

LSU Northeast Research Station

EFFECT OF DELAYED ROUNDUP WEATHERMAX APPLICATION IN ROUNDUP READY SOYBEAN

Trial ID: 05SB11JG

Study Director:

Location: Ben Hur Research Farm

Investigator: Donnie Miller

Site and Design

Plot Width, Unit: 6.67 FT

Site Type: _____

Plot Length, Unit: 25 FT

Tillage Type: _____

Replications: 4

Study Design: Randomized Complete Block

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

Application Description

	A	B	C	D	E
Application Date:	13/Jun/2005	5/Jul/2005	15/Jul/2005	18/Jul/2005	20/Jul/2005
Time of Day:	5:45 PM	10:30 AM	10:30 AM	4:00 PM	1:20 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	POSPOS	POSPOS	POSPOS	POSPOS	POSPOS
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	DKM	DKM	DKM	MSM	MSM
Air Temperature, Unit:	90 F	88 F	81 F	92 F	94 F
% Relative Humidity:	59	65	80	58	52
Wind Velocity, Unit:	6.2 MPH	5.3 MPH	4.6 MPH	4.1 MPH	4.1 MPH
Dew Presence (Y/N):					
Water Hardness:					
Soil Temperature, Unit:	93 F	91 F	86 F	100 F	102 F
Soil Moisture:	DRY	DRY	MOIST	DRY	DRY
% Cloud Cover:	30	20	85	40	20

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	2 IN	4 IN	6 IN	6 IN
Height Minimum, Maximum:	1 3	2 6	5 8	1 9
Density, Unit:				
Coverage, Unit:				
Pest 2 Code, Disc., Scale:	SORHA W	SORHA W	SORHA W	SORHA W
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	2 IN	4 IN	6 IN	6 IN
Height Minimum, Maximum:	1 3	2 6	5 8	1 9
Density, Unit:				
Coverage, Unit:				
Pest 3 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	2 IN	4 IN	6 IN	6 IN
Height Minimum, Maximum:	1 3	2 6	5 8	1 9

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Density, Unit:				
Coverage, Unit:				
Pest 4 Code, Disc., Scale:	CASOB W	CASOB W	CASOB W	CASOB W
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	2 IN	4 IN	6 IN	6 IN
Height Minimum, Maximum:	1 3	2 6	5 8	1 9
Density, Unit:				
Coverage, Unit:				
Pest 5 Code, Disc., Scale:	IPOLA W	IPOLA W	IPOLA W	IPOLA W
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	2 IN	4 IN	6 IN	6 IN
Height Minimum, Maximum:	1 3	2 6	5 8	1 9
Density, Unit:				
Coverage, Unit:				
Pest 6 Code, Disc., Scale:	IPOHG W	IPOHG W	IPOHG W	IPOHG W
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	2 IN	4 IN	6 IN	6 IN
Height Minimum, Maximum:	1 3	2 6	5 8	1 9
Density, Unit:				
Coverage, Unit:				
Pest 7 Code, Disc., Scale:	AMARE W	AMARE W	AMARE W	AMARE W
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	2 IN	4 IN	6 IN	6 IN
Height Minimum, Maximum:	1 3	2 6	5 8	1 9
Density, Unit:				
Coverage, Unit:				
	E			
Pest 1 Code, Disc., Scale:	ECHCG W			
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	6 IN			
Height Minimum, Maximum:	1 9			
Density, Unit:				
Coverage, Unit:				
Pest 2 Code, Disc., Scale:	SORHA W			
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:	6 IN			
Height Minimum, Maximum:	1 9			
Density, Unit:				
Coverage, Unit:				

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Pest 3 Code, Disc., Scale:	SEBEX	W
Stage Majority, Percent:		
Stage Minimum, Percent:		
Stage Maximum, Percent:		
Diameter, Unit:		
Height, Unit:	6	IN
Height Minimum, Maximum:	1	9
Density, Unit:		
Coverage, Unit:		
Pest 4 Code, Disc., Scale:	CASOB	W
Stage Majority, Percent:		
Stage Minimum, Percent:		
Stage Maximum, Percent:		
Diameter, Unit:		
Height, Unit:	6	IN
Height Minimum, Maximum:	1	9
Density, Unit:		
Coverage, Unit:		
Pest 5 Code, Disc., Scale:	IPOLA	W
Stage Majority, Percent:		
Stage Minimum, Percent:		
Stage Maximum, Percent:		
Diameter, Unit:		
Height, Unit:	6	IN
Height Minimum, Maximum:	1	9
Density, Unit:		
Coverage, Unit:		
Pest 6 Code, Disc., Scale:	IPOHG	W
Stage Majority, Percent:		
Stage Minimum, Percent:		
Stage Maximum, Percent:		
Diameter, Unit:		
Height, Unit:	6	IN
Height Minimum, Maximum:	1	9
Density, Unit:		
Coverage, Unit:		
Pest 7 Code, Disc., Scale:	AMARE	W
Stage Majority, Percent:		
Stage Minimum, Percent:		
Stage Maximum, Percent:		
Diameter, Unit:		
Height, Unit:	6	IN
Height Minimum, Maximum:	1	9
Density, Unit:		
Coverage, Unit:		

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Application Equipment

	A	B	C	D	E
Appl. Equipment:	CO2 BCPCK	CO2 BCPCK	CO2 BCPCK	CO2 BCPCK	CO2 BCPCK
Operating Pressure:	32	32	38	38	38
Pressure Unit:	PSI	PSI	PSI	PSI	PSI
Nozzle Type:	AI	AI	AI	AI	AI
Nozzle Size:	11002	11002	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN
Nozzles/Row:	2	2	2	2	2
Band Width, Unit:					
Boom Length, Unit:					
Boom Height, Unit:					
Ground Speed, Unit:	3.2 MPH	3.2 MPH	3.2 MPH	3.2 MPH	3.2 MPH
Incorporation Equip.:					
Hours to Incorp.:					
Incorp. Depth, Unit:					
Carrier:	WATER	WATER	WATER	WATER	WATER
Spray Volume:	15	15	15	15	15
Volume Unit:	GPA	GPA	GPA	GPA	GPA
Spray pH:					
Propellant:					
Tank Mix (Y/N):					

Equipment Comment:

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Roundup Delayed Application Test #1 (Early Planting)

Trial ID: 05SB11JG

Study Director:

Location: Ben Hur Research Farm

Investigator: Donnie Miller

Pest Type	W Weed	SORHA	SEBEX	CASOB	IPOLA			
Pest Code	ECHCG	GLXMA	GLXMA	GLXMA	GLXMA			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR			
Rating Date	27/Jun/2005	27/Jun/2005	27/Jun/2005	27/Jun/2005	27/Jun/2005			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%			
Days After Last Applic.	14	14	14	14	14			
Trt-Eval Interval	2 WAA	2 WAA	2 WAA	2 WAA	2 WAA			
ARM Action Codes								
Number of Decimals								
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5
1	ROUNDUP WEATHERMAX	16	oz/a	80 a	95 a	68 a	85 a	66 a
2	ROUNDUP WEATHERMAX	16	oz/a	44 b	88 a	55 b	81 a	48 b
3	ROUNDUP WEATHERMAX	16	oz/a	79 a	95 a	68 a	85 a	68 a
	ROUNDUP WEATHERMAX	16	oz/a					
4	ROUNDUP WEATHERMAX	16	oz/a	85 a	95 a	71 a	85 a	68 a
	ROUNDUP WEATHERMAX	16	oz/a					
5	ROUNDUP WEATHERMAX	16	oz/a	81 a	95 a	71 a	83 a	68 a
	ROUNDUP WEATHERMAX	16	oz/a					
6	ROUNDUP WEATHERMAX	16	oz/a	79 a	95 a	71 a	88 a	69 a
	ROUNDUP WEATHERMAX	16	oz/a					
	ROUNDUP WEATHERMAX	16	oz/a					
7	ROUNDUP WEATHERMAX	16	oz/a	86 a	95 a	66 a	85 a	70 a
	ROUNDUP WEATHERMAX	16	oz/a					
	ROUNDUP WEATHERMAX	16	oz/a					
LSD (P=.05)		10.8		4.9	8.4	6.9	8.5	
Standard Deviation		7.3		3.3	5.7	4.6	5.7	
CV		9.55		3.48	8.47	5.49	8.84	
Grand Mean		76.25		93.93	67.14	84.46	65.0	
Bartlett's X2		1.37		0.0	9.114	6.408	14.656	
P(Bartlett's X2)		0.968		.	0.167	0.268	0.023*	
Replicate F		3.695		1.000	0.442	2.806	0.937	
Replicate Prob(F)		0.0312		0.4155	0.7260	0.0691	0.4433	
Treatment F		16.133		3.000	4.104	0.760	7.378	
Treatment Prob(F)		0.0001		0.0327	0.0091	0.6101	0.0004	

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.

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Pest Type			W Weed				
Pest Code	IPOHG	AMARE	ECHCG	SORHA	SEBEX	CASOB	
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR	
Rating Date	27/Jun/2005	27/Jun/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005	11/Jul/2005	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	%	
Days After Last Applic.	14	14	6	6	6	6	
Trt-Eval Interval	2 WAA	2 WAA	4 WAA-A	4 WAA-A	4 WAA-A	4 WAA-A	
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate						
No. Name	Rate Unit	6	7	8	9	10	11
1 ROUNDUP WEATHERMAX	16 oz/a	83 a	95 a	68 a	95 a	40 b	74 a
2 ROUNDUP WEATHERMAX	16 oz/a	81 a	95 a				
3 ROUNDUP WEATHERMAX	16 oz/a	84 a	95 a	80 a	95 a	69 a	86 a
4 ROUNDUP WEATHERMAX	16 oz/a	85 a	95 a	79 a	95 a	38 b	74 a
5 ROUNDUP WEATHERMAX	16 oz/a	85 a	95 a	68 a	95 a	44 b	80 a
6 ROUNDUP WEATHERMAX	16 oz/a	85 a	95 a	81 a	95 a	70 a	91 a
7 ROUNDUP WEATHERMAX	16 oz/a	85 a	95 a	74 a	95 a	28 b	79 a
LSD (P=.05)		3.1	0.0	10.7	0.0	15.6	12.6
Standard Deviation		2.1	0.0	7.1	0.0	10.3	8.3
CV		2.52	0.0	9.53	0.0	21.55	10.33
Grand Mean		83.93	95.0	74.79	95.0	47.92	80.63
Bartlett's X2		1.0	0.0	0.632	0.0	6.465	4.265
P(Bartlett's X2)		0.801	.	0.959	.	0.264	0.512
Replicate F		2.400	0.000	5.876	0.000	0.430	1.937
Replicate Prob(F)		0.1016	1.0000	0.0074	1.0000	0.7347	0.1670
Treatment F		2.067	0.000	3.025	0.000	11.453	2.802
Treatment Prob(F)		0.1088	1.0000	0.0439	1.0000	0.0001	0.0556

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Pest Type				W Weed		
Pest Code	IPOLA	IPOHG	AMARE	ECHCG	SORHA	SEBEX
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR
Rating Date	11/Jul/2005	11/Jul/2005	11/Jul/2005	19/Jul/2005	19/Jul/2005	19/Jul/2005
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Days After Last Applic.	6	6	6	1	1	1
Trt-Eval Interval	4 WAA-A	4 WAA-A	4 WAA-A	2 WAA-B	2 WAA-B	2 WAA-B
ARM Action Codes						
Number of Decimals						
Trt Treatment	Rate					
No. Name	Rate Unit	12	13	14	15	16
1 ROUNDUP WEATHERMAX	16 oz/a	63 a	85 a	95 a		
2 ROUNDUP WEATHERMAX	16 oz/a				58 b	95 a
3 ROUNDUP WEATHERMAX	16 oz/a	64 a	91 a	95 a	83 a	95 a
4 ROUNDUP WEATHERMAX	16 oz/a	58 a	83 a	95 a		
5 ROUNDUP WEATHERMAX	16 oz/a	68 a	89 a	94 a		
6 ROUNDUP WEATHERMAX	16 oz/a	73 a	94 a	95 a	83 a	95 a
7 ROUNDUP WEATHERMAX	16 oz/a	59 a	83 a	95 a		
LSD (P=.05)		18.2	14.2	1.5	9.1	0.0
Standard Deviation		12.1	9.4	1.0	5.3	0.0
CV		18.92	10.81	1.08	7.11	0.0
Grand Mean		63.75	87.29	94.79	74.17	95.0
Bartlett's X2		3.962	12.115	0.0	6.514	0.0
P(Bartlett's X2)		0.555	0.033*	.	0.038*	.
Replicate F		0.124	0.074	1.000	2.500	0.000
Replicate Prob(F)		0.9444	0.9730	0.4199	0.1565	1.0000
Treatment F		0.859	0.994	1.000	30.000	0.000
Treatment Prob(F)		0.5305	0.4541	0.4509	0.0008	1.0000

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

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Pest Type		CASOB	IPOLA	IPOHG	AMARE	W Weed	SORHA			
Pest Code		GLXMA	GLXMA	GLXMA	GLXMA	ECHCG	GLXMA			
Crop Code		BSOY	BSOY	BSOY	BSOY	GLXMA	GLXMA			
BBCH Scale		DP5644RR	DP5644RR	DP5644RR	DP5644RR	BSOY	BSOY			
Crop Variety		19/Jul/2005	19/Jul/2005	19/Jul/2005	19/Jul/2005	DP5644RR	DP5644RR			
Rating Date		CONTROL	CONTROL	CONTROL	CONTROL	29/Jul/2005	29/Jul/2005			
Rating Data Type		%	%	%	%	CONTROL	CONTROL			
Rating Unit		1	1	1	1	%	%			
Days After Last Applic.		2 WAA-B	2 WAA-B	2 WAA-B	2 WAA-B	9	9			
Trt-Eval Interval						2 WAA-C	2 WAA-C			
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Rate	Unit	18	19	20	21	22	23	
1	ROUNDUP WEATHERMAX	16	oz/a							
2	ROUNDUP WEATHERMAX	16	oz/a	89 a	55 a	86 a	95 a			
3	ROUNDUP WEATHERMAX	16	oz/a	89 a	70 a	89 a	95 a			
	ROUNDUP WEATHERMAX	16	oz/a							
4	ROUNDUP WEATHERMAX	16	oz/a					89 a	95 a	
	ROUNDUP WEATHERMAX	16	oz/a							
5	ROUNDUP WEATHERMAX	16	oz/a							
	ROUNDUP WEATHERMAX	16	oz/a							
6	ROUNDUP WEATHERMAX	16	oz/a	90 a	75 a	86 a	95 a			
	ROUNDUP WEATHERMAX	16	oz/a							
	ROUNDUP WEATHERMAX	16	oz/a							
7	ROUNDUP WEATHERMAX	16	oz/a					93 a	95 a	
	ROUNDUP WEATHERMAX	16	oz/a							
	ROUNDUP WEATHERMAX	16	oz/a							
LSD (P=.05)		8.0		17.1		16.8		0.0	7.6	0.0
Standard Deviation		4.6		9.9		9.7		0.0	3.4	0.0
CV		5.2		14.79		11.16		0.0	3.74	0.0
Grand Mean		89.17		66.67		87.08		95.0	90.63	95.0
Bartlett's X2		0.14		1.212		2.536		0.0	0.006	0.0
P(Bartlett's X2)		0.933		0.545		0.281		.	0.941	.
Replicate F		1.677		0.057		0.140		0.000	3.182	0.000
Replicate Prob(F)		0.2698		0.9804		0.9326		1.0000	0.1836	1.0000
Treatment F		0.097		4.457		0.088		0.000	2.455	0.000
Treatment Prob(F)		0.9091		0.0651		0.9167		1.0000	0.2152	1.0000

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Pest Type						W Weed			
Pest Code	SEBEX	CASOB	IPOLA	IPOHG	AMARE	ECHCG			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR			
Rating Date	29/Jul/2005	29/Jul/2005	29/Jul/2005	29/Jul/2005	29/Jul/2005	1/Aug/2005			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Days After Last Applic.	9	9	9	9	9	12			
Trt-Eval Interval	2 WAA-C	2 WAA-C	2 WAA-C	2 WAA-C	2 WAA-C	2 WAA-(5+6)			
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Unit	24	25	26	27	28	29
1	ROUNDUP WEATHERMAX	16	oz/a						
2	ROUNDUP WEATHERMAX	16	oz/a						
3	ROUNDUP WEATHERMAX	16	oz/a						
	ROUNDUP WEATHERMAX	16	oz/a						
4	ROUNDUP WEATHERMAX	16	oz/a	66 b	95 a	69 b	85 b	95 a	
	ROUNDUP WEATHERMAX	16	oz/a						
5	ROUNDUP WEATHERMAX	16	oz/a						83 a
	ROUNDUP WEATHERMAX	16	oz/a						
6	ROUNDUP WEATHERMAX	16	oz/a						90 a
	ROUNDUP WEATHERMAX	16	oz/a						
	ROUNDUP WEATHERMAX	16	oz/a						
7	ROUNDUP WEATHERMAX	16	oz/a	83 a	93 a	76 a	91 a	95 a	
	ROUNDUP WEATHERMAX	16	oz/a						
	ROUNDUP WEATHERMAX	16	oz/a						
LSD (P=.05)		7.6		8.0	4.6	4.0	0.0	10.3	
Standard Deviation		3.4		3.5	2.0	1.8	0.0	4.6	
CV		4.55		3.77	2.82	2.01	0.0	5.29	
Grand Mean		74.38		93.75	72.5	88.13	95.0	86.25	
Bartlett's X2		0.72		0.0	0.0	0.0	0.0	0.345	
P(Bartlett's X2)		0.396		.	1.00	.	.	0.557	
Replicate F		1.727		1.000	2.000	1.000	0.000	2.600	
Replicate Prob(F)		0.3323		0.5000	0.2918	0.5000	1.0000	0.2267	
Treatment F		46.091		1.000	27.000	25.000	0.000	5.400	
Treatment Prob(F)		0.0065		0.3910	0.0138	0.0154	1.0000	0.1027	

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.

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Pest Type					
Pest Code	SORHA	SEBEX	CASOB	IPOLA	IPOHG
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR
Rating Date	1/Aug/2005	1/Aug/2005	1/Aug/2005	1/Aug/2005	1/Aug/2005
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Days After Last Applic.	12	12	12	12	12
Trt-Eval Interval	2 WAA-(5+6)	2 WAA-(5+6)	2 WAA-(5+6)	2 WAA-(5+6)	2 WAA-(5+6)
ARM Action Codes					
Number of Decimals					
Trt No.	Treatment Name	Rate	Unit		
		30		31	32
					33
					34
1	ROUNDUP WEATHERMAX	16	oz/a		
2	ROUNDUP WEATHERMAX	16	oz/a		
3	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
4	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
5	ROUNDUP WEATHERMAX	16	oz/a	95 a	63 a
	ROUNDUP WEATHERMAX	16	oz/a		91 a
					71 a
					85 a
6	ROUNDUP WEATHERMAX	16	oz/a	95 a	66 a
	ROUNDUP WEATHERMAX	16	oz/a		95 a
	ROUNDUP WEATHERMAX	16	oz/a		74 a
					89 a
7	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
LSD (P=.05)		0.0		7.6	11.9
Standard Deviation		0.0		3.4	5.3
CV		0.0		5.26	5.69
Grand Mean		95.0		64.38	93.13
Bartlett's X2		0.0		1.623	0.0
P(Bartlett's X2)		.		0.203	.
					0.001*
					0.786
Replicate F		0.000		3.182	1.000
Replicate Prob(F)		1.0000		0.1836	0.5000
Treatment F		0.000		2.455	1.000
Treatment Prob(F)		1.0000		0.2152	0.3910
					0.1817
					0.2152

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Pest Type		W Weed				
Pest Code	AMARE	ECHCG	SORHA	SEBEX	CASOB	IPOLA
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR
Rating Date	1/Aug/2005	2/Aug/2005	2/Aug/2005	2/Aug/2005	2/Aug/2005	2/Aug/2005
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Days After Last Applic.	12	13	13	13	13	13
Trt-Eval Interval	2 WAA-(5+6)	4 WAA-B	4 WAA-B	4 WAA-B	4 WAA-B	4 WAA-B
ARM Action Codes						
Number of Decimals						
Trt No.	Treatment Name	Rate	Unit			
		35		36	37	38
1	ROUNDUP WEATHERMAX	16	oz/a			
2	ROUNDUP WEATHERMAX	16	oz/a	63 b	95 a	53 b
3	ROUNDUP WEATHERMAX	16	oz/a	75 ab	95 a	45 b
	ROUNDUP WEATHERMAX	16	oz/a			
4	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
5	ROUNDUP WEATHERMAX	16	oz/a	95 a		
	ROUNDUP WEATHERMAX	16	oz/a			
6	ROUNDUP WEATHERMAX	16	oz/a	95 a	91 a	95 a
	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
7	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
LSD (P=.05)		0.0		20.8	0.0	13.0
Standard Deviation		0.0		12.0	0.0	7.5
CV		0.0		15.8	0.0	13.74
Grand Mean		95.0		76.25	95.0	54.58
Bartlett's X2		0.0		5.092	0.0	0.947
P(Bartlett's X2)		.		0.078	.	0.623
Replicate F		0.000		1.890	0.000	1.815
Replicate Prob(F)		1.0000		0.2323	1.0000	0.2447
Treatment F		0.000		5.727	0.000	8.259
Treatment Prob(F)		1.0000		0.0406	1.0000	0.0189

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

Pest Type			W Weed			
Pest Code	IPOHG	AMARE	ECHCG	SORHA	SEBEX	CASOB
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR
Rating Date	2/Aug/2005	2/Aug/2005	3/Aug/2005	3/Aug/2005	3/Aug/2005	3/Aug/2005
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Days After Last Applic.	13	13	14	14	14	14
Trt-Eval Interval	4 WAA-B	4 WAA-B	4 WAA-#7	4 WAA-#7	4 WAA-#7	4 WAA-#7
ARM Action Codes						
Number of Decimals						
Trt No.	Treatment Name	Rate	Unit			
		41		42	43	44
1	ROUNDUP WEATHERMAX	16	oz/a			
2	ROUNDUP WEATHERMAX	16	oz/a	84 c	95 a	
3	ROUNDUP WEATHERMAX	16	oz/a	88 b	95 a	
	ROUNDUP WEATHERMAX	16	oz/a			
4	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
5	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
6	ROUNDUP WEATHERMAX	16	oz/a	95 a	95 a	
	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
7	ROUNDUP WEATHERMAX	16	oz/a		95	95
	ROUNDUP WEATHERMAX	16	oz/a			85
	ROUNDUP WEATHERMAX	16	oz/a			93
LSD (P=.05)		3.2		0.0	.	.
Standard Deviation		1.9		0.0	.	.
CV		2.1		0.0	.	.
Grand Mean		88.75		95.0	95.0	95.0
Bartlett's X2		0.06		0.0	.	.
P(Bartlett's X2)		0.806		.	.	.
Replicate F		2.200		0.000		
Replicate Prob(F)		0.1889		1.0000		
Treatment F		37.800		0.000		
Treatment Prob(F)		0.0004		1.0000		

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

Pest Type				W Weed		
Pest Code	IPOLA	IPOHG	AMARE	ECHCG	SORHA	SEBEX
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR
Rating Date	3/Aug/2005	3/Aug/2005	3/Aug/2005	12/Aug/2005	12/Aug/2005	12/Aug/2005
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Days After Last Applic.	14	14	14	23	23	23
Trt-Eval Interval	4 WAA-#7	4 WAA-#7	4 WAA-#7	4 WAA-C	4 WAA-C	4 WAA-C
ARM Action Codes						
Number of Decimals						
Trt No.	Treatment Name	Rate	Unit			
		47		48	49	50
1	ROUNDUP WEATHERMAX	16	oz/a			
2	ROUNDUP WEATHERMAX	16	oz/a			
3	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
4	ROUNDUP WEATHERMAX	16	oz/a		89 a	95 a
	ROUNDUP WEATHERMAX	16	oz/a			75 b
5	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
6	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
	ROUNDUP WEATHERMAX	16	oz/a			
7	ROUNDUP WEATHERMAX	16	oz/a	81	93	95
	ROUNDUP WEATHERMAX	16	oz/a			95 a
	ROUNDUP WEATHERMAX	16	oz/a			95 a
	ROUNDUP WEATHERMAX	16	oz/a			89 a
LSD (P=.05)		.	.	.	7.6	0.0
Standard Deviation		.	.	.	3.4	0.0
CV		.	.	.	3.68	0.0
Grand Mean		81.25	92.5	95.0	91.88	95.0
Bartlett's X2		.	.	.	0.0	0.0
P(Bartlett's X2)	
Replicate F					1.000	0.000
Replicate Prob(F)					0.5000	1.0000
Treatment F					6.818	0.000
Treatment Prob(F)					0.0796	1.0000

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

Pest Type					W Weed
Pest Code	CASOB	IPOLA	IPOHG	AMARE	ECHCG
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR
Rating Date	12/Aug/2005	12/Aug/2005	12/Aug/2005	12/Aug/2005	15/Aug/2005
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Days After Last Applic.	23	23	23	23	26
Trt-Eval Interval	4 WAA-C	4 WAA-C	4 WAA-C	4 WAA-C	4 WAA (5+6)
ARM Action Codes					
Number of Decimals					
Trt No.	Treatment Name	Rate	Unit		
		53		54	55
					56
					57
1	ROUNDUP WEATHERMAX	16	oz/a		
2	ROUNDUP WEATHERMAX	16	oz/a		
3	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
4	ROUNDUP WEATHERMAX	16	oz/a	91 a	75 b
	ROUNDUP WEATHERMAX	16	oz/a		93 a
					95 a
5	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
					86 a
6	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
					90 a
7	ROUNDUP WEATHERMAX	16	oz/a	93 a	85 a
	ROUNDUP WEATHERMAX	16	oz/a		95 a
	ROUNDUP WEATHERMAX	16	oz/a		95 a
					95 a
LSD (P=.05)		7.6		9.2	4.6
Standard Deviation		3.4		4.1	2.0
CV		3.68		5.1	2.18
Grand Mean		91.88		80.0	93.75
Bartlett's X2		1.308		0.0	0.0
P(Bartlett's X2)		0.253		.	.
Replicate F		1.727		1.000	1.000
Replicate Prob(F)		0.3323		0.5000	0.5000
Treatment F		0.273		12.000	3.000
Treatment Prob(F)		0.6376		0.0405	0.1817
					0.000
					1.0000
					0.000
					2.455
					0.2152

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

Pest Type					
Pest Code	SORHA	SEBEX	CASOB	IPOLA	IPOHG
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR
Rating Date	15/Aug/2005	15/Aug/2005	15/Aug/2005	15/Aug/2005	15/Aug/2005
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Days After Last Applic.	26	26	26	26	26
Trt-Eval Interval	4 WAA (5+6)	4 WAA (5+6)	4 WAA (5+6)	4 WAA (5+6)	4 WAA (5+6)
ARM Action Codes					
Number of Decimals					
Trt No.	Treatment Name	Rate	Unit		
		58		59	60
					61
					62
1	ROUNDUP WEATHERMAX	16	oz/a		
2	ROUNDUP WEATHERMAX	16	oz/a		
3	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
4	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
5	ROUNDUP WEATHERMAX	16	oz/a	95 a	65 a
	ROUNDUP WEATHERMAX	16	oz/a		91 a
					75 a
					94 a
6	ROUNDUP WEATHERMAX	16	oz/a	95 a	69 a
	ROUNDUP WEATHERMAX	16	oz/a		91 a
	ROUNDUP WEATHERMAX	16	oz/a		81 a
					94 a
7	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
	ROUNDUP WEATHERMAX	16	oz/a		
LSD (P=.05)		0.0		13.6	0.0
Standard Deviation		0.0		6.0	0.0
CV		0.0		9.03	0.0
Grand Mean		95.0		66.88	91.25
Bartlett's X2		0.0		1.023	0.0
P(Bartlett's X2)		.		0.312	0.001*
Replicate F		0.000		1.000	0.000
Replicate Prob(F)		1.0000		0.5000	1.0000
Treatment F		0.000		0.771	0.000
Treatment Prob(F)		1.0000		0.4444	1.0000

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

Pest Type						
Pest Code		AMARE				
Crop Code		GLXMA		GLXMA	GLXMA	
BBCH Scale		BSOY		BSOY	BSOY	
Crop Variety		DP5644RR				
Rating Date		15/Aug/2005	13/Oct/2005	13/Oct/2005	13/Oct/2005	
Rating Data Type		CONTROL	YIELD	MOISTURE	YIELD	
Rating Unit		%	LBS	%	BU/A	
Days After Last Applic.		26	85	85	85	
Trt-Eval Interval		4 WAA (5+6)	122 DA-A	122 DA-A	122 DA-A	
ARM Action Codes					TY1	
Number of Decimals					1	
Trt Treatment						
No. Name	Rate Unit	63	64	65	66	67
1 ROUNDUP WEATHERMAX	16 oz/a			1 a	5 a	4.2 a
2 ROUNDUP WEATHERMAX	16 oz/a			1 a	3 a	3.2 a
3 ROUNDUP WEATHERMAX	16 oz/a			1 a	4 a	5.0 a
4 ROUNDUP WEATHERMAX	16 oz/a			1 a	5 a	5.2 a
5 ROUNDUP WEATHERMAX	16 oz/a	95 a		1 a	5 a	5.4 a
6 ROUNDUP WEATHERMAX	16 oz/a	95 a		1 a	6 a	6.9 a
7 ROUNDUP WEATHERMAX	16 oz/a			1 a	4 a	5.0 a
LSD (P=.05)		0.0	.	1.0	4.0	4.41
Standard Deviation		0.0	.	0.7	2.7	2.97
CV		0.0	.	63.32	59.66	59.46
Grand Mean		95.0	.	1.06	4.51	4.99
Bartlett's X2		0.0	.	6.024	12.502	5.418
P(Bartlett's X2)		.	.	0.42	0.052	0.491
Replicate F		0.000		4.220	2.359	4.405
Replicate Prob(F)		1.0000		0.0200	0.1057	0.0172
Treatment F		0.000		0.550	0.512	0.593
Treatment Prob(F)		1.0000		0.7636	0.7916	0.7317

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.

Column 67: TY1 = 4.353823*[65]*(100-[66])/87