

108801

VALIDATION SHEET

CRF # _____ PAGE 1 OF 1

FORMULATION:			IA	IB	T	FW	EC	R	
% a.i.	SC #	CHEMICAL NAME	Validator:				Date:		
Tech.		CGA-24705 (Metolachlor)	Labuda				02 December, 1977		
			Test Type: Warmwater Fish Acute 96-hour LC ₅₀						
			Test ID.# ESF-4						

CITATION: Sachesse, K., and L. Ullman.
1974. Acute Toxicity to Rainbow Trout,
Crucian Carp, Channel Catfish, Blue-
gill, and Guppy of Technical CGA-24705.
Ciba-Geigy, Ltd.

Validation Category:

Core

RESULTS: 96-hour LC₅₀ for *Ictalurus punctatus* (?) was reported to be
4.9 ppm (95% C.I. = 3.6-6.8 ppm).

VALIDATION CATEGORY RATIONALE: The species tested was *Ictalurus punctatus* rather than *Ictalurus ameiurus* as reported.

CATEGORY REPAIRABILITY/RATIONALE: NA

Test Species Tetralurus aneurus (?) PROBIT ANALYSIS WORK SHEET Chemical Metolachlor
 Source Aquarium Baste, Switzerland Date Tested 4 Jan. 1974
 Period 96 hours Analysis by: Sachsse, K., L. Ullmann; DVM, 1974
 (Name) (Title) (Date)

Concentration PPM	No. dead/ No. tested	Observed % Mortality	Expected % Mortality	O-E	Contributions to Chi (Nomo. #1)
10	12/12	100			
6.5	7/12	58			
2.1	1/12	8			
1	0/12	0			

Total Fish Tested = _____
 Number of Doses (K) = _____
 Degrees of freedom (K-2) = _____

Chi² = Total Cont. $\times \frac{\text{Total Fish}}{\text{Total Fish}}$ = 2.334
 to Chi K
 Chi² (p=.05) for 2 deg of freedom = 5.99

DETERMINE FLC₅₀:

LC₈₄ _____
 LC₅₀ _____
 LC₁₆ _____

$S = \frac{LC_{84} - LC_{50}}{LC_{50} - LC_{16}} = \frac{LC_{84} - LC_{50}}{LC_{50} - LC_{16}}$
 $N'(\text{Fish used between } 16\% \text{ and } 84\% E) = \frac{N}{\sqrt{N}}$
 (Nomo. #2) = _____

FLC₅₀ = $S^{2.77/\sqrt{N'}}$ = S _____

DETERMINE fs:

R (Largest/Smallest dose plotted) _____
 S (As determined above) _____
 A (Nomo. #3 using R and S) _____

fs = $A^{10(K-1)/K\sqrt{N'}}$ = A _____ (Nomo. #2) = _____

DETERMINE FLC_y:

(fs)^x = fs^{2.33} or 1.30 (Table 3 and Nomo. #2) = _____

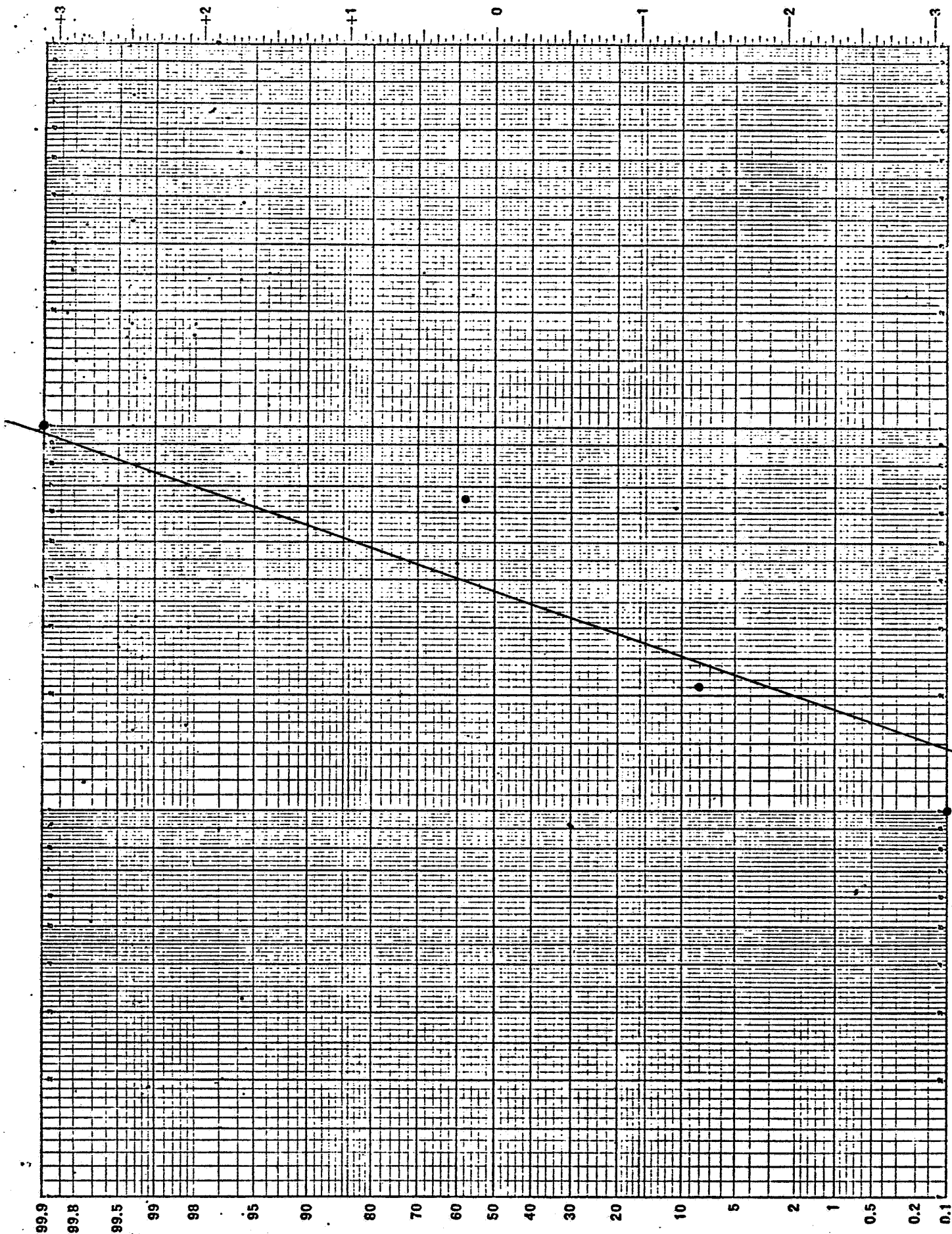
FLC_y (Nomo. #4 using (fs)^x and FLC₅₀) = _____

RESULTS (LC_x and Confidence Limits at p = .05):

LC₁ = _____
 Lower Limit (LC₁/LC_y) _____
 Upper Limit (LC₁ X LC_y) _____

LC₅₀ = _____
 Lower Limit (LC₅₀/FLC₅₀) _____
 Upper Limit (LC₅₀ X FLC₅₀) _____

LC₉₉ = _____
 Lower Limit (LC₉₉/LC_y) _____
 Upper Limit (LC₉₉ X LC_y) _____



100m / 2.10m
5 65m 10 100m

Table 7
 Bluegill
 Dec 16, 77
 Dual
 1. Cont
 C. do
 10. Funny
 C. Prohibit
 21. oo
 75. CH12
 45.
 100.

4. N
 0.671 R2
 0.510 S
 0.180 M

12.128 LD50
 0.042 LDCL
 3475.075 UPCL

7.120 LD10
 0.024 LDCL
 2111.190 UPCL

20.658 LD90
 0.060 LDCL
 7155.062 UPCL

95. %CDN
 2. DF
 4.303 TVAL

0.671
 1.342
 1.
 0.671
 4.07902356
 4.07902356
 2.0196611208

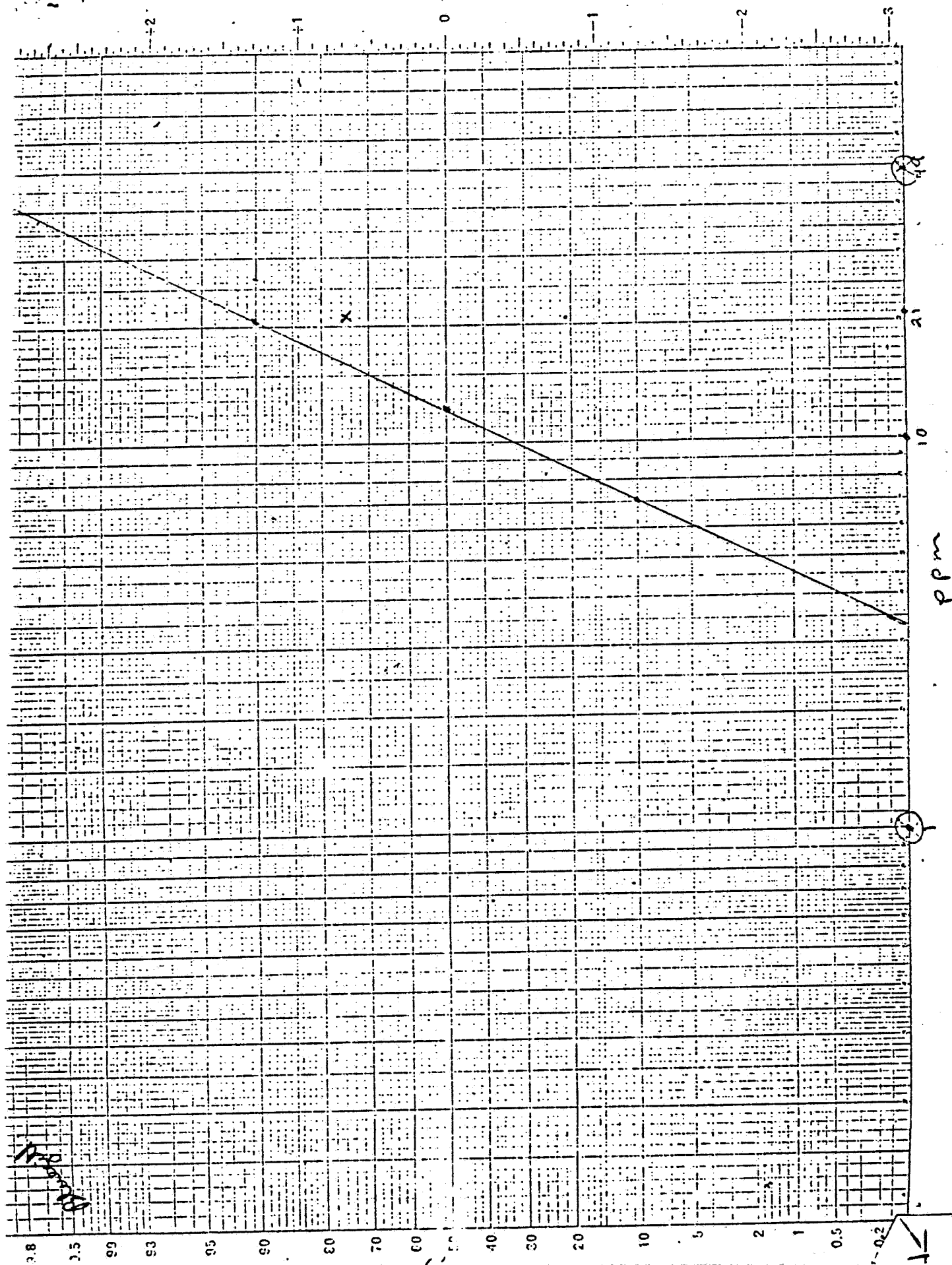


Table 8

~~guppy~~

561553 1.

Done Dec 19 12.

Finner 6.5

Probit 1.

Dual 12.

10.

9.

12.

21.

12.

12.

Total
Chi: 5.997 0.00

11.001	M
-5.326	YINT
1.233	LW M
0.000	CHI ²

8.683	LD50
7.631	LDCL
9.879	UPCL

6.639	LD10
5.420	LDCL
8.133	UPCL

11.355	LD90
9.133	LDCL
14.118	UPCL