

# LSU Northeast Research Station

## EVALUATION OF PREEMERGENCE HERBICIDES IN ROUNDUP READY SOYBEAN

Trial ID: USA-05-121

Study Dir.:

Location:

Investigator: Donnie Miller

### SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 25 FT Reps: 4

Site Type:

Tillage Type: Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

### APPLICATION DESCRIPTION

	A	B
Application Date:	26/May/2005	24/Jun/2005
Time of Day:	5:30 PM	3:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	86 F	90 F
% Relative Humidity:	56	50
Wind Velocity, Unit:	1.2 MPH	2.4 MPH
Dew Presence (Y/N):		
Water Hardness:		
Soil Temp., Unit:	94 F	102 F
Soil Moisture:	MOIST	DRY
% Cloud Cover:	10	10

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ECHCG N/A	ECHCG 5-6"
Stage Scale:		
Density, Unit:		
Weed 2 Code, Stage:	SORHA N/A	SORHA 5-6"
Stage Scale:		
Density, Unit:		
Weed 3 Code, Stage:	SEBEX N/A	SEBEX 5-6"
Stage Scale:		
Density, Unit:		
Weed 4 Code, Stage:	CASOB N/A	CASOB 5-6"
Stage Scale:		
Density, Unit:		
Weed 5 Code, Stage:	IPOLA N/A	IPOLA 5-6"
Stage Scale:		
Density, Unit:		
Weed 6 Code, Stage:	IPOHG N/A	IPOHG 5-6"
Stage Scale:		
Density, Unit:		
Weed 7 Code, Stage:	AMARE N/A	AMARE 5-6"
Stage Scale:		
Density, Unit:		

# LSU Northeast Research Station

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 BCPCCK	TRACTOR
Operating Pressure:	35 PSI	28 PSI
Nozzle Type:	AI	FF
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	2	2
Band Width, Unit:		
Boom Length, Unit:		
Boom Height, Unit:		
Ground Speed, Unit:	3.2 MPH	3.2 MPH
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Spray pH:		
Propellant:		
Tank Mix (Y/N):		

# LSU Northeast Research Station

## CHLORIMURON ETHYL (CE) OFFERINGS FOR RESIDUAL CONTROL IN ROUNDUP READY SOYBEANS

Trial ID: USA-05-121

Study Dir.:

Location:

Investigator: Donnie Miller

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ARM Action Codes	# Subsamples, Dec.	GLXMA INJURY %	GLXMA CROP HTS CM	GLXMA CROP HTS CM	GLXMA CROP HTS CM	GLXMA CROP HTS CM
				9/Jun/2005	14 DAT-A			9/Jun/2005 14 DAT-A	9/Jun/2005 14 DAT-A	9/Jun/2005 14 DAT-A	9/Jun/2005 14 DAT-A	9/Jun/2005 14 DAT-A
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6			
1	SYNCH XP ROUNDUP WEATHERMAX	1.125 22	oz wt/a fl oz/a	0 a		14 a	15 a	14 a	15 a			
2	CANOPY EX ROUNDUP WEATHERMAX	1.1 22	oz wt/a fl oz/a	0 a		15 a	14 a	13 a	13 a			
3	CANOPY 75 DF ROUNDUP WEATHERMAX	2.2 22	oz wt/a fl oz/a	0 a		15 a	14 a	13 a	15 a			
4	PREVIEW 75 DF ROUNDUP WEATHERMAX	3.7 22	oz wt/a fl oz/a	0 a		16 a	13 a	15 a	15 a			
5	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	8.0 22	oz wt/a fl oz/a	0 a		15 a	14 a	15 a	14 a			
6	CANOPY XL ROUNDUP WEATHERMAX	2.5 22	oz wt/a fl oz/a	0 a		13 a	14 a	15 a	14 a			
7	CLASSIC VALOR ROUNDUP WEATHERMAX	1.0 2.0 22	oz wt/a oz wt/a fl oz/a	0 a		13 a	14 a	14 a	15 a			
8	SYNCH XP ROUNDUP WEATHERMAX	2 22	oz wt/a fl oz/a	0 a		14 a	13 a	14 a	14 a			
9	CANOPY EX ROUNDUP WEATHERMAX	1.9 22	oz wt/a fl oz/a	0 a		12 a	13 a	14 a	13 a			
10	CANOPY 75 DF ROUNDUP WEATHERMAX	4.0 22	oz wt/a fl oz/a	0 a		14 a	15 a	15 a	15 a			
11	PREVIEW 75 DF ROUNDUP WEATHERMAX	6.6 22	oz wt/a fl oz/a	0 a		14 a	13 a	15 a	14 a			
12	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	13.9 22	oz wt/a fl oz/a	0 a		14 a	14 a	15 a	15 a			
13	CANOPY XL ROUNDUP WEATHERMAX	4.5 22	oz wt/a fl oz/a	0 a		13 a	14 a	15 a	13 a			
14	CLASSIC VALOR ROUNDUP WEATHERMAX	1.7 2.0 22	oz wt/a oz wt/a fl oz/a	0 a		13 a	13 a	14 a	15 a			
15	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.0 22	lb/a fl oz/a	0 a		16 a	15 a	15 a	14 a			
16	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.5 22	lb/a fl oz/a	0 a		15 a	15 a	16 a	13 a			
17	SENCOR ROUNDUP WEATHERMAX	6 22	oz wt/a fl oz/a	0 a		14 a	16 a	14 a	15 a			
18	NONTREATED			0 a		14 a	15 a	15 a	17 a			
LSD (P=.05)				0.0	.	2.9	3.1	2.6	2.8			
Standard Deviation				0.0	.	2.1	2.2	1.8	2.0			
CV				0.0	.	14.73	15.7	12.79	13.84			
Grand Mean				0.0	.	14.01	14.07	14.33	14.33			
Bartlett's X2				0.0	.	16.871	12.411	14.664	12.548			
P(Bartlett's X2)				.	.	0.463	0.775	0.62	0.766			

## LSU Northeast Research Station

Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	INJURY	CROP HTS	CROP HTS	CROP HTS	CROP HTS
Rating Data Type		CM	CM	CM	CM
Rating Unit	%				
Rating Date	9/Jun/2005	9/Jun/2005	9/Jun/2005	9/Jun/2005	9/Jun/2005
Trt-Eval Interval	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A
ARM Action Codes					
# Subsamples, Dec.					
Replicate F	0.000	0.429	0.299	0.408	3.962
Replicate Prob(F)	1.0000	0.7329	0.8261	0.7481	0.0129
Treatment F	0.000	1.025	0.740	0.569	0.904
Treatment Prob(F)	1.0000	0.4489	0.7478	0.8992	0.5728

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## LSU Northeast Research Station

Weed Code				GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code				CROP HTS	CROP HTS	CROP HTS	CROP HTS	CROP HTS	CROP HTS
Rating Data Type				CM	CM	CM	CM	CM	CM
Rating Unit				9/Jun/2005	9/Jun/2005	9/Jun/2005	9/Jun/2005	9/Jun/2005	9/Jun/2005
Rating Date				14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A
Trt-Eval Interval									
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Rate Unit	7	8	9	10	11	12
1	SYNCH XP ROUNDUP WEATHERMAX	1.125 22	oz wt/a fl oz/a	14 a	14 ab	14 a	14 a	14 a	15 a
2	CANOPY EX ROUNDUP WEATHERMAX	1.1 22	oz wt/a fl oz/a	13 a	13 ab	14 a	14 a	14 a	15 a
3	CANOPY 75 DF ROUNDUP WEATHERMAX	2.2 22	oz wt/a fl oz/a	14 a	16 ab	14 a	15 a	14 a	15 a
4	PREVIEW 75 DF ROUNDUP WEATHERMAX	3.7 22	oz wt/a fl oz/a	15 a	13 ab	13 a	15 a	15 a	16 a
5	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	8.0 22	oz wt/a fl oz/a	14 a	14 ab	16 a	13 a	13 a	13 a
6	CANOPY XL ROUNDUP WEATHERMAX	2.5 22	oz wt/a fl oz/a	17 a	16 a	16 a	16 a	15 a	15 a
7	CLASSIC VALOR ROUNDUP WEATHERMAX	1.0 2.0 22	oz wt/a oz wt/a fl oz/a	13 a	14 ab	14 a	11 a	13 a	13 a
8	SYNCH XP ROUNDUP WEATHERMAX	2 22	oz wt/a fl oz/a	16 a	14 ab	15 a	15 a	15 a	13 a
9	CANOPY EX ROUNDUP WEATHERMAX	1.9 22	oz wt/a fl oz/a	14 a	15 ab	14 a	14 a	15 a	16 a
10	CANOPY 75 DF ROUNDUP WEATHERMAX	4.0 22	oz wt/a fl oz/a	14 a	14 ab	13 a	12 a	14 a	13 a
11	PREVIEW 75 DF ROUNDUP WEATHERMAX	6.6 22	oz wt/a fl oz/a	13 a	14 ab	13 a	14 a	15 a	13 a
12	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	13.9 22	oz wt/a fl oz/a	15 a	14 ab	14 a	14 a	14 a	13 a
13	CANOPY XL ROUNDUP WEATHERMAX	4.5 22	oz wt/a fl oz/a	14 a	12 b	13 a	13 a	14 a	11 a
14	CLASSIC VALOR ROUNDUP WEATHERMAX	1.7 2.0 22	oz wt/a oz wt/a fl oz/a	14 a	16 a	15 a	14 a	14 a	15 a
15	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.0 22	lb/a fl oz/a	15 a	16 ab	14 a	15 a	15 a	15 a
16	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.5 22	lb/a fl oz/a	13 a	13 ab	14 a	13 a	14 a	13 a
17	SENCOR ROUNDUP WEATHERMAX	6 22	oz wt/a fl oz/a	14 a	14 ab	14 a	14 a	15 a	14 a
18	NONTREATED			14 a	15 ab	14 a	14 a	14 a	15 a
LSD (P=.05)				2.8	2.5	3.0	2.5	2.8	2.9
Standard Deviation				2.0	1.7	2.1	1.8	2.0	2.1
CV				14.3	12.34	14.93	12.8	13.93	14.83
Grand Mean				14.07	14.11	14.11	13.72	14.14	13.9
Bartlett's X2				13.41	18.009	11.297	16.458	17.748	9.184
P(Bartlett's X2)				0.708	0.388	0.841	0.421	0.405	0.934
Replicate F				0.443	0.745	0.008	0.444	0.578	0.622
Replicate Prob(F)				0.7234	0.5304	0.9989	0.7225	0.6322	0.6041
Treatment F				1.118	2.164	0.830	1.733	0.487	1.405
Treatment Prob(F)				0.3639	0.0175	0.6531	0.0665	0.9476	0.1732

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Weed Code						
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	CROP HTS	CROP HTS	CROP HTS	CROP HTS	CROP HTS	CROP HTS
Rating Unit	CM	CM	CM	CM	CM	CM
Rating Date	9/Jun/2005	9/Jun/2005	9/Jun/2005	9/Jun/2005	9/Jun/2005	9/Jun/2005
Trt-Eval Interval	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A
ARM Action Codes						
# Subsamples, Dec.						

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## LSU Northeast Research Station

Weed Code				GLXMA		ECHCG	SORHA	SEBEX	CASOB	
Crop Code				GLXMA		GLXMA	GLXMA	GLXMA	GLXMA	
Rating Data Type				AVG HTS		CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				CM		%	%	%	%	
Rating Date				9/Jun/2005		23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	
Trt-Eval Interval				14 DAT-A		28 DAT-A	28 DAT-A	28 DAT-A	28 DAT-A	
ARM Action Codes				T1						
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	13	14	15	16	17	18	19
1	SYNCH XP	1.125	oz wt/a		14 a		49 de	75 ab	69 cd	70 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
2	CANOPY EX	1.1	oz wt/a		14 a		48 e	66 ab	75 a-d	81 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
3	CANOPY 75 DF	2.2	oz wt/a		14 a		56 cde	56 ab	69 cd	76 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
4	PREVIEW 75 DF	3.7	oz wt/a		14 a		80 abc	78 ab	91 ab	80 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
5	LOROX PLUS 60 DF	8.0	oz wt/a		14 a		49 de	70 ab	65 d	73 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
6	CANOPY XL	2.5	oz wt/a		15 a		63 b-e	75 ab	73 bcd	78 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
7	CLASSIC	1.0	oz wt/a		13 a		63 b-e	71 ab	90 ab	84 a
	VALOR	2.0	oz wt/a							
	ROUNDUP WEATHERMAX	22	fl oz/a							
8	SYNCH XP	2	oz wt/a		14 a		49 de	70 ab	78 a-d	84 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
9	CANOPY EX	1.9	oz wt/a		14 a		59 b-e	75 ab	74 a-d	81 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
10	CANOPY 75 DF	4.0	oz wt/a		14 a		83 ab	85 a	88 abc	83 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
11	PREVIEW 75 DF	6.6	oz wt/a		14 a		88 a	74 ab	94 a	88 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
12	LOROX PLUS 60 DF	13.9	oz wt/a		14 a		68 a-e	66 ab	80 a-d	79 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
13	CANOPY XL	4.5	oz wt/a		13 a		73 a-d	81 a	81 a-d	66 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
14	CLASSIC	1.7	oz wt/a		14 a		71 a-e	71 ab	90 ab	86 a
	VALOR	2.0	oz wt/a							
	ROUNDUP WEATHERMAX	22	fl oz/a							
15	LOROX PLUS 60 DF	1.0	lb/a		15 a		58 cde	64 ab	75 a-d	80 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
16	LOROX PLUS 60 DF	1.5	lb/a		14 a		69 a-e	73 ab	91 ab	73 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
17	SENCOR	6	oz wt/a		14 a		78 abc	51 b	90 ab	76 a
	ROUNDUP WEATHERMAX	22	fl oz/a							
18	NONTREATED				15 a		0 f	0 c	0 e	0 b
LSD (P=.05)				.	1.4	.	14.3	16.0	11.9	14.2
Standard Deviation				.	1.0	.	10.1	11.3	8.4	10.0
CV				.	7.11	.	16.62	16.91	11.08	13.48
Grand Mean				.	14.08	.	61.04	66.74	76.18	74.24
Bartlett's X2				.	29.269	.	13.03	17.988	18.945	11.729
P(Bartlett's X2)				.	0.032*	.	0.671	0.325	0.272	0.762
Replicate F					0.138		0.354	0.969	3.135	1.122
Replicate Prob(F)					0.9370		0.7862	0.4145	0.0333	0.3487
Treatment F					0.964		14.946	10.752	24.976	14.974
Treatment Prob(F)					0.5103		0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

## LSU Northeast Research Station

Weed Code		GLXMA	ECHCG	SORHA	SEBEX	CASOB
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type		AVG HTS	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		CM	%	%	%	%
Rating Date		9/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005
Trt-Eval Interval		14 DAT-A	28 DAT-A	28 DAT-A	28 DAT-A	28 DAT-A
ARM Action Codes		T1				
# Subsamples, Dec.						

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 14: T1 = @AVG([C3].[C12])

## LSU Northeast Research Station

Weed Code			IPOLA	IPOHG	DIGSA	AMARE	CYPES		
Crop Code			GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Rating Data Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit			%	%	%	%	%		
Rating Date			23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005		
Trt-Eval Interval			28 DAT-A	28 DAT-A	28 DAT-A	28 DAT-A	28 DAT-A		
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Unit	20	21	22	23	24	25
1	SYNCH XP ROUNDUP WEATHERMAX	1.125 22	oz wt/a fl oz/a	80 abc	81 a-d	95 a	95 a	95 a	
2	CANOPY EX ROUNDUP WEATHERMAX	1.1 22	oz wt/a fl oz/a	86 ab	86 abc	95 a	95 a	95 a	
3	CANOPY 75 DF ROUNDUP WEATHERMAX	2.2 22	oz wt/a fl oz/a	74 a-d	78 a-d	95 a	95 a	95 a	
4	PREVIEW 75 DF ROUNDUP WEATHERMAX	3.7 22	oz wt/a fl oz/a	81 abc	78 a-d	95 a	95 a	94 a	
5	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	8.0 22	oz wt/a fl oz/a	68 bcd	74 bcd	95 a	95 a	93 a	
6	CANOPY XL ROUNDUP WEATHERMAX	2.5 22	oz wt/a fl oz/a	91 ab	94 a	95 a	95 a	95 a	
7	CLASSIC VALOR ROUNDUP WEATHERMAX	1.0 2.0 22	oz wt/a oz wt/a fl oz/a	91 ab	95 a	95 a	95 a	95 a	
8	SYNCH XP ROUNDUP WEATHERMAX	2 22	oz wt/a fl oz/a	84 ab	91 ab	95 a	95 a	95 a	
9	CANOPY EX ROUNDUP WEATHERMAX	1.9 22	oz wt/a fl oz/a	85 ab	86 abc	95 a	95 a	95 a	
10	CANOPY 75 DF ROUNDUP WEATHERMAX	4.0 22	oz wt/a fl oz/a	86 ab	91 ab	95 a	95 a	95 a	
11	PREVIEW 75 DF ROUNDUP WEATHERMAX	6.6 22	oz wt/a fl oz/a	79 abc	65 d	95 a	95 a	89 a	
12	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	13.9 22	oz wt/a fl oz/a	56 d	79 a-d	95 a	95 a	94 a	
13	CANOPY XL ROUNDUP WEATHERMAX	4.5 22	oz wt/a fl oz/a	94 a	94 a	95 a	95 a	95 a	
14	CLASSIC VALOR ROUNDUP WEATHERMAX	1.7 2.0 22	oz wt/a oz wt/a fl oz/a	90 ab	95 a	95 a	95 a	95 a	
15	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.0 22	lb/a fl oz/a	55 d	70 cd	95 a	95 a	95 a	
16	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.5 22	lb/a fl oz/a	60 cd	73 bcd	95 a	95 a	95 a	
17	SENCOR ROUNDUP WEATHERMAX	6 22	oz wt/a fl oz/a	85 ab	50 e	95 a	95 a	95 a	
18	NONTREATED			0 e	0 f	0 b	0 b	0 b	
LSD (P=.05)				14.7	11.6	0.0	0.0	4.6	.
Standard Deviation				10.4	8.2	0.0	0.0	3.3	.
CV				13.95	10.75	0.0	0.0	3.68	.
Grand Mean				74.72	76.6	89.72	89.72	89.1	.
Bartlett's X2				27.068	25.125	0.0	0.0	10.513	.
P(Bartlett's X2)				0.041*	0.033*	.	.	0.015*	.
Replicate F				2.206	2.135	0.000	0.000	1.069	
Replicate Prob(F)				0.0986	0.1073	1.0000	1.0000	0.3707	
Treatment F				18.121	30.133	0.000	0.000	185.335	
Treatment Prob(F)				0.0001	0.0001	1.0000	1.0000	0.0001	

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

## LSU Northeast Research Station

Weed Code	IPOLA	IPOHG	DIGSA	AMARE	CYPES
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Rating Date	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005
Trt-Eval Interval	28 DAT-A	28 DAT-A	28 DAT-A	28 DAT-A	28 DAT-A
ARM Action Codes					
# Subsamples, Dec.					

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## LSU Northeast Research Station

Weed Code				GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Crop Code				INJURY	CROP HTS	CROP HTS	CROP HTS	CROP HTS	
Rating Data Type				%	CM	CM	CM	CM	
Rating Unit									
Rating Date				8/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005	
Trt-Eval Interval				43 DAT	14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B	
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Rate Unit	26	27	28	29	30	31
1	SYNCH XP ROUNDUP WEATHERMAX	1.125 22	oz wt/a fl oz/a	0 a		52 ab	50 abc	45 a	49 ab
2	CANOPY EX ROUNDUP WEATHERMAX	1.1 22	oz wt/a fl oz/a	0 a		40 b	42 bc	45 a	39 ab
3	CANOPY 75 DF ROUNDUP WEATHERMAX	2.2 22	oz wt/a fl oz/a	0 a		48 ab	45 bc	48 a	47 ab
4	PREVIEW 75 DF ROUNDUP WEATHERMAX	3.7 22	oz wt/a fl oz/a	0 a		59 a	55 ab	58 a	60 a
5	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	8.0 22	oz wt/a fl oz/a	0 a		46 ab	40 c	42 a	38 b
6	CANOPY XL ROUNDUP WEATHERMAX	2.5 22	oz wt/a fl oz/a	0 a		51 ab	51 abc	55 a	54 ab
7	CLASSIC VALOR ROUNDUP WEATHERMAX	1.0 2.0 22	oz wt/a oz wt/a fl oz/a	0 a		49 ab	50 abc	54 a	52 ab
8	SYNCH XP ROUNDUP WEATHERMAX	2 22	oz wt/a fl oz/a	0 a		49 ab	51 abc	53 a	54 ab
9	CANOPY EX ROUNDUP WEATHERMAX	1.9 22	oz wt/a fl oz/a	0 a		48 ab	47 abc	45 a	44 ab
10	CANOPY 75 DF ROUNDUP WEATHERMAX	4.0 22	oz wt/a fl oz/a	0 a		59 a	56 ab	58 a	56 ab
11	PREVIEW 75 DF ROUNDUP WEATHERMAX	6.6 22	oz wt/a fl oz/a	0 a		59 a	56 ab	60 a	57 ab
12	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	13.9 22	oz wt/a fl oz/a	0 a		47 ab	48 abc	52 a	47 ab
13	CANOPY XL ROUNDUP WEATHERMAX	4.5 22	oz wt/a fl oz/a	0 a		54 ab	47 abc	48 a	52 ab
14	CLASSIC VALOR ROUNDUP WEATHERMAX	1.7 2.0 22	oz wt/a oz wt/a fl oz/a	0 a		60 a	61 a	56 a	58 ab
15	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.0 22	lb/a fl oz/a	0 a		46 ab	48 abc	53 a	50 ab
16	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.5 22	lb/a fl oz/a	0 a		48 ab	53 abc	51 a	52 ab
17	SENCOR ROUNDUP WEATHERMAX	6 22	oz wt/a fl oz/a	0 a		56 ab	57 ab	48 a	49 ab
18	NONTREATED			0 a		45 ab	47 abc	44 a	53 ab
LSD (P=.05)				0.0	.	10.0	8.2	10.3	12.1
Standard Deviation				0.0	.	7.0	5.8	7.3	8.5
CV				0.0	.	13.88	11.61	14.44	16.93
Grand Mean				0.0	.	50.72	50.11	50.65	50.47
Bartlett's X2				0.0	.	18.17	13.023	14.854	29.316
P(Bartlett's X2)				.	.	0.378	0.735	0.606	0.032*
Replicate F				0.000		1.447	0.810	0.441	0.949
Replicate Prob(F)				1.0000		0.2401	0.4941	0.7249	0.4238
Treatment F				0.000		2.721	3.454	2.179	1.998
Treatment Prob(F)				1.0000		0.0030	0.0003	0.0166	0.0294

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

## LSU Northeast Research Station

Weed Code					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	INJURY	CROP HTS	CROP HTS	CROP HTS	CROP HTS
Rating Unit	%	CM	CM	CM	CM
Rating Date	8/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005
Trt-Eval Interval	43 DAT	14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B
ARM Action Codes					
# Subsamples, Dec.					
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.					

## LSU Northeast Research Station

Weed Code				GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code				CROP HTS	CROP HTS	CROP HTS	CROP HTS	CROP HTS
Rating Data Type				CM	CM	CM	CM	CM
Rating Unit				11/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005
Rating Date				14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B
Trt-Eval Interval								
ARM Action Codes								
# Subsamples, Dec.								
Trt No.	Treatment Name	Rate	Rate Unit	32	33	34	35	36
1	SYNCH XP	1.125	oz wt/a	46 a	49 a	44 a	50 a	48 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
2	CANOPY EX	1.1	oz wt/a	42 a	47 a	42 a	48 a	43 b
	ROUNDUP WEATHERMAX	22	fl oz/a					
3	CANOPY 75 DF	2.2	oz wt/a	45 a	44 a	39 a	48 a	43 b
	ROUNDUP WEATHERMAX	22	fl oz/a					
4	PREVIEW 75 DF	3.7	oz wt/a	57 a	61 a	59 a	52 a	57 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
5	LOROX PLUS 60 DF	8.0	oz wt/a	46 a	39 a	44 a	40 a	44 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
6	CANOPY XL	2.5	oz wt/a	54 a	54 a	60 a	58 a	54 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
7	CLASSIC	1.0	oz wt/a	51 a	47 a	46 a	51 a	48 ab
	VALOR	2.0	oz wt/a					
	ROUNDUP WEATHERMAX	22	fl oz/a					
8	SYNCH XP	2	oz wt/a	54 a	156 a	51 a	52 a	53 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
9	CANOPY EX	1.9	oz wt/a	48 a	47 a	41 a	48 a	51 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
10	CANOPY 75 DF	4.0	oz wt/a	56 a	58 a	58 a	55 a	61 a
	ROUNDUP WEATHERMAX	22	fl oz/a					
11	PREVIEW 75 DF	6.6	oz wt/a	56 a	55 a	53 a	56 a	55 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
12	LOROX PLUS 60 DF	13.9	oz wt/a	52 a	52 a	54 a	48 a	55 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
13	CANOPY XL	4.5	oz wt/a	52 a	53 a	53 a	48 a	51 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
14	CLASSIC	1.7	oz wt/a	54 a	57 a	57 a	59 a	51 ab
	VALOR	2.0	oz wt/a					
	ROUNDUP WEATHERMAX	22	fl oz/a					
15	LOROX PLUS 60 DF	1.0	lb/a	51 a	54 a	46 a	51 a	49 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
16	LOROX PLUS 60 DF	1.5	lb/a	52 a	55 a	47 a	53 a	48 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
17	SENCOR	6	oz wt/a	51 a	58 a	56 a	56 a	57 ab
	ROUNDUP WEATHERMAX	22	fl oz/a					
18	NONTREATED			46 a	51 a	46 a	51 a	45 ab
LSD (P=.05)				11.0	69.7	12.5	11.4	9.1
Standard Deviation				7.8	49.3	8.8	8.1	6.5
CV				15.37	85.8	17.79	15.75	12.79
Grand Mean				50.56	57.46	49.64	51.17	50.57
Bartlett's X2				16.988	180.07	10.106	21.921	17.307
P(Bartlett's X2)				0.455	0.001*	0.899	0.188	0.434
Replicate F				0.138	0.799	0.356	3.333	1.857
Replicate Prob(F)				0.9368	0.5001	0.7848	0.0265	0.1487
Treatment F				1.243	1.049	2.269	1.202	2.664
Treatment Prob(F)				0.2673	0.4260	0.0125	0.2967	0.0036

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

## LSU Northeast Research Station

Weed Code					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	CROP HTS	CROP HTS	CROP HTS	CROP HTS	CROP HTS
Rating Unit	CM	CM	CM	CM	CM
Rating Date	11/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005
Trt-Eval Interval	14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B
ARM Action Codes					
# Subsamples, Dec.					

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## LSU Northeast Research Station

Weed Code				GLXMA		GLXMA		ECHCG		SORHA		SEBEX	
Crop Code				CROP HTS		AVG HTS		GLXMA		GLXMA		GLXMA	
Rating Data Type				CM		CM		CONTROL		CONTROL		CONTROL	
Rating Unit								%		%		%	
Rating Date				11/Jul/2005		11/Jul/2005		19/Jul/2005		19/Jul/2005		19/Jul/2005	
Trt-Eval Interval				14 DAT-B		14 DAT-B		25 DAT-B		25 DAT-B		25 DAT-B	
ARM Action Codes						T2							
# Subsamples, Dec.													
Trt No.	Treatment Name	Rate	Rate Unit	37	38	39	40	41	42	43			
1	SYNCH XP ROUNDUP WEATHERMAX	1.125 22	oz wt/a fl oz/a	54 ab		48 ab		68 a-d	95 a	73 a			
2	CANOPY EX ROUNDUP WEATHERMAX	1.1 22	oz wt/a fl oz/a	50 ab		44 b		65 bcd	95 a	80 a			
3	CANOPY 75 DF ROUNDUP WEATHERMAX	2.2 22	oz wt/a fl oz/a	50 ab		46 ab		73 a-d	73 a	79 a			
4	PREVIEW 75 DF ROUNDUP WEATHERMAX	3.7 22	oz wt/a fl oz/a	59 a		58 ab		83 abc	95 a	93 a			
5	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	8.0 22	oz wt/a fl oz/a	42 b		42 b		64 cd	95 a	76 a			
6	CANOPY XL ROUNDUP WEATHERMAX	2.5 22	oz wt/a fl oz/a	53 ab		54 ab		78 a-d	95 a	80 a			
7	CLASSIC VALOR ROUNDUP WEATHERMAX	1.0 2.0 22	oz wt/a oz wt/a fl oz/a	52 ab		50 ab		75 a-d	95 a	85 a			
8	SYNCH XP ROUNDUP WEATHERMAX	2 22	oz wt/a fl oz/a	46 ab		62 a		65 bcd	95 a	84 a			
9	CANOPY EX ROUNDUP WEATHERMAX	1.9 22	oz wt/a fl oz/a	51 ab		47 ab		73 a-d	95 a	79 a			
10	CANOPY 75 DF ROUNDUP WEATHERMAX	4.0 22	oz wt/a fl oz/a	58 a		57 ab		86 a	95 a	84 a			
11	PREVIEW 75 DF ROUNDUP WEATHERMAX	6.6 22	oz wt/a fl oz/a	57 ab		56 ab		88 a	95 a	93 a			
12	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	13.9 22	oz wt/a fl oz/a	51 ab		51 ab		75 a-d	95 a	86 a			
13	CANOPY XL ROUNDUP WEATHERMAX	4.5 22	oz wt/a fl oz/a	53 ab		51 ab		85 ab	95 a	83 a			
14	CLASSIC VALOR ROUNDUP WEATHERMAX	1.7 2.0 22	oz wt/a oz wt/a fl oz/a	55 ab		56 ab		80 a-d	94 a	86 a			
15	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.0 22	lb/a fl oz/a	53 ab		50 ab		71 a-d	95 a	83 a			
16	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.5 22	lb/a fl oz/a	53 ab		51 ab		74 a-d	95 a	89 a			
17	SENCOR ROUNDUP WEATHERMAX	6 22	oz wt/a fl oz/a	59 a		55 ab		83 abc	95 a	91 a			
18	NONTREATED			50 ab		48 ab		61 d	95 a	79 a			
LSD (P=.05)				8.7	.	9.3	.	11.9	15.0	11.5			
Standard Deviation				6.2	.	6.6	.	8.4	10.6	8.1			
CV				11.81	.	12.82	.	11.27	11.35	9.74			
Grand Mean				52.4	.	51.37	.	74.65	93.68	83.33			
Bartlett's X2				34.787	.	39.337	.	19.61	13.081	18.71			
P(Bartlett's X2)				0.007*	.	0.002*	.	0.238	0.001*	0.345			
Replicate F				1.072		0.303		0.044	0.961	1.026			
Replicate Prob(F)				0.3690		0.8230		0.9875	0.4183	0.3889			
Treatment F				2.004		2.614		3.738	0.991	1.909			
Treatment Prob(F)				0.0289		0.0042		0.0001	0.4822	0.0389			

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

## LSU Northeast Research Station

Weed Code	GLXMA	GLXMA	ECHCG	SORHA	SEBEX
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	CROP HTS	AVG HTS	CONTROL	CONTROL	CONTROL
Rating Unit	CM	CM	%	%	%
Rating Date	11/Jul/2005	11/Jul/2005	19/Jul/2005	19/Jul/2005	19/Jul/2005
Trt-Eval Interval	14 DAT-B	14 DAT-B	25 DAT-B	25 DAT-B	25 DAT-B
ARM Action Codes		T2			
# Subsamples, Dec.					

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 39: T2 = @AVG([C28].[C37])

## LSU Northeast Research Station

Weed Code		CASOB	IPOLA	IPOHG	AMARE		GLXMA			
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA		INJURY			
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL		%			
Rating Unit		%	%	%	%		%			
Rating Date		19/Jul/2005	19/Jul/2005	19/Jul/2005	19/Jul/2005		19/Jul/2005			
Trt-Eval Interval		25 DAT-B	25 DAT-B	25 DAT-B	25 DAT-B		25 DAT-B			
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	44	45	46	47	48	49	50
1	SYNCH XP ROUNDUP WEATHERMAX	1.125 22	oz wt/a fl oz/a	85 a	86 abc	93 a	95 a		0 a	
2	CANOPY EX ROUNDUP WEATHERMAX	1.1 22	oz wt/a fl oz/a	81 a	89 ab	95 a	95 a		0 a	
3	CANOPY 75 DF ROUNDUP WEATHERMAX	2.2 22	oz wt/a fl oz/a	80 a	74 a-d	84 ab	95 a		0 a	
4	PREVIEW 75 DF ROUNDUP WEATHERMAX	3.7 22	oz wt/a fl oz/a	67 a	83 a-d	85 ab	95 a		0 a	
5	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	8.0 22	oz wt/a fl oz/a	78 a	70 bcd	81 ab	95 a		0 a	
6	CANOPY XL ROUNDUP WEATHERMAX	2.5 22	oz wt/a fl oz/a	78 a	91 a	94 a	95 a		0 a	
7	CLASSIC VALOR ROUNDUP WEATHERMAX	1.0 2.0 22	oz wt/a oz wt/a fl oz/a	86 a	86 abc	94 a	95 a		0 a	
8	SYNCH XP ROUNDUP WEATHERMAX	2 22	oz wt/a fl oz/a	88 a	85 abc	90 a	95 a		0 a	
9	CANOPY EX ROUNDUP WEATHERMAX	1.9 22	oz wt/a fl oz/a	86 a	81 a-d	81 ab	95 a		0 a	
10	CANOPY 75 DF ROUNDUP WEATHERMAX	4.0 22	oz wt/a fl oz/a	90 a	84 a-d	84 ab	95 a		0 a	
11	PREVIEW 75 DF ROUNDUP WEATHERMAX	6.6 22	oz wt/a fl oz/a	89 a	81 a-d	83 ab	95 a		0 a	
12	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	13.9 22	oz wt/a fl oz/a	75 a	65 d	84 ab	95 a		0 a	
13	CANOPY XL ROUNDUP WEATHERMAX	4.5 22	oz wt/a fl oz/a	76 a	94 a	95 a	95 a		0 a	
14	CLASSIC VALOR ROUNDUP WEATHERMAX	1.7 2.0 22	oz wt/a oz wt/a fl oz/a	88 a	89 ab	93 a	95 a		0 a	
15	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.0 22	lb/a fl oz/a	73 a	66 cd	84 ab	95 a		0 a	
16	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.5 22	lb/a fl oz/a	70 a	68 cd	79 ab	95 a		0 a	
17	SENCOR ROUNDUP WEATHERMAX	6 22	oz wt/a fl oz/a	80 a	81 a-d	70 b	95 a		0 a	
18	NONTREATED			84 a	84 a-d	85 ab	95 a		0 a	
LSD (P=.05)				17.5	11.5	10.3	0.0	.	0.0	.
Standard Deviation				12.3	8.1	7.3	0.0	.	0.0	.
CV				15.31	10.05	8.44	0.0	.	0.0	.
Grand Mean				80.67	80.9	86.18	95.0	.	0.0	.
Bartlett's X2				41.902	30.091	26.966	0.0	.	0.0	.
P(Bartlett's X2)				0.001*	0.026*	0.029*	.	.	.	.
Replicate F				0.260	1.363	1.250	0.000		0.000	
Replicate Prob(F)				0.8541	0.2645	0.3012	1.0000		1.0000	
Treatment F				1.198	4.645	3.429	0.000		0.000	
Treatment Prob(F)				0.2994	0.0001	0.0003	1.0000		1.0000	

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

## LSU Northeast Research Station

Weed Code	CASOB	IPOLA	IPOHG	AMARE		GLXMA
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA		GLXMA
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL		INJURY
Rating Unit	%	%	%	%		%
Rating Date	19/Jul/2005	19/Jul/2005	19/Jul/2005	19/Jul/2005		19/Jul/2005
Trt-Eval Interval	25 DAT-B	25 DAT-B	25 DAT-B	25 DAT-B		25 DAT-B
ARM Action Codes						
# Subsamples, Dec.						

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## LSU Northeast Research Station

Weed Code				GLXMA	GLXMA	GLXMA
Crop Code				YIELD	MOISTURE	YIELD
Rating Data Type				LBS	%	BU/A
Rating Unit				13/Oct/2005	13/Oct/2005	13/Oct/2005
Rating Date						
Trt-Eval Interval						
ARM Action Codes						TY3
# Subsamples, Dec.						1
Trt No.	Treatment Name	Rate	Rate Unit	51	52	53
1	SYNCH XP ROUNDUP WEATHERMAX	1.125 22	oz wt/a fl oz/a	6 ab	14 a	23.8 ab
2	CANOPY EX ROUNDUP WEATHERMAX	1.1 22	oz wt/a fl oz/a	4 ab	12 a	18.1 ab
3	CANOPY 75 DF ROUNDUP WEATHERMAX	2.2 22	oz wt/a fl oz/a	5 ab	13 a	21.7 ab
4	PREVIEW 75 DF ROUNDUP WEATHERMAX	3.7 22	oz wt/a fl oz/a	7 a	13 a	30.0 a
5	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	8.0 22	oz wt/a fl oz/a	3 b	10 a	14.1 b
6	CANOPY XL ROUNDUP WEATHERMAX	2.5 22	oz wt/a fl oz/a	6 ab	13 a	25.4 ab
7	CLASSIC VALOR ROUNDUP WEATHERMAX	1.0 2.0 22	oz wt/a oz wt/a fl oz/a	6 ab	13 a	25.1 ab
8	SYNCH XP ROUNDUP WEATHERMAX	2 22	oz wt/a fl oz/a	5 ab	13 a	22.7 ab
9	CANOPY EX ROUNDUP WEATHERMAX	1.9 22	oz wt/a fl oz/a	5 ab	12 a	20.0 ab
10	CANOPY 75 DF ROUNDUP WEATHERMAX	4.0 22	oz wt/a fl oz/a	7 a	13 a	31.0 a
11	PREVIEW 75 DF ROUNDUP WEATHERMAX	6.6 22	oz wt/a fl oz/a	6 ab	15 a	26.1 ab
12	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	13.9 22	oz wt/a fl oz/a	5 ab	13 a	20.6 ab
13	CANOPY XL ROUNDUP WEATHERMAX	4.5 22	oz wt/a fl oz/a	7 a	13 a	30.4 a
14	CLASSIC VALOR ROUNDUP WEATHERMAX	1.7 2.0 22	oz wt/a oz wt/a fl oz/a	7 a	13 a	29.7 a
15	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.0 22	lb/a fl oz/a	5 ab	13 a	23.4 ab
16	LOROX PLUS 60 DF ROUNDUP WEATHERMAX	1.5 22	lb/a fl oz/a	5 ab	14 a	21.8 ab
17	SENCOR ROUNDUP WEATHERMAX	6 22	oz wt/a fl oz/a	6 ab	13 a	25.3 ab
18	NONTREATED			4 ab	12 a	19.3 ab
LSD (P=.05)				2.0	2.3	8.44
Standard Deviation				1.4	1.6	5.97
CV				25.31	12.64	25.07
Grand Mean				5.48	13.01	23.8
Bartlett's X2				11.543	74.985	11.62
P(Bartlett's X2)				0.827	0.001*	0.823
Replicate F				6.336	2.887	6.636
Replicate Prob(F)				0.0010	0.0445	0.0007
Treatment F				2.432	1.825	2.395
Treatment Prob(F)				0.0075	0.0503	0.0084

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

## LSU Northeast Research Station

Weed Code			
Crop Code	GLXMA	GLXMA	GLXMA
Rating Data Type	YIELD	MOISTURE	YIELD
Rating Unit	LBS	%	BU/A
Rating Date	13/Oct/2005	13/Oct/2005	13/Oct/2005
Trt-Eval Interval			
ARM Action Codes			TY3
# Subsamples, Dec.			1

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 53: TY3 =  $4.353823 * [51] * (100 - [52]) / 87$