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Item ID Number 03067 ☐ **Not Scanned**

Author

Corporate Author

Report/Article Title Laboratory notebook: Titled "TCDD Ecological Investigations, Grid 1, TA C-52 A, Eglin AFB [Air Force Base], FL, 13-15 April 1978".

Journal/Book Title

Year 1978

Month/Day

Color ☐

Number of Images 23

Description Notes

TCDD Ecological INVESTIGATIONS

GRID 1, TA C-52A

Eglin AFB, FL

13-15 April 1978

A.L. Young

C.E. Thalken

~~ANOV - Duncan~~
~~- Thyms~~

- Distribution of TCDD in Os^{ans}

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

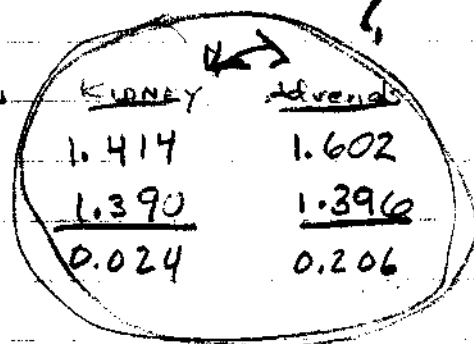
3. Hole 3, 0⁺, 120' NW of 0-10, 13 Apr 78, Grid 1

Body weight 14.085

MALE

Tare 1.392
12.693

HEART	LUNG	LIVER	SPLEEN	KIDNEY	Adrenal
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 15.689TARE 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>1.394</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 16.138TARE 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 11.594TARE 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	0.085	0.606	0.012	0.186	0.021

T-7

7. Note 2, ♀ 1501 NE 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, 300 ft NE 0-10

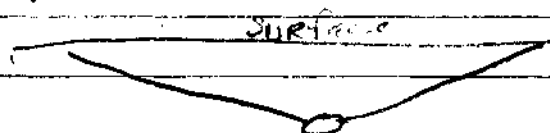
Hole 2, 150 yd NE, 0-10, 3 mice (2 males / 1 female)

Depth to nest 18-20"

Nest to Entrance 30"

Nest to escape 35"

~~Is~~ Straight line

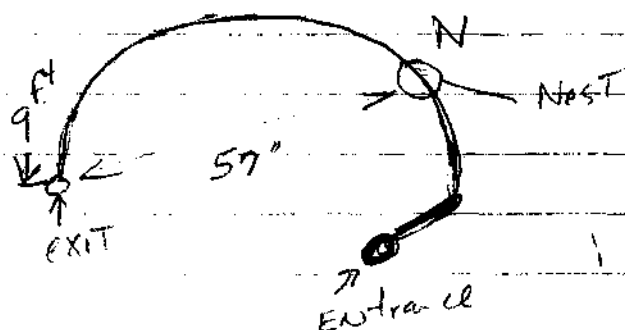


Hole 3, 120 yd NW 0-10, 2 mice

Depth to Nest 25-28"

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

Nest to escape (Surface 57")

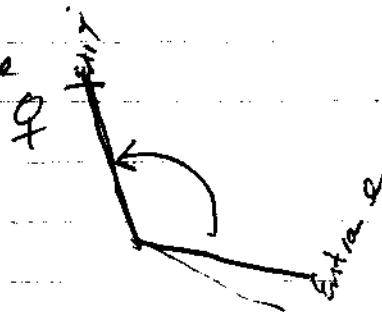


Hole 4, 210 ft SE, 0-9, 1 Mouse

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

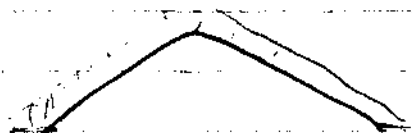
24" from nest to exit

13 APR 78

Hole 6. 100 m SE O-4
no mice / nest near
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 34"
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"
35" to escape

TEST No. 10, Male, 20 m WSW of O-5 near road

14 Apr, 78, Grid 1

Body weight 11.179
Tare 1.392
9.787

MALE
large liver

HEART	LUNG	LIVER	SPLEEN	KIDNEY	Adrenal
1.534	1.492	2.340	1.407	1.801	1.408
1.386	1.381	1.390	1.388	1.388	1.383
0.148	0.111	0.950	0.019	0.213	0.025

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

Body weight 13.505
Tare 1.378

12.127

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

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

Body weight 17.977

Tare 1.382

16.595

* 3 FETUSES 2.442

10414

21.028

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

* Approximately 7 days old

14 Apr 78
Eglin AFB, FL
GRID 1 Beachmouse 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

* 4 Pups (~5 Days Old)
Liver very friable. 8.333

* Pups were thoroughly rinsed, dried 1.378
ad weighed. SAVED FOR 7.954 or ~2gm pups
TCDD Analysis (Whole Body)

HEART	LUNG	LIVER	SPLEEN	KIDNEY	Adrenals
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 MATE to Test
TARE 1.385 No. 8, Female
14.627 gm

HEART	LUNG	LIVER	SPLEEN	KIDNEY	Adrenals
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 O-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

1.385

1.376

1.392

1.388

1.385

1.386

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. 8.406

2. 7.501

3. 8.263

4. 8.484

TARE

0. 1.378

0. 1.385

♀ 1.380

0. 1.383

7.028

6.116

6.883

7.101

LIVER weight

2.110

2.031

2.108

2.070

1.378

1.385

1.380

1.383

0.732

0.646

0.728

0.687

TEST No 14, Male, 100 m NW O-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

1.390

1.392

1.385

1.384

1.390

1.390

0.147

0.197

0.853

0.022

0.198

0.023

14 Apr 78

Hole 11 75 m WNW O-4 no mice

NEST - 14-16"

40" nest to entrance

30" nest to escape

*

Hole 12, 110 m NW O-4

nest 16-19" deep

29" to entrance

36" to escape

6 { 4 young pups (3 weeks)
♀, ♂

*

Hole 13, 56 m South O-4

15-18"

25" nest to entrance

35" nest to escape

2 mice

♂, ♀
pup

Hole 14, 75 m South O-4

13-16"

27" to entrance

33" to escape

activity at entrance

scanty nest

Hole 15

20 m WSW O-5

12-14"

27" to nest

33" to escape

No soil collected

1 mouse ♂

Spraying soil
old nest that he
was re doing

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"

no mice

EXIT

Circular

Small wet nest

nest

entrance

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

6 mice

4 pups + ♂ + ♀

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

* 2 implantations grossly

TARE 1.372

visible on right basal

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
36" entrance
40" across

no mice

Control

Top of hill - 100m south of telephone Road

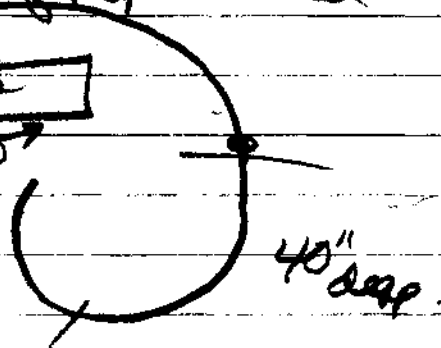
36" ~~deep~~ deep

5' to entrance

10' to exit

2 mice

♀, ♂



Control

100m North of Road

12-14" deep

18" to nest

20" to exit

Straight line

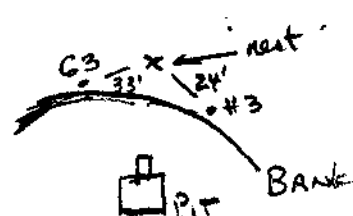
2 mice

♀, ♂

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

Heart	Lung	LIVER	Spleen	Kidney	Adrenals
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

Heart	Lung	LIVER	Spleen	Kidney	Adrenals
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

Animal
Liver
Previous Frozen

Body wt 13.706

Tare 1.373

12.423 + liver (0.159) = 13.182

Heart	Lung	LIVER	Spleen	Kidney	Adrenals
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) Hardstrand 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. ① 10 m South O-8 13 Apr 70

② 80 m North O-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 | } Each depth a mix of two holes, 100 m South & 100 m North of road on hill top. |
| S-2 | Control, 2-4, 14 Apr 78 | |
| S-3 | Control, 4-6, 14 Apr 78 | |
| S-4 | Control, Burrow mound | |

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. 0-4, 50 m ENE 13 Apr 78

40.4

15.4

25.0 gms

3. 0-9, 70 m SE 13 Apr 78

36.2

16.0

20.2 gms

4. 0-10, ~~110~~ 120 ft NW 13 Apr 78

44.2

15.9

28.3 gms

2 mice

5. 0-10, 10 m (30') NE

13 Apr 78

61.0

16.0

45.0

NESTS

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

3 mice

$$\begin{array}{r} 45.6 \\ 15.5 \\ \hline 30.1 \text{ gm} \end{array}$$

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

1 mouse

$$\begin{array}{r} 34.1 \\ 16.1 \\ \hline 18.0 \text{ gm} \end{array}$$

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

2 + 4 pups

$$\begin{array}{r} 48.7 \\ 16.0 \\ \hline 32.7 \text{ gm} \end{array}$$

9. 0-7, 10m South

2 + 4 pups

$$\begin{array}{r} 44.8 \\ 15.4 \\ \hline 29.4 \text{ gm} \end{array}$$

NESTS

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

2 mice

$$\begin{array}{r} 26.7 \\ \underline{15.9} \\ 10.8 \text{ gm} \end{array}$$

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

$$\begin{array}{r} 37.3 \\ \underline{15.9} \\ 21.4 \text{ gm} \end{array}$$

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

$$\begin{array}{r} 40.8 \\ \underline{15.8} \\ 25.0 \text{ gm} \end{array}$$

13 0-4

NEST - 17.3

14 0-4

NEST - 22.7

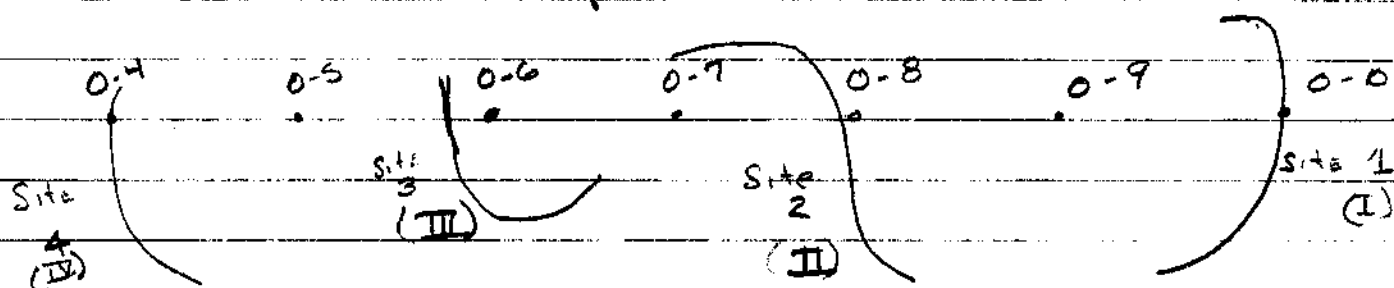
15-04, 100 m SE = 26.0

NESTS

16. Control, 100 m South of Road, hill top
41.5 gms 2 mice
17. Control, 100 m North of Road, hill top
65.7 gm 2 mice
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

