundant.

- Alouatta leucurus*
Rather uncommon near the valley.
- 2 *Antilocapra americana*
Formerly they came into the valley but now they do not come much beyond the crest of San Mateo Pass.
- 3 *Spermophilus leuc. peninsulae*
Abundant. Perhaps intermediate at the eastern part of San Mateo Pass.
- 4 *S. tereticaudus*
Heard in eastern part of S. Mateo Pass but only ~~one~~ seen.
- 5 *S. g. fisheri*
Common in the juniper thickets at the lower part of the valley.
- 6 *Peromyscus Tex. medius*
Abundant.
- 7 *P. insignis*
Tolerably common.
- 8 *P. fraternulus*
Abundant & approached
- 9 - *P. eremicus* at eastern side of S. Mateo Pass.
- 10 *P.* (bob-tail)
Rare - One taken
- 11 *Reithrodontomys longicaudus*
One taken
- 12 *Neotoma fusc. mac*
Common in willows & brushy canyon.

- 13 *H. intermedius*
Abundant.
- 14 *Thomomys fulvus* ♀
Abundant everywhere.
- 15 *Perodipus agilis*?
Abundant everywhere as far
east as S. Matias Spr.
- 16 *Perognathus parvulus*?
Rather rare.
- 17 *P. spiratus*
Com. at S. Matias Spr.
- 18 *P. femoralis*
Com. at S. Matias Spr.
- 19 *Lepus auduboni*
A not rare in lower part of
the valley in the juniper country
- 20 *L. cinereus*
Common almost everywhere,
Becoming grayer toward the
S. Matias Pass.
- 21 *L. calif. (a. nortoni)*
Abundant everywhere.
- 22 *Felis concolor*
Occasionally occurs. Tracks
seen in upper part of cañon below.

- 23 *Lepus ssp. calif.*
Rather rare.
- 24 *Vulpes macrotis*
Common formerly & several
colonies are still in the valley.
- 25 *Canis* —
Abundant everywhere.
- 26 *Mephitis*
Said to occur rarely.
- 27 *Spilogale*
Said to occur occasionally.
Taken at Protero near northern edge of
valley.
- 28 *Taxidea*
Said to have been taken
occasionally.
- 29 *Putorius*
Said to occur rarely (Campbell)
- 30 *Procyon*
Has been taken at Jorunco.
- 31 *Lorex*
Said to occur at Jorunco.
- 32 *Scapanus*
Taken often at Jorunco. No
signs seen in the valley.
- 33 *Pipistrellus hesperus*
Taken at S. Matias & seen often
at Trinidad.

34 *Resortilio* ferns
Seen at Trinidad.

Trees & shrubs of Trinidad Valley

1 *Juniperus calif.* -
Abundant on the flat western
side of the valley & also on the
hills ~~surrounding~~ ^{bordering} the ~~lower~~
part.

2 *Salix* -
Common along the streams

3 *Populus fremontii* -
Common in the arroyos.

4 *Quercus dumosa* -
Common in the hills.

5 *Pinus monophylla*
Abundant about San Matias
Spring & also near Proteron ^{San Matias}

6 *P. quadrifolia*
Seen about Hueco Spr. & upper
part of Cañon Ancho Leon.

7 *Yucca mohav.*
Abundant extending east to edge
of desert.

8 Green Mesquit -
Abundant about trail to Jimico

9 Gray Mesquit
Begins about 12 miles east of Trinidad
in ~~the~~ pass & on east slope. Grows
thick beds.

Abundant especially in S. Mat. Pass.

11 *Ilex Cholla*
Abundant on east side of valley

12 Mesquite
Abundant but scattered,

13 *Candutilla*
Abundant

14 *Cresote*
Abundant in eastern part of valley.

15 *Acotillo*
A few occur at mouth of Cañon Leon (Alf.)

16 Elder -
Com. in cañons.

17 *Sycamore*
A few in cañons

18 *Gustanutz*
Com. in cañons

19 *Palochino*
Abundant near Apache Spr.

20 *Jajoba*
Com near Wag. grade.

21 *Cheriso* -
Ab. on hills

22 *Cheriso col.*
Com. on hills

23 *Quercus agrifolia*
Com in a few cañons.

24 *Cherry*
A few on Wag. grade.

- 25 Mangifera
Com. on mag. grade.
- 26 Eriodactylon
Ab.
- 27 Scaevola
ab. in east. part of valley.
- 28-29 *Arctostaphylos* (green & gray)
Com. in hills.
- 30 *Ceanothus* - (white bark)
a few seen on mag. grade
- 31 *C.* (dentate leaves)
Com. on hills

- 18 *Uta* *macrura* -
near S. Mat. Sp. at head of Cañon Viejo.
- 17 *Uta* *pyrrhina*
in willow at S. Mat. Sp.
- 16 *Xantusia* *virgata*
Com. near S. Mat. Sp.
- 15 *Selodon* *granulosa*
One taken at S. Mat. Sp.

Reptiles of Trinidad,

- 1 *Uta* *stansburiana*
Ab. everywhere + remains on
all. white
- 2 *Selodon* *orealis*
Com. on nests & especially in
boulders & juniper thickets
- 3 *S.* *biseriatus* -
Abundant everywhere
- 4 *Cnemidophorus* *stephens*
Abundant everywhere
- 5 *Phrynosoma* *blanckii*
Com.
- 6 *Callisaurus* -
Com. in eastern part of valley & S. Mat. Sp.
- 7 *Anniella* -
Yellow taken
- 8 *Cnemidophorus* *stephens* *abund*
~~*Cnemidophorus* *maximiliana*~~
abundant in the ponds.
- 9 *Lampropeltis* *boylei*
Com.
- 10 *Pituophis* *calamita*
Com. one taken.
- 11 *Thamnophis* *hammondi*
One seen. Com.
- 12 *Crotalus* *ruber*
Common rather.
- 13 *C.* *mitchelli*
Not rare. Taken at S. Mat. Sp.
- 14 *Bascaris* *venusta*
One taken at S. Mat. Sp. com.

Mammals of Ensenada

- 1 *Odocoileus hemionus*,
Rather rare. Resident in hills.
- 2 *Spermophilus* sp. *fisheri*
abundant
- 3 *Peromyscus maniculatus*
Tolerably com.
- 4 *P. l. medius*
abundant,
- 5 *P. fraterculus*
com.
- 6 *Neotoma fusc. mac.*
fol. com.
- 7 *N. intermedia*
abundant
- 8 ~~*Reithrodontomys*~~
fol. com.
- 9 *Thomomys fulvus*
abundant
- 10 *Perodipus agilis?*
abund.
- 11 *Perognathus fallax*
fol. com.
- 11a ~~*S. petillata*~~ com.
- 12 *Lepus cinereus* Punta Banda
abundant
- 13 *L. auduboni*
fol. com.
- 14 *L. calif.*
fol. com.
- 15 ^{Syn} *Felis ruf. cal.*
One taken at hotel. Rather rare
- 16 *Canis*
Common.
- 17 *Urocyon*
~~25~~ ^{or tracks seen} ~~of tracks seen~~ taken at San Antonio.
foxes headed *majorinus*, P.B.
- 18 *Mephitis*
Said to occur
- 19 *Procyon*
com.
- 20 *Scapanus*
Said to occur at Punta Banda.
- 21 *Felis concolor*
One or two killed each year
on Nordhoff's ranch.
- 22 *Spilogale*
Said to be common on
Nordhoff's Ranch.
- 23 ~~*Nyctinomys*~~ *leuc.*?
One taken in the *Sturbridge* on
Dec. 10 - '02.
- 24 *Taxidea*
Said to occur near mouth of
San Tomas Riv.
- 25 *Tatax luteus* - Punta Banda
- 26 *Zalophus calif.* - " " com.
- 27 *Phoca vitulina* - ab.

Fresh Shrubs of Esmeralda

- 1 *Pinus muricata* (attenuata)?
Abundant on north slope of the highest hills & mountains east & north. Small not over 6 in in diam.
 - 2 *Quercus agrifolia* ~~arizonica~~
Abundant in some situations as the pine, & usually of smaller size.
 - 3 *Quercus dumosa* *palmeri*
Common.
 - 4 *Q. agrifolia*
Common
 - 5 *Populus fremontii*
Abund. in canyons
 - 6 *Sycamore*
Com.
 - 7 *Salix*
Abundant.
 - 8 *Buckeye*
Abundant
 - 9 *Shumac* - *Rhus*
Common.
 - 10 Elder
Abundant.
 - 11 Cherry
Com.
 - 12 *Chry.* "berry" (*Joyon*) *Nollan*
Common
 - 13 *Chenise*
Abund.
-
- 14 *Mangrove* (*Grass*)
Com.
 - 15 *Man.* (Blue)
Com.
 - 16 *Euphorbia*
Abundant.
 - 17 *Fusel tree*
Com.
 - 18 *Blk. berried chenise*
Abundant
 - 19 *Ceanothus* (*Trees*)
Common.
 - 20 *Pitaypha*
Com. on coast. Probably the northern limit.
 - 21 *Opuntia* (*Stema*)
Common
 - 22 *Cholla* (green, ~~small~~ *spined*)
Com.
 - 23 *Mangl?* (*Plus*)
Com.
 - 24 *Guatando*
Com.
 - 25 *Yerba santa* (*large bushes*)
Com.
 - 26 *Mescal* (*Agave showi*)
abundant at Punta Banda
 - 27 - *Jojoba*
abundant near Punta Banda.

Wasser - Wasser

Parasiten - Parasiten

Blut - Blut

Reinigung - Reinigung

See - See

Blut - Blut

Blut - Blut

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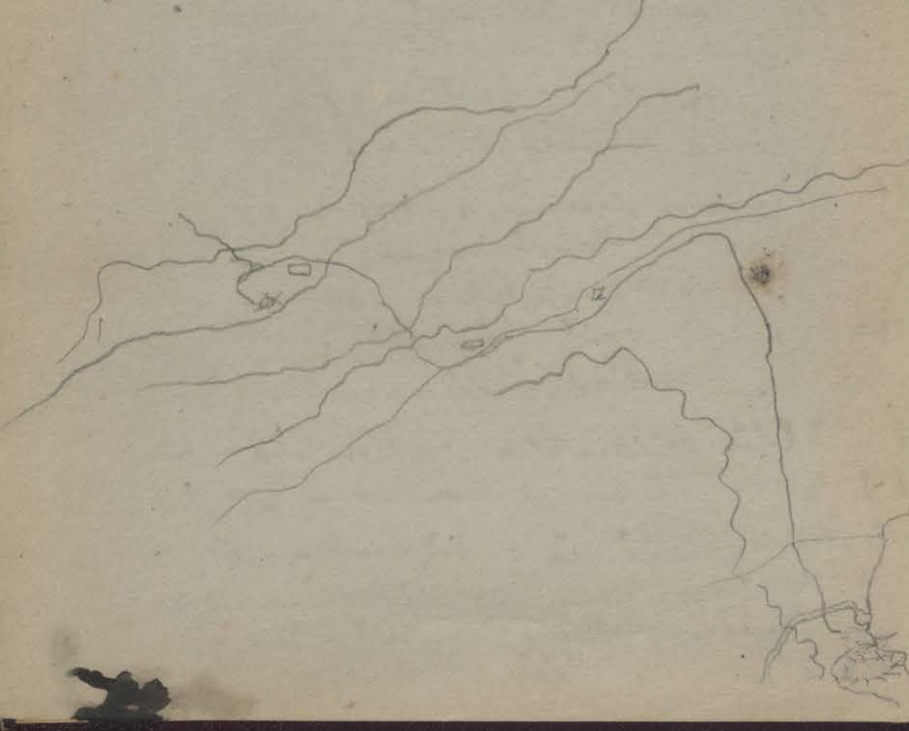
Blut - Blut

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Blut - Blut

- 22 *Glypta forficaria* - 78
- 23 *Erpiga gyligera* - 79
- 24 *Pachynema callosa* - 81
- 25 "
- 26 *Ceridium lanatum* - 81
- 27 *Pala chlora* - 82
- 28 *Chrysobothris californica* - 82
- 29 *Monobotrya californica* - 82
- 30 *Pala microgaster*
- 31 *Rhynchonota* - 95
- 32 " *pubescens* - 96
- 33 *Carya floridana* - 97
- 34 " *pubescens* - 97
- 35 *Chrysobothris fulvipes* - 97
- 36 *Rhynchonota munda* - 98

white - larvae
 black - pupae, pupae
 brown - larvae, pupae
 grey - pupae
 yellow - antennae
 feet - colorless
 joints - orange - a (reddish)
 head - orange
 legs - orange
 green - pupae
 pupae = pupae, pupae
 pupae = pupae
 pupae = pupae



- 21 *Panicum virgatum* - 78
 20 *Hordeum jubatum* - 74
 19 *Carex lasiocarpa* - 69
 18 *Yucca elata* - 69
 17 *Panicum trichoides* - 68
 16 *Setaria verticillata* - 62
 15 " *virgata* - 56
 14 " *capitata* - 55
 13 " *diversiflora* - 55
 12 " *diversiflora* - 53
 11 *Aster dumosus* - 54
 10 *Aster dumosus* - 49
 9 " *laevis* - 47
 8 *Panicum trichoides* - 45
 7 " *virgatum* - 44
 6 " *virgatum* - 44
 5 *Setaria verticillata* - 43
~~5 *Panicum trichoides* - 43~~
 4 *Panicum trichoides* - 36
 3 *Stachys decumbens* - 29
 2 " *virgata* - 18
 1 *Panicum trichoides* - 14
 14 *Panicum*
- Trees of Lower Calif.
 St. George's Park, Santa Fe, Col.
 D. *californicum*
 San Bonito Co. Cal. (Argentine Range)
 D. *arborescens* - 42
 D. *californicum* - 41

Panicum trichoides

