US ERA ARCHIVE DOCUMENT

******* CONC. NUMBER NUMBER PERCENT BINOMIAL EXPOSED DEAD DEAD PROB. (PERCENT) 16 100 50 50 Ô 4 100 30 30 Õ 1 100 20 20 () 100

THE BINOMIAL TEST SHOWS THAT 16 AND 16 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 16

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS

1 .4610078 16 9.798513 85.51254

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

5 1.300682 4.631478 9.740412E-03

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 1.005483 95 PERCENT CONFIDENCE LIMITS =-.1412448 AND 2.15221

LC50 = 13.48773 95 PERCENT CONFIDENCE LIMITS = 2.684051 AND +INFINITY

lewis	Barany	arlgices of	o growth intel	Cil. Dec 86
*****	************	**** **	*****	**************************************
CONC.	NUMBER	NUMBER	PERCENT	BINOMIAL
	EXPOSED	DEAD	DEAD	PROB. (PERCENT)
16	100	80	80	O
4	100	30	30	O
1	100	20	20	0
.25	100	Ó	0	O

THE BINOMIAL TEST SHOWS THAT 4 AND 16 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 6.871333

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS
2 4.722749E-02 6.233911 4.788349
8.480846

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

3 1.052779 6.73642 1.187146E-03

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 1.56675 95 PERCENT CONFIDENCE LIMITS =-.0408144 AND 3.174315

LC50 = 5.624189 95 PERCENT CONFIDENCE LIMITS = .4146576 AND +INFINITY

% proth whilitin Dac 1986 CONC. NUMBER NUMBER PERCENT BINOMIAL EXPOSED DEAD DEAD PROB. (PERCENT) 16 100 1.00 100 0 4 100 90 90 Ò 1 100 90 90 0 .25 100 70 70

THE BINOMIAL TEST SHOWS THAT O AND .25 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .25

THE MOVING AVERAGE METHOD CANNOT BE USED WITH THIS DATA SET BECAUSE NO SPAN WHICH PRODUCES MOVING AVERAGE ANGLES THAT BRACKET 45 DEGREES ALSO USES TWO PERCENT DEAD BETWEEN O AND 100 PERCENT.

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

4 1.987077 3.603294 2.723396E-02

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = .8767661 95 PERCENT CONFIDENCE LIMITS =-.3591559 AND 2.112688

LC50 = 5.855673E-02 95 PERCENT CONFIDENCE LIMITS = 0 AND .464167

CONC. NUMBER NUMBER PERCENT BINOMIA EXPOSED DEAD DEAD PROB. (PERCENT) 100 16 100 100 0 4 100 95 95 0 1 100 95 95 0 . 25 100 0

THE BINOMIAL TEST SHOWS THAT .25 AND 1 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .5525786

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS

2 1.156269E-02 .6106863 .5275889

.6987626

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

8 13.8512 77.64558 0

A PROBABILITY OF O MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 3.607319 95 PERCENT CONFIDENCE LIMITS =-9.818113 AND 17.03275

LC50 = .6242686 95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

26 CONC. NUMBER NUMBER PERCENT BINOMIAL **EXPOSED** DEAD DEAD PROB. (PERCENT) 95 16 100 95 () 4 100 90 90 0 1 100 70 70 (). 25 100 0 0 Ö

BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE 95 PERCENT CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL PROBABILITY ARE UNRELIABLE. USE THE INTERVALS CALCULATED BY THE OTHER TESTS.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .740413

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

BPAN 3 G

LC50

95 PERCENT CONFIDENCE LIMITS

1.083952

.8985744

1.288968

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS

G

1.156269E-02

H GOOD

GOODNESS OF FIT PROBABILITY

3.513903 26.61692 o

A PROBABILITY OF O MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE =

2.018807

95 PERCENT CONFIDENCE LIMITS =-1.765529

AND

5.803142

LC50 =

.9922253

95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC10 =

.2330912

95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

cockebur % grown while Dec 86

No. and the the the third	CHICHEN NOW NOW TO BE TO THE TREET	****	****	**************************************
CONC.	NUMBER	NUMBER	PERCENT	BINOMIAL
	EXPOSED	DEAD	DEAD	PROB. (PERCENT)
16	100	90	90	O
4	100	80	80	О
1	100	20	20	O
. 25	100	20	20	o

THE BINOMIAL TEST SHOWS THAT 1 AND 4 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 2

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 3 3.179922E-02

95 PERCENT CONFIDENCE LIMITS

1.766091

1.326922

2.331487

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G

Н

GOODNESS OF FIT PROBABILITY

3 1.670307 11.6456

A PROBABILITY OF O MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

1.368601

95 FERCENT CONFIDENCE LIMITS =-.400184 AND 3.137386

LC50 = 1.687061

95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC10 = .199148

95 PERCENT CONFIDENCE LIMITS = 0 AND

CONC. NUMBER NUMBER PERCENT BINOMIAL **EXPOSED** DEAD DEAD PROB. (PERCENT) 16 100 95 95 Ø 90 4 100 90 Ø 1 70 7 Ø 100 Ø .25 100 Ø Ø

BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE 95 PERCENT CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL PROBABILITY ARE UNRELIABLE. USE THE INTERVALS CALCULATED BY THE OTHER TESTS.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .740413

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 3 1.156269E-02 95 PERCENT CONFIDENCE LIMITS

1.083952 .8985744

1.288968

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS

G

H GOODNESS OF FIT PROBABILITY

6

3.513268

26.61396

Ø

A PROBABILITY OF Ø MEANS THAT IT IS LESS THAN Ø.ØØ1.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE =

2,018814

95 PERCENT CONFIDENCE LIMITS =-1.765193

AND

5.80282

LC50 = .9922226

95 PERCENT CONFIDENCE LIMITS = Ø AND +INFINITY

LClØ =

.2330917

95 PERCENT CONFIDENCE LIMITS = Ø AND +INFINITY

LC25 = 0.4597 gms ai/na

Log LC25 = /og LC50 + (Problet 25% -5)

Slope

Log LC25 = /os 0,99222226 + (4.3255 -5)

2.018814

Log LC25 = /os 0.99222226 + -.33435

Log LC25 = -3.391 + -.3341

Los LC25 = -0.33749

LC25 = 0.4597

CONC. NUMBER NUMBER PERCENT BINOMIAL grash form EXPOSED DEAD DEAD PROB. (PERCENT) 16 100 90 9Ø Ø 4 100 80 80 Ø 1 100 20 20 Ø .25 100 20 20

THE BINOMIAL TEST SHOWS THAT 1 AND 4 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN 3

G 3.179922E-Ø2

LC5Ø

95 PERCENT CONFIDENCE LIMITS **(1.766**091)

1.326922

2.331487

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS 3

G 1.670309 Н GOODNESS OF FIT PROBABILITY 11.64562

A PROBABILITY OF Ø MEANS THAT IT IS LESS THAN Ø.ØØ1.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE

1.368601

95 PERCENT CONFIDENCE LIMITS =-.4001851

AND

3.137387

1.687061

95 PERCENT CONFIDENCE LIMITS = Ø AND +INFINITY

LClØ = .199148

95 PERCENT CONFIDENCE LIMITS = Ø AND 1.266826

1625 - 0,5424

Log $LC_{25} = Log LC_{50} + (8rolit 25\% - 5)$ SlopeLog $LC_{25} = log /,687061 + 4.3255 - 5$. 1.368601Log $LC_{25} = log /,687061 + -,492839$ 0.227131 - ,492839 $Log LC_{25} = -0.268708219$ $LC_{25} = 0.5424$

Phe emergen. CONC. NUMBER NUMBER PERCENT BINOMIAL **EXPOSED** DEAD DEAD PROB. (PERCENT) 1.6 100 100 100 α 4 100 95 95 Ø 1 100 95 95 Ø .25 100

THE BINOMIAL TEST SHOWS THAT .25 AND 1 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .5525786

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC5Ø 95 PERCENT CONFIDENCE LIMITS
2 1.156269E-Ø2 .61Ø6863 .5275889 .6987626

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

8 13.85117 77.64542 Ø

A PROBABILITY OF Ø MEANS THAT IT IS LESS THAN Ø.ØØ1.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 3.607318 95 PERCENT CONFIDENCE LIMITS =-9.818096 AND 17.03273

LC50 = (.6242685 95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC25 = 0.4 0588 gms ai/nu

Log LC25 - Log LC50 + (Prost 25% -5)

Slope

Log CC25 - Log 0.6242685 + 4.3255 -5

3.607318

Log CC25 - -.204628578 + -0.18698102

LC25 = 0.40588

lewis	morningglor	1. Preev	nevigor.	ec 86 ********	
*****	******	*********	*****	********	,
CONC,	NUMBER	NUMBER	PERCENT	BINOMIAL	
9ms ai/ha	EXPOSED	DEAD	DEAD	PROB. (PERCENT)	
16 ′	100	100	100	0	
4	100	90	90	0	
1	100	90	90	0	
. 25	100	70	70	0	

BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE 95 PERCENT CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL PROBABILITY ARE UNRELIABLE. USE THE INTERVALS CALCULATED BY THE OTHER TESTS.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .3325746

THE MOVING AVERAGE METHOD CANNOT BE USED WITH THIS DATA SET BECAUSE NO SPAN WHICH PRODUCES MOVING AVERAGE ANGLES THAT BRACKET 45 DEGREES ALSO USES TWO PERCENT DEAD BETWEEN 0 AND 100 PERCENT.

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

4 1.987077 3.603294 2.723396E-02

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = .8767661 95 PERCENT CONFIDENCE LIMITS =-.3591559 AND 2.112688

LC50 = .05.855673E-02 ...05855673 95 PERCENT CONFIDENCE LIMITS = 0 AND .464167

1025 = 0.01 gms ai/hn

Log
$$LC_{25} = log Lc_{50} + (Robit 25\% -5)$$

Shope

Log $LC_{25} = log \cdot .05855673 + (4.3255 - 5)$
 $-1.232423184 + -.769304378$

Log $LC_{25} = -2.00$
 $LC_{25} = -0.011$

wild Lockales *********************** CONC. NUMBER NUMBER PERCENT BINOMIAL **EXPOSED** DEAD DEAD PROB. (PERCENT) 16 100 95 95 0 4 100 90 90 0 1 100 80 80 0 .25 100 0

THE BINOMIAL TEST SHOWS THAT .25 AND 1 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .6580341

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN

G

LC50

95 PERCENT CONFIDENCE LIMITS

2 1.343431E-02

.8122755

.7026066

.9337601

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS

G

H GOODNESS OF FIT PROBABILITY

6

5.144235

37.16577

0

A PROBABILITY OF 0 MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE =

1.981815

95 PERCENT CONFIDENCE LIMITS =-2.513122

AND

6.476753

LC50 = (.8652326)

95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC10 =

.1978365

95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

1025 - 0.395 gms ai/Ma

Log $LC_{25} = Log LC_{50} + (Piolit 25\% - 5)$ Log $LC_{25} = Log 0.8652326 + (4.3255 - 5)$ Log $LC_{25} = -.062867125 + -0.340345$ Log $LC_{25} = -0.40321$ $LC_{25} = 0.395$ gms ai /ha

CONC. NUMBER NUMBER PERCENT BINOMIAL EXPOSED **DEAD** DEAD PROB. (PERCENT) 16 100 90 90 0 4 100 90 90 0 1 100 80 80 0 . 25 100 40 40

THE BINOMIAL TEST SHOWS THAT .25 AND 1 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .3480085

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS

1 .1095176 .3480084 .252084 .4394636

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

4 2.184463 7.053021 0

A PROBABILITY OF 0 MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = .9248021 95 PERCENT CONFIDENCE LIMITS =-.4420487 AND 2.291653

LC50 = .2734224 95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC25 = 0,051 gm ai/ha

Log LC25 = Log LC50 + (Probit 25% - 5)

Slope

Log LC25 = Log 0, 2734224 + (4,3255 - 5) 0.9248021Log LC25 = -0,563165908 + -1729345229

Los LC25 = 1,292511138

LC25 = 0.051 Sms ai /ha

CORN pregnersom *********** CONC. NUMBER NUMBER PERCENT BINOMIAL gms ai /hu EXPOSED DEAD DEAD PROB. (PERCENT) 16 100 90 90 0 4 100 70 70 0 1 100 30 30 0 .25 100 0 0

THE BINOMIAL TEST SHOWS THAT 1 AND 4 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 2

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS

3 1.343433E-02 2.351185 1.964546

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

4 .4886954 4.081009 1.689059E-02

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = (1.831677)
95 PERCENT CONFIDENCE LIMITS = .5512111 AND 3.112143

LC50 = 2.376956 95 PERCENT CONFIDENCE LIMITS = .7293156 AND 8.324125

LC25 - 1.02 gms a /hn

-05 LC 25 = Log LC50 + (Probit 25% - 5)

Log LC25 = Log 2,376156 + 4,3255 - 5

1,83677

Log LC75 = 0,376021142 + - 0,36824178

Log Lc26 = 0,0,0,7,7793

Lc26 = 1,018 sms ai /na.

NUMBER NUMBER PERCENT BINOMIAL gms withou **EXPOSED** DEAD DEAD PROB. (PERCENT) 16 100 80 80 0 4 100 30 30 0 1 100 20 20 0 .25 100 O

THE BINOMIAL TEST SHOWS THAT 4 AND 16 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 6.871333

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS

2 4.722749E-02 6.233911 4.788349

8.480846

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

3 1.052779 6.73642 1.187146E-03

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 1.56675 95 PERCENT CONFIDENCE LIMITS =-.0408144 AND 3.174315

LC50 = 5.624189 95 PERCENT CONFIDENCE LIMITS = .4146576 AND +INFINITY

LC25 = 2.09 gms ai/ha

Log LC25 - Los LC 50 + (Prosit 75% -5)

Los LC25 - Los 5.624189 + 4.3255 -5.

Los LC25 - 0.75 + - .430509015

Los LC25 - 0.319490984

Lc25 - 2.09 gm, ai /ha

the energen CONC. NUMBER NUMBER PERCENT BINOMIAL Jus as Ma EXPOSED DEAD DEAD PROB. (PERCENT) 16/ 100 90 90 0 4 100 40 40 0 1 100 20 20 0 . 25 100 20

THE BINOMIAL TEST SHOWS THAT 4 AND 16 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 5.126533

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS

3 3.179922E-02 3.727621 2.808985

5.15319

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

4 2.656777 14.34052 0

A PROBABILITY OF 0 MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 1.11404 95 PERCENT CONFIDENCE LIMITS =-.7018029 AND 2.929882

LC50 = (3.178705 95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC25 - 0,71 gms ai/hu

Log LC25 - Los LC50 + (Prolit 25% -5)

Los LC25 - Los 3.178705 + (4.3255.5)

1.11404

Los LC25 - .502250225 + - 1605454025

LOS LC25 - .103203798

LC25 - 0.78849

CONC. NUMBER NUMBER PERCENT BINOMIAL gur at lane **EXPOSED** DEAD DEAD PROB. (PERCENT) 16 100 50 50 0 4 100 30 30 0 1 100 20 2.0 0 .25 100 ٥ 0

THE BINOMIAL TEST SHOWS THAT 16 AND 16 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 16

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

 SPAN
 G
 LC50
 95 PERCENT CONFIDENCE LIMITS

 1
 .4610078
 16
 9.798513
 85.51254

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY
5 1.300682 4.631478 9.740412E-03

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 1.005483 95 PERCENT CONFIDENCE LIMITS =-.1412448 AND 2.15221

LC50 = 13.48773 95 PERCENT-CONFIDENCE LIMITS = 2.684051 AND +INFINITY

LC25 = 2.88 gms ai /na

Log LC25 = Los LC50 + (PIOLIT 25% -5)

Slope

Log LC75 = Los 13.48773 + (4.3255 -5)

//005483

Log LC25 = 1.129938864 + - 0.670821883

Los LC25 = 0.458866756

LC25 = 2.878.

lewis	Soylonn	Postemerse.			
*****	*****	*****	******	- **********	***
CONC.	NUMBER	NUMBER	PERCENT	BINOMIAL	
gues ai/ha	EXPOSED	DEAD	DEAD	PROB. (PERCENT)	
16	100	100	100	0	
4	100	100	100	0	
1	100	90	90	0	
. 25	100	80	80	0	

THE BINOMIAL TEST SHOWS THAT 0 AND .25 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS (2

THE MOVING AVERAGE METHOD CANNOT BE USED WITH THIS DATA SET BECAUSE NO SPAN WHICH PRODUCES MOVING AVERAGE ANGLES THAT BRACKET 45 DEGREES ALSO USES TWO PERCENT DEAD BETWEEN 0 AND 100 PERCENT.

RESULTS CALCULATED USING THE PROBIT METHOD ITERATIONS √ G H GOODNESS OF FIT PROBABILITY 5 .1474015 .1605274 SLOPE 1.251298 95 PERCENT CONFIDENCE LIMITS = .7708885 AND 1.731708 ,2613 LC50 =6.135687E-02 95 PERCENT CONFIDENCE LIMITS = 1.477878E-02 AND .1213337 LC10 = .005.928122E-0395 PERCENT CONFIDENCE LIMITS = 3.477171E-04 AND 2.145674E-02 ***************************

LC 75 = 0.02 gms ai/na

Log Lus = Log 0.06135.687 + (4.3255.5)

Log Lus = Log 0.06135.687 + (4.3255.5)

//251298

Log Lus = -1,212136803 + -0,53904026

Log Lus = 0.0177

CONC. NUMBER NUMBER PERCENT BINOMIAL. gue ai /ha EXPOSED DEAD DEAD PROB. (PERCENT) 16 100 100 100 0 4 100 100 100 0 1 100 50 50 Ò .25 100 50 50 Ó

THE BINOMIAL TEST SHOWS THAT 1 AND .25 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .5

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS

2 3.532447E-02 .5 .3734322

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

5 3.98124 19.29953 0

A PROBABILITY OF 0 MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

LC50 = .4041605 95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC25 = 0.14 gas ai/ha

Los Luzs - Los Luso + (Probit 25% -5)

Los Luzs - Los 0.4041605 + (4.3255-5)

Los Luzs - - 0.393446133 + - 0.456776545

Los Luzs - - .850222678

Luzs - 0.14118

CONC. NUMBER NUMBER PERCENT BINOMIAL **EXPOSED** DEAD gus a Ina DEAD PROB. (PERCENT) 16 100 100 100 0 4 100 80 80 Ó 1 100 60 60.00001 0 .25 100 Ö 0

THE BINOMIAL TEST SHOWS THAT .25 AND 1 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .8475251

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS

3 8.831122E-03 1.349167 1.156032

1.56356

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

4 1.64501 12.7994 0

A PROBABILITY OF 0 MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 2.273893 95 PERCENT CONFIDENCE LIMITS =-.6425557 AND 5.190342

LC50 = (1.19567 95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC10 = .330443995 PERCENT CONFIDENCE LIMITS = 0 AND 1.298003

*********** CONC. NUMBÈR NUMBER BINOMIAL. PERCENT EXPOSED DEAD PROB. (PERCENT) DEAD 16 100 100 100 0 4 100 80 80 0 60 1 100 60.00001 0 .25 100 0 ി

BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE 95 PERCENT CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL PROBABILITY ARE UNRELIABLE. USE THE INTERVALS CALCULATED BY THE OTHER TESTS.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS .8475251

Los Luzs = Los Luso + (probit 25% -5)

Slope

Los Luzs = Los 1.19567 + (4.3255 - 5)

2,273893

Los Luzs = 0.077611332 + -0.296627853

Los Luzs = -0.219016521

Luzs - 0.6039

RESULTS CALCULATED USING THE PROBIT METHOD ITERATIONS G Η GOODNESS OF FIT PROBABILITY 4 1.64501 12.7994 0 A PROBABILITY OF & MEANS THAT IT IS LESS THAN 0.001. SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED. SLOPE 2.273893 95 PERCENT CONFIDENCE LIMITS =- . 6.425557 AND 5,190342 1.19567 95 PERCENT CONEXDENCE LIMITS = 0 AND +INFINITY LC10 =.3304439 95 PERCENT CONFIDENCE LIMITS = 0 AND 1.298003 *********************************** morningsla ******* CONC. NUMBER NUMBER PERCENT BINOMIAL gus a. Jak **EXPOSED DEAD** DEAD PROB. (PERCENT) 16 100 100 100 0 100 90 90 0 1 100 50 50 0 .25 100 20 20 n BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE 95 PERCENT CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL PROBABILITY ARE UNRELIABLE. USE THE INTERVALS CALCULATED BY THE OTHER TESTS. AN APPROXIMATE LC50 FOR THIS SET OF DATA IS(1 RESULTS CALCULATED USING THE MOVING AVERAGE METHOD SPAN G LC50 95 PERCENT CONFIDENCE LIMITS 2 3.179918E-02 .8830458 .7066343 1.09452 RESULTS CALCULATED USING THE PROBIT METHOD **ITERATIONS** G GOODNESS OF FIT PROBABILITY Η

3 2.924907E-02 .2179482 SLOPE (1.842809 95 PERCENT CONFIDENCE LIMITS = 1.527645 AND 2.157972 LC50 =.8340626

95 PERCENT CONFIDENCE LIMITS = .6742013 AND 1.018687 LC25 = 0.359 LC10 =.1706213

95 PERCENT CONFIDENCE LIMITS = .1109181 AND .2354872 ************************

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD SPAN G

3.179918E-02

2

95 PERCENT CONFIDENCE LIMITS .8830458 7066343

Log LC75 = Log LC50 + (Prosit 15%-5)

Log LC75 = Log 18340625 + (4.3259-5)

//842809

Log Lc25 = 0.078801404 + - 1366017312

Log Lc25 = 0.444818717

LC25 = 0.359

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*****	*****	******	******	/
CONC.	NUMBER	NUMBER	PERCENT	BINOMTAL.
gus mi/hn	EXPOSED	DEAD	DEAD	PROB. (PERCENT)
16	100	100	100	0
4	100	60	60.00001	0
1	100	0	0	0
.25	100	0	0	0

BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE 95 PERCENT CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL PROBABILITY ARE UNRELIABLE. USE THE INTERVALS CALCULATED BY THE OTHER TESTS.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 3.3901

WHEN THERE ARE LESS THAN TWO CONCENTRATIONS AT WHICH THE PERCENT DEAD IS BETWEEN 0 AND 100, NEITHER THE MOVING AVERAGE NOR THE PROBIT METHOD CAN GIVE ANY STATISTICALLY SOUND RESULTS.

CONC.	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD	BINOMIAL PROB. (PERCENT)
16	100	100	100	O CHERCENT
4	100	60	60.00001	,0
1	100	9	20.0001	Ô
.25	100	0	O management	0

BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL TEST WOULD BE UNRELIABLE. USE THE CONFIDENCE INTERVALS FROM THE OTHER TESTS.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 3.3901

WHEN THERE ARE LESS THAN TWO CONCENTRATIONS AT WHICH THE PERCENT DEAD IS BETWEEN 0 AND 100, NEITHER THE MOVING AVERAGE NOR THE PROBIT METHOD CAN GIVE ANY STATISTICALLY SOUND RESULTS.

Path not found in 7870 Ok

CONC. NUMBER NUMBER PERCENT BINOMIAL gas a fine EXPOSED DEAD DEAD PROB. (PERCENT) 16 100 60 60.00001 0 8 100 60 60.00001 0 4 100 20 20 Ö

BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE 95 PERCENT CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL PROBABILITY ARE UNRELIABLE. USE THE INTERVALS CALCULATED BY THE OTHER TESTS.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 6.780553

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS
2 .1095177 8.127463 6.596867 10.05219

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS

G

H GOODNESS OF FIT PROBABILITY

3 60.24467 11.97364 0 A PROBABILITY OF 0 MEANS THAT IT IS LESS THAN 0.001.

SINCE THE PROBABILITY IS LESS THAN 0.05, RESULTS CALCULATED USING THE PROBIT METHOD PROBABLY SHOULD NOT BE USED.

SLOPE = 1.758658

95 PERCENT CONFIDENCE LIMITS =-11.8916 AND 15.40891

LC50 = (9.074936)

95 PERCENT CONFIDENCE LIMITS = 0 AND +INFINITY

LC10 = 1.720687

LC25 = 3,75

Log LC25 - Log LC50 + (Probl+ 25% -5)

Slope

Log LC25 - Log 9.074936 + (4,3255 -5)

1.756658

Log LC25 - 0.95784357 + -0.383531078

Log LC25 - 0,574312492

Lc 25 - 3.75

lewis	n. Jeal	Paula	n .	01
*****	*****	******	*****	***************************
CONC.	NUMBER	NUMBER	PERCENT	BINOMIAL
gusai/na	EXPOSED	DEAD	DEAD	PROB. (PERCENT)
16	100	50	50	0
4	100	40	40	0
1	100	40	40	0
. 25	100	20	20	0

BECAUSE THE NUMBER OF ORGANISMS USED WAS SO LARGE, THE 95 PERCENT CONFIDENCE INTERVALS CALCULATED FROM THE BINOMIAL PROBABILITY ARE UNRELIABLE. USE THE INTERVALS CALCULATED BY THE OTHER TESTS.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 16

RESULTS CALCULATED USING THE MOVING AVERAGE METHOD

SPAN G LC50 95 PERCENT CONFIDENCE LIMITS
1 1.923774 16 5.035102 +INFINITY

RESULTS CALCULATED USING THE PROBIT METHOD

ITERATIONS G H GOODNESS OF FIT PROBABILITY

3 .2203054 1 .153645

SLOPE = .4058348 95 PERCENT CONFIDENCE LIMITS = .2153493 AND .5963202

LC50 = 13.09321 95 PERCENT CONFIDENCE LIMITS = 5.635016 AND 83.08031

1025 = 0,285 gms ai/ha

Log Leas - Los 2050 + (Prosit 250-5)

slope

Log Leas - Los 13,09321 + (4,3255-5)

14058348

Los Leas - 1.117046134 + - 1.662006314

Log Leas - 1544960179

Leas - 0.285