

7530-00-222-3521

FEDERAL SUPPLY SERVICE

(GPO)

Brenda Tremper
CBCES - 1976

2/12/76 Transect^(#1) near Wier - Western Triangle
 Weather has been unseasonably warm -
 temperatures in the 60's (F). Decided to
 run baits on this short transect to see
 if anything were active. Transect
 begins at the edge of creek and
 goes uphill for 50m. Baited with
 tuna fish & karo syrup with bread
 crumbs - both baits at each station,
 one on each side of flag, 2m out.
 Day was mostly sunny. 1:30 - 2:30 pm

Results:

<u>Distance (m)</u>	<u>Syrup</u>	<u>Tuna</u>
0	0	0
2	0	0
4	0	0
6	0	0
8	0	7 <u>Prenolepis imparis</u>
10	0	0
15	0	0
20	0	0
25	0	0
30	0	0
35	0	1 <u>P. imparis</u>
40	0	0
45	0	0
50	0	5 <u>P. imparis</u>

2/18/76 Transect near wier (#1) Western Triangle

Very warm day - decided to repeat baiting at the transect, and also try some preliminary recruitment experiments. Partly cloudy, windy, warm: Air (5') - 25.5°C, Surface (shade) - 24.0°C, 3" in soil - 9.5°C.

12-12:15 pm - We were surprised to find a large # of nuptial flights of P. imparis underway. Workers and reproductives were coming out of nests (holes in the soil ~ 1/2" wide). ~~the~~ Workers were seen forcing ♂♂ to leave the nests. Many more ♂♂ than ♀♀. Most ♀♀ had 1 or more ♂♂ attached, attempting copulation. ♂♂ are tiny compared to the ♀♀ - only about 1/4 - 1/3 the length of the ♀♀ gaster. Were very wasp like and swarmed around trees. Looked like reproductives climbed trees and then took off in the wind. This activity made it possible to locate many P. imparis colonies which I marked with flags (8) later in the afternoon.

Put ~~3~~ baits out on transect in usual manner. Results were:

Distance (m)	Syrup	Tuna
0	0	0

2/18/76	2	0	0
(cont'd)	4	~20 P.i.	0
	6	0	~12 P.i.
	8	4 P.i.	25 P.i.
	10	0	20 P.i.
	15	0	6 P.i.
	20	~9 P.i.	~30 P.i.
	25	~6 P.i.	4 P.i.
	30	1 "	6 "
	35	40 "	25 " (colony 10" away)
	40	6 "	20 "
	45	0	0
	50	0	14 "

Did a recruitment experiment downhill from the top of the transect. Put out two *Funaria* baits, but only got a response at one. Began at 12:17 - Jim tried keeping running log of arrivals & departures, but it got ridiculous - so we started taking counts every minute. The first *Prenolepis* arrived ~5 min after bait was down. By 22 min 2 were there. 24 min - 3. 25 min - 5. 27 min - 9. at 28:45 min got systematic about it:

12:15	+	28:45	8	on bait
#		29:30	12	" "

2/18/76	30:30	12
(cont'd)	31:30	7
	32:30	9
	33:30	10
	34:30	16
	35:30	12
	36:30	10
	37:30	7
	38:30	17
	40:30	16
	41:30	14
	43:30	16
	44:30	17
	46:30	15
	47:30	10
	48:30	11
	49:30	12
	50:30	7
	END OBS.	

Found colony entrance about one foot from bait near base of a beach tree. Nuptial flight going on here as well. Also saw several Leptothorax curvispinosus, but didn't seem very interested in the bait.

2/18/76
(cont'd)

This was a very good day since we were able to do a ^{trial} recruitment experiment before more species are active and it becomes difficult to do accurately. Also very pleased about the nuptial flights.

2/19/76

Transect #1, North Branch of Muddy Creek, near Western Triangle

Cooler than the 18th, but we wanted to try another recruitment experiment near a couple of the marked colonies of Pimplaris. Nuptial flights seemed to be over, although ♂♂ were around in smaller #'s. Air (5') - 18°C, Surface (shade) - 13.5°C, 3" deep - 9.8°C. Temp at colony entrances: 10.5°C, 10.2°C at 3 pm.

Began recruitment at 1:52 pm - two at once. Used mashed corned beef spread, placed 1' from colony entrance. Readings were taken every 3 min:

<u>T+</u>	<u>Colony #1</u>	<u>Colony #2</u>
0 min	0	0
3	3	1
6	0	5
9	3	8

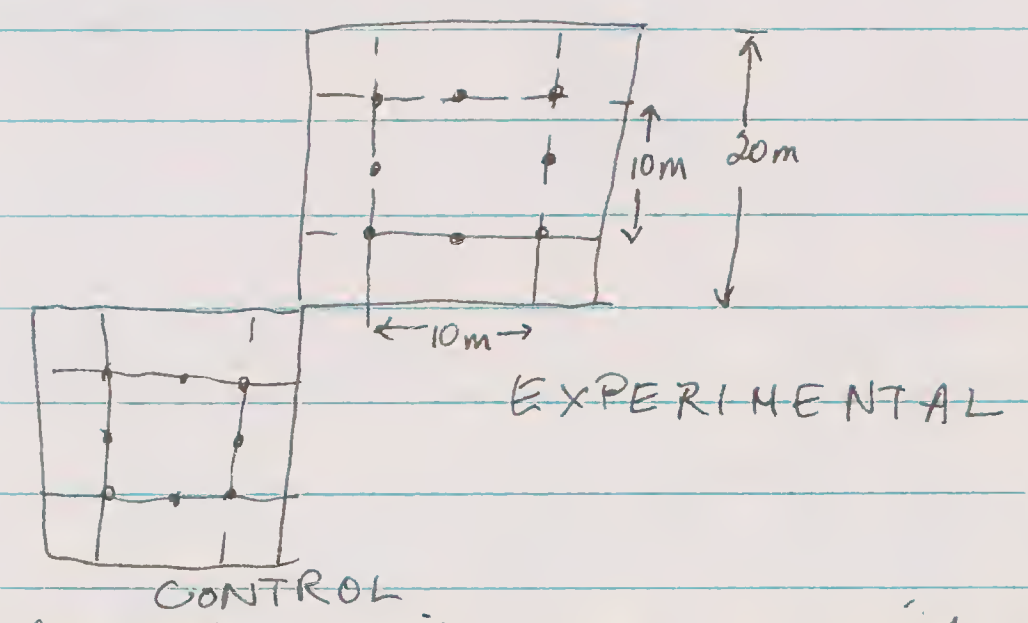
2/19/76 (cont'd)	T+	Colony # 1	Colony # 2
	12	0	16
	15	4	18
	18	3	17
	21	10	21
	24	10	22
	27	7	27
	30	12	19
	33	12	17
	36	13	20
	39	13	24
	42	14	27
	45	16	26
	48	17	29
	51	20	32
	54	25	27
	57	23	31
	60	25	24

END OBS.

Temperatures at 2:52 pm - Air (5') - 18.5°C, Surface (shade) - 14.0°C, 3" deep - 10°C
 Felt that one person could easily have watched both baits when data are recorded at ~~two~~ 3 minute intervals.
 Interesting that the two colonies were showing such similar recruitment efforts by the end of the experiment.

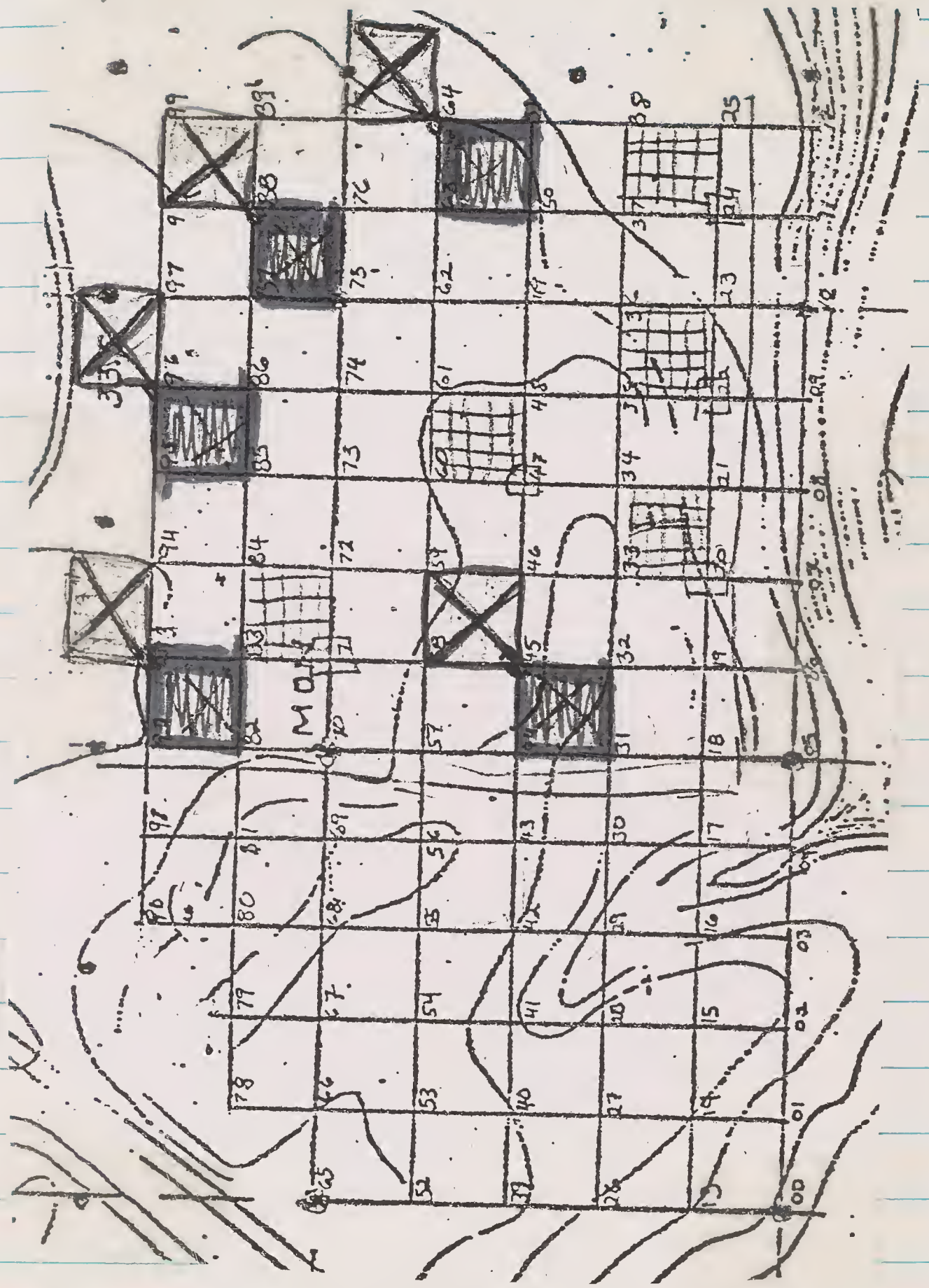
2/25/76 Western Triangle Study Area



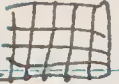
The weather is continuing warm - especially for February. In the '50's or '60's today. Jim & I spent ~ 3 hrs. surveying our sites for nest site manipulation experiments which will be done here and in Stevens Field. Twenty meter grids were selected at random for use as experimental plots, and a control plot was taken at a diagonal to each of these. 5 Baiting plots were also chosen this way. The experimental nest site plots are arranged as follows:



So the actual site is 10m on a side, in the center of the 20 m grids. They are positioned this way to keep people from walking through them. We put flags at 5m intervals on all sides of the 10m² plots. Seemed to be very workable size - Will do the same thing in Steven's Field soon. Jim saw

2/25/76 one *L. curvispinosus* out. Attached is a map
(cont'd) of the western triangle grid with the
different study plot types marked.



-  : Experimental cover object
-  : Control
-  : Baiting plots.

2/27/76 Stevens Field Study Area

Warm, sunny, windy day. Began setting up grids in the same manner as in the Western Triangle. Completed six plots - 3 prs. of control & experimental - then flicked it in. Unpleasant working conditions - thick grass and patches of "brambles" - blackberry & wild rose. Also hard to find anything because #s are washed off the flags. No shade, and the place is going to be rotten in the summer.

3/19/76 CBCEs

just mentioning that it snowed about 4-6" today. Surprising because the weather has been so warm.

3/19/76 Transect #1 near Wier & Western Triangle

1:30 pm ^{Humidity} ^{Br} Air (shade) 22.6°C. Came out w/ Jim & Eddie Balinsky. I put out standard baits along transect for 1 hour. Jim & Ed put in humidity sensors. These were to measure changes in soil moisture along the transect which moves uphill ^{eastward} from the north branch of Muddy Creek. (which flows N-S). They put in permanent

3/19/76 Transect # 1

(cont'd) galvanized steel conduit sections where the flags were. Two sensors were put in at each bait stake, excluding the first which is in the creek most of the time. Sensors were placed ~ 6" apart, one at 0.5 m and the other at 0.25 m. A hole was made with a piece of pipe, and water and the sensor forced down in according to instructions. These sensors are mostly used to determine the need for irrigation of fields. More of these will be placed along a transect beginning in the flood plain (a wide part) of this same creek and extending into our western Δ study area. Leads from the sensors were twisted around the conduit sections & left exposed. The meter is attached to these when readings are taken.

After the early part of the month when the weather was quite warm, temperatures have been cool and prevented field work. This is one of the first warm days in a couple of weeks.

Soil surface (shade) : 13.6°
 " 3" down : 8.2°

3/19/76
(cont'd)

Results of baiting:

<u>Distance (m)</u>	<u>Syrup</u>	<u>Tuna</u>
0	0	0
2	0	0
4	0	0
6	0	0
8	0	0
10	7 <u>P.i.</u>	5 <u>P.i.</u>
15	14 <u>P.i.</u>	25 <u>P.i.</u>
20	0	1 <u>T.s.</u>
25	0	0
30	15 <u>P.i.</u>	0
35	0	0
40	0	2 <u>T.s.</u>
45	9 <u>P.i.</u>	0
50	0	0

T.s. Tapinoma sessile
P.i. Prenolepis imparis
Leptothorax curvispinosus - 2 found later

Jim & Eddie surveyed ^{the} second transect.
 Finished at 3:45 pm.

3/25/76 Stevens Field Study Area

2pm. Surveyed remaining three pairs of plots for nest site manipulation study. Helped by Ed Balinsky. Partly cloudy, in the 60's. Took about 2hrs.

3/26/76 Transects #2 & #3, Western Triangle

Weather mostly sunny, mild (~65-70°F)

Poured rain all morning. Jim ran these bait lines while I was in Stevens field. He also checked soil moisture readings for transect #1.

2:30pm - 4:30pm.

Results of baiting - Transect #2

Distance (m)	Tuna	Syrup
0	0	0
2	~30 <i>P. imparis</i> (1 fly)	α 1gnat 1 beetle
4	3 <i>P. m.</i>	0
6	0	~60 <i>P. l.</i>
8	18 <i>P. l.</i>	0
10	0 (1 fly)	0
15	0	2 <i>A. r.</i>
20	20 <i>P. l.</i>	35 <i>P. l.</i>
25	0	0 (2 small flies)
30	0	0
35	0	0

3/26/76 Western Triangle
(Cont'd.)

40	0	25 P.I.
45	0	0
50	~150-200 P.I.	~40 P.I.

5 occupied	5 occupied	5 occupied
	2 spp.	2 spp.

Prenolepis imparis (8 baits); Paratrechina melanderi (1); Aphaenogaster rudis (1)

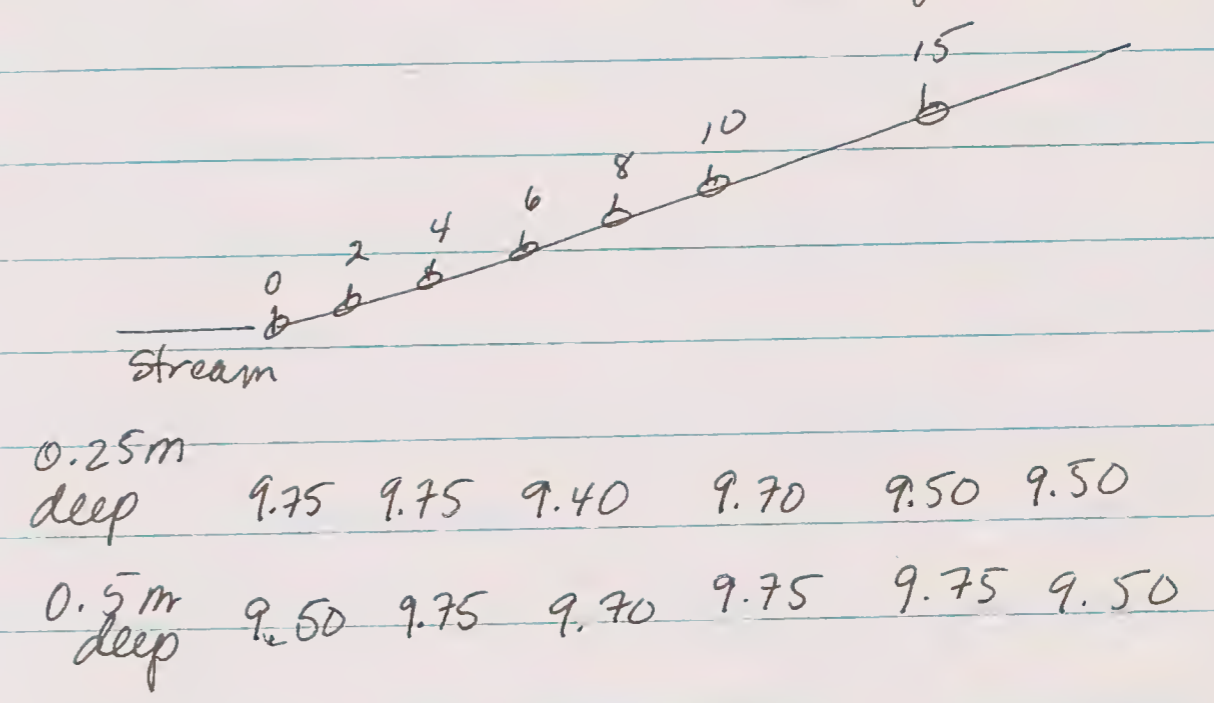
Transect # 3

<u>Distance (m)</u>	<u>Tuna</u>	<u>Syrup</u>
0	5 P.I.	0
2	1 P.I.	~35 P.I.
4	0	~25 P.I.
6	0	1 P.I.
8	0 (1 fly, 1 beetle)	8 P.I.
10	0	0
15	0	10 T.S.
20	1 T.S.	0
25	0 (1 beetle)	0
30	0	0
35	0	0
40	0 (1 slug, 2 sm. flies)	0
45	0 (3 sm. flies)	0
50	2 T.S.	0

3/26/76 Western Triangle
(cont'd)

4 occupied 5 occupied
2 spp 2 spp
Prenolepis imparis (6 baits); Tapinoma
sessile (3 baits).

Soil Moisture - readings from Transect #1



(Readings off Delmhorst soil moisture meter - max. reading is 10.0, so soil very moist. Readings can be converted to bars or soil tension)

3/27/76 Transects #4, #5, & #6, Stevens Field

These transects all begin in woods and move uphill into the open field.
#4 ~~is~~ actually starts at a small stream and proceeds into a rather bare

3/27/76 Stevens Field

part of the field - short grass - no
"brambles" like at the other 2 transects -
rockier soil. Clear, 65°F, breezy.

2:30 pm - 5 pm.

Results of baiting : Transect # 6

<u>Distance (m)</u>	<u>Tuna</u>	<u>Syrup</u>
0	0	0
2	0	0 (1 sm. fly)
4	0 (1 sm. fly)	0
6	0 (5 slugs)	0 (1 slug)
8	0	0 (2 sm. flies)
10	4 <u>Myrmica</u> (1 fly)	0
15	0	0
20	4 <u>Myrmica</u> 1 <u>T. s.</u>	3 <u>Myrmica</u>
25	11 <u>Myrmica</u> (4 sm. flies)	0 (1 fly)
30	1 <u>Myrmica</u>	15 <u>T. s.</u>
35	0	0 (1 fly)
40	~25 <u>M. m.</u>	1 <u>Aphaeno. t.</u>
45	1 <u>Myrmica</u> 1 <u>T. s.</u>	0
50	15 <u>A. t.</u> 1 <u>M. m.</u>	2 <u>A. t.</u>
	7 baits occupied 4 spp.	4 baits occupied 3 spp.

no red nest = water
emergence = field

3/27/76
(cont'd)

Steven's Field

Myrmica sp. (6 baits); Tapinoma sessile (3 baits); Monomorium minimum (2); Aphaenogaster treatae (3).

Transect #5

Distance (m)	Tuna	Syrup
0	0 (1 slug, 3 flies)	2 <u>Myrmica</u> ^{coel.}
2	1 <u>T.s.</u> (4 flies)	1 <u>Lasius</u> ?
4	0	0
6	0	0 (1 fly)
8	0	1 <u>L.e.</u>
10	6 <u>Myrmica</u> 3 <u>T.s.</u>	0
15	0 (4 flies)	0
20	4 <u>T.s.</u>	0
25	4 <u>Myrmica</u> 3 <u>T.s.</u>	6 <u>T.s.</u>
30	35 <u>M.m.</u> 1 <u>T.s.</u> 1 <u>Myrmica</u>	~50 <u>T.s.</u>
35	0	10 <u>F.s.</u> 35 <u>M.m.</u> 1 <u>Myrmica</u>
40	0	15 <u>A.t.</u>
45	20 <u>A.t.</u>	0
50	25 <u>A.t.</u>	3 <u>F.s.</u>

7 occupied
4+ spp.
Tapinoma sessile (7); Myrmica sp. (5);

8 occupied
7+ spp.

3/27/76
(cont'd)

Steven's Field

Monomorium minimum (2); Aphaenogaster
treatae (3); Lasius sp. (1);
Leptothorax curvispinosus (1); Formica
schaufussii (2).

Transect #4

Distance (m)	Tuna	Syrup
0	0 (2 sm. flies)	0
2	2 T.S.	0
4	20 T.S. (3 sm. flies)	0
6	2 Myrmica 3 T.S. 1 L.C.	0
8	0	1 Myrmica (2 sm. flies)
10	—	—
15	~100 M.m.	2 Lasius ?
20	25 T.S.	4 Formica
25	1 Formica (1 fly)	~200 M.m.
30	40 Cremat.	7 A.t.
35	1 M.m. (1, 1" black beetle) (1 milliped, 1 slug) 5 flies	6 T.S.
40	30 Cremat.	13 T.S. 60 M.m.
45	0	22 T.S.
50	6 Cremat (1 beetle w/ red & black on abdomen)	27 M.m.

3/27/76 Steven's Field

11 occupied
6 spp.

9 occupied
6 spp

Tapinoma sessile (7); Myrmica sp. (2);
Leptothorax curvispinosus (1); Monomorium
minimum (5); Formica (2);
Crematogaster (3); Aphaenogaster
treatae (1); Lasius (?) (1).

4/6/76 Steven's Field Study Area

10-12am. Worked with Eddie placing artificial nest sites in experimental grids. Ground was scraped fairly clean below objects. 7 1/2 x 15 1/2" and 3 1/2 x 7 1/2" concrete blocks were used, 15 of each per plot. Next time take gloves.
Beautiful, clear day. ~65°F.

4/9/76 Western Triangle Study Area

1:30-3:30 pm. Temp. low 60's. Clear, breezy. Worked with Eddie placing artificial nest sites in experimental grids. Was easier work than in Steven's Field since leaves were easily brushed away from soil surface, and soil was softer so objects could be levelled without too much trouble. There are many more natural

4/9/76
 (cont'd) Western Triangle Study Area (all wood) cover objects at this study area, and some of the cement blocks were placed right next to logs. It will be interesting to see if proximity to natural objects affects rapidity of colonization. Saw occasional Lasius workers in leaf litter.

4/13/76 Western Triangle Study Area
 10-12 am. Sunny, 55-60°F. Put glass under artificial nest sites, thus completing their preparation. Found ~15 colonies of Lasius under large bricks. None were found under small bricks. ~~One queen~~ In one case the queen was located. In some plots most large bricks had ants underneath, and in others there were virtually no ants. One colony of P. imparis located under a large brick as well. Need to number plots & objects in plots & label. Expect to begin censusing these about the end of the week. (all leaf litter cleared from under glass - glass placed on level surface of dirt). Real pleased today - looks like objects will be colonized making exp. worthwhile.

4/14/76 Steven's Field Study Area

10:30-12:30 am. Clear, ~70°F. Put glass under blocks - took 2 hrs. to do 2 study plots because of all the grass and blackberry brambles. We used a shovel and 'scythe' kind of thing to clear away vegetation - put glass directly on dirt. Ants less common under objects than in the WS. Nylon cord stretched between conduit pipe stakes seems to stay up on the poles - clearly outlines experimental plots.

4/15/76 Steven's Field

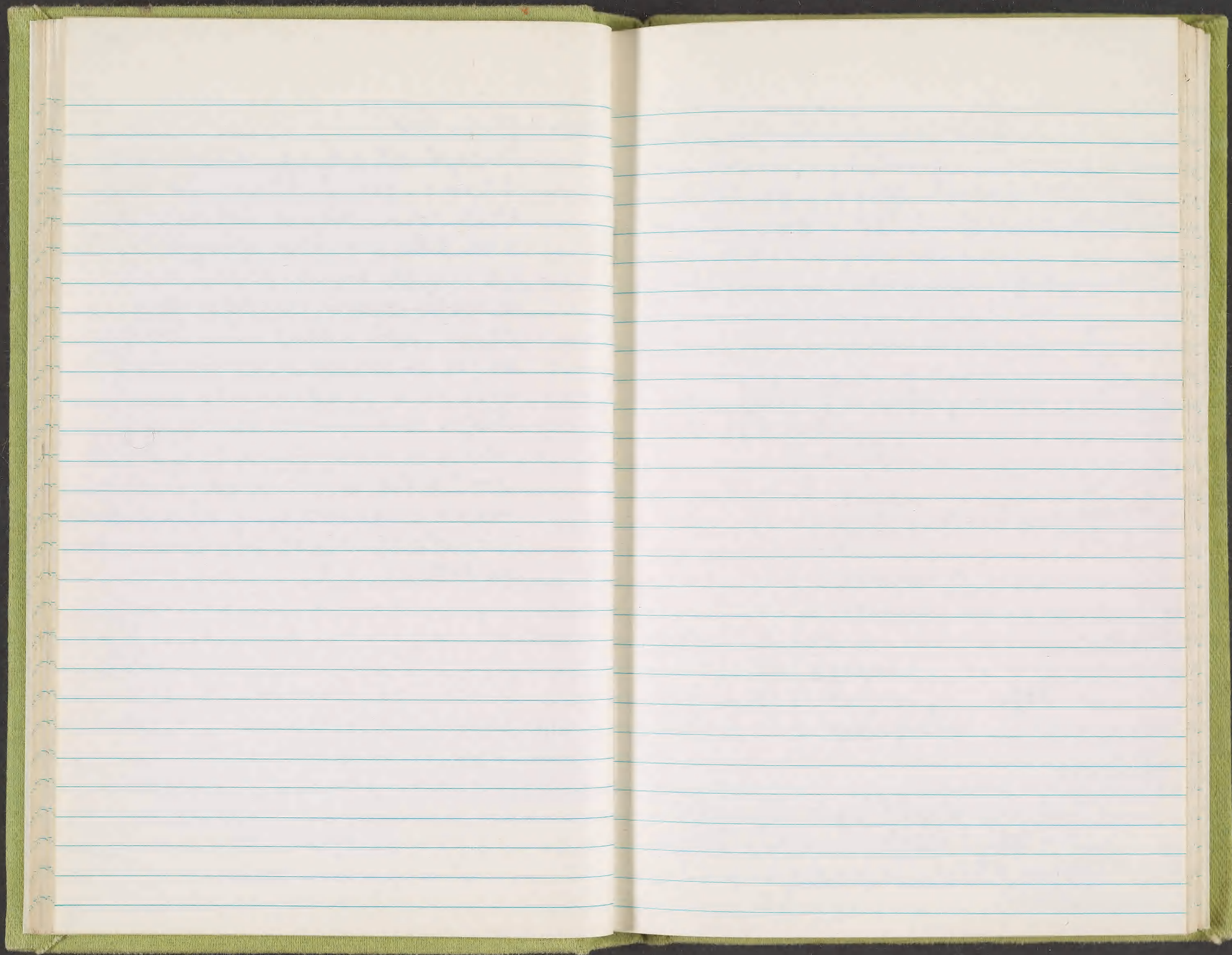
AM & PM - completed putting glass under cover objects.

4/16/76 Western Δ

Surveyed all nest sites - accompanied by Michael Singer. Worked from ~10:30 am to 1 pm. Actually too late. It was the first in a series of hot days - about 85°F - and by 12 or so ants probably were moving down. Found several Lasius colonies, 1 Myrmica colony - see field data sheets.

4/23/76 Steven's field

Surveyed all artificial nest sites from ~9:30 am - 1 pm. A lot more stuff than at the WS a week ago. Had Eddie repair some sites where object was not resting flat on the surface. He also put in humidity sensors & numbered the cover objects. Again I think I was working too late in the day even tho it was only 75-80°F today (at the most). Need to begin these surveys much earlier in the am so that the objects don't become too hot. Frequently saw evidence of ant activity (i.e., holes, excavated dirt) ~~in~~ under objects where there were no ants.



6/17/76 WA Baiting Transects

Air 24°C Ground 21°C

Cloudy - heavy thunderstorms
the night before - ground, vegetation
wet.

1:40 pm - began - 4 pm finished

rudis - little Aph.
treatae - large Aph.

#1	T	S
0	0	0
2	0	8 Aph. <u>rudis</u> coll.
4	6 <u>Paratrechina</u>	1 <u>A. rudis</u>
6	1 <u>Para</u> ^{trechina} (coll.)	
	2 <u>A. rudis</u>	
8	10 <u>A. treatae ^{fulva} (coll.)</u>	12 <u>A. treatae ^{fulva} (coll.)</u>
10	3 <u>Paratrechina</u>	0
15	3 <u>A. treatae fulva?</u>	0
	1 <u>Paratrechina</u>	
20	4 <u>A. treatae fulva?</u>	5 <u>A. treatae fulva</u>
25	40 <u>P. imparis</u>	2 <u>A. rudis</u> (small)
30	35 <u>P. imparis</u>	2 0
35	3 <u>A. treatae fulva?</u>	0 (Aph. had been there - ^{treatae} treatae galore)
40	5 <u>A. treatae fulva?</u>	1 <u>P. imparis</u>
45	13 <u>A. treatae fulva?</u>	25 <u>A. treatae</u>
50	6 <u>Para-trechina</u>	* 8 <u>A. treatae coll.</u>
	2 <u>A. rudis</u>	<u>Tennesseeis</u>

* These are larger & lighter than what I've called treatae above - Maybe all the others were rudis (size varies)

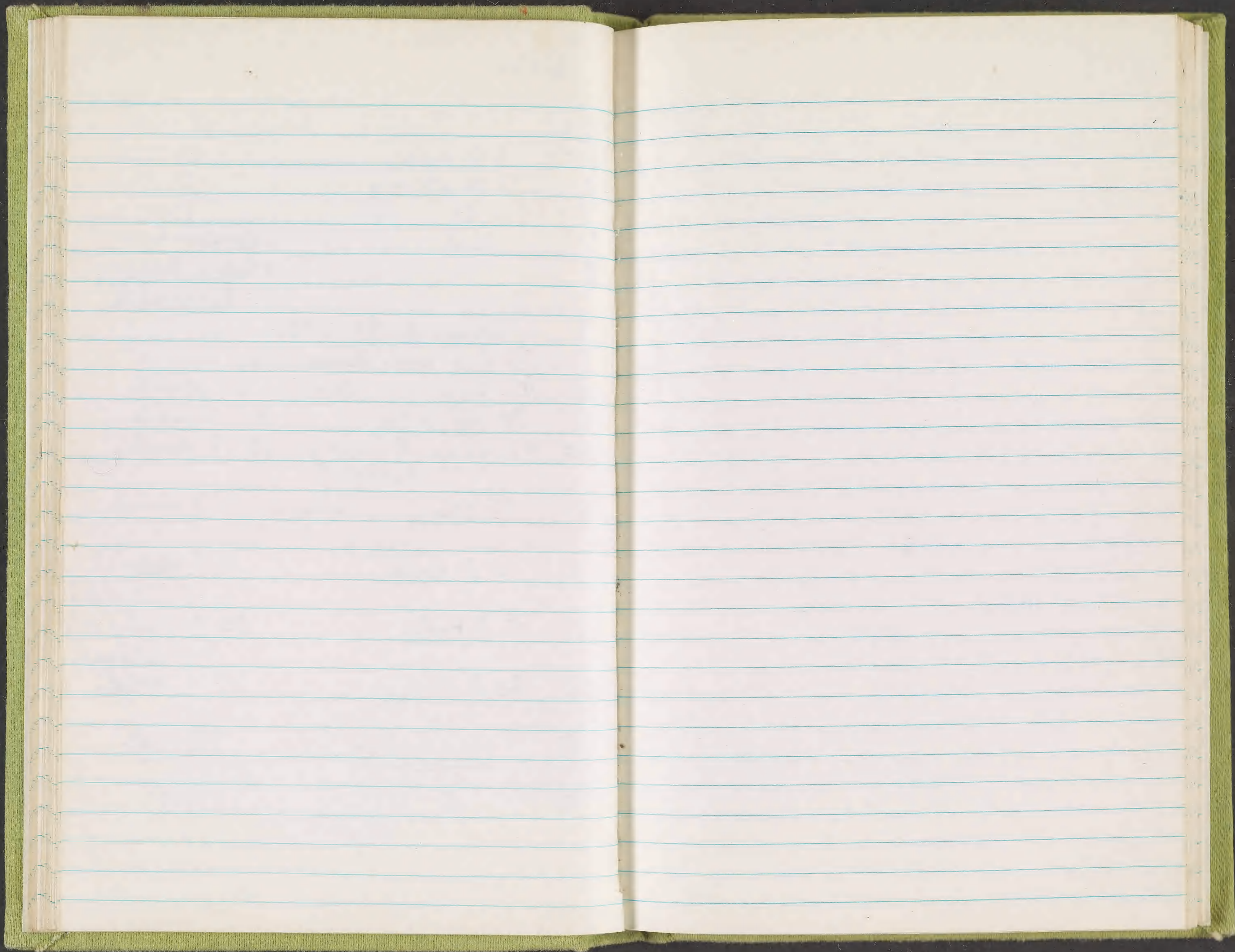
6/17/76

#2	Tulva	S
0	10 Aph. rudis (coll.)	6 A. rudis
2	5 Paratrech. , 1 A. rudis	0
4	~45 A. rudis	2 A. rudis
6	35 A. rudis	6 A. rudis
8	10 A. rudis	3 A. rudis (coll.)
10	~30 Aph. rudis ² / _(coll.)	5 Aph. rudis (coll.)
15	3 A. rudis 2 Paratrechina	1 Aph. rudis &
20	~60 P. imparis	5 A. rudis (coll.)
25	5 Aph. rudis (coll.) 3 Myrmecina americana	0
30	20 A. rudis (coll.) fulva	0
35	1 A. rudis (coll.)	0 (2 beetles)
40	3 Paratrechina 3 A. rudis	0
45	20 A. rudis (coll.)	0
50	30 Lasius alienus (coll.)	8 P. imparis

same vial

6/17/76

#3	T	S
0	3 <u>A. rudis</u>	0
2	1 <u>Paratrechina</u>	0
4	0	0
6	0	6 <u>Paratrechina</u>
8		1 <u>Lasius alienus</u> (coll.)
		10 <u>Paratrechina</u>
8	11 <u>Camponotus ferrugineus</u> (coll.)	0
	6 <u>Aph. rudis</u> Stenobothrus <u>fulva</u>	
10	10 <u>Lasius</u> same	6 <u>T. sessile</u>
15	20 <u>Aph. rudis</u>	30 <u>T. sessile</u>
20	20 <u>Lasius</u> (coll.) <u>alienus</u>	15 <u>T. sessile</u>
25	15 <u>Lasius</u> same	15 <u>T. sessile</u>
30	10 <u>A. fulva</u> ? <u>rudis</u>	10 <u>A. fulva</u> (coll.)
35	5 <u>A. rudis</u>	30 <u>Lasius</u> (coll.) <u>alienus</u>
40	30 <u>A. rudis</u>	50 <u>T. sessile</u>
45	1 <u>Paratrechina</u>	1 <u>A. rudis</u>
50	0	0



7/9/76 WΔ Baiting Transects.

Repeat due to lousy collecting on 6/17

Air 27°C, ground 27°C

Hazy, warm, breezy. Rained the
9:100
2pm set out baits

#1	S	T4
0	0	0
2	8 <u>Paratrechina</u> (coll.) ← same →	5 <u>Paratrechina</u>
4	20 <u>A. rudis</u>	18 <u>A. rudis</u> ← same → (coll.)
6	25 <u>A. rudis</u> 1 <u>L. curvispinosus</u>	22 <u>A. rudis</u> 1 <u>Paratrechina</u>
8	26 <u>A. fulva</u> 1 <u>Paratrechina</u>	18 <u>A. rudis</u>
10	33 <u>A. rudis</u>	6 <u>A. rudis</u> or <u>fulva</u> ? (coll.) 1 <u>Paratrechina</u>
15	1 <u>C. pennsylvanicus</u> 1 <u>Paratrechina</u> 5 <u>Aph. fulva</u> ? (coll.) 4 <u>Lasius alienus</u> (coll.)	8 <u>Aph.</u> ? (coll.)
20	~75 <u>Lasius alienus</u>	19 <u>Lasius alienus</u>
25	30 <u>Lasius alienus</u>	30 <u>Lasius alienus</u>

	#1) cont'd	S	T
7/9/76	30	30 <u>Lasius alienus</u>	12 <u>Aph. ruderis?</u> (coll)
	40 ³⁵	23 <u>Aph. ?</u> (coll.) fighting	8 <u>Aph.</u> (coll)
	40	30 <u>Aph. 2 spp?</u> (coll.)	45 <u>Lasius alienus</u> 1 <u>Paratrechina</u>
	45	40 <u>Aph. fulva?</u> (coll.) 1 <u>Paratrechina</u>	16 <u>Aph. ?</u> (coll) 2 <u>Paratrechina</u>
	50	15 <u>A. tennesseensis</u> 2 <u>Paratrechina</u>	5 <u>Paratrechina</u>

7/9/36

#2

S

I

30 15 Myrmica (coll) 5 C. pennsylvanicus
1 A. tennesseensis

45 24 A. rudis? coll 10 Aph.? (coll)

40 ~100 Lasius alienus ~80 Aph.? (coll)

35 27 A. rudis (coll) 2 Paratrechina
20 Lasius alienus
2 Aph. rudis (coll)

30 0
missed it

25 20 Aph. coll 10 Aph. (coll)

20 23 Aph. rudis? ~100 Lasius umbratus
coll. ~200 more in area
(coll)

15 8 Paratrechina 4 Aph.?
10 Aph. (coll) (coll)

10 ~45 Aph. (coll) 6 Aph.?
3 Solenopsis? coll (coll)
1 Paratrechina

8 35 Lasius alienus 6 Lasius alienus
3 Aph. rudis 1 Paratrechina
(coll)

6 20 Aph. rudis 6 Aph.
1 Paratrechina 1 Paratrechina

7/9/76 #2 cont'd

5

I

4 4 Aph. coll
1 Lasius alienus
3 Paratrechina

7 Paratrechina
7 Aph. (coll)

2 25 Aph. coll
3 Paratrechina

10 sm. red (coll)
5 Lasius
2 Paratrechina
1 Tapinoma sessile

0 10 Paratrechina
2 Aph. (coll)

6 Aph. (coll)

7/9/76 #3)

	<u>S</u>	<u>T</u>
0	0	1 <u>Paratrechina</u>
2	16 <u>Paratrechina</u>	22 <u>Lasius alienus</u>
	3 <u>Aph. rudis</u> (missed them)	1 <u>Paratrechina</u>
3		
4	0 missed it	0
6	2 <u>Paratrechina</u>	1 <u>Paratrechina</u>
8	3 <u>T. sessile</u> 1 <u>Paratrechina</u> 3 <u>Lasius alienus</u>	1 <u>Paratrechina</u> 1 <u>C. pennsylvanicus</u>
10	12 <u>T. sessile</u>	10 <u>Lasius alienus</u> (call)
15	250 <u>Lasius alienus</u>	wait & towel gone
20	3 <u>Aph. fenn.</u> (call.) 10 <u>Lasius alienus</u>	tuna gone 1 cricket
25	2 <u>Myrmica</u> (call.)	15 <u>Lasius alienus</u>
30	40 <u>Lasius alienus</u>	15 <u>Aph.</u> ? (call)
35	10 <u>Aph. rudis</u> (call) 2 <u>Myrmica</u>	20 <u>Lasius alienus</u>

#3 cont'd

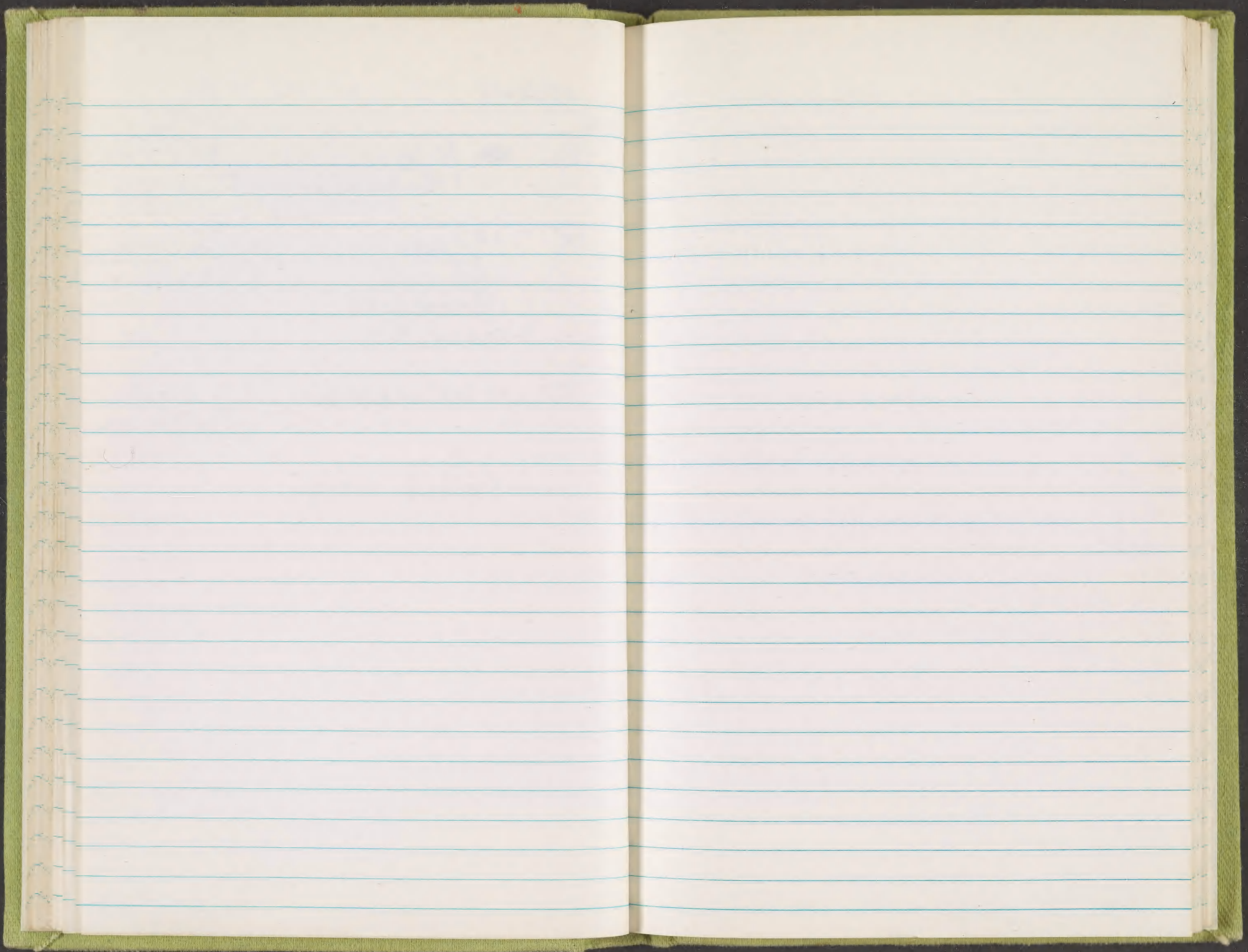
7/9/76

	S	T
40	40 30 <u>Lasius alienus</u> 1 <u>Paratrechina</u>	6 Aph. (coll.) terra gone

45	1 <u>Myrmica</u> 2 <u>Aph. ruderis</u> 1 <u>Paratrechina</u> missed them	25 <u>Lasius alienus</u> 2 <u>Paratrechina</u>
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50	15 <u>Lasius alienus</u>	5 <u>T. sexole</u> 2 <u>Paratrechina</u>
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Finished 4:50pm



6/17/76

WA Baiting Transects

Air 24°C Ground 21°C

Cloudy - heavy thunderstorms
the night before - ground,
vegetation wet

1:40 pm - began

#1

	T	S
0	0	0
2	0	8 <i>Aphaenogaster</i> (coll)
4	6 <i>Paratrechina</i>	1 <i>A. "rudis"</i>
6	1 " (coll)	
	2 <i>Aphaeno. rudis</i>	
8	10 <i>A. treatae</i>	12 <i>A. rudis treatae</i> (coll)

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