UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

BIOLOGICAL REPORT OF ANALYSIS

1. SAMPLE NO. MB 598
2. DATE COLLECTED N/A
3. REGION N/A

SAMPLE IDENTIFICATION

4. LOT OR CODE NO(S). N/A
5. EPA REGISTRATION NO. N/A
6. ESTABLISHMENT NO. N/A
7. PRODUCT NAME Pounce (Ambush)
8. PRODUCER NAME AND ADDRESS *(Include ZIP code)* N/A
9. DEALER NAME AND ADDRESS *(Include ZIP code)*

10. PHYSICAL FORM		EMULS. CONC.		PRESS. SPRAY		DUST		GRANULAR
		WET. POWDER		AEROSOL		BAIT	x	OTHER brown liquid

11. INGREDIENTS

Pounce (tech) 94.4%

TEST

12. TYPE OF TEST: 28 day life cycle Test # 2420

13. TEST ORGANISM(S): Daphnia magna
Source: TABU stock colonies

14. METHOD NO. ASTM draft 4 modified
15. DURATION 28 days
16. CONCENTRATION 0.017-0.056ppb
17. DILUENT acetone

18. SUMMARY

Concentration based on total formulation.
0.56 ppb - The total production of young per adult daphnia was significantly less than for the control (95% level)
0.14 ppb - The total production of young per adult daphnia was significantly greater than for the esntrols (95% level).
48 hour EC50 Pounce = .70 ppb

19. RESULTS

	Concentration in ppb							
	.56	.28	.14	.07	.035*	.017	SC	C
Adult survival (%)	90	100	90	90	65*	95	95	94
Average production per adult	56.5	62.8	74.5	69.7	73.3*	60.0	63.4	65

95% confidence range on 65 (57.3 - 72.7)
* Concentration of 0.035 ppb omitted from calculation due to large variance if included--no significant difference is detected--95% confidence range being (54-76).
ASTM Draft 4 modified, 4 beakers per concentration, 5 daphnia per beaker.

20. TESTER'S INITS.	21. SIGNATURE OF LAB SUPERVISOR	22. LABORATORY	23. DATE
WPS	Thomas Duncan	Terrestrial & Aquatic Biology	7/8/79

EPA Hq Form 8510-14 (10-76)

LABORATORY COPY

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0.56 ppb - The total production of young per adult daphnia was significantly less than for the control (95% level)

0.14 ppb - The total production of young per adult daphnia was significantly greater than for the controls (95% level).

48 hour EC50 Pounce = .70 ppb

NAME AND TITLE OF EPA OFFICIAL

Sec. 9(a) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended *(7 U.S.C. 136g)* requires that a copy of the analysis of any sample collect in connection with the enforcement of the Act be furnished promptly to the owner, operator or agent in charge of the establishment where the sample was collected. This section of the Act is quoted on the reverse of this form.

The information contained in this report should not be used in the labeling, advertising, or other promotion of the product analyzed.

Additional information regarding results of analysis may be obtained from the individual listed below.

NAME AND TITLE OF EPA OFFICIAL		ADDRESS OF REGIONAL OFFICE *(Include ZIP code)*
PHONE NO.	DATE	

EPA Hq Form 8510-14 (10 76)

ESTABLISHMENT COPY

Sec. 9. INSPECTION OF ESTABLISHMENTS, ETC.

(a) In General. – For purposes of enforcing the provisions of this Act, officers or employees duly designated by the Administrator are authorized to enter at reasonable times, any establishment or other place where pesticides or devices are held for distribution or sale for the purpose of inspecting and obtaining samples of any pesticides or devices, packaged, labeled, and released for shipment, and samples of any containers or labeling for such pesticides or devices.

Before undertaking such inspection, the officers or employees must present to the owner, operator; or agent in charge of the establishment or other place where pesticides or devices are held for distribution or sale, appropriate credentials and a written statement as to the reason for the inspection, including a statement as to whether a violation of the law is suspected. If no violation is suspected, an alternate and sufficient reason shall be given in writing. Each such inspection shall be commenced and completed with reasonable promptness. If the officer or employee obtains any samples, prior to leaving the premises, he shall give to the owner, operator, or agent in charge a receipt describing the samples obtained and, if requested, a portion of each such sample equal in volume or weight to the portion retained. If an analysis is made of such samples, a copy of the results of such analysis shall be furnished promptly to the owner, operator, or agent in charge.

PRODUCT: Ambush

TEST # 2489 ~~2487~~

TYPE TEST: Lifecycle

DATE: 8/31

Conc. #	1	2	3	4	5	6	7	8
Nominal Conc. (ppm)	.56	.28	.14	.07	.035	.017	SC	C

SS I	0.1gm topicont ↑ 100 ml Acetone
SS II	1 ml of SS I ↑ 100 ml H_2O
SS III	1 ml of SS II ↑ 100 ml H_2O
SS IV	10 ml of SS III ↑ 100 ml H_2O
Conc 1	5.6 ml of SS III ↑ 1000 ml H_2O
Conc 2	2.8 ml of SS III ↑ 1000 ml H_2O
Conc 3	1.4 ml of SS III ↑ 1000 ml H_2O
Conc 4	7 ml of SS III ↑ 1000 ml H_2O
Conc 5	2.5 ml of SS IV ↑ 1000 ml H_2O
Conc 6	1.7 ml of SS IV ↑ 1000 ml H_2O
SC A	1 ml Acetone ↑ 100 ml H_2O
SC B	1 ml of SC A ↑ 100 ml H_2O
SC	5.6 ml of SC B ↑ 1000 ml H_2O

PRODUCT: Pounce (Ambush)	TEST # 2516	DATE: 7/6
TYPE TEST:	DAY- 0	TEMP. °C :
SAMPLES:		

CONC. #	1	2	3	4	5	6	7	8
Conc.(pp) Nominal								
Conc.(B) Analysed								
Conc.(A) Analysed								
pH (B)								7.87
pH (A)								
D.O. (B) ppm								7.4
D.O. (A) ppm								
Total Hardness (ppm)								215
Alkalinity (ppm)								105

BEAKER #	Total Number of young produced / Number of live originals							

SAMPLE NO.		SAMPLE NAME	Pownee			TEST #	2516
TYPE TEST		TEST DAY #	3	TEMP. °C	20	DATE	7/9
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. # (ppb)	.56	.28	.14	.07	.035	.017	SC	C
pH (BEFORE)								
pH (AFTER)	7.73			7.73		7.73		7.74
D.O. (B)								
D.O. (A)	5.7			5.7		5.8		6.1
T.HARDNESS								
ALKALINITY								

BEAKER #	1	2	3	4	5	6	SC	C
1	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5
2	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5
3	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5
4	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5
5								0/5
6								0/5
7								0/5
8								0/5
TOT. REPRO.								
TOT. ADULTS								
AVG. REPRO.								

SAMPLE NO.		SAMPLE NAME	POUNCE (AMBUSH)			TEST #	2516
TYPE TEST		TEST DAY #	5	TEMP. °C	20	DATE	7/11
SAMPLES:							
CONC. NOMINAL (ppB)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #	.56	.28	.14	.07	.035	.017	SC	C				
pH (BEFORE)								7.98				
pH (AFTER)	7.69		7.66			7.72		7.73				
D.O. (B)								6.8				
D.O. (A)	5.1		4.8			5.6		5.6				
T.HARDNESS								220				
ALKALINITY								192				

BEAKER #	1	2	3	4	5	6	SC	C				
1	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5				
2	0/5	0/5	0/5	0/5	0/4	0/5	0/5	0/5				
3	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5				
4	0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/1 No Mortality				
5								0/5				
6								0/5				
7								0/5				
8								0/5				
TOT. REPRO.												
TOT. ADULTS												
AVG. REPRO.												

SAMPLE NO.		SAMPLE NAME	Tomcod Onebuck			TEST #	2516
TYPE TEST		TEST DAY #	7	TEMP. °C	20	DATE	7/13
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #	1	2	3	4	5	6	SC	C	C			
pH (BEFORE)								7.92				
pH (AFTER)												
D.O. (B)								8.3				
D.O. (A)	8.2			8.4		8.2		9.8				
T.HARDNESS								~~200~~				
ALKALINITY								~~90~~				

BEAKER #	1	2	3	4	5	6	SC	C				
1	5	5	4	5	5	5	5	5				
2	5	5	5	5	4	5	5	5				
3	5	5	5	5	5	5	5	5				
4	5	5	5	5	3/4	5	5	1				
5								5				
6								4				
7								5				
8								5				
TOT. REPRO.												
TOT. ADULTS												
AVG. REPRO.												

SAMPLE NO.		SAMPLE NAME	Pierce			TEST #	2516
TYPE TEST		TEST DAY #	10	TEMP. °C	25	DATE	7/16
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #												
pH (BEFORE)								7.75				
pH (AFTER)												
D.O. (B)								7.0				
D.O. (A)												
T.HARDNESS								200				
ALKALINITY								98				

BEAKER #	1	2	3	4	5	6	5c	C				
1	8.2 41/5	11.6 58/5	10 40/4	13.2 66/5	10 53/5	13 65/5	12.4 62/5	12.9 64/5				
2	9 45/5	11.0 57/5	10.6 53/5	12.6 63/5	12 48/4	15 75/5	16.6 83/5	14.2 71/5				
3	15.8 65/5	12.9 61/5	10.4 52/5	10 50/5	54/5	12.6 60/6	12 60/5	15.4 77/5				
4	6 30/5	9.4 47/5	9.8 49/5	11 55/5	12.5 58/4	17.4 87/5	11 55/5	9/1				
5								10 50/5				
6								15.7 63/4				
7								12 60/5				
8								14.4 72/5				
TOT. REPRO.												
TOT. ADULTS												
AVG. REPRO.												

SAMPLE NO.		SAMPLE NAME	Pounce - Ambush			TEST #	
TYPE TEST			TEST DAY #	12	TEMP. °C	DATE	7/18
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #												
pH (BEFORE)												
pH (AFTER)												
D.O. (B)												
D.O. (A)												
T.HARDNESS												
ALKALINITY												

BEAKER #	1	2	3	4	5	6	SC	C				
1	24.2 64/4	24.6 85/5	29 76/4	30.4 86/5	~~103~~ 0	30 85/5	25.4 65/5	26.6 69/5				
2	17.2 41/5	25.2 69/5	31 102/5	28.2 78/5	31.25 79/4	33 90/5	33 82/5	27.6 67/5				
3	29 69/5	28.7 56/5	28.2 89/5	28 90/5	25.4 73/5	27.0 75/5	26.4 74/5	28.8 67/5				
4	17 55/5	19.6 51/5	28.6 76/4	30.4 97/5	29.5 60/4	25.1 53/5	27.6 88/5	30 27/1				
5								27 85/5				
6								28.45 55/4				
7								27 75/5				
8								29.6 76/5				
TOT. REPRO.												
TOT. ADULTS												
AVG. REPRO.												

SAMPLE NO.		SAMPLE NAME	Pounce			TEST #	
TYPE TEST		TEST DAY #	14	TEMP. °C		DATE	
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #												
pH (BEFORE)												
pH (AFTER)	7.71		7.74			7.87		7.68				
D.O. (B)												
D.O. (A)	8.2		8.2			8.2		8.2				
T.HARDNESS												
ALKALINITY												

BEAKER #	1	2	3	4	5	6	SC	C				
1	1/4	0/5	10/4	0/5	—	0/5	14/5	11/5				
2	33/5	17/5	4/5	0/5	0/4	1/5	0/5	0/5				
3	10/5	3/5	1/5	12/5	9/5	0/5	5/5	9/5				
4	4/5	29/5	0/4	0 5	20/4	11/5	3/5	0/1				
5								8/5				
6								0/4				
7								5/5				
8								0/5				
TOT. REPRO.												
TOT. ADULTS												
AVG. REPRO.												

SAMPLE NO.		SAMPLE NAME	Pounce - Ambush			TEST #	
TYPE TEST		TEST DAY #	17	TEMP. °C	20	DATE	
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #	1	2	3	4	5	6	SC	C
pH (BEFORE)								7.66
pH (AFTER)								
D.O. (B)								8.5
D.O. (A)								
T.HARDNESS								175
ALKALINITY								95

BEAKER #	1	2	3	4	5	6	SC	C
1	10/4	13/5	47/4	20/5	—	32/5	41/5	36/5
2	5/5	31/5	48/5	61/5	47/4	34/5	23/5	37/5
3	35/5	28/5	43/5	42/5	38/5	14/5	18/5	36/5
4	20/5	33/5	50/4	21/4	54/4	23/5	26/5	~~20~~ 0
5								24/5
6								50/4
7								27/5
8								37/5
TOT. REPRO.								
TOT. ADULTS								
AVG. REPRO.								

SAMPLE NO.		SAMPLE NAME				TEST #	
TYPE TEST		TEST DAY #	19	TEMP. °C		DATE	7/25
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #												
pH (BEFORE)												
pH (AFTER)	7.85		7.83			7.87		7.901				
D.O. (B)												
B.O. (A)												
T.HARDNESS												
ALKALINITY												

BEAKER #	1	2	3	4	5	6	5c	C				
1	68/4	81/5	19/4	72/5	—	70/5	59/5	69/5				
2	53/5	52/5	30/5	43/5	54/4	72/5	69/5	75/5				
3	42/5	65/5	13/5	38/4	51/5	86/5	56/5	53/5				
4	53/4	52/5	53/4	105/4	45/4	accident 6/5	76/5	=1				
5								47/5				
6								43/4				
7								67/5				
8								58/5				
TOT. REPRO.												
TOT. ADULTS												
AVG. REPRO.												

6/4 I dumped one not come as I saw it live

SAMPLE NO.		SAMPLE NAME	Pounce - Ambush			TEST #	
TYPE TEST		TEST DAY #	21	TEMP. °C	20	DATE	7/27
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #	1	3	6	C
pH (BEFORE)	7.99	8.00	8.02	7.990
pH (AFTER)	7.70	7.79	7.77	7.79
D.O. (B)	9.0	9.0	9.0	8.0
D.O. (A)	6.1	6.3	6.3	6.6
T.HARDNESS				187
ALKALINITY				95

BEAKER #	1	2	3	4	5	6	SC	C
1	0/4	21/5	58/4	35/5	—	16/5	3/7/5	32/5
2	3/5	21/5	46/5	27/5	2/4	17/5	2/3 5	21/5
3	8/5	22/5	51/5	365	2/5	4/5	4/1 5	22/5
4	0/4	7/5	24/4	10/4	0/4	5/5	2/5	—
5								52/5
6								23/4
7								19/5
8								33/5
TOT. REPRO.								
TOT. ADULTS								
AVG. REPRO.								

SAMPLE NO.		SAMPLE NAME	Am Bush Pounce			TEST #	
TYPE TEST		TEST DAY #	24	TEMP. °C		DATE	7/30
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #												
pH (BEFORE)								7.72				
pH (AFTER)												
D.O. (B)								7.6				
B.O. (A)												
T.HARDNESS								186				
ALKALINITY								97				

BEAKER #	1	2	3	4	5	6	SC	C				
1	5/4	6/5	6/4	9/5	—	12/5	13/5	8/5				
2	0/5	3/5	8/5	6/5	9/4	4/5	10/5	10/5				
3	7/5	20/5	3/5	11/5	10/5	12/5	11/5	12/5				
4	3/4	0/5	7/4	9/4	5/4	5/5	7/5	—				
5								0/5				
6								9/4				
7								12/5				
8								10/5				
TOT. REPRO.												
TOT. ADULTS												
AVG. REPRO.												

SAMPLE NO.		SAMPLE NAME	Pounce			TEST #	
TYPE TEST		TEST DAY #	28	TEMP. °C		DATE	8/3
SAMPLES:							
CONC. NOMINAL (pp)		CONC. ANALYSED	BEFORE		AFTER		

CONC. #												
pH (BEFORE)												
pH (AFTER)												
D.O. (B)												
D.O. (A)												
T.HARDNESS												
ALKALINITY												

BEAKER #	1	2	3	4	5	6	5c	C				
1	63/4	54/5	55/4	50/5	—	19/4	43/5	40/4				
2	63/5	54/5	66/5	32/4	50/4	37/5	36/5	42/5				
3	56/5	58/5	56/5	74/5	23/5	4/5	39/4	45/5				
4	57/4	59/5	83/4	24/4	66/4	33/5	45/5	—				
5								67/5				
6								40/4				
7								32/5				
8								34/5				
TOT. REPRO.												
TOT. ADULTS	90	10	90	90	65%	95%	95%	94.3%				
AVG. REPRO.												

35 [350/3/2 100

Control

	10	12	14	17	19	21	24	28	
1	12.8	26.6	28.8	36	48	54.4	56	66 (4)	
2	14.2	27.6	—	35	50	54.2	56.2	64.6	65
3	15.4	28.8	30.6	37.8	48.4	52.8	55.2	64.2	SD 3.34
4	—								SE 1.26
5	10	27	28.6	33.4	42.8	53.2	—	66.6	
6	15.7	29.4	—	41.9 (4)	52.6 (4)	58.3 (4)	60.6 (4)	70.5 (4)	
7	12	27	28	33.4	46.8	50.6	53.0	59.4	
8	14.4	29.4	—	37.0	48.6	55.2	57.2	64.0	

SC

	10	12	14	17	19	21	24	28	
1	12.4	25.4	28.2	36.4	46.4	53.8	56.4	65	
2	16.6	33.0	33.0	37.6	51.4	56.0	58.0	65.2	63.4
3	12.0	26.8	27.8	31.4	42.6	50.8	53.0	60.2 (4)	SD 2.31
4	11	27.6	28.2	38.4	48.6	52.8	54.2	63.2	SE 1.16

6

	10	12	14	17	19	21	24	28	
1	13	30	30	36.4	50.4	53.6	57.0	61.7 (4)	
2	15	33	33.2	40.0	54.4	57.8	60.6	68.0	60.6
3	12	27	27	29.8	47.0	47.8	50.2	53	SD 6.18
4	17.4	25.1	27.3	31.9	49.1	50.1	53.1	59.7	SE 3.09

5

	10	12	14	17	19	21	24	28	
1	10	—	—	—	—	—	—	—	
2	12 (4)	31.75 (4)	31.25 (4)	43.5 (4)	57 (4)	62.7 (4)	64.9 (4)	77.4 (4)	73.27
3	10.8	25.4	27.2	34.8	45.6	51.4	53.4	58.0	SD 13.68
4	14.5 (4)	29.5 (4)	34.5 (4)	48 (4)	64.2 (4)	66.7 (4)	67.9	84.4	SE 7.69

4/	10	12	14	17	19	21	24	28	
1	13.2	30.4	30.4	34.4	48.8	55.8	57.6	67.6	
2	12.6	28.2	28.2	40.4	49.0	54.4	58.2	66.2 (4)	69.7
3	10.0	28	30.4	38.8	48.3	55.5	57.7	72.5	SD 3.28
4	11.0	30.4	30.4	35.6 (4)	61.8 (4)	64.3 (4)	66.8 (4)	72.5 (4)	SE 1.642

3/	10	12	14	17	19	21	24	28	
1	10	29 (4)	31.5 (4)	43.2 4	46.4 4	60.9 (4)	63.4 (4)	77.1 (4)	74.47
2	10.6	31	31.8	41.4	47.4	56.6	58.2	71.4	SD 7.48
3	10.4	28.2	28.4	37.0	39.6	48.8	54.8	66.0	SE 3.74
4	9.8	28.8 (4)	28.8 4	41.3 (4)	55.0 (4)	61.0 (4)	62.7 (4)	83.4 (4)	

2/	10	12	14	17	19	21	24	28	
1	11.6	28.6	28.6	31.2	47.4	51.6	52.8	63.6	62.77
2	11.4	25.2	28.6	34.8	46.0	50.2	52.8	63.6	SD 1.228
3	12.5	23.7	24.3	29.9	42.9	47.3	51.3	62.9	SE 0.614
4	9.4	19.6	25.4	32.0	45.8	47.2	49.2	61.0	

1/	10	12	14	17	19	21	24	28	
1	8.2	24.2	24.45 4	26.9 (4)	42.9 (4)	42.9 4	46.6 4	62.35 4	
2	9	17.2	23.8	30.2	41.2	41.8	41.8	54.4	56.55
3	13.8	27.0	29.0	36.0	44.4	46.0	47.4	58.6	SD 4.96
4	6	17.0	17.8	23.0	36 (4)	36 (4)	36.7 "	50.9 "	SE 2.48

C 7 34

SC 4 ← -2.4

6 4 1.4

4 4

C 29680.970 − $\frac{(455.3)^2}{7}$ 29614.0128 −66.9571

SC 16094.320 − $\frac{252.6}{4}$ −16078.24 = −16.0800

6 14803.980 − $\frac{(242.4)^2}{4}$ −14689.440 = 114.54

5

4 19464.700 − $\frac{278.82}{4}$ −19432.360 = −32.340

3 22.353.930 − $\frac{897.9}{254.1}$ −22186.1025 −167.8275

2 15767.330 − −15762.8025 − 4.3275

−1 12871.6525 226.25 12.797.2656 − 74.3869

476.6510 19.8608 $= S^2$ $S = 4.4565$ 476.6510

31 − 7 24 df

12.2994 $t = 2.76$

Cys SC 10.8293 x .62678 8.709356

$\frac{219.8}{3}$

5 16478.120 −16104.013 374.106 32.3725

34 − 8 (26)

Sp 5.720

$\frac{55.03}{75.03}$ 10.003 = 2.79 X .69006

15.958% X

11.0125

54.027 76.052

6.902

Q 4356 + 4173.16 + 4121.64 + 4135.56 + 4970.25 + 3528.36 + 4096.0 = 29680

29680.97 - 603.5714

417.1956	49.50 / 6	4.35
319.2896	35.60 / 4	5.196
601.3505	54.39 / 5	3.000
		4.582

316.840

1338.4357 - 408.3750 - 422.4533 - 591.6544 2

1316.8694

412.7956 -	408.3750	4.4206
319.2896 -	316.840	2.4496
601.3505	591.6544	9.6961