

Torvald

Andrew Högl

CAI Meeting - Wimmer (base) 14 July 11/12/2019

Guests: ...

Fraser Combs (Ecuador) (F) (post-doc)

Ran Wiens (New Mexico State U) (R)

Lisa Wooten (K-state U) (L)

Tommy Herrera (K-state U) (T)

Purpose: The field work ...

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other loose ends.

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North of NIS ... ..

chose site. Cost ~ \$60 local fuel R. H. + me  
comfortable. Had some dinner and went to sleep.

customs @ 09:30 Customs officer gave us a lot of  
time about having a few beers with us and going to  
do science... Also looked like he was having a  
4:00 shift must be a very busy one.

customs office. Mostly empty, but they made  
checks, made phone calls, copied all our documents  
etc. paverator ... ..  
and contacts so they eventually issued us all  
30 day permits. Much more hassle than I had  
expected.

Winnipeg and arrived at Bob Wozley's house at  
~ 13:00. (Took 2.5 hrs to clear customs.)

Bob and I went to meet Bill ... ..  
to talk about permits and sites and specimens etc.  
Bill was very friendly and helpful, spent ... ..

Andrew Gibson

me to stay clear of fur bearings since Duck Mt. Park

we got a lot of fun - off the boat 'Bats' home

we pizza and so we all ate w/ beer. He also

like this had great conversation about methods

had over the and sharing of field work. Myra - the

details of Paul's project, but we'll need more

details of our progress. We'll need more

we'll need more details of our progress.

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we'll need more details of our progress.

1/10/00

at 11:00 and arrived at the camp  
 17:00 after getting a good fire  
 decided to use the camp. It was  
 pretty expensive (1000/night) but ok.  
 so we had to move the wet day. Lesson: reserve

Site #1: CAN. M. N. D. P. K. P. K.

water was surprisingly warm! Good evening weather  
 and pepper with a can of tuna. We ate and then

water but no new wet. lots of kitchen stuff wet  
 and the wood about me but Tom and I  
 were fed back holes. My trap line was set on

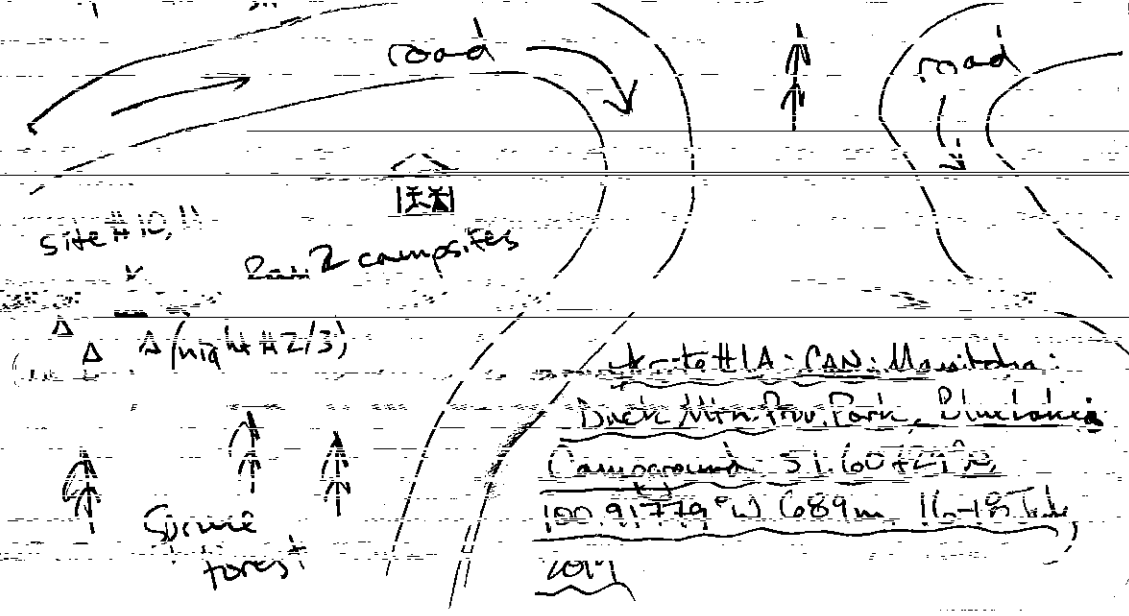
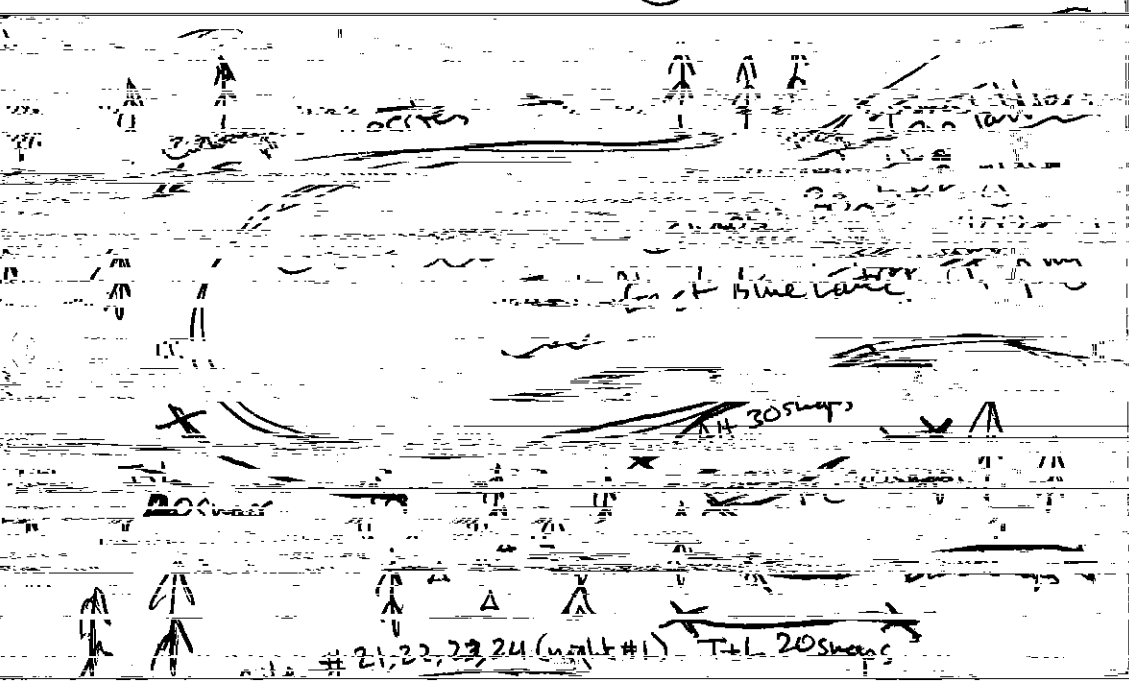
Town

Archeo. of Hano

Waters close in dead areas and around. Trace  
set up for... T.L. set up...  
Great edge... both lakes and...

~~Transcribed notes...~~

1. Zapiz highlands  
2. Michoacan



to #1A: CAN: Manichia:  
Duch. Min. For. Park, Pucallanca  
Campground 51.60 45.25  
100.91 719.41 689m 16-18.1.14  
1007

We set up the pop tent and processed the [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 on up the some level and the [unclear] [unclear]  
 moved all our stuff and reset camp at site #10/11.  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 but we had to break in an to move at least  
 Once we were situated we [unclear] [unclear]  
 site searched [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 and [unclear] [unclear]

A SHELL CAN [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]

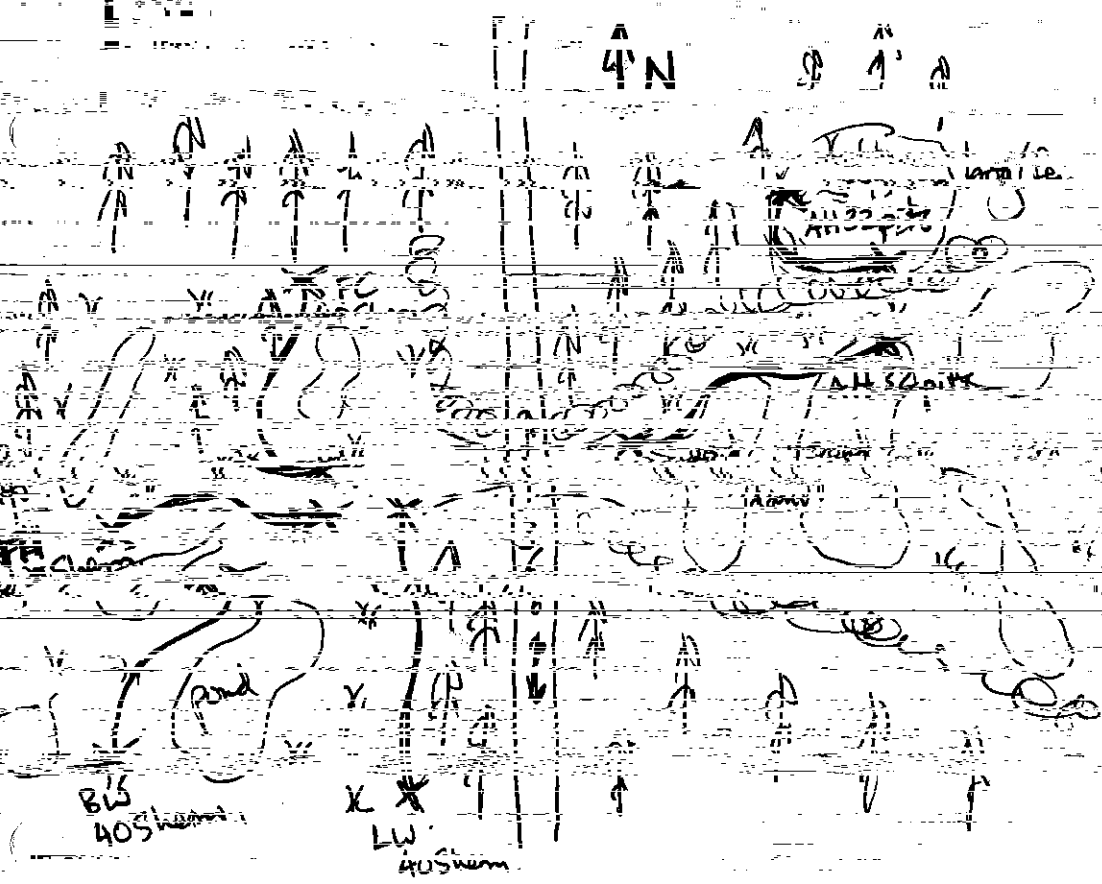
with [unclear] [unclear] [unclear] [unclear] [unclear]  
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 with middle high [unclear] [unclear] [unclear] [unclear]  
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and [unclear] [unclear] [unclear] [unclear] [unclear]  
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 [unclear] [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 a 2-track leading to a high dry "alpine" type  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]

4050519 1050

Small Td. on 366; 51.58308°N, 100.85122°W, 679m  
T=20 July 2019

~~The ground was quite wet and muddy  
at the start of the morning. It had  
rained overnight. The water was very  
still by 18:30. The birds were  
seen in the camp area. Had some  
pigeons and some other birds.~~



Small Td. on 366; 51.58308°N, 100.85122°W, 679m  
T=20 July 2019

# Journal



Singush Jet. 02/16  
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- 1. *Melospiza penicillata*
- 5. *Myiopsitta monina*
- 1. *Zenaidura macroura*
- 3. *Tyrannus verticalis*

TOTAL = 10 captures Diversity = 4 species

... ..  
 ... ..  
 ... ..



Panel

11/11/9.

25. *Microtus pennsylvanicus*

4. *Capus hudsonius*

5. *Microtus agrestis*

2. *Sorex caurus*

7. *Rhombus borealis*

1. *Synaptomyia borealis*

1. *Tamias me. mex.*

TOTAL = 44 captures Diversity = 8 Species

3. *Sorex nanus*

1. *Microtus agrestis*

1. *Microtus pennsylvanicus*

TOTAL = 6 captures Diversity = 3 Species

breakfast then processing by ~10:00. Traged some

Should be 11:00 AM

with car and friends staying at camp. On and off

back in the field by 1:00 PM

processing by ~1:00 PM time of post-graduate

and the rest of the day was spent

19 July 2017 (Friday) 11:00 AM

but very wet ground / grass. Very pleasant checking

traps. Sorex nanus was seen

1. *Sorex nanus* 1. *Microtus agrestis*

1. *Microtus pennsylvanicus*

Andrew G. Hope

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- 1. *Sorex monticola*
- 2. *Sorex caninus*
- 14 *Microtus pennsylvanicus*
- 2 *Microtus pennsylvanicus*
- 5 *Peromyscus maniculatus*

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- 1. *Sorex araneus*
- 2. *Sorex araneus*
- 2. *Myodes gapperi*

*Microtus pennsylvanicus*

*Microtus pennsylvanicus*

2nd. *Sorex araneus*, *Myodes gapperi*, *Microtus pennsylvanicus*  
 and all the *Sorex* were held but not  
 collected. But after long day

1. *Sorex araneus*

2. *Sorex araneus*

2. *Sorex araneus*

11. *Zapus hudsonius*

22. *Microtus pennsylvanicus*

1. *Synaptomyia borealis*

1. *Microtus pennsylvanicus*

1. *Microtus pennsylvanicus*

1. *Microtus pennsylvanicus*

2. *Microtus pennsylvanicus*

1. *Tamias merriami*

3. *Zapus hudsonius*

*Microtus pennsylvanicus*, *Microtus pennsylvanicus*, *Sorex*

noon. But want to go out and some sun while  
 processing. *Microtus*, *Zapus*, *Microtus*  
 thing up and then come out for 2 to #2

Andrew G. Hope

~~Trapping Station~~  
~~NOTE: see 10/17~~

$$\text{Sum} = (25 \times 2) + 2(20 \times 2) = 280$$

~~Site #12~~

~~Site #10~~

$$\text{Sum} = (40 \times 3) + 3(40 \times 3) + 3(40 \times 3) = 480 + 360 + 360 = 1200$$

~~10/17 - 1505~~

Capture Tables: Site #1: Dick Hill Park

- 26 *Zapus hudsonius*
- 21 *Myodes penns.*
- 3 *Tamias l.*
- 60 *Microtus pennsylvanicus*
- 2 *Sturnella borealis*
- 2 *Turdus m.*
- 1 *S. o. l.*
- 1 *S.*
- 2 *Phoenicurus*
- 1 *S. l. j.*
- 2 *S. v.*

~~10/17 - 1505~~

We made work in the field in the afternoon

4 - 11 - 217 C - 11 11 6  
In west part of blue lake, lots of white birds  
over a hill with red soil mixed with sand. 11/11  
down at 11:00 AM with some of the birds  
11/11  
was a 7:00 PM from St. Lazare follow road across



Journal

Arden, 6/11/00

Went out to trap and baited to look for  
Mule deer, mule deer sign, and set traps.

21 Jul 2000. Left @ 07:00. Had good luck

with the south stream. There are a few signs  
but no deer sign along fence lines. The forest on the  
north bank is a dense forest of oaks and pines.

At 11:30 AM we went to the south stream.

Went to the south stream. There are a few signs  
but no deer sign along fence lines. The forest on the  
north bank is a dense forest of oaks and pines.

along creek to the end of the road at a fence line and

set 3 lines of 25 traps (with the traps on the  
edge [east woods down S facing slope]) and 400 yards

of oak and last night 24 traps along creek had

to find good ground to dig holes in the  
area around the creek. We set traps along the creek.

There were a few signs of deer in the area. Set traps along the creek.

Went to the south stream. There are a few signs  
but no deer sign along fence lines. The forest on the  
north bank is a dense forest of oaks and pines.

rabbits along the road. Went to shoot some  
in the area. There were a few signs of deer in the area.

Went to the south stream. There are a few signs  
but no deer sign along fence lines. The forest on the  
north bank is a dense forest of oaks and pines.

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Went to the south stream. There are a few signs  
but no deer sign along fence lines. The forest on the  
north bank is a dense forest of oaks and pines.



at ~21:00. Bed shortly after A great day.

Town Point, Ste 2, NCC, Ft. Ell, 22 Jul 2014

2. *Sorex hoyi*

3. *Sorex*

1. *Sorex* (unidentified)

5. *Blarina brevicauda*

7. *Peromyscus*

4. *Thomomys*

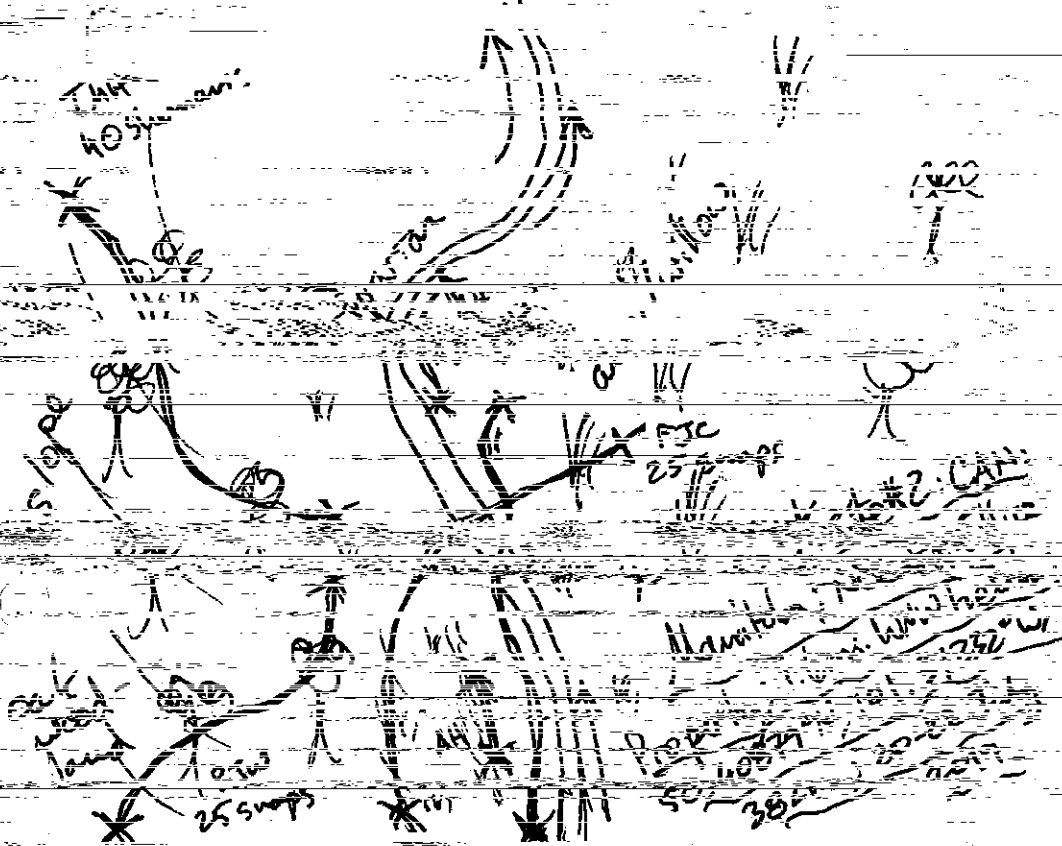
III. *Microtus pennsylvanicus*

3. *Zapus*

6. *Microtus*

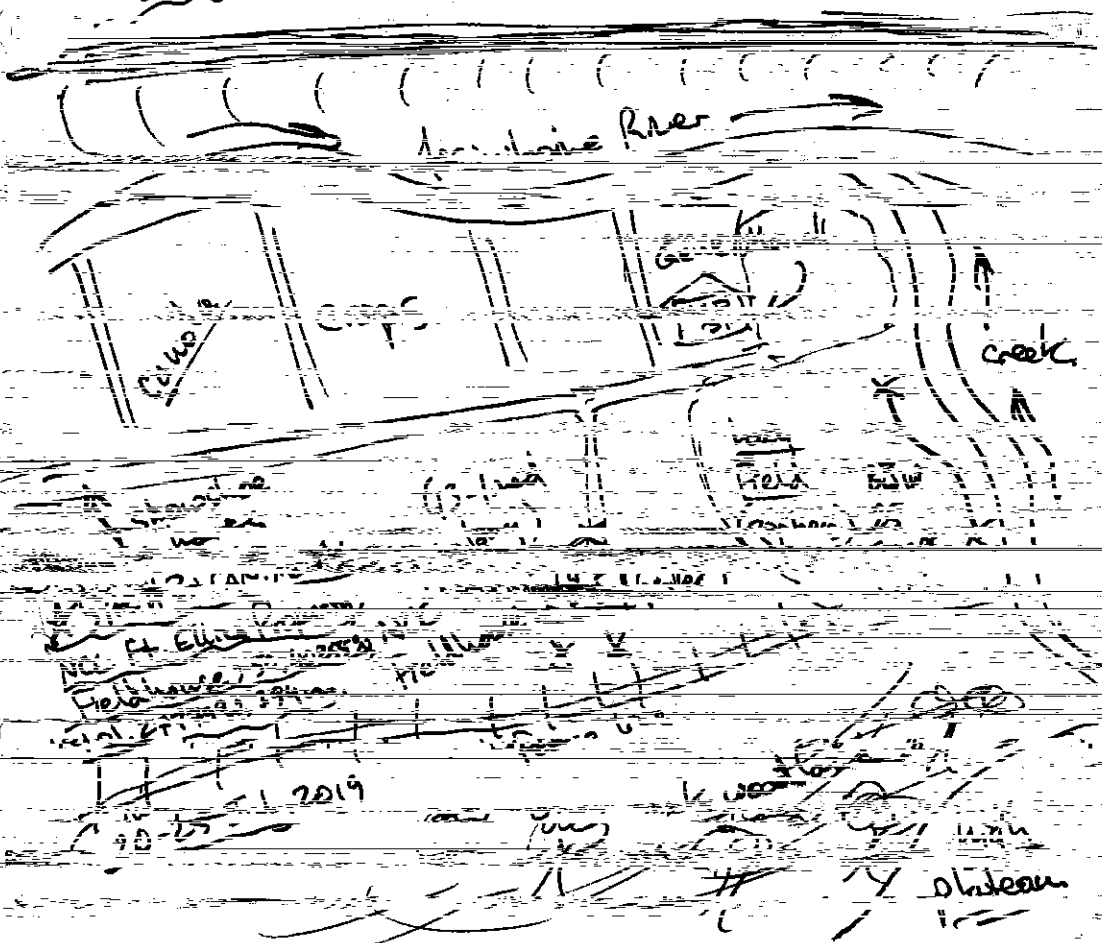
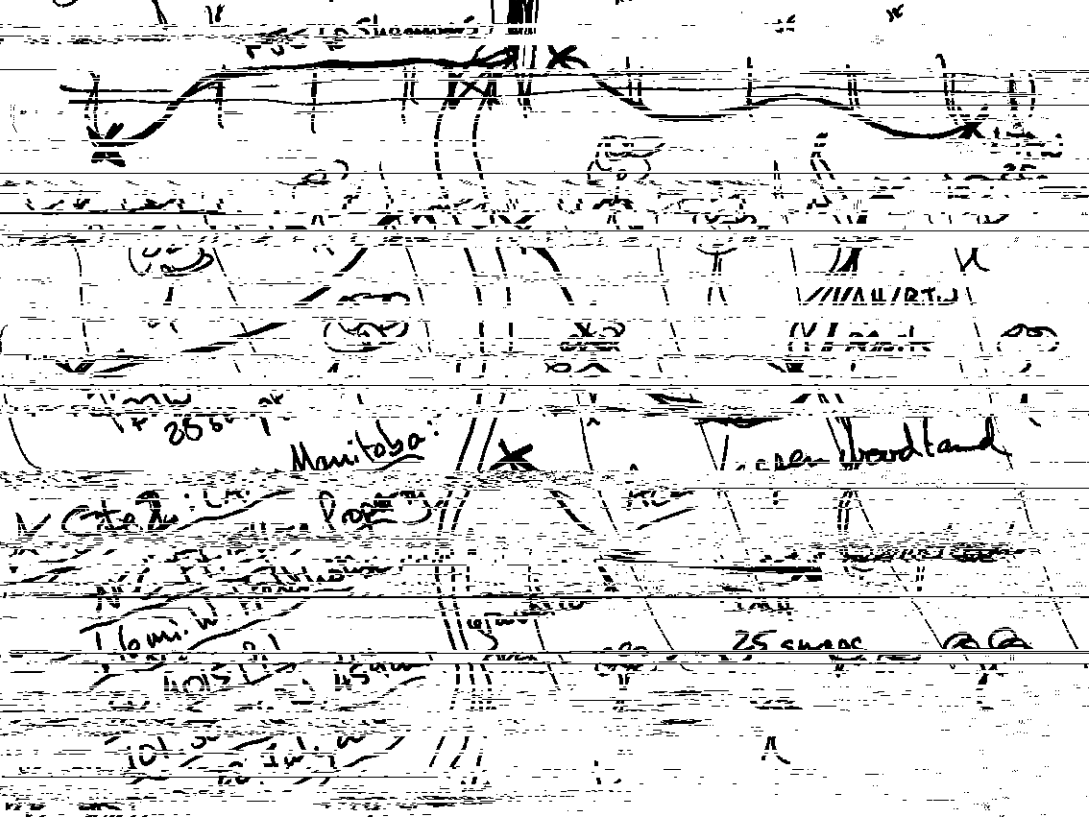
5. *Lepus sylvaticus*

~~Microtus pennsylvanicus~~





Corrected line  
Dian  
Andrew G. Hope



10/22/18

~~22 T~~  
~~at 10:00 AM~~  
~~onions and bell's and topped w/ cheese for breakfast~~  
~~burritos. We all filled up then hit the road @ 11:45~~  
~~to destination. Still in the morning sun and~~  
~~overcast and cool and calm. Morning sunny and~~

and pulled all traps then up to south Natesu.  
 got another 5 water shrews, 1 by creek, 4 up in woods.  
 all found water shrews and lots of other stuff.

- 3. *Sorex palustris*
- 1. *Sorex araneus*
- 1. *Sorex*
- 1. *M. ...*
- 1. *P. ...*
- 2. *M. ...*
- 2. *M. ...*

Took a long time to prep again today. Landed at  
 some place and found some small birds. I had  
 some traps for the birds. Then I went to the  
 west for a top of the tree up and then found a  
 large red water of rock. The one left was at  
 6400 ft and was very small.

woodland and shrubbery willow and shrubs to get

collected birds a mile to the ...

hill ... Bill

to ...

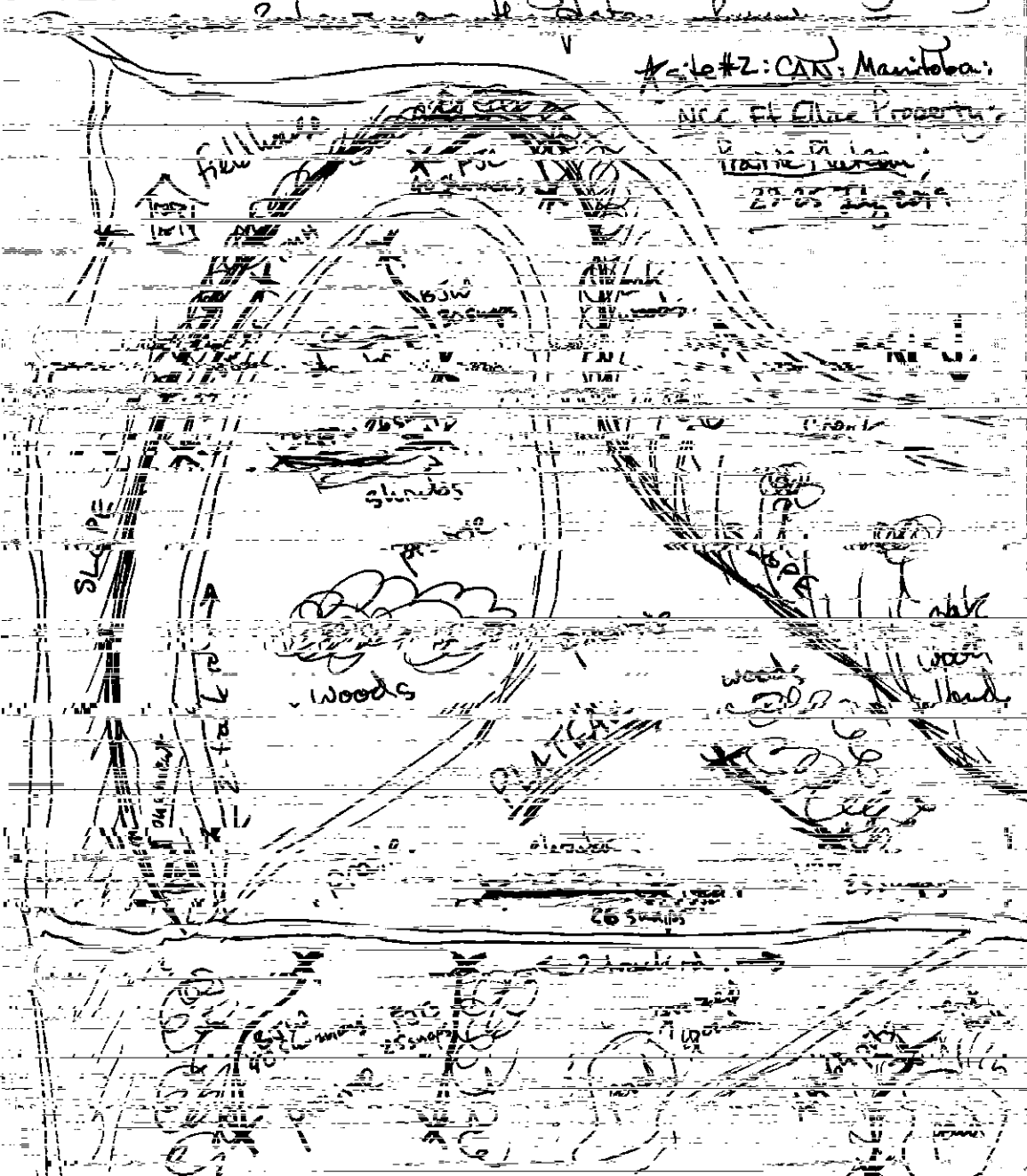
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Site #2: CAN, Manitoba

NCC EE Elise Property

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Monday 16 June

~~24.7.2019~~ ...

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1. *Sorex heurdeni* (possibly)

4. *Sorex araneus*

2. *Sorex araneus*

3. *Sorex araneus* (again up in ...)

1. *Sorex araneus*

2. *Blarina brevicauda*

2. *Microtus pennsylvanicus*

6. *Lepus timidus*

1. *Peromyscus maniculatus*

1. *Tamias minimus*

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USFWS then send a copy to me for an crossing and  
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25 July 2019 - ... ..  
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Andrew Gilgore

March 10, 1900. A cloudy day, working for rice  
 through a field. A crowd of birds, mostly  
 stopped by a stand of young rice plants and  
 interested and the lead wanted to keep in the top  
 of the stand. A few birds were seen in the  
 rice field and a few more in the  
 meadow and garage who had been there some  
 time.

T. P. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

- 1. *Enceladus*
- 5. *Sarcophaga*

- 10. *Microtus pennsylvanicus*
- 1. *Trochilidae*
- 1. *Merula*
- 1. *Sorex*
- 3. *Blarina*
- 1. *Neotoma*
- 1. *Peromyscus maniculatus*
- 1. *Thomomys*

We drove through St. Louis, and then to the  
 lake and then to the north. The night is  
 very dark and the road is very rough. The  
 road is very narrow and the cars are very  
 close together. The night is very dark and  
 the road is very rough. The road is very  
 narrow and the cars are very close together.

Have enough for one more side. Then drove on  
 to the first road at the head west and then west  
 for a couple miles the road is very rough and  
 the night is very dark.

Tapping Tables Site #2: Fl. Cl. D

$80 + 80 + 80 + 80 = 240$

Snaps:  $((25 \times 3) \times 2) + ((25 \times 3) \times 2) + (25 \times 2) + (20 \times 2) + ((25 \times 3) \times 2) + (30 \times 2) + ((26 \times 2) \times 2)$

Graphs: = 10

2 to 12 = 21

Pits:  $(24 \times 2) + (80 \times 2) + (64 \times 2) = 48 + 160 + 128 = 336$

Handouts:  $3 \times 1 = 3$

Total = 336 + 240 + 10 + 21 + 3 = 630

\* Capture Table Site #2: Fl. Cl. D

53. *Micropus pennicillatus*

14. *Micropus agilis*

17. *Intellus intermedius*

4. *Thomomys alpinus*

9. *Sorex minutus*

6. *Sorex hoyi*

12. *Sorex coronatus*

1. *Sorex monticola* (possibly *S. coronatus*)

11. *Dipodomys deserti*

10. *Sorex araneus*

1. *Sorex hudsoni* (possibly *S. coronatus*)

10. *Lamias minimus*

6. *Sorex*

1. *Lamiasorex hudsonius*

(Forgot to mention, lots of snow this winter along the

Set some cage traps with bait with shovels in the

back. Also, I had a few shovels with me (I had

Andrews. Hope

1. The house is the end of a long road  
 which is a long road. The road is  
 still. Some of the road is  
 small road up to the top here and the road of red  
 woods w/ green (1.) red along the river. There is a trail  
 post at the end of the road. It is made of the wood and  
 some trail decorations. Looks like a possible riverbed  
 still. Still not easy to walk across and mostly with a deep  
 channel. There are some trees with a narrow  
 log fish trap abundant insects. Not deer but  
 not much. There are some tracks. 2 tracks  
 S. of the post and Paul's house. 2 tracks in 20.  
 I could have made over a road to the N. but  
 but good is a bit of a trail. It is a good  
 good camp site. Not south of ours though further  
 from the river.

Site #3. Can't find it. Some of the road is  
~~Site #3. Can't find it. Some of the road is~~  
~~Site #3. Can't find it. Some of the road is~~  
~~Site #3. Can't find it. Some of the road is~~

We were well and not in it. All cat. 1  
 deer. The house is a long road. The road is  
 still. Some of the road is  
 work in some places but some of the  
 the water. It is a long road. The road is  
 some? No one of the road is  
 so I pitched down by the water. A well, clean  
 spot. Sign of beaver, muskrat, and  
 paper and deer. Bed by 22:00





\* site #3: CAN...  
 Sains Kien beyond (W101) to... Area: Camp.

Latitude Camp:  $99.4047^{\circ}W$ ,  $75.2471^{\circ}N$

26 July 2019 - 1 hour @ 07:00. Collections started

through lots of meadows... at camp's location

towards... in... We passed...  
 specimens then went to set more traps...

...we will take...  
 ...we passed...  
 ...we set...

...we set...  
 ...we set...

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~~11. 10. 1900. ...~~  
~~12. 11. 1900. ...~~  
~~13. 12. 1900. ...~~  
~~14. 1. 1901. ...~~  
~~15. 2. 1901. ...~~  
~~16. 3. 1901. ...~~  
~~17. 4. 1901. ...~~  
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~~19. 6. 1901. ...~~  
~~20. 7. 1901. ...~~  
~~21. 8. 1901. ...~~  
~~22. 9. 1901. ...~~

Trapping Results: 27th Nov. 1900

- 1. *Sorex hoyi*
- 27 *Microtus pennsylvanicus*
- 2 *Xenomys macrotis*
- 1 *Fiber zibethicus*

- 2. *Ictidomys tridecemlineatus*

27 Nov 1900. ...  
 Sorex line from old barn. Lots of ants water's. A few

numbers seen but checked 2000. 13:30

kill 1 rat on 1st tent ...

checked. Spoke to Lyda briefly. Others with ...  
 or caught up on data. Foster walked to South Camp

...  
 ...

T. P. H. St. 47. C. D. P. Level 20 T. H. A.

12. *Myodes gapperi*

4. *Peromyscus maniculatus*

1. *Zapus hudsonius*

4. *Microtus pennsylvanicus*

TOTAL = 21 captures

29 Jul 1919 - Wed. at 06:00 A.M. at 07:00 A.M.

then all the night all traps checked but a small

catch but probably from the traps of camp

at night. The traps were set out at 10:00 P.M.

and all the traps were checked at 06:00 A.M.

and a small catch was made at 07:00 A.M.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

at the next site.

7. *Microtus pennsylvanicus*

1. *Peromyscus maniculatus*

1. *Microtus pennsylvanicus*

TOTAL = 21 captures

Andrew G. Hesse

Town Talk, Sept 3: Swamp Road: 25295

$(25 \times 2) \times 3 = 150$   
 $(30 \times 2) + (25 \times 2) + (20 \times 2) = 150$   
 Snaps  $((25 \times 2) \times 3) + (40 \times 2) + ((25 \times 2) \times 2) + (20 \times 2) + (25 \times 2)$   
 $+ (20 \times 2) + (25 \times 2) + (20 \times 2) = 1048$

Legs: 2

TOTAL = 1048 trap nights

A Capture table: Sept 3: Swamp Road: 25295

- 1. *Sorex*
- 2. *Mizomys pennsylvanicus*
- 1. *Tamias*
- 1. *Peromyscus*
- 1. *Microtus*
- 1. *Thomomys*

No 3 - on the hill, the 2nd 10 and 1st 10...  
 I made a phone call and we checked email. Bad  
 noise from the university...  
 Location same as the last...  
 and...

Then north on Hwy 5 to...  
 Stopped @...

at progress for while the hospital the main camp  
vehicle permits for 200/day each way. Then we drove

to the camp they to a few spots that had sampled  
for some of the things that we had been looking for

at the end of the month we had a lot of  
the grassland/scrubland (phragmites, Avenaceae and

lots of other things that we had seen in the  
area that bordered both private land and

country but we had not seen any of the things  
that we had been looking for

at the end of the month we had a lot of  
the grassland/scrubland (phragmites, Avenaceae and

~~For 1st, 2nd, 3rd, 4th, 5th, 6th~~

27 June - 28 June 2017

~~Left at 10:00 AM for the 1st station. The~~

~~to reach a small bend where we~~

~~with the driver of a van and~~

~~leaving the rest of the morning.~~

~~at the end of the road, I~~

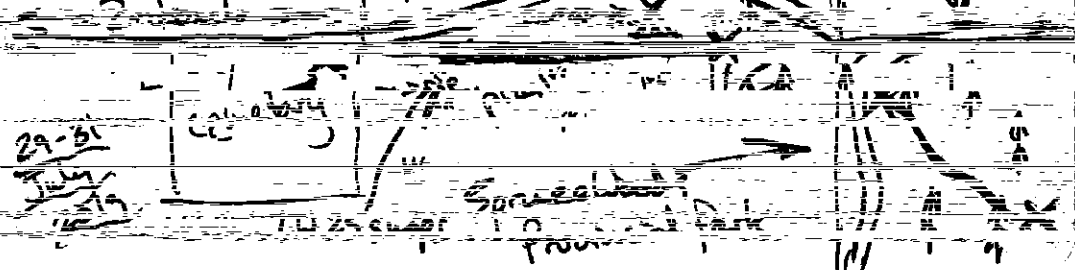
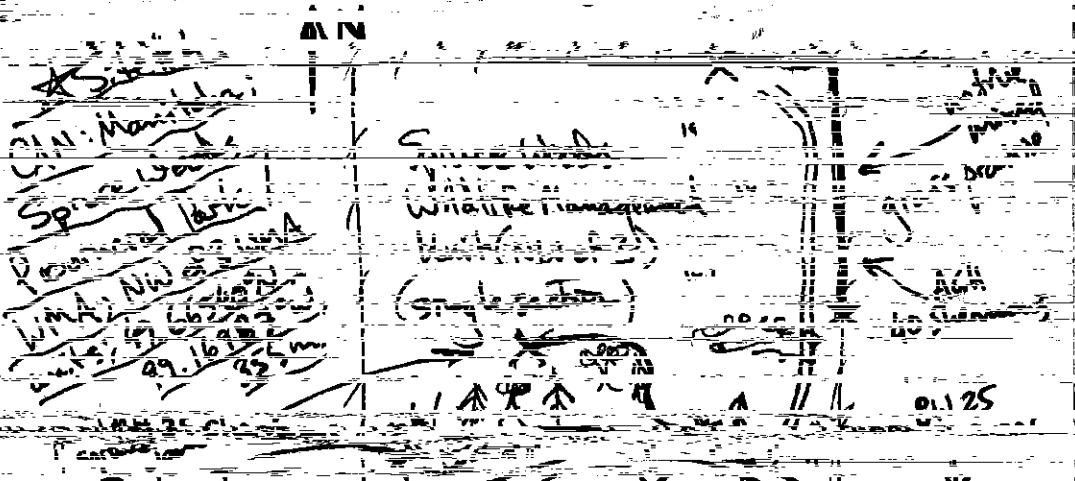
~~area and set up a 40m~~

~~at the corner of present park~~

~~then bed @ 2:15 PM~~

~~some of the day's work~~

~~left road to camp up the~~



Andrew G. Hare

but he reached the bank by 10:00 AM  
then I will see you at 11:00 AM and then

at 11:00 AM I will see you at 11:00 AM  
at 11:00 AM I will see you at 11:00 AM

and some birds were seen in the  
area. The birds were seen in the area.

at 11:00 AM I will see you at 11:00 AM  
at 11:00 AM I will see you at 11:00 AM

Looks like a small stream with some water  
in it. The water is clear and the stream is

at 11:00 AM I will see you at 11:00 AM  
at 11:00 AM I will see you at 11:00 AM

at 11:00 AM I will see you at 11:00 AM  
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at 11:00 AM I will see you at 11:00 AM

at 11:00 AM I will see you at 11:00 AM  
at 11:00 AM I will see you at 11:00 AM

- 1. *Junco hyemalis*
- 2. *Merula migratoria*
- 3. *Merula migratoria*
- 4. *Merula migratoria*
- 5. *Merula migratoria*
- 6. *Merula migratoria*
- 7. *Merula migratoria*
- 8. *Merula migratoria*
- 9. *Merula migratoria*
- 10. *Merula migratoria*
- 11. *Merula migratoria*
- 12. *Merula migratoria*
- 13. *Merula migratoria*
- 14. *Merula migratoria*
- 15. *Merula migratoria*
- 16. *Merula migratoria*
- 17. *Merula migratoria*
- 18. *Merula migratoria*
- 19. *Merula migratoria*
- 20. *Merula migratoria*

at 11:00 AM I will see you at 11:00 AM  
at 11:00 AM I will see you at 11:00 AM

at 11:00 AM I will see you at 11:00 AM  
at 11:00 AM I will see you at 11:00 AM

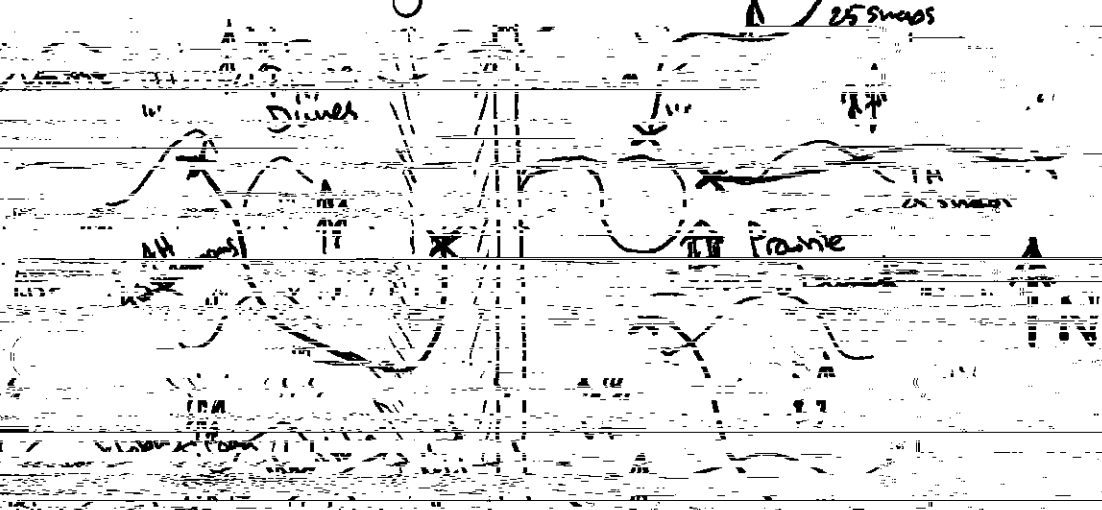
at 11:00 AM I will see you at 11:00 AM  
at 11:00 AM I will see you at 11:00 AM

at 11:00 AM I will see you at 11:00 AM  
at 11:00 AM I will see you at 11:00 AM



Andrew Gilmore

~~at the end of the day I went back to the tent at 18:00  
 and found it had been moved to a new site. I went  
 to the new site and found it was a good one. I  
 had a good night's sleep and in the morning I  
 found the tent had been moved again. I went  
 to the new site and found it was a good one. I  
 had a good night's sleep and in the morning I  
 found the tent had been moved again.~~



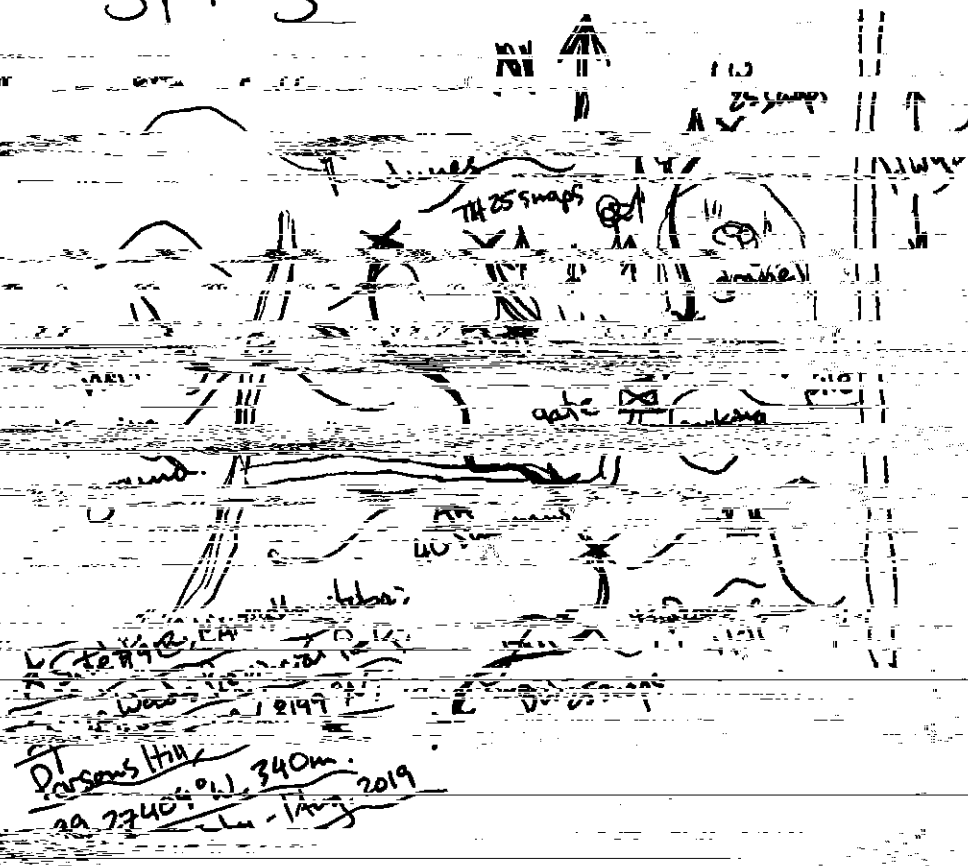
~~at the end of the day I went back to the tent at 18:00  
 and found it had been moved to a new site. I went  
 to the new site and found it was a good one. I  
 had a good night's sleep and in the morning I  
 found the tent had been moved again.~~

back to camp. I tried to catch some water a bit  
 but it was a bit dry. I went to the stream at  
 22:50.

31 July 2019 - Woke at 06:50 and see all clearing  
 and grassy areas. I went to the stream and found  
 some water. I went to the stream and found  
 some water. I went to the stream and found  
 some water.

A. American

busy prep day.

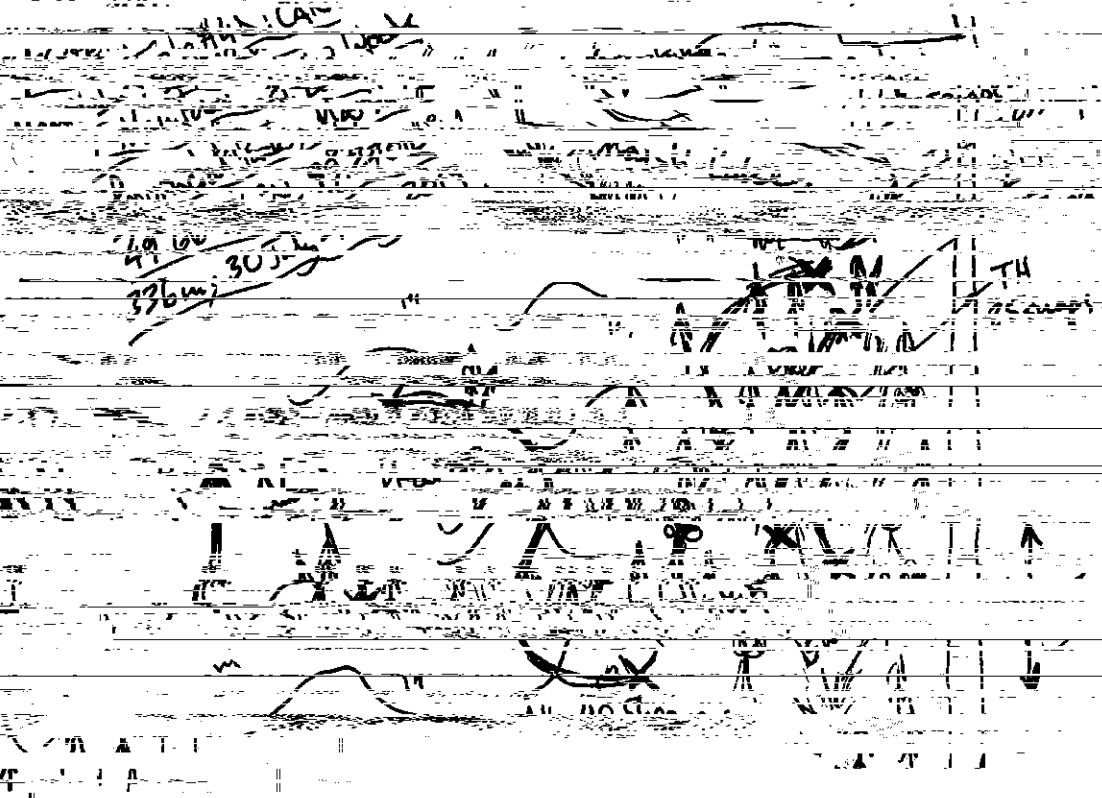


T. and S. to the State Space Unit - St. Jul 2019

- 10. *Microtus pennsylvanicus*
- 2. *Microtus pennsylvanicus*
- 30. *Peromyscus leucopus*
- 1. *Microtus ochroleucus*
- 10. *Tachycineta thalassina*

Total - 70 captures, DIVERSITY = 10 species

Anderson base



Anderson base was built in 1953. It was built on a hillside overlooking the sea. The base was built by the U.S. Navy and was used as a research station for the study of the atmosphere. The base was destroyed by a typhoon in 1962. The ruins of the base are still visible today.

Anderson base was built in 1953. It was built on a hillside overlooking the sea. The base was built by the U.S. Navy and was used as a research station for the study of the atmosphere. The base was destroyed by a typhoon in 1962. The ruins of the base are still visible today.

Ado - 6.4.19

2:00 (11.8 p. set a couple gophers)

- 1. *Urocyon v. cinereus*
- 13. *Mus mus*
- 7. *Lepus princeps*
- 22. *Peromyscus maniculatus*
- 3. *Hesperomys sonoriensis*

total = 53 captures, 1 species.

2 August 2019 - Wake @ 07:00. Coffee while others  
 collected at the beach. Then we went to the marina to  
 set up our traps and labeling tubes. We did  
 next 250 NK pages. Worked on this till 10:00.  
 Then we went to the beach to set traps.  
 We set traps at the beach and in the dunes.  
 We also set traps in the grass near the beach.

Coffee for us during and more beer than done  
 with a few in the car. Then we went to the beach  
 by 10:00. Stopped at the marina.  
 Then we went to the beach to set traps.  
 We set traps at the beach and in the dunes.  
 We also set traps in the grass near the beach.  
 We collected at the beach and in the dunes.  
 We also collected in the grass near the beach.

Andrew C. Hope

Phonetic transcription records where we studied for quality  
as on site #5. See C. T. H. p. 90

him previously and emphasized my non-adversary stance  
on character issues but he was keen to have us work  
within the local zone.

\* Site #5. Can. Manitoba, East Brantree, A. Rocha

2-10-83

... ..

... ..

... ..

... ..

... ..

... ..

... ..

The showed all had been...  
mosquitoes here at dusk, more than most places.

3 August 2017  
get up the garage for processing... We all checked  
with a...  
1. Sorex hayi  
1. Sorex caeruleus  
1. Sorex...

Sherrings:  $(40 \times 2) + (25 \times 2) + ((40 \times 2) \times 3) = 310$   
Sops:  $(25 \times 2) + (25 \times 2) = 100$   
Cage traps = 4  
total = 414 trap nights

Auburn College

~~Notes taken at the ...~~

- 3 ~~...~~
- 6 ~~...~~

26. ~~...~~

- 11 ~~...~~
- 12 ~~...~~

13. ~~...~~

14. ~~...~~

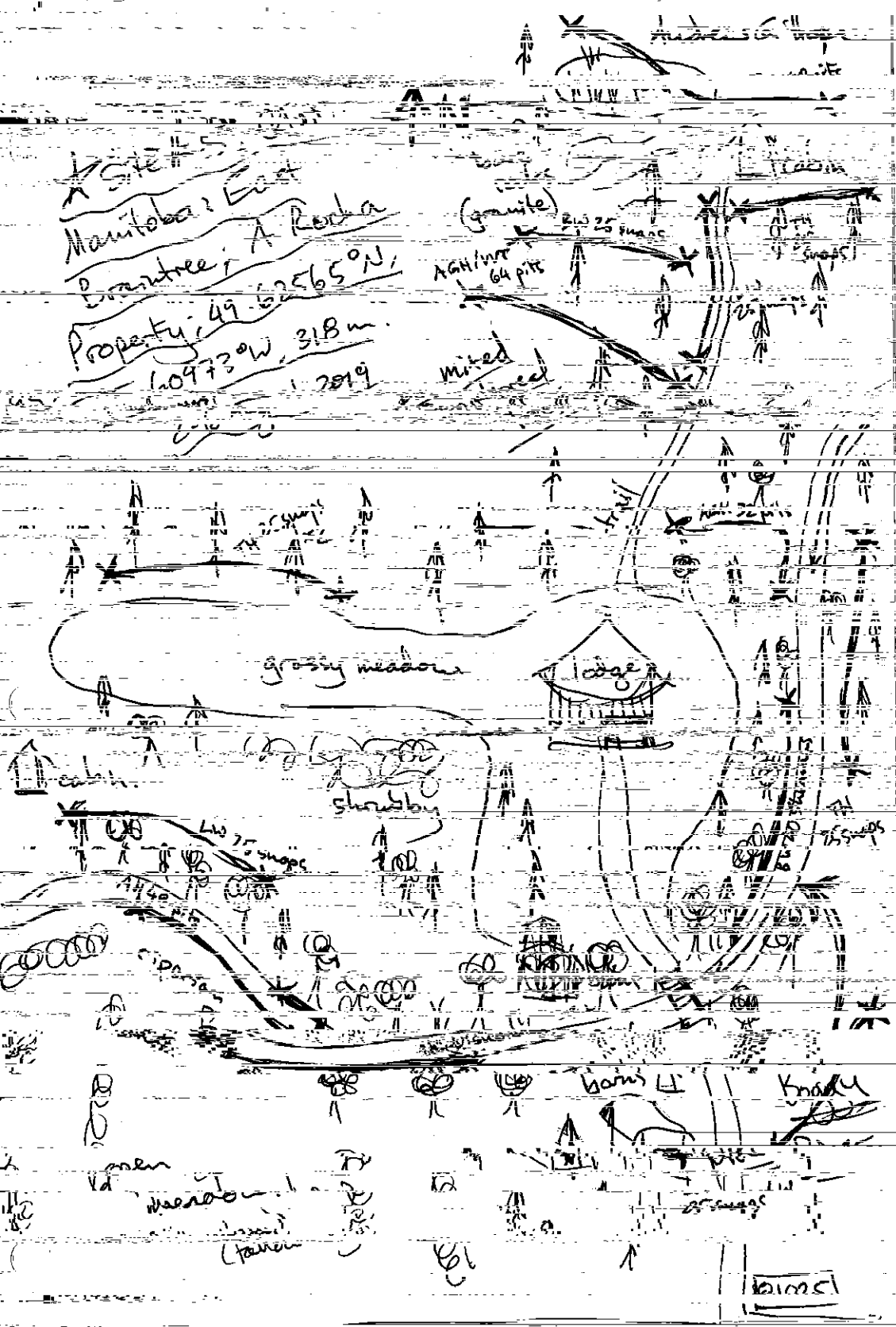
1. ~~...~~

TOTAL = 151 captures, DIVERSITY = 16 SPECIES

After writing notes I took 48 at insect about the  
 (marked) insect - lots of *Am. Sherman's* etc.  
~~...~~  
 found about, the one I caught had the ... in  
 ... to ... to see it ... to ... and he  
 ... The ...

to ... 20:30 ... dinner  
 ... with some ...  
 ... but lots of diversity ...  
 ... forest. Also I caught an emme in a Sherman  
 trap by the river. Lots of mammal prints in the mud  
 ...  
 ... with longer tails and big ears  
 ... in open forest (open fields)

Site #  
 Manitoba East  
 Brantree A Rocka  
 Property: 49.62565°N,  
 109.73°W, 318 m.  
 2019



Brean River Road





March 12, 1954

main but a few fresh ones with good worms. A few lot of species remain but mainly a few quills. We got both water voles and bog lemmings on my boggy pitfall like record until 10:00

~~transmission records: the first of the structure...~~

10. Sorex araneus

- 1. Sorex hoyi
- 2. Pseudomys iniquus
- 2. Synaptomys cooperi

11. Galvocomys sabini

- 2. Zapus princeps
- 5. Microtus pennsylvanicus
- 5. Tamias striatus

~~March 12, 1954  
Vasylyshyn, Stepanchuk, and I~~

Vasylyshyn went to collect blueberries while we

~~... ..~~

~~... ..~~

Caught a couple more of the same species. The

~~... ..~~

~~... ..~~

~~... ..~~

~~... ..~~

collect pitfall. A few shrews and bog lemmings. The

~~... ..~~

~~... ..~~

~~... ..~~

A Pocha property. The house is located at pitfall

at ~10:45. Vasylyshyn followed us to Stepanchuk then went home

Andrew G. Hae

Trapping Results: Site # 5: East Brantree, 6 August 2019

- 4 Sorex voles
- 1 Sorex hoyi

1 Microtus pennsylvanicus

~~TOTAL = 7 captures~~

Shannons:  $(60 \times 2) + (60 \times 2) = 160$

~~$(18 \times 4) + (18 \times 4) + (18 \times 2) + (18 \times 2) = 144$~~   
 ~~$+ 12R + 9R + 12R = 42R$~~

rat traps: 4

cogetraps:  $4 \times 2 = 8$

~~TOTAL = 12/11~~

~~Trapping Results: Site # 1: ...~~

4 Sorex hoyi

1 Microtus pennsylvanicus

1 Blarina brevicauda

1 Tamias lundgovi

2 Zapus princeps

2 Peromyscus  
usque

11 Peromyscus maniculatus

12 Microtus pennsylvanicus

5 Tamias striatus

1 Callospermophilus

2 Millonotis

~~TOTAL = 67 captures~~

~~Shannons = 114.0~~

again was available tracked for the report and  
 network but was not able to obtain any data the  
 number of Bob had seen was agreed to be best to  
 speak with. Then we grabbed a snowway saw with us  
 to take out as it to open Bob's hole in the ground  
 from Cote, then we headed west to the TRC  
 Tallgrass Prairie Preserve Interpretive Center, arriving at  
 working as good as Cooper for the children and looking  
 down with Timorov. Then snow winging showed up  
 with Jim Renner who had just picked up a Stern-  
 back. Jim is an expert taxidermist and great guy.  
 We all talked for a while. Showed them some of  
 our Stern collections. Then we walked the short  
 distance to the Interpretive Center and visited

Site #10: CTR: Main Road N1 - Tallgrass Prairie  
 Preserve: 41.15277, -101.2402, 11.7 05

Aug 11, August 2014

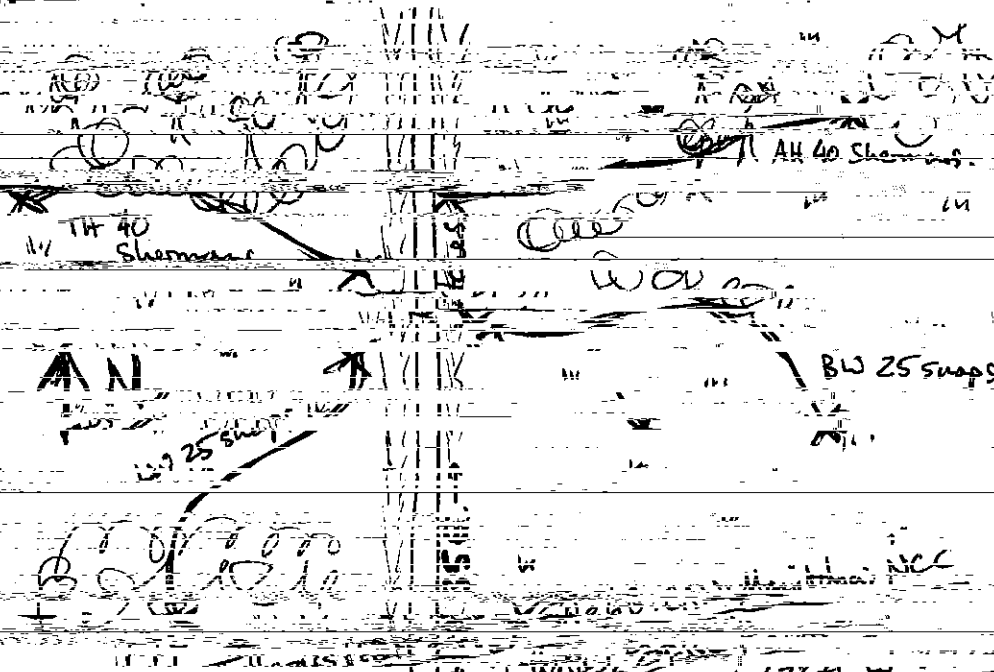
This is a little more to the west than we have  
 been. Long grass, very tall, C. P. 1. 233  
 areas. Also lots of shrubs and deciduous, mostly  
 (burr oak). I guess there are lots of things left  
 though the area is the same for miles. The  
 but it's still pretty wet. Topping grasses look  
 and for a while in some places. I think that  
 some dwarf birds around too. We worked all the  
 trapping and prep gear behind the machine shed at the  
 the shed. The worked all the other shed around



H. ...

...  
Should include ...  
all ...

...  
...



Headed back to the  
I.C. the get some more ...  
Town located at the ...  
north at the section edge along a large drainage  
ditch. It was ...  
with a ...

I set up a very short pit line north of the center.  
After setting we scouted some gopher spots in the

Andre G. Hore

area, both north and south of the Poreau River

Tim directed us to a recently burned field  
SOL at ~13.5 mi. N, on the road. We found mounds  
in the vicinity of 49.20370 N, 46.74850 W. 200

the TOE and Beomyx south but these mounds are  
low and flat

past Tolstoi and east on 411 for 15 miles to post  
SOL, vicinity of 49.20370 N, 46.74850 W. 200

old oil buildings. Numerous "potholes" mounds are  
10 gopher traps so marked this locality for the

gopher traps so marked this locality for the  
gopher traps so marked this locality for the

gopher traps so marked this locality for the  
gopher traps so marked this locality for the

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gopher traps so marked this locality for the

gopher traps so marked this locality for the  
gopher traps so marked this locality for the

[Aude to base]

~~... called Bob ...~~  
~~... the ...~~  
~~... the ...~~  
~~... the ...~~  
~~... the ...~~  
~~... the ...~~

the others to ... into ...  
 signed and waiting when I ...  
 Bob briefly about our work and successes and he  
 seemed interested and glad to help. Then he ...  
 back to NCC ...  
 The ...

Trapping results: Site #6: NCC Tally ... 8 August 2019.

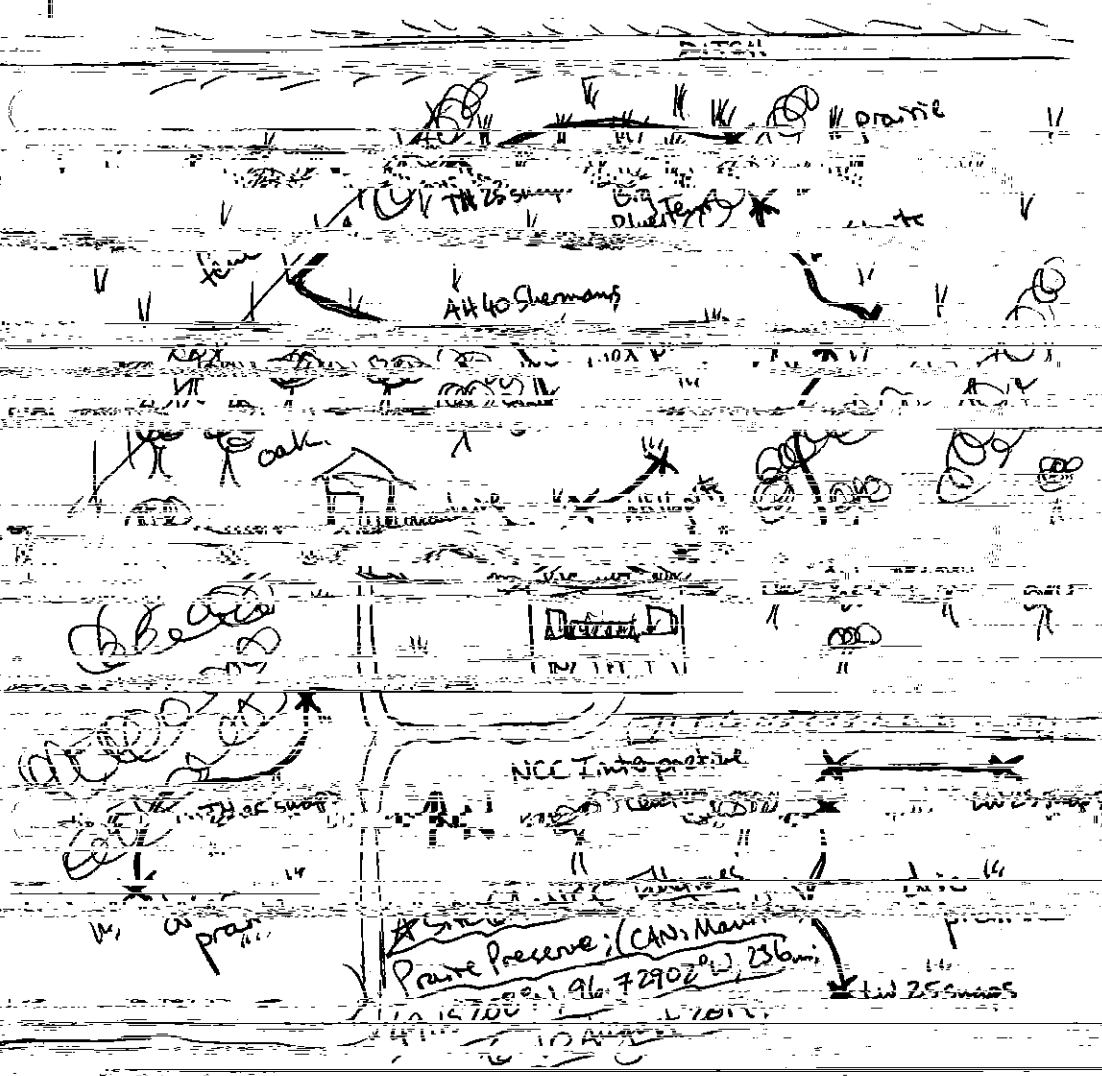
10 *Sorex* ...

3 *Sorex* ...

4 *Mus* ...

Ben ...  
 traps there. Really deep tunnels, some ~ 2 ft ...  
 Turn ...  
 cloud. ...





9 August 2019 - Wake @ 06:30. Coffee. (All the gopher activity is over in my notes and I'm over to put on our cast site for the day. I caught 3 Lepus or Shermans. Weird! then picked up all the traps. Re-ville earth site. I started out for a while this trip. Not normal but no prob... (picked up these gophers on the site). Back to I. I pulled all traps except for the site they're in. I sent all our specimen information to Joubertina and on Monday she reported all the data to the web site to report on 3-11+ form. He then called the Prairie

Andreas Grotzge

Journal

~~Handwritten notes, mostly illegible due to blurring and crossing out.~~

~~Handwritten text, possibly a date or location.~~

~~Handwritten text.~~

- 1. *Sorex hagdani*
- 2. *Caomys hirsutus*

*Petdomys tridecemlineatus*

- 3. *Fomys hullemani*

Handwritten text below list item 3.

Handwritten text below list item 3.

Some good skins today too.

~~Handwritten notes, mostly illegible.~~

~~Handwritten text, possibly a date.~~

- 1. *Caomys hirsutus*

- 2. *Sorex araneus*

*Sorex araneus*

*Sorex araneus*

- 1. *Microtus pennsylvanicus*

~~Handwritten text at the bottom of the page.~~

$(65-2) \times 3 + (25-2) \times 2 + (25-2) \times 2$   
 $= 150 + 100 + 100 = 350$   
 $(40-2) \times 2 + (10-2) \times 2 = 72$   
 PITS:  $(64 \times 3) + (10 \times 3) = 192 + 30 = 222$   
 Gaps:  $(10 \times 2) + 10 = 30$   
 Kate: 4

\* Captive Tallies: Site #6: NCC Tallgrass, 6-10 August 2019.

- 5. *Mustela erminea*
- 1. *Mustela erminea*
- 4. *Geomys bursarius*

TOTAL = 912

We processed until 12:00...  
 tagging gear...  
 at noon...  
 at 1:00 on Sunday morning (11th) take  
 201 west to 755...  
 at 12:45...

2011

1A155: 51.38508°N, 101.31021°W, 402m

1A156: 51.38508°N, 101.31021°W, 402m

1A157: 51.38508°N, 101.31021°W, 402m

1A158: 51.38508°N, 101.31021°W, 402m

1A159: 51.38508°N, 101.31021°W, 402m

1A160: 51.38508°N, 101.31021°W, 402m

1A161: 51.38508°N, 101.31021°W, 402m

1A162: 51.38508°N, 101.31021°W, 402m

1A163: 51.38508°N, 101.31021°W, 402m

1A164: 51.38508°N, 101.31021°W, 402m

1A165: 51.38508°N, 101.31021°W, 402m

1A166: 51.38508°N, 101.31021°W, 402m

1A167: 51.38508°N, 101.31021°W, 402m

1A168: 51.38508°N, 101.31021°W, 402m

1A169: 51.38508°N, 101.31021°W, 402m

1A170: 51.38508°N, 101.31021°W, 402m

1A171: 51.38508°N, 101.31021°W, 402m

1A172: 51.38508°N, 101.31021°W, 402m

1A173: 51.38508°N, 101.31021°W, 402m

1A174: 51.38508°N, 101.31021°W, 402m

1A175: 51.38508°N, 101.31021°W, 402m

1A176: 51.38508°N, 101.31021°W, 402m

1A177: 51.38508°N, 101.31021°W, 402m

1A178: 51.38508°N, 101.31021°W, 402m

1A179: 51.38508°N, 101.31021°W, 402m

1A180: 51.38508°N, 101.31021°W, 402m

1A181: 51.38508°N, 101.31021°W, 402m

1A182: 51.38508°N, 101.31021°W, 402m

1A183: 51.38508°N, 101.31021°W, 402m

1A184: 51.38508°N, 101.31021°W, 402m

1A185: 51.38508°N, 101.31021°W, 402m

Trapline Coordinates, Cull. Mo. H1 2

2019

~~3 SW 15 49.482197°N 99.544750°W 304~~  
~~3 SW 16 49.482197°N 99.544750°W 304~~

~~3 SW 17 49.482197°N 99.544750°W 304~~

~~3 SW 18 49.482197°N 99.544750°W 304~~

~~3 SW 19 49.482197°N 99.544750°W 304~~

~~3 SW 20 49.482197°N 99.544750°W 304~~

~~3 SW 21 49.482197°N 99.544750°W 304~~

~~3 SW 22 49.482197°N 99.544750°W 304~~

~~3 SW 23 49.482197°N 99.544750°W 304~~

~~3 SW 24 49.482197°N 99.544750°W 304~~

~~3 SW 25 49.482197°N 99.544750°W 304~~

~~3 SW 26 49.482197°N 99.544750°W 304~~

~~3 SW 27 49.482197°N 99.544750°W 304~~

~~3 SW 28 49.482197°N 99.544750°W 304~~

~~3 SW 29 49.482197°N 99.544750°W 304~~

~~3 SW 30 49.482197°N 99.544750°W 304~~

~~3 SW 31 49.482197°N 99.544750°W 304~~

~~3 SW 32 49.482197°N 99.544750°W 304~~

5 SW 1E 49.62785°N 99.60313°W 313m

2 SW 1S 50.41173°N 99.79253°W 412

~~2 SW 1E 50.41173°N 99.79253°W 412~~

~~2 SW 1S 50.41173°N 99.79253°W 412~~

~~2 SW 1E 50.41173°N 99.79253°W 412~~

~~2 SW 1S 50.41173°N 99.79253°W 412~~

~~2 SW 1E 50.41173°N 99.79253°W 412~~

~~2 SW 1S 50.41173°N 99.79253°W 412~~

~~2 SW 1E 50.41173°N 99.79253°W 412~~

~~2 SW 1S 50.41173°N 99.79253°W 412~~

~~2 SW 1E 50.41173°N 99.79253°W 412~~

~~2 SW 1S 50.41173°N 99.79253°W 412~~

~~2 SW 1E 50.41173°N 99.79253°W 412~~

~~2 SW 1S 50.41173°N 99.79253°W 412~~

4 AH 1S 49.67004°N 99.16651°W 363m

1 AH 1E 49.67277°N 99.16765°W 257m

~~1 AH 1S 49.67277°N 99.16765°W 257m~~

~~1 AH 1E 49.67277°N 99.16765°W 257m~~

~~1 AH 1S 49.67277°N 99.16765°W 257m~~

1 AH 1E 49.67277°N 99.16765°W 257m

1 AH 1S 49.67004°N 99.16651°W 363m

1 AH 1E 49.67277°N 99.16765°W 257m

1 AH 1S 49.67004°N 99.16651°W 363m

1 AH 1E 49.67277°N 99.16765°W 257m

2019

4A45: 49.66536°N, 99.27014°W, 336m

4A46: 49.66517°N, 99.27240°W, 347m

~~4A47: 49.66536°N, 99.27014°W, 336m~~

5A1E: 49.62667°N, 95.60671°W, 310m

~~5A1F: 49.62667°N, 95.60671°W, 310m~~

~~5A1G: 49.62667°N, 95.60671°W, 310m~~

5B3S: 49.62742°N, 95.61462°W, 326m

~~5B3T: 49.62742°N, 95.61462°W, 326m~~

5B4E: 49.62597°N, 95.60750°W, 317m

~~5B4F: 49.62597°N, 95.60750°W, 317m~~

~~5B4G: 49.62597°N, 95.60750°W, 317m~~

6A2S: 49.15528°N, 96.72250°W, 277m

6A2E: 49.15528°N, 96.72250°W, 277m

6A3S: 49.17269°N, 96.67295°W, 281m

~~6A3T: 49.17269°N, 96.67295°W, 281m~~

~~6A3U: 49.17269°N, 96.67295°W, 281m~~

6A4S: 49.62582°N, 95.61322°W, 210m

6A4E: 49.62582°N, 95.61322°W, 210m

6A4C: 49.62582°N, 95.61322°W, 210m

6A1E: 49.62742°N, 95.61462°W, 326m

6A1S: 49.15451°N, 96.72788°W, 276m

6A1E: 49.15451°N, 96.72788°W, 276m

6A2S: 49.17391°N, 96.67363°W, 281m

6A2E: 49.17391°N, 96.67363°W, 281m

6A3S: 49.15304°N, 96.72773°W, 280m

~~6A3T: 49.15304°N, 96.72773°W, 280m~~

2019

1LTPW1S: 51.60766°N, 100.91186°W, 681m

1LTPW1E: 51.60785°N, 100.91136°W, 785m

1LTPW2S: 51.60855°N, 100.91872°W, 687m

1LTPW2E:

1LTPW3S: 51.60933°N, 100.91939°W, 681m

1LTPW3E: 51.60963°N, 100.91819°W, 680m

1LTPW4S: 51.65624°N, 100.84204°W, 674m

1LTPW4E: 51.55156°N, 100.84167°W, 675m

1LTPW5S: 51.56118°N, 100.84164°W, 678m

1LTPW5E: 51.56120°N, 100.84253°W, 679m

1LTPW6S:

1LTPW6E: 51.58373°N, 100.85030°W, 677m

2LTPW1S: 50.40859°N, 101.31301°W, 406m

2LTPW1E: 50.40859°N, 101.31271°W, 354m

2LTPW2S: 50.40859°N, 101.31215°W, 406m

2LTPW2E: 50.40862°N, 101.31181°W, 406m

2LTPW3S: 50.40190°N, 101.30315°W, 456m

2LTPW3E: 50.40266°N, 101.30402°W, 454m

2LTPW4S: 50.41018°N, 101.29617°W, 459m

2LTPW4E: 50.41021°N, 101.29425°W, 450m

2LTPW5S: 50.40346°N, 101.28346°W, 451m

2LTPW5E: 50.40346°N, 101.28346°W, 451m

3LTPW1S: 49.48322°N, 99.84994°W, 388m

3LTPW1E: 49.48322°N, 99.84994°W, 388m

3LTPW2S: 49.48016°N, 99.84964°W, 390m

3LTPW2E: 49.47938°N, 99.84970°W, 394m

3LTPW3S: 49.47850°N, 99.84985°W, 400m

3LTPW3E: 49.47761°N, 99.84936°W, 409m

4LTPW1S: 49.66522°N, 99.14885°W, 354m

4LTPW1E: 49.66522°N, 99.14885°W, 354m

4LTPW2S: 49.71013°N, 99.26510°W, 339m

4LTPW2E: 49.71144°N, 99.26461°W, 342m

4LTPW3S: 49.68301°N, 99.26777°W, 335m

4LTPW3E: 49.68301°N, 99.26777°W, 335m

~~41TPW1S: 49.11173°N, 99.26891°W, 318m~~

41TPW4E: 49.11724°N, 99.26813°W, 318m

51TPW1S: 49.62640°N, 95.61684°W, 306m

51TPW1E:

51TPW2S: 49.62502°N, 95.60808°W, 320m

51TPW2E: 49.62564°N, 95.60691°W, 318m

51TPW3S: 49.62710°N, 95.60811°W, 309m

51TPW3E: 49.62736°N, 95.60334°W, 310m

61TPW1S: 49.15161°N, 96.72718°W, 295m

61TPW1E:

61TPW2S: 49.15139°N, 96.72572°W, 283m

61TPW2E: 49.15071°N, 96.72784°W, 284m

61TPW3S: 49.17302°N, 96.10152°W, 305m

61TPW3E: 49.17180°N, 96.10200°W, 305m

2TH3S: 50.40953°N, 101.28695°W, 453m

~~2TH3E: 50.40805°N, 101.28695°W, 453m~~

2TH4S: 50.40505°N, 101.28188°W, 448m

2TH4E: 50.40307°N, 101.28258°W, 449m

3TH1S: 49.40389°N, 99.04187°W, 307m

3TH1E: 49.40364°N, 99.04300°W, 301m

3TH2S:

3TH2E: 49.40127°N, 99.05350°W, 410m

3TH3S: 49.47755°N, 99.04873°W, 373m

3TH3E: 49.47720°N, 99.04942°W, 387m

4TH1S: 49.66595°N, 99.27150°W, 341m

4TH1E: 49.66647°N, 99.27073°W, 342m

4TH2S: 49.70830°N, 99.25809°W, 347m

4TH2E: 49.70736°N, 99.25787°W, 342m

4TH3E:

4TH3S: 49.68302°N, 99.27131°W, 333m

4TH4S: 49.66655°N, 99.26862°W, 316m

4TH4E: 49.66611°N, 99.26880°W, 313m

5TH1S: 49.62510°N, 95.60596°W, 310m

5TH1E: 49.62575°N, 95.60596°W, 311m



5TH2S: 49.62658°N, 95.61742°W, 314m

~~5TH2E: 49.62727°N, 95.61742°W, 314m~~

~~5TH3S: 49.62727°N, 95.61742°W, 314m~~

5TH3E: 49.62755°N, 95.60087°W, 313m

5TH1S: 49.6298°N, 96.23148°W, 286m

6TH1E: 49.15288°N, 96.73323°W, 285m

6TH2S: 49.15563°N, 96.72064°W, 284m

6TH2E: 49.15550°N, 96.71902°W, 283m

6TH3S: 49.17360°N, 96.67513°W, 296m

6TH3E: 49.17522°N, 96.67802°W, 271m