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Journal/Book Title

Year 1978

Month/Day

Color

Number of Images 23

Description Notes

TCDD Ecological INVESTIGATIONS

GRID 1, TA C-52A

Eqlin AFB, FL

13-15 April 1978

A. L. Young

C. E. Thalken

~~ANOV - Duncan~~
~~Thy mus~~

- Distribution of TCDD in OS^{ms}

13 APR 78
 Eglin AFB, FL
 GRID 1 MOUSE STUDY

1. T-1

Body weight 13.355

MALE

TARE 1.394

Hole 4, 0[→], 70m SE of 0-9, 13 Apr 78, Grid 1

HEART	LUNG	LIVER	SPLEEN	KIDNEY	ADRENAL
1.523	1.489	2.036	1.410	1.599	1.417
1.392	1.391	1.390	1.391	1.389	1.394
0.131	0.098	0.646	0.019	0.210	0.023

2. T-2

Hole 5, 0[→], 100' S of 0-8, 13 Apr 78, Grid 1

Body weight - 14.081

MALE

TARE - 1.392
 12.689

HEART	LUNG	LIVER	SPLEEN	KIDNEY	Adrenal
1.529	1.504	2.137	1.431	1.642	1.425
1.401	1.394	1.397	1.398	1.390	1.399
0.128	0.110	0.740	0.033	0.252	0.026

T-3

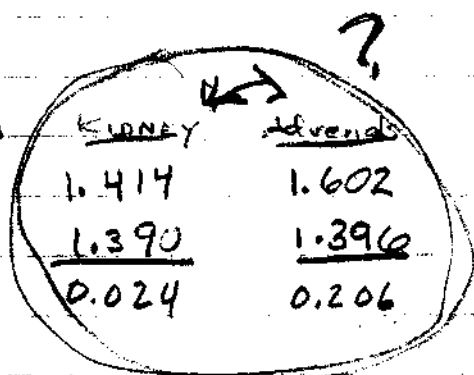
3. Hole 3, 0[→], 120' NW of 0-10, 13 Apr 78, Grid 1

Body weight 14.085

MALE

TARE 1.392
 12.693

HEART	LUNG	LIVER	SPLEEN	KIDNEY	Adrenals
1.518	1.504	2.070	1.424	1.414	1.602
1.402	1.395	1.400	1.392	1.390	1.396
0.116	0.109	0.670	0.032	0.024	0.206



T-4
4. Hole 3, ♀, 120' NW of O-10, 13 Apr 78, Grid 1

Body weight 15.689
TARE 1.387
14.302

Female

2 early embryos
* 2 implantation sites grossly visible

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenal</u>
1.539	1.591	2.460	1.406	1.668	1.418
<u>4.394</u>	<u>1.392</u>	<u>1.408</u>	<u>1.392</u>	<u>1.397</u>	<u>1.390</u>
0.145	0.199	1.052	0.014	0.271	0.028

T-5
5. Hole 2, ♀, 150' NE of O-10, 13 Apr 78, Grid 1

#1 Body weight 16.138
TARE 1.416
14.722

FEMALE

3 implantation sites grossly visible and confined to right uterine horn
Right ovary has 3 corpus lutea

<u>Heart</u>	<u>LUNG</u>	<u>LIVER</u>	<u>Spleen</u>	<u>Kidney</u>	<u>Adrenal</u>
1.535	1.510	2.465	1.416	1.709	1.416
<u>1.391</u>	<u>1.386</u>	<u>1.396</u>	<u>1.397</u>	<u>1.391</u>	<u>1.393</u>
0.144	0.124	1.069	0.019	0.318	0.023

T-6
6. Hole 3, ♂, 150' NE of O-10, 13 Apr 78, Grid 1

#7 Body weight 11.594
TARE 1.389
10.205

Male

<u>Heart</u>	<u>Lung</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>Kidney</u>	<u>Adrenal</u>
1.492	1.488	1.990	1.397	1.567	1.401
<u>1.391</u>	<u>1.383</u>	<u>1.384</u>	<u>1.385</u>	<u>1.381</u>	<u>1.380</u>
0.101	0.885	0.606	0.012	0.186	0.021

T-7
7. Note 2, ♀ 150 LINE OF 0-10, 13 Apr 78, Gr. 1

Body weight 14.253

Fatty animal

✓ T #9

TARE weight 1.391

3 implantations grossly visible

12.862

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenals</u>
1.557	1.465	2.264	1.401	1.654	1.410
<u>1.406</u>	<u>1.376</u>	<u>1.387</u>	<u>1.381</u>	<u>1.379</u>	<u>1.383</u>
0.151	0.089	0.877	0.020	0.275	0.027

13 Apr 78.

Hole 1, 3008 NE 0-10

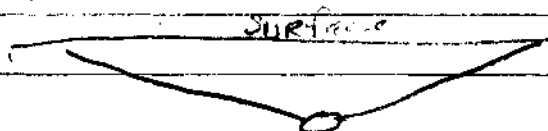
Hole 2, 150 yd NE, 0-10, 3 mice (2 males / 1 female)

Depth to nest 18-20"

nest to entrance 30"

nest to escape 35"

~~is~~ straight line

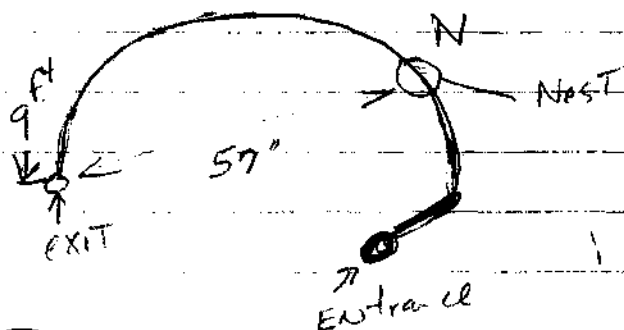


Hole 3, 120 yd NW 0-10, 2 mice

Depth to nest 25-28"

nest to entrance 10" at 40°, 25" to nest

nest to escape (Surface 57")

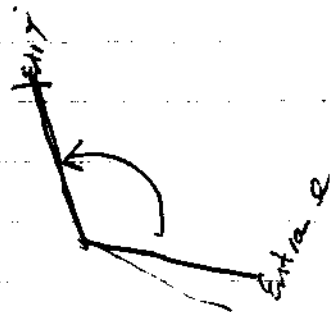


Hole 4, 70m 210 ft SE, 0-9, 1 Mouse

Depth to nest 20-23" ♀

Entrance to nest 36"

nest to escape - 36"



Hole 5, 100 ft South of 0-8, 1 Mouse ♂

Depth to nest - 18"

30" from nest to entrance

26" from nest to exit

13 APR 78

Hole 6. 100 m SE O-4

no mice / nest

nest 8" below surface

total length from entrance to exit 36'

Hole 7 90 m SE O-4

nest 18-20" below

nest to entrance 30"

nest to exit 39"

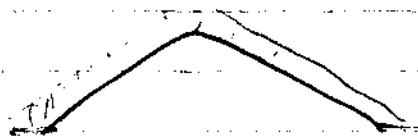
no mice

Hole 8 50' NE O-4 large nest, no mice

~~20-23"~~ deep

33" to nest

36" to escape



Hole 9 20 ft ENE O-4

14-17" deep

33" to nest

40" to escape

no mice

Straight

Hole 10"

50 m ENE O-4

13-16" deep

30" to nest (large nest hole) 3x3"x4"

25' to escape

TEST No. 10, MALE, 20 m WSW of 0-5 near road

14 Apr, 78, Grid 1

Body weight 11.179
Tare 1.392
9.787

MALE
large liver

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenal</u>
1.534	1.492	2.340	1.407	1.501	1.408
<u>1.386</u>	<u>1.381</u>	<u>1.390</u>	<u>1.388</u>	<u>1.388</u>	<u>1.383</u>
0.148	0.111	0.950	0.019	0.213	0.025

TEST No. 11, Male, 50 m South of 0-4, Grid 1

Body weight 13.505
Tare 1.378

12.127

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenal</u>
1.575	1.495	2.194	1.396	1.631	1.409
<u>1.401</u>	<u>1.386</u>	<u>1.393</u>	<u>1.380</u>	<u>1.390</u>	<u>1.387</u>
0.174	0.109	0.801	0.016	0.241	0.022

TEST No. 12, Female, 50 m South of 0-4, Grid 1

Body weight 17.977
Tare 1.382
16.595

* 3 FETUSES
2.442
1.044
1.088

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenal</u>
1.582	1.462	2.481	1.444	1.625	1.410
<u>1.392</u>	<u>1.380</u>	<u>1.392</u>	<u>1.398</u>	<u>1.386</u>	<u>1.386</u>
0.196	0.082	1.089	0.048	0.239	0.024

* Approximately 7 days old

14 Apr 78
 Eglin AFB, FL
 GRID 1 BEACH mouse Study

TEST No. 8, FEMALE, 10m South O-7, Grid 1

Body WEIGHT 17.732 → 4 implantations grossly
 TARE 1.392 visible
 16.340 gms

Liver very friable. * 4 Pups (~5 days old)
 8.333

* Pups were thoroughly rinsed, dried
 and weighed. SAVED FOR TCDD Analysis (whole body)
1.378
 7.954 or ~ 2gm pups

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenals</u>
1.652	1.528	2.770	1.419	1.723	1.420
<u>1.417</u>	<u>1.395</u>	<u>1.393</u>	<u>1.390</u>	<u>1.390</u>	<u>1.386</u>
0.235	0.133	1.377	0.029	0.333	0.034

TEST No. 9, MALE, 10m South O-7, Grid 1

Body weight 16.012
 TARE 1.385
 14.627 gm

MATE to Test
 No. 8, female

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>kidney</u>	<u>Adrenals</u>
1.606	1.590	2.373	1.406	1.676	1.409
<u>1.396</u>	<u>1.388</u>	<u>1.399</u>	<u>1.385</u>	<u>1.378</u>	<u>1.390</u>
0.210	0.202	0.974	0.021	0.298	0.019

T-8, T-9 had mites on bodies

14 Apr 78

TEST No. 13, FEMALE, 100 m NW 0-4, Grid 1.

Body weight 20.553 *4 Fetuses = 3.300
 TARE 1.385 1.407
 - 19.168 1.893

HEART	LUNG	LIVER	SPLEEN	KIDNEY	Adrenals
1.558	1.540	2.622	1.412	1.718	1.418
<u>1.385</u>	<u>1.376</u>	<u>1.392</u>	<u>1.388</u>	<u>1.385</u>	<u>1.386</u>
0.173	0.164	1.230	0.024	0.333	0.032

* 4 Fetuses (~ 7 days) ✓

4 Pups (~ 21 days) from T-13

Body weights	1.	2.	3.	4.
	♂ 8.406	♂ 7.501	♂ 8.263	♂ 8.484
TARE	<u>1.378</u>	<u>1.385</u>	<u>1.380</u>	<u>1.383</u>
	7.028	6.116	6.883	7.101

LIVER weight	1.	2.	3.	4.
	2.110	2.031	2.108	2.070
	<u>1.378</u>	<u>1.385</u>	<u>1.380</u>	<u>1.383</u>
	0.732	0.646	0.728	0.687

TEST No 14, Male, 100 m NW 0-4, Grid 1

✓ Body wt 12.802
 TARE 1.383
 11.419

Heart	Lung	LIVER	SPLEEN	KIDNEY	Adrenals
1.537	1.589	2.238	1.406	1.588	1.413
<u>1.390</u>	<u>1.392</u>	<u>1.385</u>	<u>1.384</u>	<u>1.390</u>	<u>1.390</u>
0.147	0.197	0.853	0.022	0.198	0.023

14 Apr 78

Hole 11 75 m WNW 0-4 no mice

NEST - 14-16"

40" nest to entrance

30" nest to escape

*

Hole 12, 110 m NW 0-4

nest 16-19" deep.

29" to entrance

36" to escape

6 { 4 young pups (3 weeks)
♀, ♂

*

Hole 13, 50 m South 0-4

15-18"

25" nest to entrance

35" nest to escape

2 mice

♂, ♀
Pup

Hole 14, 75 m South 0-4

13-16"

27" to entrance

33" to escape

activity at entrance

scanty nest

Hole 15 20 m WSW 0-5

12-14"

27" to nest

33" to escape

1 mouse ♂

Spraying soil
old nest that he
was re doing

No soil collected

Hole 16. - 30m SE N-S

no mice

Appeared to be Fresh Burrow

Dug about 23" and Stop

Hole 17 20m SE N-S

Deep seed hole

no mice

nest = 29" +

entrance = 54"

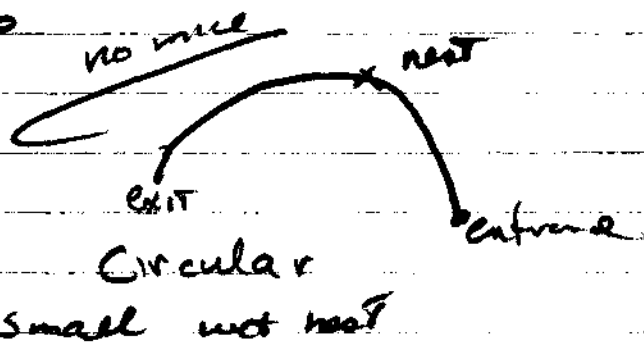
escape = 48" - came up in a 16" distance

Hole 18. 30m NW D-6

nest 25-29"

entrance 42"

exit 60"



Hole 19 50m SW O-7

nest 17"

entrance 36"

escape 36"

Small nest



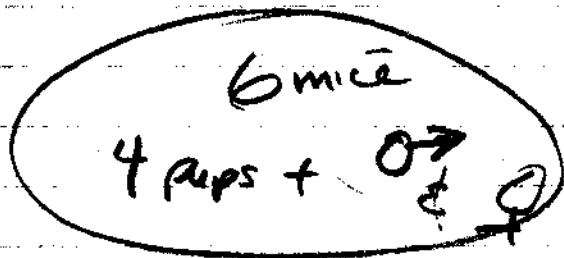
no mice

Hole 20 10m South O-7

nest 21

entrance 27

exit 36



14 Apr 78
 Control Animals
 TA C-52A

Control #1, Male, 100 m South of Road on Hill
 14 Apr 78

Body weight 13.057 ♂
 TARE 1.371
 11.686

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEYS</u>	<u>Adrenals</u>
1.504	1.599	2.067	1.397	1.595	1.400
<u>1.379</u>	<u>1.384</u>	<u>1.404</u>	<u>1.379</u>	<u>1.377</u>	<u>1.382</u>
0.125	0.215	0.663	0.020	0.218	0.018
0.13	0.22	0.66	0.02	0.22	0.02

Control #2, Female, 100 m South of Road on Hill,
 14 Apr 78

Body weight 12.849 ♀
 TARE 1.372 * 2 implantations grossly
 visible on right breast
 11.477

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEYS</u>	<u>Adrenals</u>
1.510	1.558	2.158	1.392	1.608	1.390
<u>1.381</u>	<u>1.380</u>	<u>1.389</u>	<u>1.377</u>	<u>1.382</u>	<u>1.373</u>
0.129	0.178	0.769	0.015	0.226	0.017

Control #3, Male, 100 m North of Road on Hill
 14 Apr 78

Body weight 13.520 LIVER & Spleen
 appeared friable
 TARE 1.381
 12.139

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEYS</u>	<u>ADRENALS</u>
1.529	1.494	2.061	1.400	1.607	1.400
<u>1.388</u>	<u>1.383</u>	<u>1.391</u>	<u>1.378</u>	<u>1.375</u>	<u>1.384</u>
0.141	0.111	0.670	0.022	0.232	0.016

Control # 4, Female, 100 m North of Road on Hill

Body weight 17.775

Pregnant ♀

TARE 1.372

16.403

HEART

LUNG

LIVER

SPLEEN

KIDNEY

ADRENAL

1.531

1.488

2.358

1.387

1.632

1.407

1.383

1.378

1.391

1.376

1.373

1.385

0.148

0.110

0.967

0.011

0.259

0.022

3, fetuses (~12 day)

4.442

uterine Fluid + TARE 1.625

2.817

CONTROL AREA

14 Apr 78

TA C-52A

Control

15-18" deep

no mice

36" entrance

40" across

Control

Top of hill - 100 m south of telephone Road

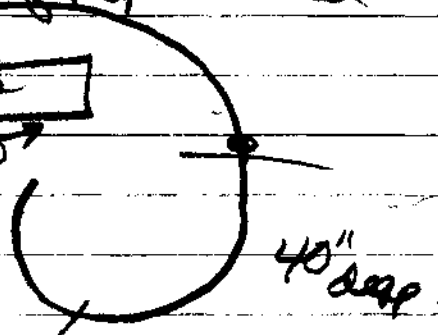
36" ~~deep~~ deep

5' to entrance

10' to exit

2 mice

♀, ♂



Control

100 m North of Road

12-14" deep

18" to nest

20" to exit

Straight line

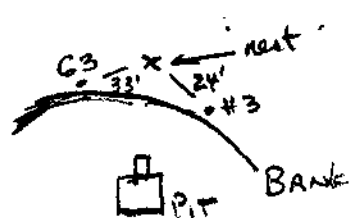
2 mice

♀, ♂

Shallow hole.
good nest

many Seed holes
contained acorns

14 Apr 78
 HARDSTAND 7
 Eglin AFB, FL



1. Hardstand 7, Eglin AFB, FL, 14 Apr 78

Body weight 13.609

MALE

Tare 1.372

Filled during collection

12.237 gm

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenals</u>
1.486	1.545	2.148	1.404	1.554	1.400
<u>1.379</u>	<u>1.374</u>	<u>1.375</u>	<u>1.373</u>	<u>1.372</u>	<u>1.375</u>
0.107	0.171	.773	0.031	0.182	.025

2. Hardstand 7, Eglin AFB, FL, 14 Apr 78

Body weight 8.337

FEMALE

Tare 1.373

6.964

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenals</u>
1.442	1.453	1.818	1.383	1.519	1.383
<u>1.372</u>	<u>1.374</u>	<u>1.376</u>	<u>1.373</u>	<u>1.378</u>	<u>1.371</u>
0.070	0.079	0.442	0.010	0.141	0.012

3. Hardstand 7, Eglin AFB, FL 4 Apr 78

MALE

Body WT 13.706

TARE 1.373

$\frac{12.023}{12.023} + \text{liver (0.159)} = 13.182$

Animal
LIVER
Previous Frozen

<u>HEART</u>	<u>LUNG</u>	<u>LIVER</u>	<u>SPLEEN</u>	<u>KIDNEY</u>	<u>Adrenals</u>
1.501	1.516	2.137	1.392	1.605	1.392
<u>1.375</u>	<u>1.376</u>	<u>1.378</u>	<u>1.373</u>	<u>1.377</u>	<u>1.371</u>
0.126	0.140	0.759	0.019	0.228	0.021

FISH (Bluegill) Hardstand 7 Pond, Eglin AFB

A. Visceral Mass

9.034

1.406

7.628 gm

Caught 14 Apr 78

No apparent parasites

No gross pathology

B. Muscle (less skin, scale, head, tail, viscera)

25.454

1.395

24.059 gm

TOADS

Grid 1.

Ⓐ 10 m South 0-8 13 Apr 70

Ⓑ 80 m North 0-5

A. Total Body

41.357

TARE

1.380

39.977 gm

B. Total Body

34.591

1.376

33.215 gm

Soils

Dried at 80° for 48 Hr.

Sieved so as to pass through a
No. 14 (1.41 mm)

- S-1 Control, 0-2, 14 Apr 78
 S-2 Control, 2-4, 14 Apr 78
 S-3 Control, 4-6, 14 Apr 78
 S-4 Control, Burrow mound

Each depth a mix
 of two holes, 100 m
 South & 100 m North of
 road on hill top.

4 mice (2 ♀, 2 ♂) from these locations.

- S-5 0-9, SE 70 m, 0-2", 13 Apr 78
 S-6 0-9, SE 70 m, 2-4", 13 Apr 78
 S-7 0-9, SE 70 m, 4-6", 13 Apr 78
 S-8 0-9, SE 70 m, Mound, 13 Apr 78

1 mouse (♂) from this site

- S-9 0-7, S 10 m, 0-2", 14 Apr 78
 S-10 0-7, S 10 m, 2-4", 14 Apr 78
 S-11 0-7, S 10 m, 4-6", 14 Apr 78
 S-12 0-7, S 10 m, Mound, 14 Apr 78

2 adults + 4 (5 day-old) pups from this site

- S-13 0-4, NW 100 m, 0-2", 14 Apr 78
 S-14 0-4, NW 100 m, 2-4", 14 Apr 78
 S-15 0-4, NW 100 m, 4-6", 14 Apr 78
 S-16 0-4, NW 100 m, Mound, 14 Apr 78

2 adults + 4 (3 week-old) pups + 4 Fetuses
 from this site

S-17 0-4 S 50m, 0-2", 14 Apr 78

S-18 0-4 S 50m, 2-4", 14 Apr 78

S-19 0-4 S 50m, 4-6", 14 Apr 78

S-20 0-4 S 50m, Mound', 14 Apr 78

2 adults (♀, ♂); female was
pregnant with 3 fetuses (approx 7 days old)

NESTS

1. Hardstand 7, 14 Apr 78 (2 mice, ♀, ♂)

Bahia grass

Andropogon virginicus

PEA sp. Pods (less seeds)

Misc grass

Dry weight

65

1.3

Snake scales

5.2 gms

White cloth

2. O-4, 50 m ENE 13 Apr 78

40.4

15.4

25.0 gms

3. O-9, 70 m SE 13 Apr 78

36.2

16.0

20.2 gms

4. O-10, ~~70~~ 120 ft, NW 13 Apr 78

44.2

15.9

28.3 gms

2 mice

5. O-10, 10 m (30') NE

13 Apr 78

61.0

16.0

45.0

NESTS

6. 0-10, 50m NE, 13 Apr 78
3 mice

45.6
15.5
30.1 gm

7. 0-5, 20m WSW, 14 Apr 78
1 mouse

34.1
16.1
18.0 gm

8. 0-4, 100m NW, 14 Apr 78
2 + 4 pups

48.7
16.0
32.7 gm

9. 0-7, 10m South
2 + 4 pups

44.8
15.4
29.4 gm

NESTS

10. 0-4, 50 m South 14 Apr 78

2 mice

26.7
15.9
10.8 gm

11. 0-6, 70 m South, 14 Apr 78

37.3
15.9
21.4 gm

12. 0-4, 75 m WNW, 14 Apr 78

40.8
15.8
25.0 gm

13 0-4

NEST - 17.3

14 0-4

NEST - 22.7

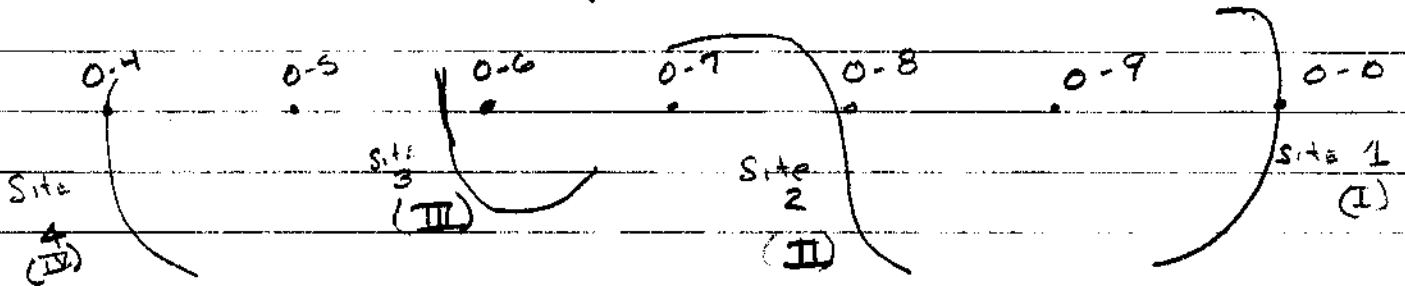
15-04, 100 m SE = 26.0

NESTS

16. Control, 100 m South of Road, hill top
41.5gms
Zmice
17. Control, 100 m North of Road, hill top
65.7 gm
Zmice
18. Control
26.4 gm

TAC-52A Nests covered with small mites.
Sample collected for laboratory identification

GENERAL lay-out of Grid 1.



GENERAL layout of Control Area

