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New Mexico & Arizona 1958 Field Notes

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1
June 12 On route to Arizona-drove
as far as Tulsa Oklahoma where
night was spent on east edge of
Town

June 13 Drove as far as Cuervo New
Mexico where 40 Museum specials
were set on rocky desert Juniper
area 2 mi. WSW of Town. One
Peromyscus Truei caught in evening.
Weather was cool with moderate wind
and scattered thundershowers.

June 14 Traps set on June 13 were
pulled, catch was 2 *Peromyscus Truei*,
2 *Peromyscus maniculatus* & 1 *Peromyscus*
which Dr. Hoeffmeister thought to be *boylei*.
1 *Lepus californicus* was sighted & 1
Sylvilagus was observed feeding on
short grass, daisy like desert flowers.

Drove to Willcox Arizona where 1
gopher set was made 6.5 mi N of Town
and 35 Museum specials were set 9.5
mi. SE of Town - weather - Moderate
breeze, Hot, and clear

June 15 Traps from June 14 were pulled.
Specials yielded 1 *Perognathus*, 2 *Onychomys*,
1 *P. maniculatus* and 1 *Dipodomys Merriami*.

gopher set yielded 1 *Thomomys bottae*.
 5 more gopher sets were made were
 made in this irrigation area 6.5 mi
 N of Willcox with 1 more *T. bottae*
 caught. Gophers appeared to be very scarce
 in this area only occurring along irri-
 gation projects. Several *Lepus californicus*
 were sighted immediately N of town.
 Traps were pulled and then drove to
 Tucson. 3 rat & 4 gopher sets were made
 in immediate vicinity of Fort Lowell
 on East edge of Tucson - weather was
 hot & partly cloudy.

June 16 Traps were pulled and catch
 was two *Thomomys bottae*. The 3 rat
 traps which were set for *Sigmodon*
 yielded nothing. Little if any cotton
 rat sign was sighted in this
 area. Rest of day was spent
 attending mammal meetings.

June 17 Day was spent attending
 mammal meetings.

June 18 Attended mammal meetings
 in morning. In afternoon drove to
 Saguaro National Monument, Pima Co where
 5 museum specials & 1 rat trap were set near

E Boundary. 24 Museum specials + 3 rat traps were then set on W Boundary of Saguero Monument. Much wood rat sign was noted here + 1 cottontail was sighted. Then drove to Colossal cave where 9 museum specials were set 8 mi S of cave along Rocky Banks of Dry creek. In evening went to Colossal cave where large numbers of *Myotis velifer* + *Leptonycteris* were seen. Nursery colonies of 100⁺ - *Myotis velifer* imm. were observed within 1 ft. radius circle. Bats were using Abandoned mine shaft approx 75 yds E of comerial cave entrance.

June 19 Traps were pulled + yielded.

9 - Museum specials → 3 *Perognathus intermedius*, 1 *Neotoma albigula* - 2 cottontails were sighted here, probably desert cottontails (*Perognathus* ^{seen abundant} here)

24 specials + 3 rat traps → 2 *Dipodomys merriami*, 1 *Neotoma albigula*, 1 *Perognathus amplus*, 2 *Perognathus* which was either (*baileyi* or *intermedius*) + 1 *Citellus ~~richardsoni~~ harrisi* - One cottontail probably Desert was sighted here also. This area was extremely dry with gently rolling hills, The wood rats had large piles of *Dorbis* piled in the prickley pear throughout the area.

5 specials + 1 rat trap → nothing

4
Then drove to Pava Blanca springs, where
30 *Mus* specials + 4 rat traps were set 2 1/2 mi. NE
Pajarito PK. on grassy side slopes. Some cotton
rat sign was noted + attempt was made
to catch some. Cottontails were sighted here.
15 *Mus* specials were set on side of
steep rocky slope immediately E. of forest
camp about 1/4 mi. S of lake. In evening
one *Eptesicus* was shot on camp grounds. late
at night Bats seemed very numerous flying
around camp grounds. Skunk (striped) shot at camp
June 20 Traps were checked but not pulled.

group collected
3 *Tadarida*
in cave on
SE side of
castle rock
Pava Blanca
spring - Large
amounts of
droppings here
+ Owl pellets
Numerous

20 specials + 4 rat → 1 *Peromyscus pectoralis* + 1
Reithrodontomys - 15 specials → 1 *Peromyscus pectoralis*
+ 2 *Neotoma*. Rained heavily during day + all
traps were rebaited but left at same sets
in late afternoon. Attempt was made to
shoot bats at forest camp in evening but
only 1 was sighted + none were shot

June 21 Traps were checked but not pulled
30 specials + 4 rat → 1 *Sigmodon ochrogastros*
15 specials → 1 *Peromyscus pectoralis*. Drove to
Nogales during mid day + ~~at~~ group collected
6 *Antrozous* all nursing young under Memorial
Stadium. light rain showers throughout day +
traps were again checked + rebaited. In evening

approx 20
bats sighted

drove to small Pond 1/2 mi. w Pena Blanca spring where I shot 1 Pipistrel (67) group collected Total of 4. BAT net was set up. Bat yielded none

June 22 Traps were checked + pulled 30 specials + 4 rat → 1 Peromyscus pectoralis + 1 Reithrodontomys. 18 specials → nothing. BAT net was taken down but yielded nothing. Pocket gophers traps were set on rocky bluff directly w. of camp but yielded nothing

General notes on Pena Blanca area → pocket gophers living on bluff w. of camp were in soil which was better than 50% rock + seemed to be living near top of bluff rather than at base. Sigmoidon were living on grassy side slopes 2 1/2 mi N.E. Pajarito Pk. Here they were quite scattered with runs through grass, ^{but were not very abundant} woodrats + cottontails were also present here, mice at this location seemed quite scarce. Bats seemed quite common throughout Pena Blanca area; Broke camp in early afternoon + drove to Twin Buttes + Helma mountain where mine shafts were checked for bats but none were sighted although droppings from bats were quite abundant. Drove to 12 mi. ENE Sells, Pima Co where 49 Museum specials + 4 rat traps were set. Cottontail + Antelope Jackrabbits were

sighted here. Gopher mounds seemed quite abundant in this desert area. but didn't trap for any

June 23 Traps were pulled + yielded - 2 ⁽⁶⁸⁾ Neotoma 3 Perognathus, 3 ⁽⁶⁹⁾ Onychomys + 1 Dipodomys Merriami. Then drove to 9 mi. E, 1 mi. S. To Pawa, Pima Co. where

only 3-4 bats sighted in Allison mine but droppings were quite abundant

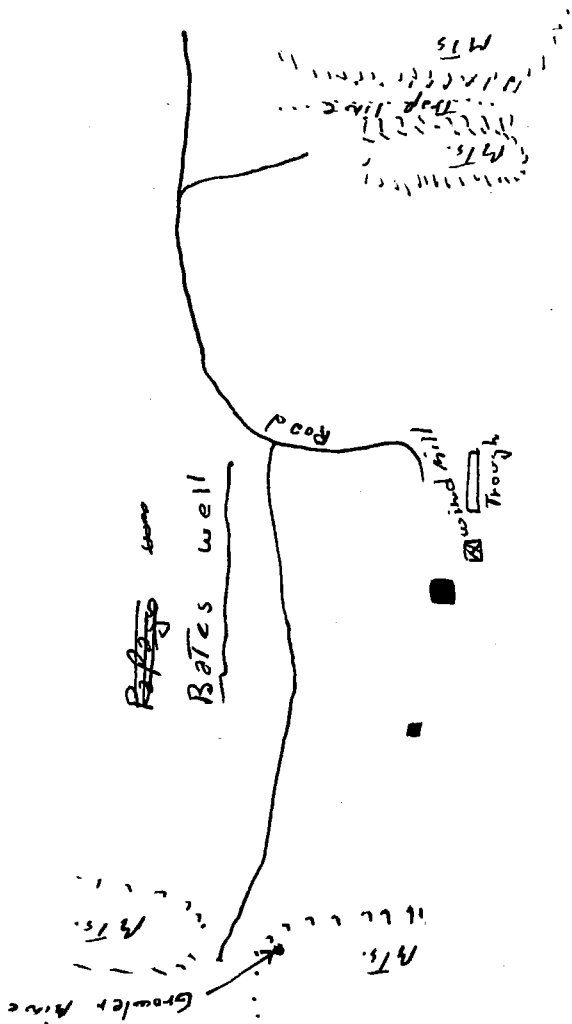
camp was made at abandoned Allison camp. Several rock ~~squirrels~~ ^{squirrels} squirrels were sighted + were apparently living in one of the buildings.

In early afternoon group went to Allison mine where 1 ⁽⁷²⁾ Corynorhinus was collected, 18 Museum specials + 4 rat traps were set on rocky grass slope above mine with hopes of catching Sigmodon but no sign was sighted. returned to camp where 20 Museum specials + 2 steel traps were set on rocky slopes with little vegetation other than brush. In evening went to vesidua where Dr. Hoer + McCister shot Pipistral + (2 Tadartida + 1 Eptesicus) were collected in net along top of dam. Bats seemed very numerous here a weather hot + clear

June 24 Traps were checked + those above Allison mine were pulled. 18 specials + 4 rat → 1 immature ⁽⁷¹⁾ Peromyscus + 20 specials + 2 steel → 1 ⁽⁷⁰⁾ Peromyscus. These traps were reset + left in same location. Drove to 28 mi. SW Casa Grande Pinal Co. where mine shafts were examined for

Bats. Large numbers of ^{(Nursing) (75-76)} Leptonycteris & ^{(Nursing) (77-78-79)} MacroTis were seen in Tunnels Probably 1500-2000. Here Leptonycteris appeared to have young of Two Sizes. Two ^{adult} Grey fox were sighted here & 1 Pup fox was cornered in ~~2~~ ^{abandoned} mine shaft which required rope to descend into. Pup was shot in bottom of shaft, bottom of shaft had large numbers of ^{large} Prickly burrs on floor & fox also had many of these in his fur. From here we drove ~~to~~ 3 mi. where mine shaft was located just N of road. approx. 30 MacroTis were seen in this shaft which was about 50 ft. long with small side Tunnel at end. Black Tailed rattler was found at end of shaft. Then returned to Allison camp where Rock Ground ⁽⁸⁰⁾ squirrel was caught in steel set. In evening went to residence near camp where I shot 3 ⁽⁷³⁻⁷⁴⁾ Pipitrel. Net was put on dam & 3 Tadpoles ⁽⁸¹⁾ were caught. A few "large" bats were noted flying here. (Bats Very Numerous here)

25-June spent morning skinning bats collected on 24th, Pooled Traps at 2:00 PM but had nothing. Then drove to 1 mi. S Topawa where 75 special & 4 rat traps were set near wells. Net was put over reservoir tank at well & 3 Eptesicus were collected here in net.



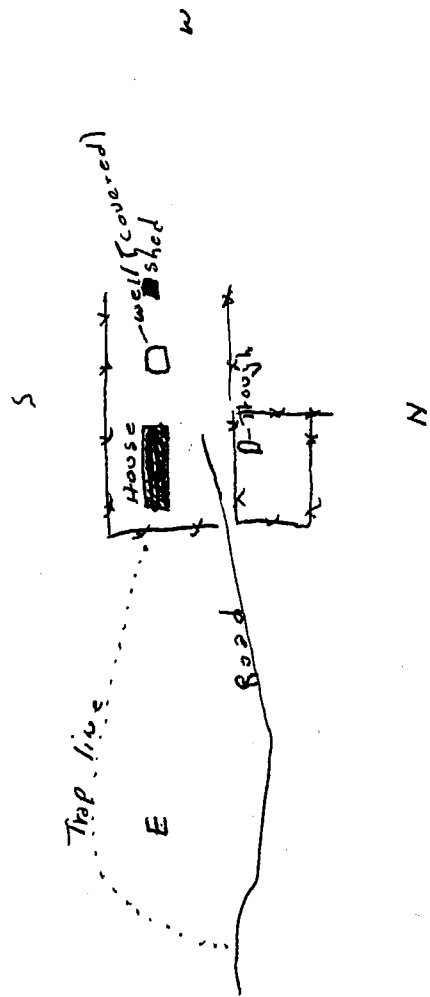
2

3

June 26 Pulled Traps which yielded 1 *Perognathus*
 This area seemed to have many *Dipodomys* holes
 in sides of mounds although none were
 caught. After skinning we drove to Bates
 Well, Pima Co. In evening 45 specials were set
 on rocky side slope 1 mi. E of well. BAT NET
 was set over water trough which yielded one
ANTROGUS, Numerous bats were noted flying in
 area over tank & also on desert 2 mi. E.
 of tank. Black Tailed jack rabbits & Round
 Tailed ground squirrels were noted near
 camp. weather Very "Hot" 110°+F

June 27 Pulled Traps set 26th which yielded 3 *perognathus*.
 After skinning drove w. "prox." 3 mi. where
 13 *Macrotus* were collected most of which were
 carrying young, many of which were of different
 sizes. This mine tunnel or approx. 50 ft. had about
 50 *Macrotus* in it. We then drove to Papago wells
 where 3 traps were set 9 mi. E of Papago wells
 5 traps were set for wood rats on rocky side
 hill 7 mi. E. of Papago well. At Papago well set 45
 specials on desert directly E of camp. Here animals
 seemed numerous & 1 cottontail was sighted. BAT NET
 was set over "small" water trough which
 yielded 6 *Pipisprel* + 1 *Macrotus* - Bats were "Very"
 Abundant here & were noted flying in covered

Pofajo well



Covered water TANK. Coyotes were heard Howling in evening. (Weather hot Dry)

June 28 Traps were pulled - 46 specials → 5

⁹⁸⁻⁹⁹⁻¹⁰⁰ Dipodomys merriami, 1 Dipodomys deserti, 1 Onychomys, 19 ⁽⁹⁸⁾ ⁽⁹⁷⁾ ~~(94-95-96)~~ Perognathus of 2 species. 5 wood rat traps → 2 Neotoma

ONE Anthyous was collected when BAT net was taken down

or two species. 3 traps → 2 round tailed ground squirrels. Returned to Bates well & skinned. Drove to Ajo, ~~where~~ where Coyote skull was picked up on route. Drove to Cretet Mts. 12 mi. N. Ajo

where camp was made + 46 specials + 6 rat traps were put on rocky side slopes. A few bats were noted flying in evening. (Weather hot dry)

June 29. Traps were pulled + yielded. 17 perognathus ⁽¹⁰⁹⁾ ⁽¹⁰⁷⁾ 3 peromyscus + 2 neotoma. drove to Stansfield

Pinal co. where 33 specials were set 10 mi. W of Casa Grande along wash on N side of Highway in short grass + scattered bushes on silty sand soil, 6 specials were also set 11 mi. W of Casa Grande in same type of habitat

Camp was made 1/2 mi. W of highway, 14 mi. W of Casa Grande on Harold Arps Ranch. 2 or 3 bats were noted flying here but none were collected - scattered Thunder showers occurred in afternoon & rest of day was hot. Traps were checked at 10:30 PM → 2 Perognathus

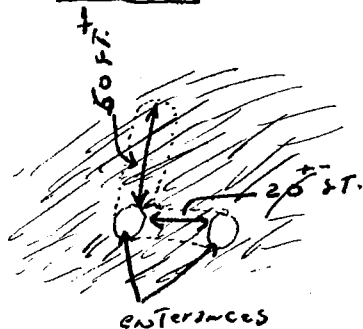
~~June 30~~ 1 peromyscus ⁽¹¹⁰⁾ maniculatus, 1 Peromyscus Arimicus

June 30 Traps were checked + Polled yielding
 33 specials → 2 *Dipodomys* + 2 ⁽¹¹⁻¹¹²⁾ *Perognathus*-cotton-
 tails were sighted here - 1 trap set in front
 of hole under stump yielded 1 *Peromyscus eremicus*
 on evening of June 29 + 1 *Perognathus* next morning.
 6 specials → nothing. Animals were skinned
 + then drove to case Grande. 4 mi. W of
 case Grande Badger was found dead on
 road + skinned there. In mid afternoon
 set 7 gopher traps $5\frac{1}{2}$ → 7 mi. E of case
 Grande, traps were picked up 2 hours later +
 yielded 2 ^(113 + 114) *Thomomys*. Then drove to spot 7 mi. W of
 case Grande where 40 specials were set in clump
 of brush just N of highway, then returned to camp
 14 mi. W of case Grande.

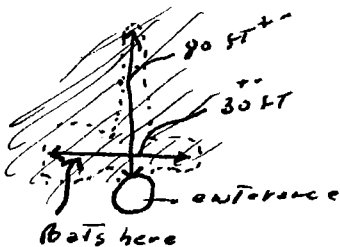
July 1 Traps were checked + yielded nothing. Kelley +
 usdt also got nothing here. There seemed to be
 numerous holes but apparently were few animals.
 It was very windy the previous evening + rained on
 June 30. It was reported entire valley was sprayed
 with insecticide in spring. Then drove to silver
 reef mts. where silver reef mine was checked
 + each of two tunnels had approx. 30 nursing
Macrotus in them - mine $\frac{1}{2}$ mi. E of silver reef
 mine had no bats although droppings were quite
 abundant. Cave at silver reef mine (easily seen from road)

Desert Queen

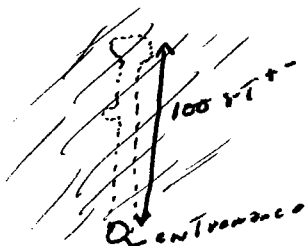
Tunnel 1



Tunnel 2



Tunnel 3



had abundant bat droppings also. Then drove to Desert Queen mine where Kelley & myself checked tunnels. There were many tunnels here & all had bat droppings in them but only three had bats. see map & Mine Tunnel 1 - had approx 30-40 *MacroTus* ⁽¹¹⁵⁻¹¹⁶⁻¹¹⁷⁻¹¹⁸⁻¹¹⁹⁾ & 9 were collected - all but one were males & the one was a juvenile ♀. No nursing ♀ or young were seen in this tunnel.

Tunnel 2. Had large nursery colony approx 800-1000 & a few ♂ were here also - bats in this tunnel could be easily caught if desired & Tunnel 3

Apparently had mostly ♂ although a few immatures were observed. Jack rabbit mine was also checked best as possible but no bats were sighted. Camp was made in house across road from Jack rabbit mine. 10 specials were set here & 36 specials & 6 rat traps were set approx 1 mi. N. of camp at N base of rocky ridge. A couple of bats were sighted flying around camp in even. (weather was hot & dry)

July 2. Traps were checked & yielded 10 specials - 1 *Peromyscus eremicus*. 36 specials & 6 rat → 2 *Neotoma*, 2 *Perognathus* & 7 *Peromyscus eremicus*. Cotton Tail was also sighted here & Black Tailed Jack also. Turkey Point mine 1 mi S of camp was checked for bats but due to verticle shafts only 1 tunnel was checked no bats were sighted then drove S

or turning pt. mine a couple of miles + another
 mine was checked - numerous ~~Macrotus~~ ^{(nursery) colonies} ~~Macrotus~~
 (300+ - ^(adults)) were sighted + Pig droppings were found
 in Tunnel. Then drove to Casa Grande + on
 road picked up Pocket Gopher set post
 there (5 mi. S casa) on July 1. Caught nothing.
 Then drove to Bradshaw Mts. where 30 specials
 were set 2 mi. N of Crown King on rocky
 side slope - 2 cottontails were sighted here.
 Then drove to Horse Thief basin where 15
 specials were set in dry creek bed near
 public camping area.

July 3 Traps were checked + pulled 15 specials →
 1 *Peromyscus* ~~boylei~~ *boylei*. 30 specials → 5 ¹²⁵⁻¹²⁶⁻¹²⁷⁻¹²⁸ *Peromyscus*
boylei. rock ^{squirrel} ~~signature~~ was sighted near residence, rock
 squirrel + chipmunk were sighted at Crown King. Mule
 deer ♂ in velvet was sighted in Horse Thief basin.
 2 new bats were sighted flying amongst the yellow pine.
~~Small bat~~ in evening at camp. 45 specials
 were set just below dam at residence. In late
 afternoon walked from Hill road to Cold Camp
 spring looking for pocket gophers, ground squirrels
 + chipmunks but none were sighted.

July 4 Traps were checked but not pulled →
 9 ^(129, 130, 131, 132) *Peromyscus* *boylei*, 2 new bat traps were set here
 for ground squirrels. Then drove toward Crown King

S

Horvath's
Vertice
Telephone
Line
Hill
Corral

File box

→ Crown King

N

Tunnel exposed
in Timbers

2180'
Hickory mine

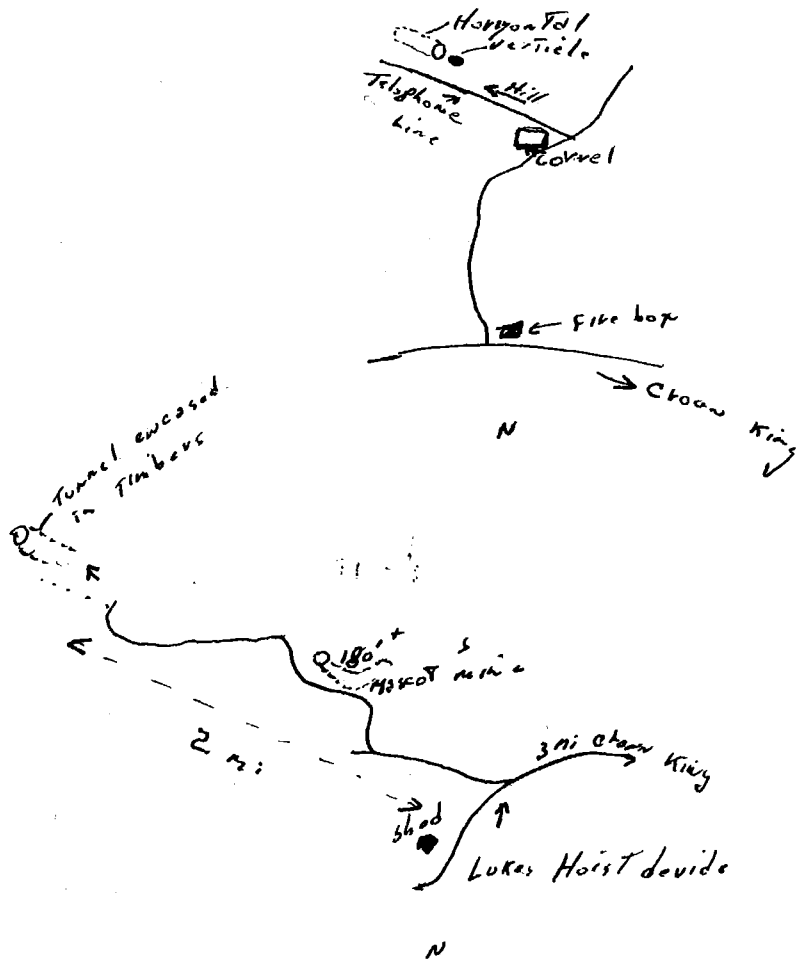
2 mi

3 mi Crown King

Shed

Lukas Horst divide

N



+ at red fire box approx. 4 mi from Crown Mine
 went south to mine "see map" where
 a few bat droppings were sighted but no
 bats - Then drove to tin shed at Lakes
 Hoist divide where 37 ^(137, 134, 135, 136, 137, 138, 139) *Myotis thysanoides* were collected
 in shed - Then walked from here to Mascot
 Mine "see map" approx 2 mi. from ^{mine} road. This
 mine was very cool + your breath could be
 seen at end 6 *Myotis thysanoides* in
 dormant condition were sighted + 1
 bat was noted flying. Pocket gopher
 mounds were sighted at entrance of tunnel
 150' from entrance. Two traps were set. Then walked down trail
 to another mine "see map" but was unable to
 go into mine more than 50 ft. some min was
 encased in timbers which were rotten. This mine
 was very damp + deer tracks were sighted at
 entrance. Our traps were then + 1 ground ⁽¹⁴⁰⁾ squirrel
 was caught. in evening shot bats near Mascot
 mine but only one *C. hesperus* was shot. Gopher
 traps were checked, one was sprung but none caught.
July 5 Traps were checked + pulled below residence
 → 6 *Peromyscus boylii*, Gopher traps at Mascot
 mine were pulled holes were plugged but didn't get
 gopher, then drove to Camp Verde where desert
 just E of town was checked for *Dipodomys*

(146-147-148-149-150) 14.
in 1st afternoon got *Myotis* in attic of house just
S of camp.

sign but little if any sign was here. Then drove
to 2 mi. W Rimrock where camp was made at
Pond. 65 specials ^{& 6 rat traps} were set just N of Montezuma
well on rim above school. Much wood rat sign
here. Many bats were noted flying over pond
in evening & bat net was set up but no bats
caught. 2 Pocket Gopher traps were set near
pond & one *Thomomys* ⁽¹⁴⁴⁾ was caught.

July 6 traps were checked & pulled →
1 *Neotoma*, 4 *Perognathus* ¹⁴³, 13 *Petomyscus* ¹⁴¹⁻¹⁴², 1
Thomomys ⁽¹⁴⁰⁾ caught at camp. Set out 10
Pocket gopher sets in afternoon in field
below pond - caught 2 *Thomomys* ¹⁵⁹⁻¹⁶⁰ here in late
afternoon, in evening set 55 specials & 5 rat
traps on rocky slope 2 mi. N Montezuma well.
in evening many bats were seen flying over
pond at camp but none were collected although
net was put up.

July 7 traps were checked & pulled → 4 *Perognathus* ¹⁵¹⁻¹⁵²
13 *Petomyscus eremicus* ^{153, 154, 155, 156, 157}, 1 *Neotoma* ¹⁵⁸ *Stephensi* &
2 *Thomomys* were caught in Gopher traps at
camp in evening 60 specials were set 2 mi. NW
camp terrace along Highway 79 from desert to top
of Hill - these traps were ~~not~~ checked late in
evening yielding 1 *Neotoma* ¹⁶¹ & 1 *Reithrodontomys* ¹⁶².

July 8 traps were checked & pulled yielding 1 *Petomyscus* ¹⁶⁴

General notes on Camp Verde

5

Highway
down area

← Dipodomys sighted here July 7 in
10th evening

L-K ranch

← look out point

Beaver creek

wineman ranch

Bats collected in this house
House mice collected in this shed

Any gophers here in field (these were trapped)

well

statock ranch

(black tailed)
Both cottontails + jack rabbits
were sighted in this area.

school

Traps
trapped

- Much neotoma sign along this ridge

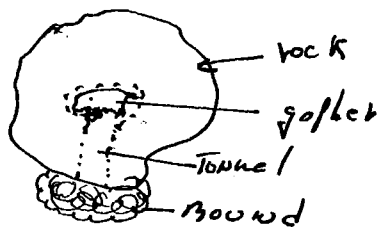
← want shooting bats here but none were
- jottow + only 2 seen

N

Neotoma were found eating
Prickly pear seed pods near
camp

¹⁶³
 d1 *Reithrodontomys*. *Reithrodontomys* ¹⁶² was caught on top
 of rocky hill + other one caught on desert.
 This area apparently had very few animals. Four
 more ¹⁶⁹ *Myotis* were collected from Winneman
 ranch near camp. Drove to Red Rock
 crossing on Oak Creek just out of Sedona
 in Yavapai Co. here 1 gopher set was made
 at camp + 20 specials were set on rocky
 juniper - Pinion slope - 2 more gopher
 sets were made at Verde Valley school
 + 40 specials + 3 rat traps were set on
 rocky Pinion Juniper Side Mt. St. Michaels
 Sedona. in evening large numbers of small
 bats probably *Pipistrellus* were sighted flying over
 irrigated field at camp. went to shoot
 bats just south of camp but got none +
 only saw four.

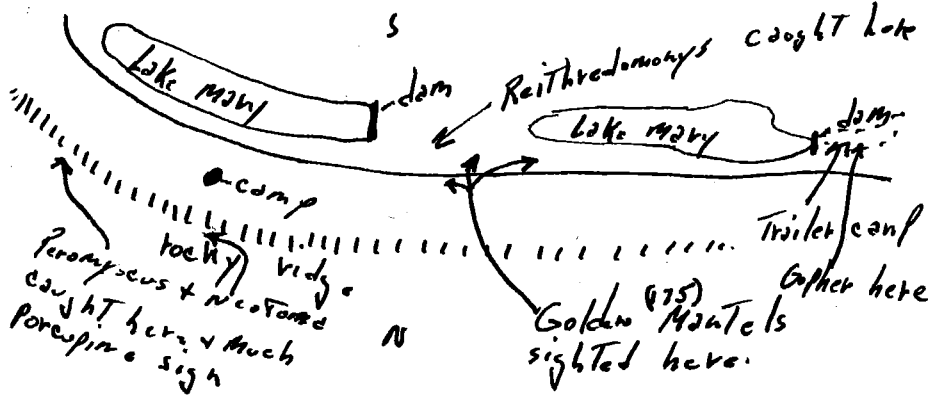
July 2 Checked and pulled traps - gopher sets →
 nothing, 20 specials → ¹⁶⁸ 1 *Peromyscus truei* +
 1 (imm) ¹⁶⁷ *Peromyscus*. 10 special → 2 *Peromyscus*
 probably ¹⁶⁵⁻¹⁶⁶ *boylii*, cottontail + jack rabbit sighted
 here as well as numerous deer tracks - This
 area had apparently few animals although sign
 seemed prevalent, wood rat sign was noted here
 also - drove to Lake Mary, S of Flagstaff where
 camp was made - set 40 specials on rocky



hole or Tunnel was only
about 10" long

bluff just N of lake - set 5 specials
 on grassy lake bottom + 6 specials on
 grassy area at W end of lake at
 Trailer Court. ~~At~~ Trailer caught ¹⁷⁴ *Thomomys* (imm)
 under rock see ← in evening 2013
 bats were heard flying around camp but
 none were seen.

July 10 Traps were checked + pulled - 40
 specials → 1 ¹⁷⁰ *Neotoma*, 4 ¹⁷¹⁻¹⁷² *Peromyscus*.
 5 specials → 1 ¹⁷³ *Reithrodontomys* (caught in
 grassy run with cut grass in it.)
 1 *Peromyscus*, 6 specials → 2 *Peromyscus*
 There was an abundance of porcupine
 droppings on rocky ridge above camp
 + many Golden Mantel Ground squirrels
 were seen along road - little wood
 bat sign was noted - see map.



drove to Flagstaff + from here headed
home - drove as far as ~~Flagstaff~~
Central New Mexico.

July 11 drove to 40 mi into Missouri
on route sighted 2 pronghorn Antelope
on western edge of Texas along
route 66

July 12 arrived back in Champaign.

at 7:00