

LSU Northeast Research Station

Influence of Soil-Applied Herbicide on Timing of Glyphosate Application

Trial ID: 05SB04JG

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
Application Date:	26/May/2005	10/Jun/2005	11/Jul/2005
Time of Day:	6:15 PM	6:15 PM	3:00 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS	POSPOS
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	DKM	DKM	MSM
Air Temperature, Unit:	88 F	89 F	91 F
% Relative Humidity:	44	56	65
Wind Velocity, Unit:	1	3.7	0.7
Dew Presence (Y/N):			
Water Hardness:			
Soil Temperature, Unit:	93 F	93 F	84 F
Soil Moisture:	MOIST	DRY	MOIST
% Cloud Cover:	0	20	80

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	3 "
Height Minimum, Maximum:		3 4	2 4
Density, Unit:			
Coverage, Unit:			
Pest 2 Code, Disc., Scale:	SORHA W	SORHA W	SORHA W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	3 "
Height Minimum, Maximum:		3 4	2 4
Density, Unit:			
Coverage, Unit:			
Pest 3 Code, Disc., Scale:	IPOLA W	IPOLA W	IPOLA W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	3 "
Height Minimum, Maximum:		3 4	2 4

LSU Northeast Research Station

Density, Unit:			
Coverage, Unit:			
Pest 4 Code, Disc., Scale:	IPOHG W	IPOHG W	IPOHG W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	3 "
Height Minimum, Maximum:		3 4	2 4
Density, Unit:			
Coverage, Unit:			
Pest 5 Code, Disc., Scale:	CASOB W	CASOB W	CASOB W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	3 "
Height Minimum, Maximum:		3 4	2 4
Density, Unit:			
Coverage, Unit:			
Pest 6 Code, Disc., Scale:	SEBEX W	SEBEX W	SEBEX W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	3 "
Height Minimum, Maximum:		3 4	2 4
Density, Unit:			
Coverage, Unit:			
Pest 7 Code, Disc., Scale:	AMARE W	AMARE W	AMARE W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	3 "
Height Minimum, Maximum:		3 4	2 4
Density, Unit:			
Coverage, Unit:			
Pest 8 Code, Disc., Scale:	CYPES W	CYPES W	CYPES W
Stage Majority, Percent:			
Stage Minimum, Percent:			
Stage Maximum, Percent:			
Diameter, Unit:			
Height, Unit:		3 IN	3 "
Height Minimum, Maximum:		3 4	2 4
Density, Unit:			
Coverage, Unit:			

LSU Northeast Research Station

Application Equipment

	A	B	C
Appl. Equipment:	CO2 BCPCK	CO2 BCPCK	CO2 BCPCK
Operating Pressure:	35	32	32
Pressure Unit:	PSI	PSI	PSI
Nozzle Type:	AI	AI	AI
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	2	2	2
Band Width, Unit:			
Boom Length, Unit:			
Boom Height, Unit:			
Ground Speed, Unit:	3.2 MPH	3.2 MPH	3.2 MPH
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	WATER	WATER	WATER
Spray Volume:	15	15	15
Volume Unit:	GPA	GPA	GPA
Spray pH:			
Propellant:			
Tank Mix (Y/N):			

Equipment Comment:

LSU Northeast Research Station

Influence of Soil-Applied Herbicide on Timing of Glyphosate Application

Trial ID: 05SB04JG

Study Director:

Location: Ben Hur Research Farm

Investigator: Donnie Miller

Pest Type	W Weed	IPOLA	IPOHG	SEBEX	CASOB				
Pest Code	ECHCG	IPOLA	IPOHG	SEBEX	CASOB				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY				
Crop Variety	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR				
Rating Date	10/Jun/2005	10/Jun/2005	10/Jun/2005	10/Jun/2005	10/Jun/2005				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	%	%	%	%	%				
Days After Last Applic.	0	0	0	0	0				
Trt-Eval Interval	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A	14 DAT-A				
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	
1	Valor	1.0	oz/a	85 b	76 b	95 a	95 a	91 a	
	ROUNDUP WEATHERMAX	22	oz/a						
2	Valor	1.5	oz/a	90 a	85 ab	95 a	95 a	90 a	
	ROUNDUP WEATHERMAX	22	oz/a						
3	Valor	2.0	oz/a	89 a	88 a	95 a	95 a	88 a	
	ROUNDUP WEATHERMAX	22	oz/a						
4	Valor	2.5	oz/a	90 a	93 a	95 a	95 a	91 a	
	ROUNDUP WEATHERMAX	22	oz/a						
5	Valor	3.0	oz/a	90 a	91 a	95 a	95 a	94 a	
	ROUNDUP WEATHERMAX	22	oz/a						
6	ROUNDUP WEATHERMAX	16	oz/a						
7	ROUNDUP WEATHERMAX	22	oz/a						
8	ROUNDUP WEATHERMAX	16	oz/a						
	ROUNDUP WEATHERMAX	16	oz/a						
9	ROUNDUP WEATHERMAX	22	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
10	Nontreated								
LSD (P=.05)		3.0		8.8		0.0		0.0	5.8
Standard Deviation		1.9		5.7		0.0		0.0	3.7
CV		2.18		6.61		0.0		0.0	4.12
Grand Mean		88.75		86.5		95.0		95.0	90.75
Bartlett's X2		1.068		8.251		0.0		0.0	1.858
P(Bartlett's X2)		0.899		0.083		.		.	0.762
Replicate F		59.889		1.478		0.000		0.000	3.910
Replicate Prob(F)		0.0001		0.2702		1.0000		1.0000	0.0368
Treatment F		5.000		5.102		0.000		0.000	1.478
Treatment Prob(F)		0.0132		0.0123		1.0000		1.0000	0.2696

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	AMARE	SORHA	ECHCG	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	10/Jun/2005	24/Jun/2005	24/Jun/2005	24/Jun/2005	24/Jun/2005
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Days After Last Applic.	0	14	14	14	14
Trt-Eval Interval	14 DAT-A	2 WAA-B	2 WAA-B	2 WAA-B	2 WAA-B
ARM Action Codes					
Number of Decimals					
Trt Treatment	Rate				
No. Name	Rate Unit	6	7	8	9
1 Valor	1.0 oz/a	95 a	95 a	94 a	90 abc
ROUNDUP WEATHERMAX	22 oz/a				
2 Valor	1.5 oz/a	95 a	95 a	94 a	94 ab
ROUNDUP WEATHERMAX	22 oz/a				
3 Valor	2.0 oz/a	95 a	94 a	95 a	94 ab
ROUNDUP WEATHERMAX	22 oz/a				
4 Valor	2.5 oz/a	95 a	93 a	86 a	91 ab
ROUNDUP WEATHERMAX	22 oz/a				
5 Valor	3.0 oz/a	95 a	93 a	94 a	95 a
ROUNDUP WEATHERMAX	22 oz/a				
6 ROUNDUP WEATHERMAX	16 oz/a		95 a	93 a	76 bc
7 ROUNDUP WEATHERMAX	22 oz/a		94 a	79 a	74 c
8 ROUNDUP WEATHERMAX	16 oz/a		93 a	93 a	76 bc
ROUNDUP WEATHERMAX	16 oz/a				88 c
9 ROUNDUP WEATHERMAX	22 oz/a		95 a	88 a	78 bc
ROUNDUP WEATHERMAX	22 oz/a				93 ab
10 Nontreated			0 b	0 b	0 d
LSD (P=.05)		0.0	3.5	10.5	11.5
Standard Deviation		0.0	2.4	7.3	7.9
CV		0.0	2.86	8.92	10.32
Grand Mean		95.0	84.5	81.38	76.75
Bartlett's X2		0.0	2.246	26.03	23.662
P(Bartlett's X2)		.	0.691	0.001*	0.001*
Replicate F		0.000	0.286	2.512	1.288
Replicate Prob(F)		1.0000	0.8353	0.0798	0.2987
Treatment F		0.000	605.286	63.994	50.956
Treatment Prob(F)		1.0000	0.0001	0.0001	0.0001

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		SEBEX	CASOB	AMARE	W Weed	SORHA	IPOLA		
Pest Code		GLXMA	GLXMA	GLXMA	ECHCG	GLXMA	GLXMA		
Crop Code		BSOY	BSOY	BSOY	GLXMA	GLXMA	GLXMA		
BBCH Scale		DP5644RR	DP5644RR	DP5644RR	BSOY	BSOY	BSOY		
Crop Variety		DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR	DP5644RR		
Rating Date		24/Jun/2005	24/Jun/2005	24/Jun/2005	8/Jul/2005	8/Jul/2005	8/Jul/2005		
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit		%	%	%	%	%	%		
Days After Last Applic.		14	14	14	28	28	28		
Trt-Eval Interval		2 WAA-B	2 WAA-B	2 WAA-B	4 WAA-B	4 WAA-B	4 WAA-B		
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Unit	11	12	13	14	15	16
1	Valor	1.0	oz/a	91 a	95 a	95 a	89 a	94 a	83 a
	ROUNDUP WEATHERMAX	22	oz/a						
2	Valor	1.5	oz/a	94 a	93 a	95 a	89 a	90 a	85 a
	ROUNDUP WEATHERMAX	22	oz/a						
3	Valor	2.0	oz/a	95 a	94 a	95 a	85 a	95 a	88 a
	ROUNDUP WEATHERMAX	22	oz/a						
4	Valor	2.5	oz/a	95 a	91 a	95 a	85 a	86 a	85 a
	ROUNDUP WEATHERMAX	22	oz/a						
5	Valor	3.0	oz/a	95 a	95 a	95 a	86 a	90 a	86 a
	ROUNDUP WEATHERMAX	22	oz/a						
6	ROUNDUP WEATHERMAX	16	oz/a	68 b	95 a	95 a	85 a	95 a	75 ab
7	ROUNDUP WEATHERMAX	22	oz/a	65 b	90 a	95 a	75 a	91 a	60 b
8	ROUNDUP WEATHERMAX	16	oz/a	79 a	95 a	95 a	84 a	95 a	75 ab
	ROUNDUP WEATHERMAX	16	oz/a						
9	ROUNDUP WEATHERMAX	22	oz/a	61 b	88 a	95 a	84 a	94 a	71 ab
	ROUNDUP WEATHERMAX	22	oz/a						
10	Nontreated			0 c	0 b	0 b	0 b	0 b	0 c
LSD (P=.05)				11.0	8.6	0.0	12.0	7.9	15.2
Standard Deviation				7.6	5.9	0.0	8.3	5.5	10.5
CV				10.23	7.08	0.0	10.91	6.6	14.84
Grand Mean				74.25	83.5	85.5	76.13	83.0	70.75
Bartlett's X2				18.434	9.752	0.0	9.426	7.893	25.148
P(Bartlett's X2)				0.002*	0.045*	.	0.223	0.162	0.001*
Replicate F				1.690	0.430	0.000	4.746	0.722	1.248
Replicate Prob(F)				0.1926	0.7334	1.0000	0.0087	0.5475	0.3119
Treatment F				60.053	99.382	0.000	42.345	114.500	25.099
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

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	CASOB	SEBEX	AMARE	CYPES		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	8/Jul/2005	8/Jul/2005	8/Jul/2005	8/Jul/2005	8/Jul/2005		25/Jul/2005		
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		CONTROL		
Rating Unit	%	%	%	%	%		%		
Days After Last Applic.	28	28	28	28	28		14		
Trt-Eval Interval	4 WAA-B	4 WAA-B	4 WAA-B	4 WAA-B	4 WAA-B		2 WAA-C		
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Unit	17	18	19	20	21	22
1	Valor	1.0	oz/a	95 a	93 a	90 a	95 a	88 a	
	ROUNDUP WEATHERMAX	22	oz/a						
2	Valor	1.5	oz/a	95 a	90 a	94 a	95 a	94 a	
	ROUNDUP WEATHERMAX	22	oz/a						
3	Valor	2.0	oz/a	95 a	90 a	95 a	95 a	91 a	
	ROUNDUP WEATHERMAX	22	oz/a						
4	Valor	2.5	oz/a	95 a	90 a	94 a	95 a	91 a	
	ROUNDUP WEATHERMAX	22	oz/a						
5	Valor	3.0	oz/a	95 a	93 a	94 a	95 a	89 a	
	ROUNDUP WEATHERMAX	22	oz/a						
6	ROUNDUP WEATHERMAX	16	oz/a	91 a	93 a	65 bc	95 a	93 a	
7	ROUNDUP WEATHERMAX	22	oz/a	88 a	89 a	58 c	93 a	93 a	
8	ROUNDUP WEATHERMAX	16	oz/a	94 a	94 a	74 b	95 a	91 a	88 a
	ROUNDUP WEATHERMAX	16	oz/a						
9	ROUNDUP WEATHERMAX	22	oz/a	90 a	89 a	54 c	95 a	94 a	91 a
	ROUNDUP WEATHERMAX	22	oz/a						
10	Nontreated			0 b	0 b	0 d	0 b	0 b	
LSD (P=.05)				4.8	8.7	11.5	2.3	6.7	4.0
Standard Deviation				3.3	6.0	7.9	1.6	4.6	1.8
CV				3.91	7.34	11.02	1.85	5.59	1.98
Grand Mean				83.75	81.88	71.63	85.25	82.25	89.38
Bartlett's X2				4.988	6.602	20.02	0.0	6.269	0.006
P(Bartlett's X2)				0.173	0.58	0.006*	.	0.617	0.94
Replicate F				0.698	2.835	3.676	1.000	1.066	14.333
Replicate Prob(F)				0.5613	0.0569	0.0243	0.4079	0.3800	0.0277
Treatment F				325.086	92.069	57.437	1436.556	159.000	9.000
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0577

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	AMARE			
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	25/Jul/2005	25/Jul/2005	25/Jul/2005	25/Jul/2005	25/Jul/2005	25/Jul/2005			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Days After Last Applic.	14	14	14	14	14	14			
Trt-Eval Interval	2 WAA-C	2 WAA-C	2 WAA-C	2 WAA-C	2 WAA-C	2 WAA-C			
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Unit	23	24	25	26	27	28
1	Valor	1.0	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
2	Valor	1.5	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
3	Valor	2.0	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
4	Valor	2.5	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
5	Valor	3.0	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
6	ROUNDUP WEATHERMAX	16	oz/a						
7	ROUNDUP WEATHERMAX	22	oz/a						
8	ROUNDUP WEATHERMAX	16	oz/a	95 a	84 a	93 a	89 a	94 a	95 a
	ROUNDUP WEATHERMAX	16	oz/a						
9	ROUNDUP WEATHERMAX	22	oz/a	95 a	79 a	93 a	84 a	93 a	95 a
	ROUNDUP WEATHERMAX	22	oz/a						
10	Nontreated								
LSD (P=.05)		0.0		21.5	11.3	26.8	10.0	0.0	
Standard Deviation		0.0		9.6	5.0	11.9	4.4	0.0	
CV		0.0		11.78	5.41	13.8	4.78	0.0	
Grand Mean		95.0		81.25	92.5	86.25	93.13	95.0	
Bartlett's X2		0.0		0.479	0.849	7.01	1.317	0.0	
P(Bartlett's X2)		.		0.489	0.357	0.008*	0.251	.	
Replicate F		0.000		0.409	0.333	0.853	0.579	0.000	
Replicate Prob(F)		1.0000		0.7589	0.8045	0.5505	0.6677	1.0000	
Treatment F		0.000		0.545	0.000	0.353	0.158	0.000	
Treatment Prob(F)		1.0000		0.5137	1.0000	0.5943	0.7177	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	CYPES	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	25/Jul/2005	8/Aug/2005	8/Aug/2005	8/Aug/2005	8/Aug/2005	8/Aug/2005			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Days After Last Applic.	14	28	28	28	28	28			
Trt-Eval Interval	2 WAA-C	4 WAA-C	4 WAA-C	4 WAA-C	4 WAA-C	4 WAA-C			
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Unit	29	30	31	32	33	34
1	Valor	1.0	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
2	Valor	1.5	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
3	Valor	2.0	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
4	Valor	2.5	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
5	Valor	3.0	oz/a						
	ROUNDUP WEATHERMAX	22	oz/a						
6	ROUNDUP WEATHERMAX	16	oz/a						
7	ROUNDUP WEATHERMAX	22	oz/a						
8	ROUNDUP WEATHERMAX	16	oz/a	95 a	91 a	95 a	94 a	95 a	89 a
	ROUNDUP WEATHERMAX	16	oz/a						
9	ROUNDUP WEATHERMAX	22	oz/a	95 a	91 a	95 a	84 a	91 a	85 a
	ROUNDUP WEATHERMAX	22	oz/a						
10	Nontreated								
LSD (P=.05)		0.0		13.0	0.0	26.8	11.9	19.9	
Standard Deviation		0.0		5.8	0.0	11.9	5.3	8.8	
CV		0.0		6.33	0.0	13.41	5.69	10.17	
Grand Mean		95.0		91.25	95.0	88.75	93.13	86.88	
Bartlett's X2		0.0		0.576	0.0	7.01	0.0	0.804	
P(Bartlett's X2)		.		0.448	.	0.008*	.	0.37	
Replicate F		0.000		1.375	0.000	0.853	1.000	0.147	
Replicate Prob(F)		1.0000		0.3999	1.0000	0.5505	0.5000	0.9254	
Treatment F		0.000		0.000	0.000	1.412	1.000	0.360	
Treatment Prob(F)		1.0000		1.0000	1.0000	0.3203	0.3910	0.5908	

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	IPOHG	AMARE					
Crop Code	GLXMA	GLXMA		GLXMA	GLXMA	GLXMA	
BBCH Scale	BSOY	BSOY		BSOY	BSOY	BSOY	
Crop Variety	DP5644RR	DP5644RR					
Rating Date	8/Aug/2005	8/Aug/2005		13/Oct/2005	13/Oct/2005	13/Oct/2005	
Rating Data Type	CONTROL	CONTROL		YIELD	MOISTURE	YIELD	
Rating Unit	%	%		LBS	%	BU/A	
Days After Last Applic.	28	28		94	94	94	
Trt-Eval Interval	4 WAA-C	4 WAA-C		140 DA-A	140 DA-A	140 DA-A	
ARM Action Codes						TY1	
Number of Decimals						1	
Trt Treatment	Rate						
No. Name	Rate Unit	35	36	37	38	39	40
1 Valor	1.0 oz/a				4 a	13 a	17.7 a
ROUNDUP WEATHERMAX	22 oz/a						
2 Valor	1.5 oz/a				4 a	12 a	19.3 a
ROUNDUP WEATHERMAX	22 oz/a						
3 Valor	2.0 oz/a				5 a	12 ab	22.5 a
ROUNDUP WEATHERMAX	22 oz/a						
4 Valor	2.5 oz/a				4 a	12 a	17.1 a
ROUNDUP WEATHERMAX	22 oz/a						
5 Valor	3.0 oz/a				5 a	13 a	19.8 a
ROUNDUP WEATHERMAX	22 oz/a						
6 ROUNDUP WEATHERMAX	16 oz/a				4 a	10 ab	17.0 a
7 ROUNDUP WEATHERMAX	22 oz/a				3 ab	7 ab	10.9 ab
8 ROUNDUP WEATHERMAX	16 oz/a	91 a	95 a		5 a	12 ab	20.2 a
ROUNDUP WEATHERMAX	16 oz/a						
9 ROUNDUP WEATHERMAX	22 oz/a	93 a	95 a		4 a	9 ab	15.8 a
ROUNDUP WEATHERMAX	22 oz/a						
10 Nontreated					1 b	6 b	5.1 b
LSD (P=.05)		4.0	0.0	.	1.7	4.0	7.26
Standard Deviation		1.8	0.0	.	1.2	2.7	5.00
CV		1.92	0.0	.	31.21	25.94	30.19
Grand Mean		91.88	95.0	.	3.77	10.5	16.55
Bartlett's X2		0.061	0.0	.	8.244	24.214	7.823
P(Bartlett's X2)		0.805	.	.	0.51	0.004*	0.552
Replicate F		3.667	0.000		23.952	6.883	23.877
Replicate Prob(F)		0.1571	1.0000		0.0001	0.0015	0.0001
Treatment F		1.000	0.000		3.997	3.085	4.121
Treatment Prob(F)		0.3910	1.0000		0.0026	0.0118	0.0022

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 40: TY1 = 4.353823*[38]*(100-@MVAVGREP([39]))/87