

1997

# Hope's New Mexico 1997 Field Notes

Andrew G. Hope

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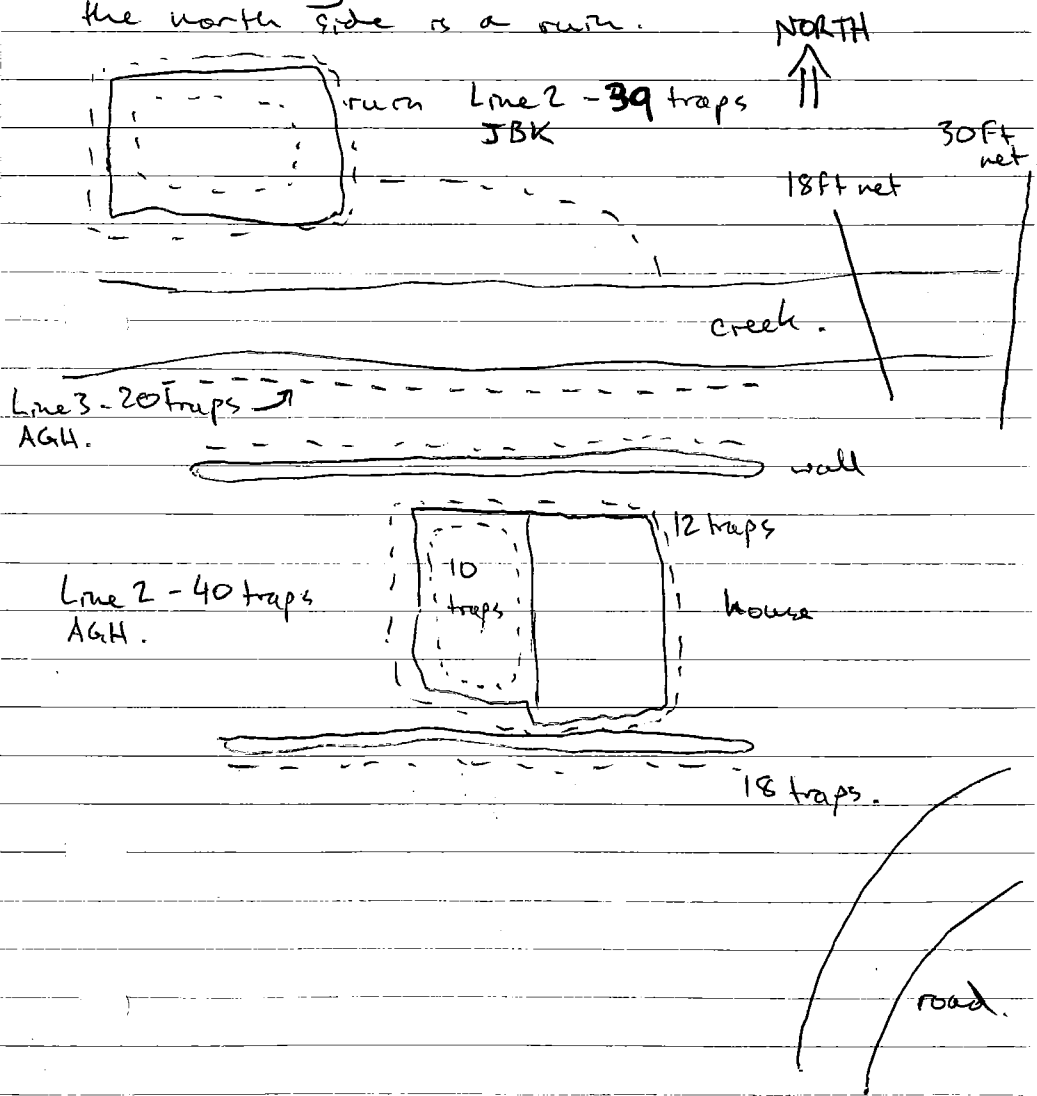
Hope, Andrew G.. "Hope's New Mexico 1997 Field Notes." (1997). [https://digitalrepository.unm.edu/msb\\_mammals\\_field\\_notes/28](https://digitalrepository.unm.edu/msb_mammals_field_notes/28)

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NM: Socorro Co.; North East Ladrones  
elev: 1710 m.

Ojo Salado - 1st Sept. 1997.  
location: 34° 31.196' N, 107° 09.003' W.

The location is north of Ladron peak and on the east side of the north projecting ridge. There is a house next to a creek with running water (east ← west) and on the north side is a ruin.

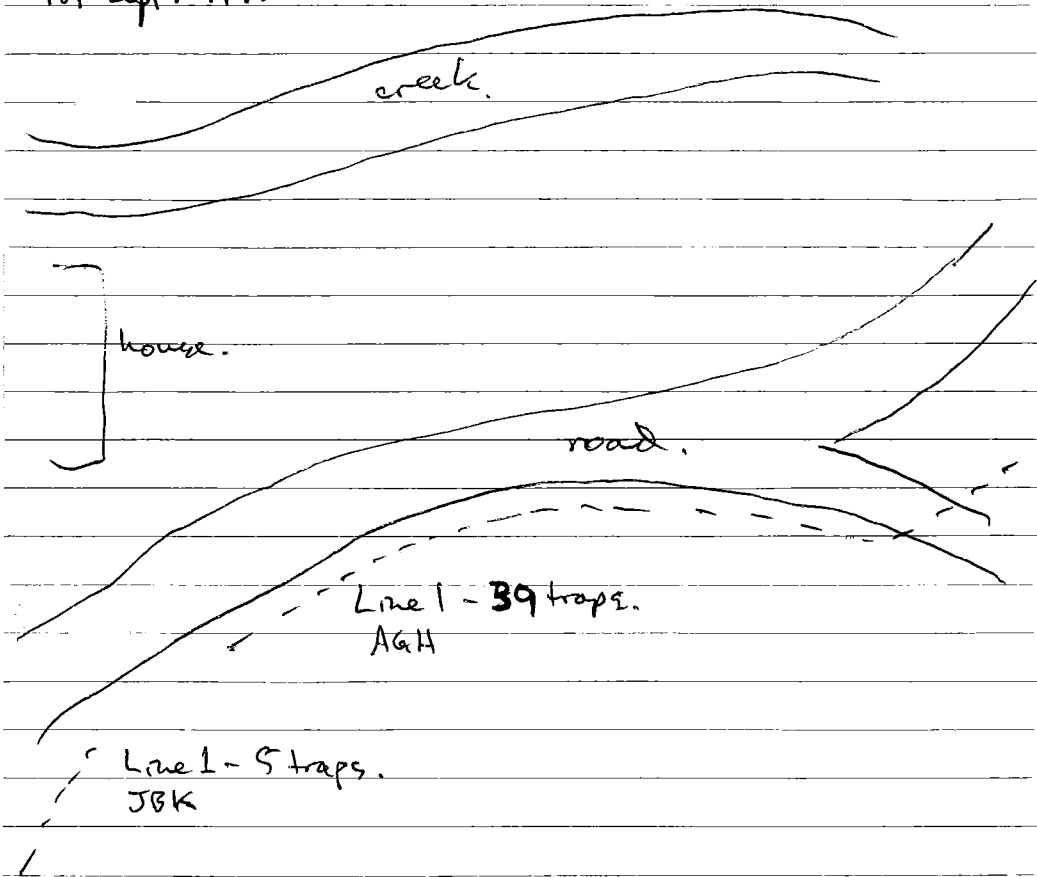


Andrew G. Hooper.

NORTH



1st sept. 1997



People: Andrew G. Hooper:

- line 1: - 2 *Perognathus flavus* (1 S.A.) (0 SBE)
- line 2: - 1 *Peromyscus* ? (0 SBE)
- line 3: - 2 *Peromyscus* ?
- 2 *Neotoma albigula* (0 SBE)

John B. Kendall:

- line 1: - nothing (1 SBE)
- line 2: - 3 *Peromyscus* ?
- 2 *Dipodomys merriami*
- 1 *Neotoma albigula*
- 1 *Chaetodipus intermedius* (0 SBE)

Andrew G. Hoop

1st. sept. 1997

The purpose of the trap was jointly to trap for *P. maniculatus* and for bats.

2 mist nets were set over the creek, 1 was 18 ft. and 1 was 30 ft.

Species caught: 7 *Tadarida brasiliensis*: Mexican Free-tail

1 *Lasiurus cinereus*: Hoary Bat

1 *Myotis ciliolabrum*: Small Footed Myotis.

Vegetation: Tamarack (salt cedar) along the creek. Very few juniper trees. Mesquite patchy. Snake grass and other grasses present and the whole area is grazed by cattle.

Conditions: We arrived at 8:00 PM and it was almost dark. Clear stary sky and a fair breeze. No rain. Cool temperature.

Notes: All the ~~Heteromysids~~ Heteromysids and *Neotoma* were released on site. The *Peromyscus* were kept for identification. None were *P. maniculatus*. (Perhaps *P. eremicus*?).

All traps collected by 8:30 AM.

total: 143 trap nights

USA: NM: Socorro Co; Sevilleta NWR;

Hantavirus enclosures; Northern arroyos.

(total: 240 trap nights)

14th Oct. 1997: The purpose of the trip was to search for Peromyscus spp. mice near to the enclosures where they have been found before. Especially for P. maniculatus. Days were warm and sunny with Tiffle wind but nights were clear and at roughly freezing temperatures.

Caught:

- 10 Dipodomys - (2 D.I.T.)
- 7 Chaetodipus intermedius - (1 D.I.T.)
- 2 Perognathus flavus - (1 D.I.T.)
- 1 Onychomys leucogaster.
- 1 Neotoma albigula.

15th Oct. 1997: Caught:

- 11 Dipodomys - (1 D.I.T.)
- 6 Chaetodipus intermedius
- 3 Neotoma albigula
- 2 Perognathus flavus
- 1 Onychomys leucogaster.

All mice were released where found as no Peromyscus were found.

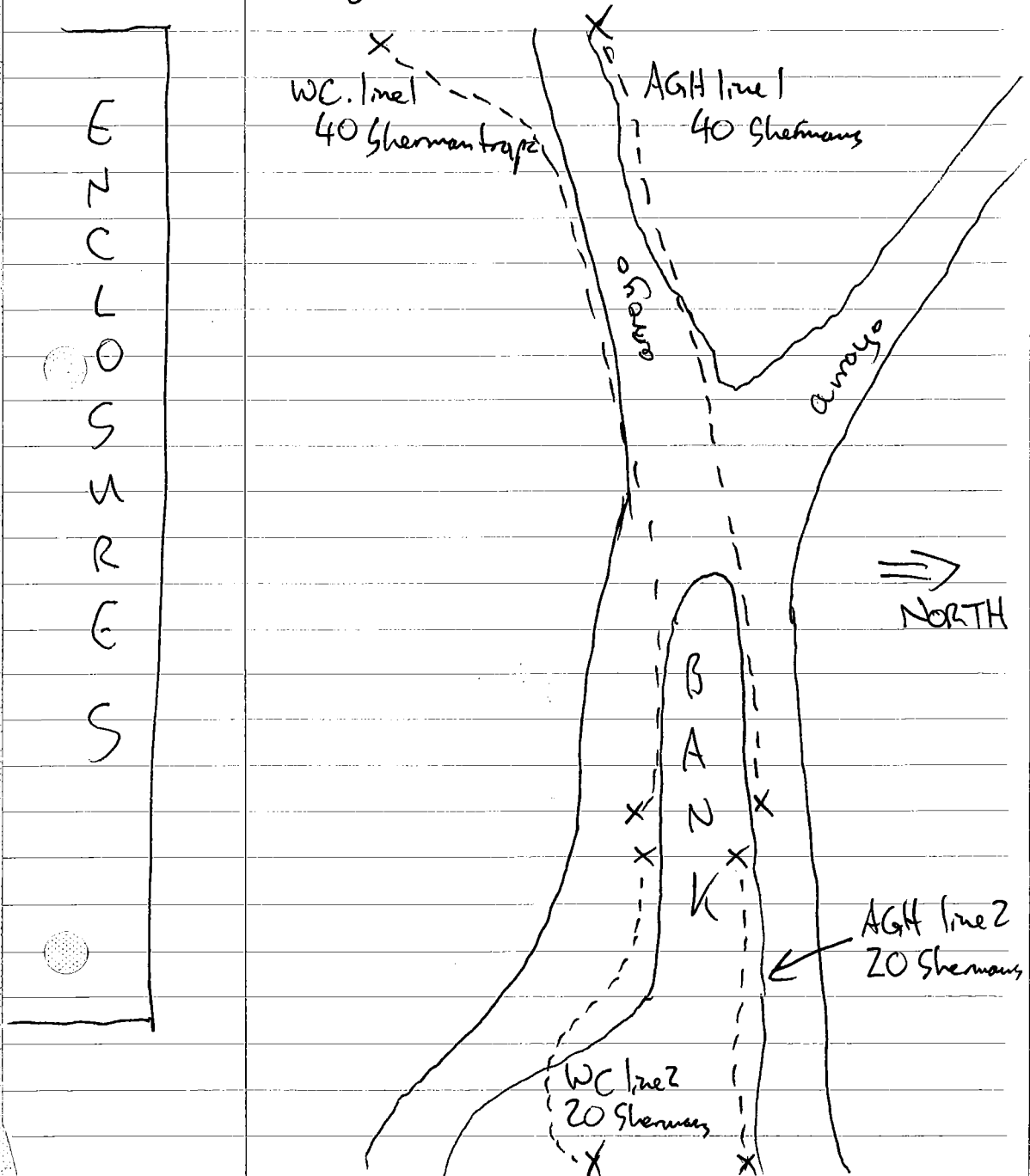
The traps were set by Will Callaghan and Andrew G. Hope on 13th Oct. 1997.

There were 2 lines of 40 Sherman traps and 2 lines of 20 Sherman traps situated along the main arroyo North

Andrew G. Hope

14th-15th October 1997.

of the Hantavirus enclosures and along a large embankment in the middle. Traps were at all levels from the arroyo bed to the bank tops.



USA, NM: Socorro Co;

Andrew G. Hope.

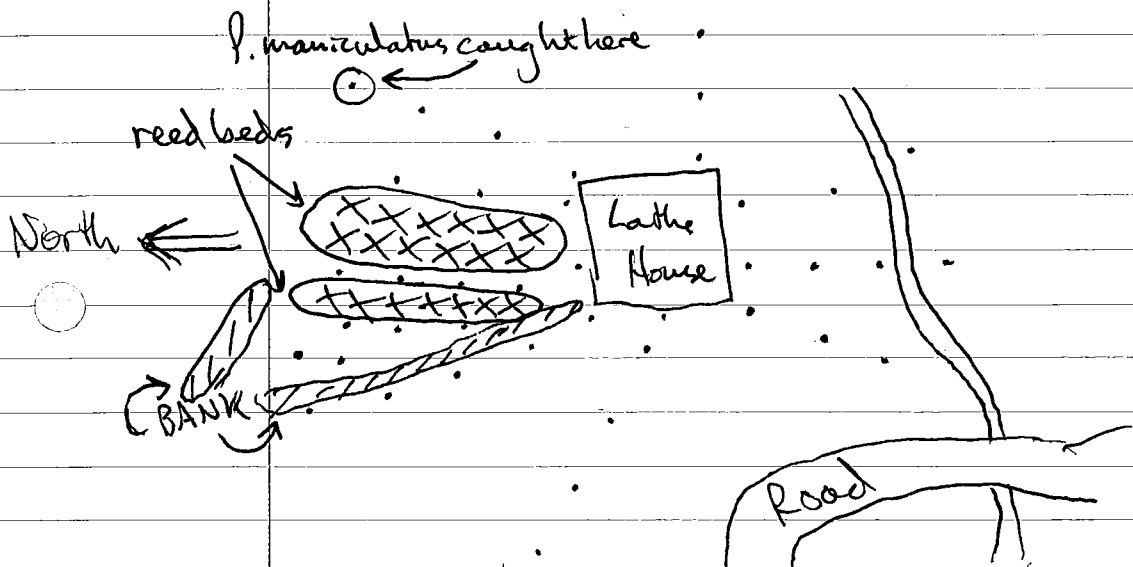
Savilleeta NWR; Field Station.

20th October → 7th November 1997

On the 19th October 1997 after getting back from the annual Magdalena trip, the 7 caged mice in the Lathé house were either released or eaten probably by a raccoon. The 7 *P. maniculatus* brought back from the Magdalenas were all OK, as they remained in traps. However they were in cages on the 20th Oct. 1997 and all disappeared that night from the Lathé house. The next day 40 Sherman traps were set by A.G. Hope in a web form around the Lathé house to try and recover mice. Also 4 Havahart traps were set inside to try and catch what was disturbing the mice. These were set for 4 nights but nothing was caught.

(Dots represent traps)

*P. maniculatus* caught here



20th October 1997 → 7th November 1997

The 40 Shermans yielded many mice and rats including Nestoma albogula near the Lathe House, Dipodomys spp. all over, a couple Onychomys leucogaster and Perognathus flavus, many Sigmodon hispidus mostly found around the reed beds. 4 of these were killed and blood and tissues were taken. Also Peromyscus leucopus were abundant every where except on the South side. Many were caught over the extended trapping period ~~but~~ and some were caged for the enclosures but an exact count is not given as several were released due to lack of cages and not all were ~~tagged~~ tagged. Recaptures are ~~probabab~~ probable. On Wednesday 2nd October traps were set. On Tuesday 27th Oct, a P. maniculatus native to the Sevillaeta was caught at the site shown on the diagram. There is speculation they may be moving up from La Joya pond. Also a Magdalena P. maniculatus was recaptured near this point. Therefore 50 more Sherman traps were set in the area to saturate it and try to catch more. None yet have been found but more P. leucopus and P. eremicus were found. Trapping continues. (Today's date is 5th of November 1997.)

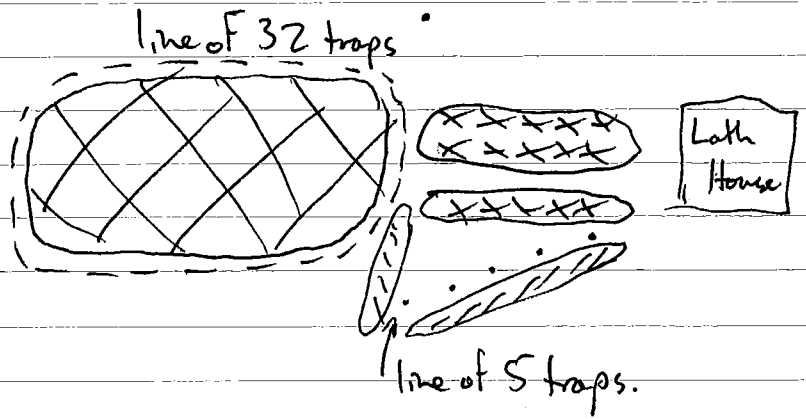


20th Oct. 1997 →  
7th Nov. 1997

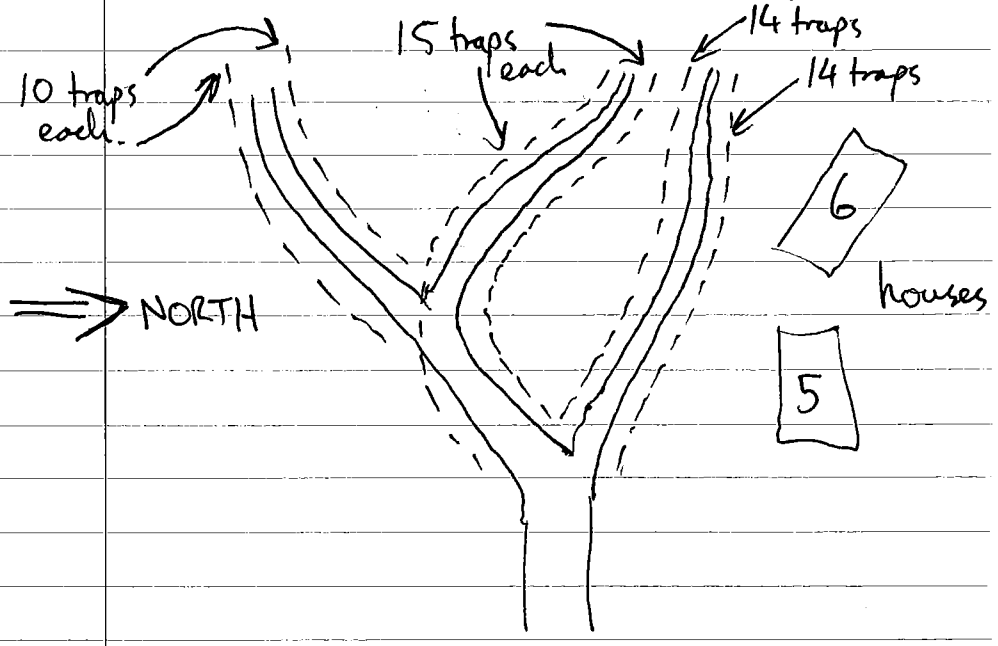
line of 7 traps · 1 trap ·

line of 5 traps

NORTH ←



Also on Monday 20th. Oct. 1997, 78 Sherman traps were set near arroyos to the immediate south of the field station behind the top houses looking for P. maniculatus where they have been previously found. This area was trapped for 3 nights and then the traps were moved to saturate the Lath House area as stated.



A.G. Hope.

20th October 1997 → 7th November 1997

Both P. leucopus and P. eremicus were caught in this upper area near the arrays along with other mice and rat species already mentioned, (also Chaetodipus)  
The Peromyscus mice only were kept.

On Sunday 2nd November 25 Sherman traps were set on the roofs of the lower Sevilleta field station houses, 5 traps to each house, John Dewitt's house and houses 1 → 4. After 3 nights of trapping, 17 Peromyscus mice were caught. All either P. leucopus or P. eremicus (but possibly one was a Magdalena P. maniculatus recapture).

	Day 1	Day 2	Day 3
J.D. house:	2	1	1
house 1:	0	0	2
house 2:	1	0	0
house 3:	1	3	1
house 4:	2	2	1

House 4 were P. leucopus  
House 3 were P. eremicus as were houses 1 and 2 and J.D.'s house were P. leucopus  
(This is not dead certain but a rough generalisation from what memory serves)

18 Peromyscus mice are currently in captivity. They will be ear-tagged, bled, pit-tagged and released to the enclosures before more are collected.

AG. Hope.

Mice caught on roofs of  
Sevilla Houses

20th October → 7th Nov. 1997

House 4 : NK 76738 PMLE

NK 76739 PMLE

NK 76742 PMLE

House 3: NK 76741 PMER

House 2:

House 1 : NK 76740 PMLE

J.D.'s House: NK 76726 PMLE

NB. 12 other mice were caught on these roofs but as no space was available to hold them, they were released. See previous pages.

Mice caught near Lath House at  
 20th Oct. 1997 → 7th Nov. 97 Seville NWR  
 (mostly north of Lath House)

NK 76735 PMLE

NK 76736 PMLE

NK 76737 PMLE

NK 76743 PMLE

NK 76744 PMLE

NK 76745 PMLE

NK 76746 PMLE

NK 76747 PMLE

(NK 76748 PMBL caught at site Two-22)

NK 76749 PMLE

NK 76750 PMMA

(NK 76751 PMBL caught at site Two-22)

NK 76752 PMLE

NK 76271 PMLE

Andrew G. Hope.

USA: NM: Socorro Co; Sevilleta NWR;

Field Station.

9th November 1997 →

On the 9th Nov. 1997 2 lines of traps were set by A.G.H. east of the field station and heading down towards La Joya game refuge. Each line containing 40 live Sherman traps. Line 1 was lower down near a large arroyo and about 60m South of the southern tip of Sevilleta NMHS web 3. Line 2 was on higher ground further south. Both on fairly open ground with sandy soil and some gravel areas. Sparse juniper bushes, mesquite and other small shrubs and grasses.

On the 10th November 1997 line 3 containing 27 Sherman traps was set further east from the end of line 2. It started high and went to lower ground ending about 100m from the interstate highway. Also a line of 38 sherman traps (Line 4) was set starting behind house 4 and heading west along arroyos. The following pages show the capture results. Line 1 produced Peromyscus mice that were previously caught on Sevilleta NMHS web 3. Apart from a D.I.T., these mice were released back as they were considered part of the mark-recapture project. Also a Peromyscus maniculatus from web 1 was caught and kept as it was further away.

I 25  
highway ↑↑

9th November 1997 →

Web 3

large arroyo →

AGH.  
Line 1  
40  
Sherman  
traps.

AGH  
line 3  
27 Sherman traps.

AGH.  
line 2  
40  
Sherman traps.

large arroyo ↓

Lath  
House.

labs and common  
room.

computer  
pod

House  
4

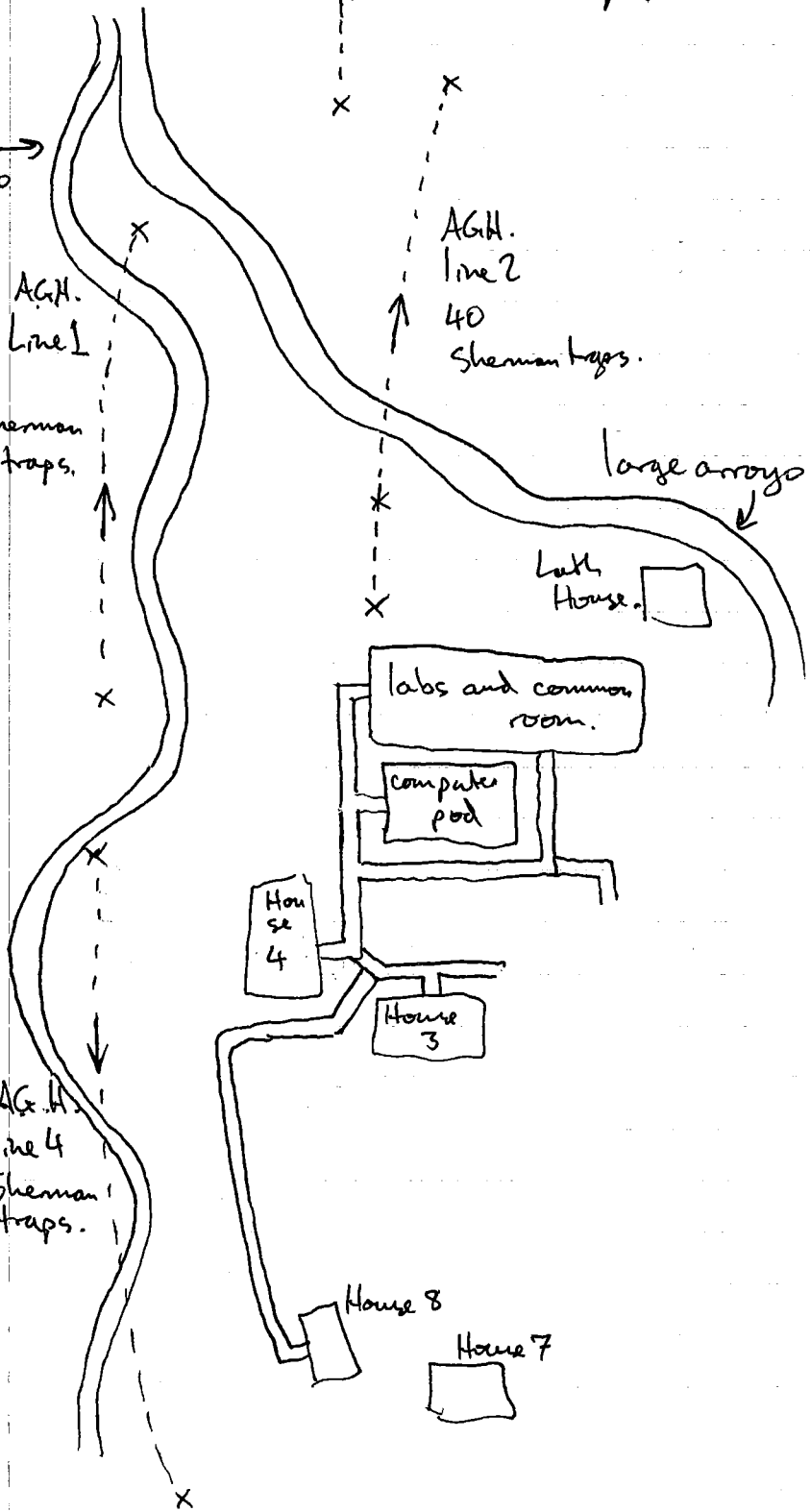
House  
3

North ←

AGH.  
line 4  
38 Sherman  
traps.

House 8

House 7



9th November 1997 →

Captures from ~~day~~ 10th Nov. 1997:

Species.	Line 1	Line 2
<u>Dipodomys</u> spp.	5, 9, 10, 11, 12, 20, 26.	5, 6, 7, 8, 13, 30, 35, 40.
<u>Perognathus flavus</u>	19, 34, 37.	4, 22.
<u>Neotoma albigula</u>	22, 30.	14, 36.
<u>Peromyscus leucopus</u>	21 (D.I.T.), 32.	37 (D.I.T.)
<u>Peromyscus eremicus</u>	27	
<u>Peromyscus truei</u>	28.	
<u>Sigmodon hispidus</u>		2, 3.

(NB. numbers above indicate trap numbers)

Line 1 - Trap 27	PMER	NK 76320	ET 3328	♂	released.
Line 1 - Trap 28	PMTR	NK 76728	ET 3595	♂	released.
Line 1 - Trap 32	PMLE	NK 76733	ET 3594	♀	released.
Line 2 - Trap 2	SIHI	NK 76767	ET 3613	♀	released.
Line 2 - Trap 3	SIHI	NK 76766	ET 3612	♀	released.

Captures from 11th November 1997:

Species	Line 1	Line 2	Line 3	Line 4
<u>Dipodomys</u> spp.	5, 7, 10, 13, 15, 18, 20, 25, 38.	3, 4, 7, 8, 12, 28, 30.	25.	2, 9, 12, 13, 17, 18, 30, 35, 36.
<u>Perognathus flavus</u>	14, 36.	20, 32.		3.
<u>Neotoma albigula</u>	22.	35, 9, 13, 22.	22.	
<u>Perognathus flavescens</u>	30.			5.
<u>Onychomys leucogaster</u>	23.			
<u>Sigmodon hispidus</u>		3.		
<u>Peromyscus leucopus</u>			27	

9th November 1997 →

Captures from 11th Nov. 1997. (Cont.):

Species	Line 1	Line 2	Line 3	Line 4
<u>Peromyscus eremicus</u>				15.
<u>Peromyscus maniculatus</u>		1.		

(numbers above indicate trap numbers).

Line 3 - Trap 27	PMLE	NK 76764	ET 3615	♂	to enclosures S.E.
Line 4 - Trap 15	PMER	NK 76763	ET 3614	♂	to enclosures S.E.
Line 2 - Trap 1	PMMA	NK 76734	ET 3579	♂	to enclosures S.E.

Again only Peromyscus mice that are caught for the first time or are far away from the webs are kept. They are processed and released to the enclosures. The Sigmodon cotton rats were bled to check for diseases and then released. There seems to be (from trapping experience) a large and stable population of Sigmodon hispidus north of the Lath House in that wetland reed area.

Captures from 12th November 1997:

Species	Line 1	Line 2	Line 3	Line 4
<u>Dipodomys</u> spp.	4, 5, 9, 11, 13, 17, 18, 39.	5, 8, 12, 13, 29, 30.	1, 6, 25.	8, 10, 11, 17, 18, 26, 28, 29, 35, 36.
<u>Neotoma albicula</u>	20.	36.	3.	19, 30.



9th November 1997 →

Captures from 12th November (Cont.):

Species.	Line 1	Line 2	Line 3	Line 4
<u>Perognathus flavus</u>	16.	25.		37.
<u>Perognathus flavescens</u>	29.			
<u>Oryzomys leucogaster</u>	23.	7.		
<u>Peromyscus leucopus</u>	25.			
<u>Peromyscus truei</u>	26.			
<u>Peromyscus eremicus</u>	28.			33.
<u>Reithrodontomys megalotis</u>			17.	
<u>Sigmodon hispidus</u>		3, 2 (x2).		

(The numbers indicate trap numbers.)

The 3 Peromyscus mice caught on 12th Nov on Line 1 are all recaptures from the previous day and they were caught first on 10th Nov.

The Reithrodontomys caught was almost certainly megalotis as the tail did not have the striking bicolor of the R. montanus and it seemed larger.

Results from the first day of trapping on lines 3 + 4 were unfortunately thrown out by the cleaners but no Peromyscus were caught. Mainly Dipodomys, Neotoma and Perognathus with a single Oryzomys, too. Fewer mice over all on the 13th Nov. as it was windy and rainy the night of the 12th of Nov.

total : 435 trap nights

Andrew G. Hope

USA, NM: Socorro Co.; San Acacia;  
Moeller Ranch / Acosta Residence.

17th November → 20th November 1997

Over this period 6 lines of Sherman traps were set on these 2 sites, ~~totally~~ totalling 225 traps over three nights.  
total: 675 trap nights.

Line 1: Was set on the Acosta residence. (Jesus Acosta - tel: 835-3961). The line contained 25 traps. 20 traps were set around wood piles in the front of the house and 5 traps were set near a small pig sty behind the house where apparently there was a supply of grain. Very little was caught over the 3 nights. Most probably this was due to the fact that there were 3 cats living at the house.

Night 1: no mice caught. 3 traps S.B.E.

Night 2: Mus musculus - trap 12 (x2)  
2 traps S.B.E.

Night 3: Mus musculus - traps 17 + 18.  
2 traps S.B.E.

Line 2: Was set on the Moeller Ranch (Dr. Fritz A. Moeller - tel: 505 835 3866)

The line contained 40 traps set on both sides at various heights of an irrigation ditch running east-west. The ditch was almost totally dry with very little

17th → 20th November 1997

Vegetation apart from straw and grass stubble along the sides.

Night 1: nothing caught. 3 traps S.B.E.

Night 2: Peromyscus leucopus - trap 21  
2 traps S.B.E.

Night 3: Peromyscus leucopus - traps 21 + 22.  
3 traps S.B.E.

Line 3: Was set on public ground in and along a ditch at the side of the road near I25 running north-south. The undergrowth was dense with many shrubs, thick grasses and small trees. The ground must have contained a good amount of moisture. Cotton rats were by far the most prominent species and trap success was high. A total of 40 traps were in the line.

Night 1: Peromyscus leucopus - traps 2, 3, 5, 14 + 16.

Sigmodon hispidus - traps 6, 8, 10, 17, 22, 23, 24, 26, 27, 28, 30, 31, 32, 33, 35, 36, 39, 40.

Reithrodontomys megalotis - traps 11, 12, 15, 18, 34.

Mus musculus - trap 37.

1 trap S.B.E. Total: 29/40 success.

→ P.T.O.

17th → 20th November 1997

Night 2: Peromyscus leucopus - traps 1 and 10.  
Sigmodon hispidus - traps 6, 7, 8, 9, 11, 13,  
 14, 15, 17, 19, 22, 23, 24, 25, 27, 28, 29, 33,  
 34, 36, 37, 38, 40.  
Reithrodontomys megalotis - traps 18 + 26.  
Mus musculus - trap 39.  
 3 traps S.B.E. Total: 28/40 success.

Night 3: Peromyscus leucopus - traps 1, 3, 12.  
Sigmodon hispidus - traps 2, 7, 8, 10, 13, 14,  
 15, 17, 18, 20, 22, 23, 25, 26, 27, 28, 29, 30,  
 31, 32(x2), 33, 36, 37, 38, 39, 40.  
 3 traps S.B.E. Total: 29/40 success.

It might be interesting to note that all the Peromyscus were caught within the first 16 traps on the line. It was perhaps slightly dryer in this area with more shrubs and less grass but not really significantly different.

→ (40 traps in line)  
Line 4: - Was set on the Moeller ranch along the top of a ditch on the edge of heavy ~~under~~ plant cover. It ran east-west and was inside a field with cattle. The plants were very tall crop grasses on the verge and then bushes behind them. There were alot of S.B.E.'s so perhaps the cows were tampering abit.

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Night 1: Peromyscus leucopus - traps 7, 9, 27, 28, 33, 35, 40.Mus musculus - traps 11 + 36.  
8 traps S.B.E.Night 2: Peromyscus leucopus - traps 3, 34, 38, 40.Reithrodontomys megalotis - trap 11.Neotoma albigula - traps 13 + 23.Mus musculus - traps 36 + 39.

6 traps S.B.E.

Night 3: Peromyscus leucopus - trap 38.Reithrodontomys megalotis - traps 7 + 26.Sigmodon hispidus - trap 5.Mus musculus - traps 28, 31, 33, 34, 39.

14 traps S.B.E.

Line 5: Was set the other side of a high bank from line 4 also facing east-west. There was no ditch on this side and 40 traps were set along the verge of dense high crop grasses in a field that wasn't being grazed.

Night 1: Peromyscus leucopus - traps 10 + 34.Reithrodontomys megalotis - traps 3, 9, 25, 31.Sigmodon hispidus - traps 5, 32, 33.Mus musculus - traps 11, 21, 22.

2 traps S.B.E.

17th → 20th November 1997

Night 2: Reithrodontomys megalotis - traps 22, 23, 28, 29.  
Sigmodon hispidus - traps 1, 8, 16, 20, 24,  
 26, 31, 32, 33, 38, 40.  
Mus musculus - trap 30.  
 15 traps S.B.E.

Night 3: Reithrodontomys megalotis - trap 24.  
Sigmodon hispidus - traps 17, 21, 27, 28, 33,  
 34, 38, 40.  
Mus musculus - traps 9, 25, 26, 31.  
 24 traps S.B.E.

It is interesting to note that so many traps were S.B.E. on the last 2 nights most of which were in the first 20 traps on the line. ~~It~~ Very possibly a larger animal was moving down the trap line and setting off traps. (skunk?).

Line 6 :- Was set in the same field as Lines 5 but on the east side against a large bank running north-south. The first 20 traps were set along the base and ~~side~~ west side of the bank, while the other 20 traps were set along the top of the bank, probably about 3 meters high. The side of the bank was open and grassy with a few shrubs. The top was covered with fairly dense weeds on a dirt floor.

17th → 20th November 1997

Night 1: Peromyscus leucopus - traps 1 + 26.  
Reithrodontomys megalotis - traps 4 + 10.  
Mus musculus - traps 19, 24, 35, 36, 39, 40.  
 3 traps S.B.E.

Night 2: Peromyscus leucopus - trap 4.  
Reithrodontomys megalotis - traps 2, 27, 29.  
Sigmodon hispidus - trap 15.  
Mus musculus - traps 3, 12, 16, 17 (D.I.T. x2),  
 19, 21, 22, 24, 26, 33, 36, 37, 38, 40.  
 2 traps S.B.E.

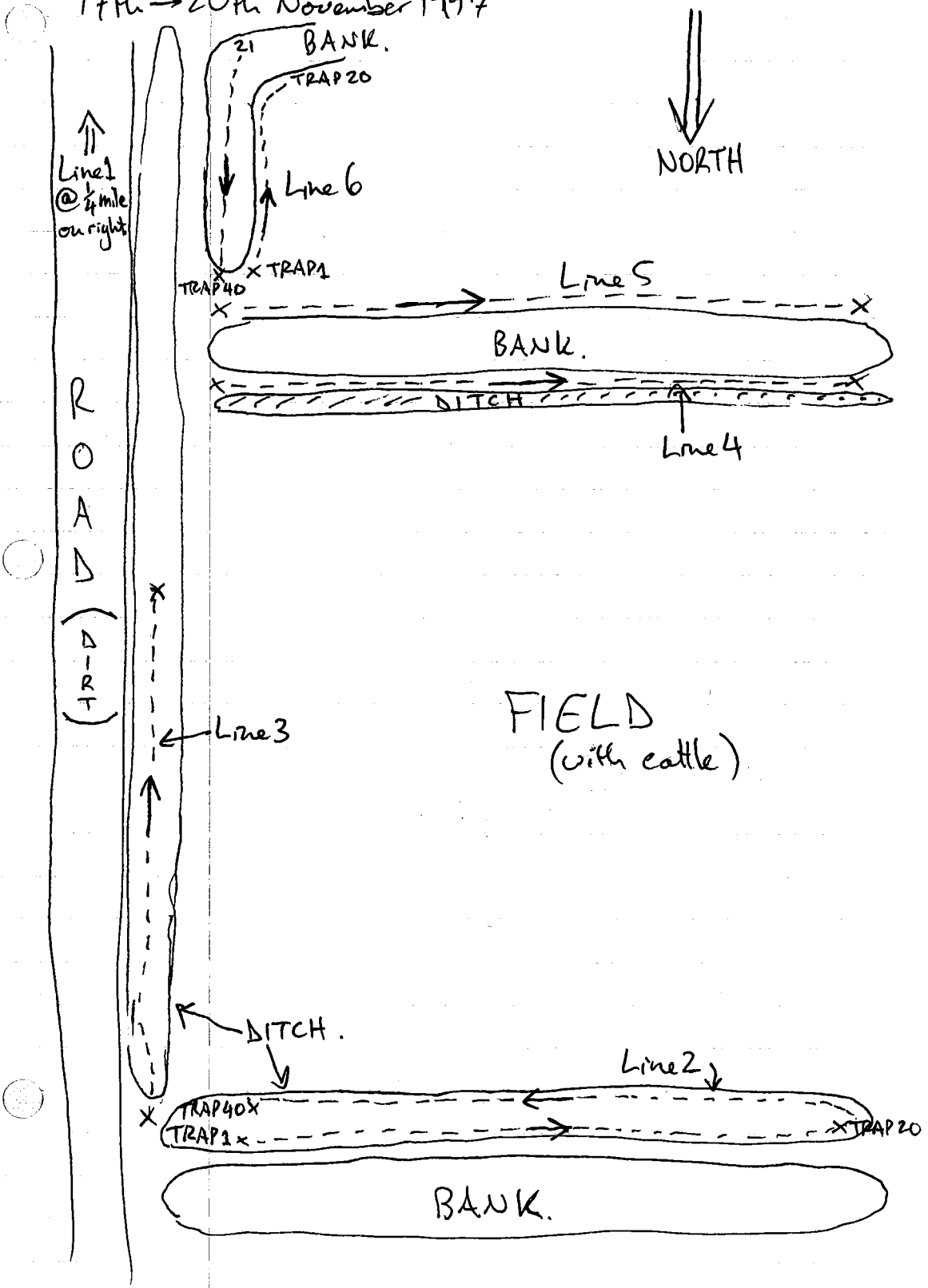
Night 3: Peromyscus leucopus - traps 29, 30, 35.  
Reithrodontomys megalotis - trap 11.  
Sigmodon hispidus - traps 16 + 38.  
Mus musculus - traps 3, 4, 15, 19, 32, 33, 34,  
 37.  
 7 traps S.B.E.

Over all 20<sup>47</sup> mice were caught over the 3 nights. All nights were fairly clear with few clouds and the moon was roughly half full. The temperature was roughly freezing point (~~20~~ 32°) all nights.

=====  
 All peromyscus were kept and <sup>most</sup> put into the enclosures (see mouse list). All others were released on site.

Andrew G. Hope

17th → 20th November 1997





Andrew G. Hope

USA: NM: Socorro Co.; ~~La~~ La Joya State  
Game Refuge.

Monday 23<sup>rd</sup> November → 25<sup>th</sup> Nov. 1997.

(\*) NB. 4 of these *Peromyscus* mice were found positive for hanta  
virus.)  
Travel Log to the trapping sites: -

Mileage

- 0.0 Sevilleba Gate → La Joya Game Refuge  
0.2 Turn R. onto road  
0.9 Turn L. at T-junction  
1.5 Turn R. at railroad  
2.5 Turn L. over railroad.  
2.6 Turn R. at open area keeping ditch  
to the left.  
3.9 Bee hives on R.  
4.2 Stop at double strainer post where  
fence on right veers away from the road.

This trapping period was for 2 nights with  
4 lines of traps totalling 140 Sherman's.  
Total 280 trap nights

All traps were set in ~~La~~ La Joya ~~but~~  
with the majority in the location as  
described above. (3 lines of 40 traps).  
The 4<sup>th</sup> line with 20 traps was set at  
the site of an old house overlooking  
La Joya game pond.

Andrew G. Hope & G. Malcolm Hope ran all  
the traps.

23rd Nov. → 25th November 1997.

Line 1: - Was set on the edge of Tamarisk trees and amongst willow shrubs. It faced North-South and contained 40 traps. Ground was generally fairly damp beneath surface of dirt/sand.

Night 1: Sigmodon hispidus - trap 6.  
Dipodomys ordii - traps 21, 22, 27, 28.  
3 traps S.B.E.

Night 2: Dipodomys ordii - traps 26, 27, 28.  
Reithrodontomys megalotis - trap 7, 14.  
1 trap S.B.E.

Line 2: - Set in the same location but facing east-west. Contained 40 traps.

Night 1: Peromyscus leucopus / maniculatus - traps 36, 40.  
1 trap S.B.E.

Night 2: Peromyscus leucopus / maniculatus - traps 11, 21, 39, 40.  
Reithrodontomys megalotis - trap 35.  
1 trap S.B.E.

Most of the Peromyscus were caught in the latter few traps set in Salt cedar

23rd Nov - 25th November 1997

where as the most of the traps were in willow areas. Also, the *Peromyscus* caught in all lines could be either ~~base~~ *P. leucopus* or *P. maniculatus*. At this stage identification was very tricky (thought to be possible hybridisation).

Line 3: - set in same location but facing North-south and south of line 1. Contained 40 traps.

Night 1: *Peromyscus leucopus* / *maniculatus* - traps 28, 33.  
3 traps S.B.E.

Night 2: *Peromyscus leucopus* / *maniculatus* - traps 11, 23, 26, 28.  
*Dipodomys ordii* - trap 29.  
*Reithrodontomys megalotis* - trap 36.  
2 traps S.B.E.

Line 4: - Contained 20 traps set above (west) of La Joya pond at the site of an old house. Mesquite, juniper, tumble weed were the major plants. Very high success rate and many *Peromyscus* mice. Probably they are mostly *P. maniculatus*.

Night 1: *Peromyscus maniculatus* - traps 2, 3, 6, 7, 8 (DIT), 9, 10, 13, 17 (DIT), 18, 20.

Andrew Hoge

23rd → 25th November 1997

Night 1 (cont): - Neotoma albigula - trap 11.

Sigmodon hispidus - trap 12.

Dipodomys merriami - trap 14 + 16.

Reithrodontomys megalotis - trap 15.

1 trap S.B.E.

Night 2: Peromyscus maniculatus - traps 2, 3, 4, 7, 8,  
13, 14, 16, 18 (x2), 20.

Neotoma albigula - traps 1, 5, 6.

Dipodomys merriami - traps 17, 19.

Sigmodon hispidus - trap 9.

3 traps S.B.E.

