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**Report/Article Title**

Raw Data and Schedule for Beachmouse Dusting  
Study, Eglin AFB, 25 June - 22 July 1974

**Journal/Book Title**

**Year**

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**Color**



**Number of Images**

15

**Description Notes**

Filed by Alvin Young in a folder labeled: "Beachmouse  
Dusting Study, Eglin AFB, FL, 25 Jun - 22 Jul 74."

LABORATORY STUDY  
"BEACHMOUSE DUSTING STUDY"  
Eglin AFB, FL

RAW DATA

25 JUNE - 22 JULY 1974

L. G. Cockerham / G. V. White

HERBICIDE PROJECT

TEST

GROOMING STUDY

Amount of dust applied (mg)

ANIMAL	25 JUNE	28 JUNE	1 JULY	4 JULY	7 JULY	10 JULY	13 JULY	16 JULY	19 JULY	22 JULY	TOTAL	AVG
4	76	59	75	53	44	64	47	55	55	52	583	58.3
7	49	43	51	62	48	50	38	40	52	38	481	48.1
23	63	46	58	57	54	56	50	53	58	45	541	54.1
18	62	56	57	62	60	58	53	51	52	58	567	56.7
20	73	57	64	63	77	59	50	59	55	54	603	60.3
21	70	43	66	61	58	59	55	60	55	44	571	57.1
2	59	42	50	50	52	56	42	55	61	55	522	52.2
16	62	63	63	57	49	56	46	51	49	43	540	54.0
9	57	58	67	53	65	62	38	32	44	51	527	52.7
3	51	57	63	41	56	43	40	57	46	43	497	49.7
6	67	56	72	61	67	66	39	55	63	46	595	59.5
10	81	48	54	56	44	47	52	60	58	55	555	55.5

64.16 55.30 55.50 48.75 59.1 48.6

CONTROL  
GROOMING STUDY  
AMOUNT OF DUST APPLIED (mg)

ANIMAL	25 JUNE	28 JUNE	1 JULY	4 JULY	7 JULY	10 JULY	13 JULY	16 JULY	19 JULY	22 JULY	TOTAL	AVG
8	71	45	32	64	63	61	47	54	56	53	546	54.6
13	61	43	55	59	54	56	51	42	66	45	525	52.5
3	57	65	53	<del>48</del> 51	56	64	41	53	59	50	549	54.9
1	63	47	42	58	73	68	48	60	50	55	564	56.4
14	68	29	55	49	52	60	32	47	<del>40</del>	62	494	49.4
15	69	41	49	<del>46</del>	41	45	37	52	<del>68</del>	54	454	45.4
17	52	33	53	<del>55</del> 58	73	54	52	41	46	46	509	50.9
19	64	56	53	<del>59</del> 53	45	65	55	59	57	49	550	55.0
12	52	60	57	54	54	<del>42</del>	38	49	56	53	509	50.9
22	61	60	63	<del>63</del> 71	67	48	41	53	71	37	541	54.1

~~58.4~~  
61.8

~~47.9~~  
47.9

~~51.9~~  
51.9

55.00

59.10

56.20

43.60

50.9

~~52.00~~  
55.3

50.4

Average per dusting:

# Dusting Schedule

	M	T	W	Th	F	Sat	Sun
mar	<del>24</del>	25	26	27	28	29	30
APR	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23 Sample					

7 ju G<sub>7</sub> - testing  $\frac{1}{2}$  completed a female, no. 11 died today as a result of handling - it thrashed around and suffered a <sup>(hemorrhage)</sup> concussion. The animal was a ~~test~~ control; we now have 10 controls, 12 tests.

TEST ANIMALS

<u>NUMBER</u>	<u>SEX</u>	<u>APPLICATION</u>
2	♀	
16	♀	
18	♀	
20	♀	
21	♀	
4	♂	
5	♂	
6	♂	
7	♂	
9	♂	
10	♂	
23	♂	

CONTROL ANIMALS

<u>NUMBER</u>	<u>SEX</u>	<u>APPLICATION</u>
1	♀	
3	♀	
8	♀	
18	♀	
12	♂	
12	♂	
14	♂	
15	♂	
17	♂	
19	♂	
22	♂	

# CONTROL

15 JUNE 74

NUMBER	ORIG. WGT	NET RECOVERED	TARE WGT	AMT RECOVERED	AMT APPLIED
8	100	29	1.378	1.407	71
13	105	44	1.371	1.415	61
3	126	69	1.372	1.441	57
1	102	39	1.380	1.419	63
14	102	34	1.376	1.410	68
15	108	39	1.378	1.417	69
<del>11</del>	<del>100</del>	<del>39</del>	<del>1.377</del>	<del>1.416</del>	<del>61</del>
17	100	48	1.374	1.422	52
19	107	43	1.370	1.413	64
12	100	48	1.382	1.430	52
22	102	41	1.377	1.418	61
					<u>618</u>
					$\bar{X} = \frac{56.18}{61.8}$

28 JUNE 74

8	105	60	1.378	1.438	45
13	111	68	1.371	1.439	43
3	103	38	1.372	1.410	65
1	101	54	1.380	1.434	47
14	100	72	1.376	1.448	29
15	106	65	1.378	1.443	41
<del>11</del>	<del>106</del>	<del>57</del>	<del>1.377</del>	<del>1.434</del>	<del>49</del>
17	101	68	1.374	1.442	33
19	104	48	1.370	1.418	56
12	103	43	1.382	1.425	60
22	102	42	1.377	1.419	60
					<u>528</u>
					$\bar{X} = \frac{48.0}{47.9}$
					<del>47.9</del> 47.9

# Control

1 JULY 74

MG

NUMBER	ORIG WGT	NET RECOVERED	TARE WGT	AMT RECOVERED	AMT APPLIED
8	105	73	1.378	1.451	32
13	101	46	1.371	1.417	55
3	101	48	1.372	1.420	53
1	104	62	1.380	1.442	42
14	107	52	1.376	1.428	55
15	105	56	1.378	1.434	49
11	103	43	1.377	1.420	60
17	101	48	1.374	1.422	53
19	101	48	1.370	1.418	53
12	100	43	1.382	1.425	57
22	102	39	1.377	1.416	63
				<u>572</u>	

$$\bar{X} = \frac{572}{11} = 52.0$$


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$$51.9$$

4 JULY 74

MG

8	100	36	1.378	1.414	64
13	102	45	1.371	1.415	57
3	105	54	1.372	1.426	51
1	102	44	1.386	1.424	50
14	106	57	1.376	1.433	49
15	104	60	1.378	1.438	44
11	106	60	1.377	1.437	46
17	104	45	1.374	1.419	59
19	100	47	1.370	1.417	53
12	100	46	1.382	1.428	54
22	108	37	1.377	1.414	21
				<u>606</u>	

$$\bar{X} = \frac{606}{11} = 55.0$$


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# Control

7 JULY 74

NUMBER	M.G. ORIG WGT	NET RECOVERED	TARE WGT	AMT RECOVERED	<u>mg</u> AMT APPLIED
8	101	.038	1.378	1.416	63
13	105	.051	1.371	1.422	54
3	102	.046	1.372	1.418	56
1	100	.027	1.380	1.407	73
14	102	.050	1.376	1.426	52
15	102	.051	1.378	1.429	41
<del>11</del>	<del>100</del>		1.377	1.4	Died
17	100	.047	1.374	1.421	73
19	104	.059	1.370	1.429	45
12	102	.054	1.382	1.430	54
22	102	.035	1.377	1.412	67

$\bar{X} = 58.10$

10 JULY 74

	ORIG WT	NET Recovered	TARE WT	AMT Recovered	AMT Applied
8	104	43	1.378	1.421	<del>57</del> 61
13	103	47	1.371	1.418	56
3	102	38	1.372	1.410	62
1	103	35	1.380	1.415	68
14	102	41	1.376	1.417	60
15	100	55	1.378	1.431	45
<del>11</del>			1.377	1.4	
17	100	46	1.374	1.420	54
19	101	36	1.370	1.408	68
12	101	59	1.382	1.423	42
22	101	54	1.377	1.431	<del>48</del> 47

$\bar{X} = 56.2$

10 ~~56.2~~

# Control

13 JULY 74

NUMBER	ORIG WGT	NET RECOVERED	TARE WGT	AMT RECOVERED	AMT APPLIED
8	104	57	1.378	1.435	47
13	100	49	1.371	1.430	51
3	102	61	1.372	1.433	41
1	103	55	1.380	1.435	48
14	100	68	1.376	1.444	32
15	102	65	1.378	1.443	37
11			1.377	1.4	
17	101	48	1.374	1.422	52
19	100	45	1.370	1.415	55
12	100	68	1.382	1.450	32
22	100	59	1.377	1.436	41

436

$$\bar{X} = 43.6 \text{ mg}$$

16 JULY 74

8	100	46	1.378	1.424	54
13	100	58	1.371	1.429	42
3	100	47	1.372	1.419	53
1	105	45	1.380	1.425	60
14	101	54	1.376	1.430	47
15	101	49	1.378	1.427	52
11			1.377	1.4	
17	101	60	1.374	1.434	46
19	101	43	1.370	1.413	58
12	104	55	1.382	1.437	49
22	103	50	1.377	1.427	53

$$\bar{X} = 50.9$$

# Control

22 JULY 74



NUMBER	mg ORIG WGT	NET RECOVERED	TARE WGT	AMT RECOVERED	AMT APPLIED
8	103	50	1.378	1.428	53
13	104	59	1.371	1.430	45
3	103	53	1.372	1.425	<del>50</del>
1	100	45	1.380	1.425	55
14	101	39	1.376	1.415	62
15	100	46	1.378	1.424	54
<hr/>			1.377	1.4	
17	101	55	1.374	1.430	48
19	101	52	1.370	1.422	<del>49</del>
12	103	50	1.382	1.432	53
22	102	65	1.377	1.442	37

$$\bar{x} = \frac{50.4}{458}$$

19 JULY 74

8	103	47	1.378	1.425	58
13	105	44	1.371	1.415	<del>58</del> 61
3	101	42	1.372	1.414	<del>58</del> 59
1	105	55	1.380	1.435	<del>45</del> 50
14	101	61	1.376	1.437	<del>37</del> 40
15	104	48	1.378	1.420	<del>50</del> 62
<hr/>			1.377	1.4	
17	102	56	1.374	1.430	<del>58</del> 46
19	105	53	1.370	1.423	<del>58</del> 47
12	100	44	1.382	1.426	56
22	100	29	1.377	1.406	71

$$\bar{x} = \frac{55.3}{537}$$

TEST (Dust  $\geq 2.24$  ppb TCDD)

25 JUNE 74

NUMBER	ORIG	WGT	NET RECOVERED	TARE WGT	AMT RECOVERED	AMT APPLIED
10	101		20	1.379	1.399	81
6	100		33	1.381	1.414	67
5	100		49	1.382	1.431	51
9	100		43	1.377	1.420	57
16	102		40	1.389	1.429	62
2	100		41	1.390	1.431	59
21	101		31	1.385	1.416	70
20	104		31	1.380	1.411	73
18	100		38	1.387	1.425	62
23	100		37	1.382	1.419	63
7	100		51	1.379	1.430	49
4	100		24	1.387	1.411	76
						<u>770</u>
						$\bar{X} = 64.16$

28 JUNE 74

10	103		55	1.379	1.434	48
6	102		46	1.381	1.427	56
5	108		51	1.382	1.433	57
9	100		42	1.377	1.419	58
16	105		42	1.389	1.431	63
2	101		59	1.390	1.449	42
21	105		62	1.385	1.447	43
20	108		51	1.386	1.431	57
18	106		50	1.387	1.437	56
23	108		62	1.382	1.444	46
7	102		59	1.379	1.438	43
4	102		43	1.387	1.430	59
						<u>628</u>
						$\bar{X} = 52.33$

test

1 JULY 74

NUMBER	ORIG WGT	NET RECOVERED	TARE WGT	AMT RECOVERED	AMT APPLIED
10	100	46	1.379	1.425	54
6	104	32	1.381	1.413	72
5	101	38	1.382	1.420	63
9	106	39	1.377	1.416	67
16	106	43	1.389	1.432	63
2	101	51	1.390	1.441	50
21	107	41	1.385	1.426	66
20	108	44	1.380	1.424	64
18	100	43	1.387	1.430	57
23	104	46	1.382	1.428	58
7	104	53	1.379	1.432	51
4	108	33	1.387	1.420	75
					<hr/>
					740
					$\bar{x} = 61.6$

4 JULY 74

10	102	46	1.379	1.425	<del>56</del>
6	102	41	1.381	1.422	<del>61</del>
5	103	62	1.382	1.444	<del>65</del> 4
9	105	52	1.377	1.429	<del>72</del> 53
16	100	43	1.389	1.432	57
2	101	51	1.390	1.441	<del>77</del> 50
21	100	39	1.385	1.424	61
20	104	41	1.380	1.421	<del>57</del> 63
18	108	46	1.387	1.433	<del>57</del> 62
23	101	44	1.382	1.426	<del>57</del> 57
7	103	41	1.379	1.420	<del>57</del> 62
4	102	49	1.387	1.436	<del>57</del> 53
					<hr/>
					606
					$\bar{x} = 55.5$

# Test

7 JULY 74

NUMBER	ORIG	WGT	mg NET RECOVERED	TARE WGT	AMT RECOVERED	mg AMT APPLIED
10	101		57	1.379	1.436	44
6	107		40	1.381	1.421	67
5	102		46	1.382	1.428	56
9	107		42	1.377	1.419	65
16	106		57	1.389	1.446	49
2	102		50	1.390	1.440	52
21	100		42	1.385	1.427	58
20	106		29	1.380	1.409	77
18	107		47	1.387	1.434	60
23	103		49	1.382	1.431	54
7	105		57	1.379	1.436	48
4	101		44	1.387	1.430	<u>44</u>

$$\bar{X} = 56.1 \text{ mg}$$

10 JULY 74

	ORIG WGT	mg NET RECOVERED	TARE WGT	AMT RECOVERED	AMT APPLIED
10	100	53	1.379	1.432	47
6	104	38	1.381	1.419	66
5	101	58	1.382	1.440	43
9	100	38	1.377	1.415	62
16	102	46	1.384	1.435	<del>58</del> 56
2	100	44	1.390	1.434	56
21	102	43	1.385	1.428	59
20	101	50	1.380	1.430	<del>50</del> 51
18	102	46	1.387	1.433	56
23	101	45	1.382	1.427	56
7	100	50	1.379	1.429	50
4	101	37	1.387	1.424	<del>65</del> 64

$$12 \sqrt{652} = 543$$

$$\bar{X} = 54.3$$

# Test

13 JULY 74

NUMBER	ORIG WGT	NET RECOVERED	FARE WGT	AMT RECOVERED	AMT APPLIED
10	105	53	1.379	1.432	53
6	102	63	1.381	1.444	39
5	104	64	1.382	1.446	40
9	101	63	1.377	1.443	38
16	102	56	1.389	1.445	46
2	100	58	1.390	1.448	42
21	106	51	1.385	1.436	55
20	100	50	1.380	1.430	50
18	103	50	1.387	1.437	53
23	103	53	1.382	1.440	50
7	103	55	1.379	1.434	48
4	100	53	1.387	1.440	47
					<u>560</u>

$$\bar{X} = \underline{46.6 \text{ mg}}$$

16 JULY 74

10	100		1.3779	1.419	60
6	101	43	1.381	1.424	58
5	105	48	1.382	1.430	57
9	102	70	1.377	1.447	32
16	103	52	1.389	1.441	51
2	100	45	1.390	1.435	55
21	100	40	1.385	1.425	60
20	100	41	1.380	1.421	59
18	105	54	1.387	1.441	51
23	100	47	1.382	1.429	53
7	101	61	1.379	1.440	40
4	100	42	1.387	1.429	58

$$\bar{X} = \underline{52.8}$$

# Test

22 JULY 74

NUMBER	MG ORIG WGT	NET RECOVERED	TARE WGT	AMT RECOVERED	AMT APPLIED
10	101	46	1.379	1.425	55
6	102	56	1.381	1.437	46
5	102	57	1.382	1.437	43
9	100	49	1.372	1.426	51
16	101	57	1.389	1.446	43
2	100	45	1.390	1.445	55
21	104	56	1.385	1.447	44
20	102	46	1.380	1.426	54
18	103	45	1.387	1.432	58
23	102	57	1.382	1.439	45
7	103	62	1.379	1.441	58
4	103	48	1.387	1.435	52
					<u>584</u>
					$\bar{x} = 48.6$

19 JULY 74

10	104	46	1.379	1.425	58
6	101	38	1.381	1.419	63
5	100	54	1.382	1.436	46
9	103	59	1.397	1.436	47
16	101	51	1.389	1.440	<del>47</del> 50
2	100	39	1.390	1.429	61
21	100	45	1.385	1.430	55
20	100	45	1.380	1.425	55
18	100	48	1.387	1.435	52
23	103	44	1.382	1.426	59
7	100	48	1.379	1.427	52
4	103	48	1.387	1.435	55
					<u>656</u>
					$\bar{x} = 52.4541$