

MSU Weed Science Research Program

Residual Weed Control in Conventional Tillage Glyphosate-Resistant Soybean

Trial ID: SOY10-07
 Conducted: C-16W

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Date Planted: 5/8/07	Row Spacing: 30 IN
Variety: Pioneer 91M91	No. of Reps: 4
Population: 155,000 seeds/acre	% OM: 2.5
Soil Type: Sandy Clay Loam	pH: 6.5
Plot Size: 10 X 30 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel Plow, Spring Soil X2

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
2.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
3.	CHEAL	COMMON LAMBSQUARTERS	CHENOPODIUM ALBUM L.
4.	ANGR	mainly foxtail species	SETARIA SP.
5.	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL
6.	BRAKA	MUSTARD, WILD	BRASSICA KABER
7.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	5/8/07	6/18/07
Time Treated:	7:56 pm	11:00 am
% Cloud Cover:	60	60
Air Temp., Unit:	81 F	84 F
% Relative Humidity:	36	40
Wind Speed/Unit/Dir:	1 mph W	5 mph SW
Soil Temp., Unit:	75 F	80 F
Soil/Leaf Surface M:	5 5	5 5
Soil Moist (1=w 5=d):	5	5

Crop Stage at Each Application

	A	B
Crop Name:	GLXMA	GLXMA
Height (In.):	-	7-9"
Stage (L):	-	V4-V5

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Weed Stage at Each Application

	A	B
Weed 1 Name:	AMBEL	AMBEL
Height (In.):	-	1-6"
Stage (L):	-	6-many
Weed 2 Name:	ABUTH	ABUTH
Height (In.):	-	1-3.5"
Stage (L):	-	2-6
Weed 3 Name:	CHEAL	CHEAL
Height (In.):	-	1-3"
Stage (L):	-	8-many
Weed 4 Name:	ANGR	ANGR
Height (In.):	-	1-6"
Stage (L):	-	2-5
Weed 5 Name:	SOLPT	SOLPT
Height (In.):	-	1/2-1.5"
Stage (L):	-	4-8
Weed 6 Name:	BRAKA	BRAKA
Height (In.):	-	12-20"
Stage (L):	-	flowering
Weed 7 Name:	AMAPO	AMAPO
Height (In.):	-	-
Stage (L):	-	-

Weed Density (plants/sq. ft.)

	1	2	3	4	5	6
Date:	7/9/07	7/9/07	7/9/07	7/9/07	7/9/07	7/9/07
Weed Name:	CHEAL	ABUTH	ANGR	AMAPO	AMBEL	BRAKA
Density:	1	1	45	2	9	< 1
	7					
Date:	7/9/07					
Weed Name:	SOLPT					
Density:	< 1					

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom				
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	Cub	3.8	AirMix	11003	23"	20"	100"	19	Water	27	
B	Cub	3.8	AirMix	11003	27"	20"	100"	19	Water	27	

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Weed Code								ANGR	AMBEL	ABUTH	AMAPO		
Crop Code								GLXMA	GLXMA	GLXMA			
Rating Data Type								injury	injury	injury	control		
Rating Unit								percent	percent	percent	percent		
Rating Date								6/1/07	6/8/07	6/18/07	6/18/07		
Trt-Eval Interval								24 DA-A	31 DA-A	41 DA-A	41 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code						
1	QER54 (2.5 oz/A)					PRE	A	7	15	8	84	87	99
1	Classic	25	WG	0.92	oz/a	PRE	A						
1	Harmony GT	50	SG	0.15	oz/a	PRE	A						
1	Valor	51	WG	1.4	oz/a	PRE	A						
1	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
1	AMS		WG	17	lb/100 gal	POST	B						
2	QER54 (3.5 oz/A)					PRE	A	7	20	16	96	94	99
2	Classic	25	WG	1.28	oz/a	PRE	A						
2	Harmony GT	50	SG	0.2	oz/a	PRE	A						
2	Valor	51	WG	2.0	oz/a	PRE	A						
2	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
2	AMS		WG	17	lb/100 gal	POST	B						
3	QER54 (4.5 oz/A)					PRE	A	9	16	16	93	94	99
3	Classic	25	WG	1.68	oz/a	PRE	A						
3	Harmony GT	50	SG	0.27	oz/a	PRE	A						
3	Valor	51	WG	2.2	oz/a	PRE	A						
3	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
3	AMS		WG	17	lb/100 gal	POST	B						
4	Prefix (2 pt/A)					PRE	A	4	3	3	96	96	45
4	Dual Magnum	7.62	EC	1	pt/a	PRE	A						
4	Reflex	2	L	1	pt/a	PRE	A						
4	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
4	AMS		WG	17	lb/100 gal	POST	B						
5	Canopy	75	WG	2.25	oz/a	PRE	A	2	6	8	71	75	98
5	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
5	AMS		WG	17	lb/100 gal	POST	B						
6	Canopy	75	WG	3	oz/a	PRE	A	3	6	8	71	25	98
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
6	AMS		WG	17	lb/100 gal	POST	B						
7	Canopy	75	WG	4	oz/a	PRE	A	3	9	9	66	61	99
7	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
7	AMS		WG	17	lb/100 gal	POST	B						
8	Untreated							0	0	0	0	0	0
9	Canopy	75	WG	2.25	oz/a	PRE	A	6	15	8	80	91	99
9	Valor	51	WG	1.4	oz/a	PRE	A						
9	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
9	AMS		WG	17	lb/100 gal	POST	B						
10	Classic	25	WG	0.92	oz/a	PRE	A	1	15	6	78	89	99
10	Valor	51	WG	1.4	oz/a	PRE	A						
10	Linex	4	L	0.75	pt/a	PRE	A						
10	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
10	AMS		WG	17	lb/100 gal	POST	B						
11	Authority First	70	DF	3.2	oz/a	PRE	A	4	13	1	55	51	99
11	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
11	AMS		WG	17	lb/100 gal	POST	B						
12	Authority MTZ (F6482)	45	DF	10	oz/a	PRE	A	0	5	1	65	20	95
12	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B						
12	AMS		WG	17	lb/100 gal	POST	B						

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Weed Code											ANGR	AMBEL	ABUTH	AMAPO
Crop Code											GLXMA	GLXMA	GLXMA	
Rating Data Type											injury	injury	injury	control
Rating Unit											percent	percent	percent	percent
Rating Date											6/1/07	6/8/07	6/18/07	6/18/07
Trt-Eval Interval											24 DA-A	31 DA-A	41 DA-A	41 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code								
13	Authority + Pursuit F7119	4	SC	4.8	fl oz/a	PRE	A	2	4	0	75	33	99	99	
13	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B								
13	AMS		WG	17	lb/100 gal	POST	B								
14	Valor	51	WG	2	oz/a	PRE	A	1	10	1	69	80	89	94	
14	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B								
14	AMS		WG	17	lb/100 gal	POST	B								
15	IntRRo	4	EC	2	qt/a	PRE	A	0	7	0	94	23	15	94	
15	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B								
15	AMS		WG	17	lb/100 gal	POST	B								
16	Prowl H2O	3.8	SC	2	pt/a	PRE	A	5	4	0	89	0	79	95	
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B								
16	AMS		WG	17	lb/100 gal	POST	B								
17	Valor XLT	40.3	WG	3	oz/a	PRE	A	10	17	13	84	88	99	99	
17	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B								
17	AMS		WG	17	lb/100 gal	POST	B								
18	KIH-485	85	WG	2	oz/a	PRE	A	8	8	3	89	45	86	99	
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B								
18	AMS		WG	17	lb/100 gal	POST	B								
19	Boundary	6.5	EC	1.5	pt/a	PRE	A	2	3	1	96	64	71	94	
19	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B								
19	AMS		WG	17	lb/100 gal	POST	B								
20	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B	0	0	0	0	0	0	0	
20	AMS		WG	17	lb/100 gal	POST	B								
LSD (P=.05)								3.7	7.5	5.9	9.6	12.1	9.8	3.9	
Standard Deviation								2.6	5.3	4.2	6.8	8.5	6.9	2.8	
CV								74.27	61.09	83.35	9.35	15.3	8.81	3.16	

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Weed Code								BRAKA	ANGR	AMBEL	AMAPO	ABUTH	SOLPT	CHEAL
Crop Code														
Rating Data Type								control	control	control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent	percent	percent
Rating Date								6/18/07	7/16/07	7/16/07	7/16/07	7/16/07	7/16/07	7/16/07
Trt-Eval Interval								41 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
1	QER54 (2.5 oz/A)					PRE	A	99	84	99	99	98	99	99
1	Classic	25	WG	0.92	oz/a	PRE	A							
1	Harmony GT	50	SG	0.15	oz/a	PRE	A							
1	Valor	51	WG	1.4	oz/a	PRE	A							
1	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
1	AMS		WG	17	lb/100 gal	POST	B							
2	QER54 (3.5 oz/A)					PRE	A	99	87	99	99	99	99	99
2	Classic	25	WG	1.28	oz/a	PRE	A							
2	Harmony GT	50	SG	0.2	oz/a	PRE	A							
2	Valor	51	WG	2.0	oz/a	PRE	A							
2	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
2	AMS		WG	17	lb/100 gal	POST	B							
3	QER54 (4.5 oz/A)					PRE	A	99	87	99	99	99	99	99
3	Classic	25	WG	1.68	oz/a	PRE	A							
3	Harmony GT	50	SG	0.27	oz/a	PRE	A							
3	Valor	51	WG	2.2	oz/a	PRE	A							
3	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
3	AMS		WG	17	lb/100 gal	POST	B							
4	Prefix (2 pt/A)					PRE	A	99	97	99	99	92	99	88
4	Dual Magnum	7.62	EC	1	pt/a	PRE	A							
4	Reflex	2	L	1	pt/a	PRE	A							
4	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
4	AMS		WG	17	lb/100 gal	POST	B							
5	Canopy	75	WG	2.25	oz/a	PRE	A	99	86	99	99	97	99	99
5	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
5	AMS		WG	17	lb/100 gal	POST	B							
6	Canopy	75	WG	3	oz/a	PRE	A	99	88	98	99	98	98	98
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
6	AMS		WG	17	lb/100 gal	POST	B							
7	Canopy	75	WG	4	oz/a	PRE	A	99	86	96	99	98	98	99
7	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
7	AMS		WG	17	lb/100 gal	POST	B							
8	Untreated							0	0	0	0	0	0	0
9	Canopy	75	WG	2.25	oz/a	PRE	A	99	84	99	99	97	99	99
9	Valor	51	WG	1.4	oz/a	PRE	A							
9	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
9	AMS		WG	17	lb/100 gal	POST	B							
10	Classic	25	WG	0.92	oz/a	PRE	A	99	86	99	99	98	99	99
10	Valor	51	WG	1.4	oz/a	PRE	A							
10	Linex	4	L	0.75	pt/a	PRE	A							
10	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
10	AMS		WG	17	lb/100 gal	POST	B							
11	Authority First	70	DF	3.2	oz/a	PRE	A	99	89	90	98	98	99	99
11	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
11	AMS		WG	17	lb/100 gal	POST	B							
12	Authority MTZ (F6482)	45	DF	10	oz/a	PRE	A	99	85	98	97	97	99	99
12	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
12	AMS		WG	17	lb/100 gal	POST	B							

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Weed Code	BRAKA	ANGR	AMBEL	AMAPO	ABUTH	SOLPT	CHEAL
Crop Code							
Rating Data Type	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/18/07	7/16/07	7/16/07	7/16/07	7/16/07	7/16/07	7/16/07
Trt-Eval Interval	41 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	BRAKA	ANGR	AMBEL	AMAPO	ABUTH	SOLPT	CHEAL
13	Authority + Pursuit F7119	4	SC	4.8	fl oz/a	PRE	A	98	85	96	99	99	99	98
13	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
13	AMS		WG	17	lb/100 gal	POST	B							
14	Valor	51	WG	2	oz/a	PRE	A	99	88	98	89	95	99	94
14	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
14	AMS		WG	17	lb/100 gal	POST	B							
15	IntRRo	4	EC	2	qt/a	PRE	A	90	79	97	91	88	99	78
15	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
15	AMS		WG	17	lb/100 gal	POST	B							
16	Prowl H2O	3.8	SC	2	pt/a	PRE	A	70	91	84	98	92	96	89
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
16	AMS		WG	17	lb/100 gal	POST	B							
17	Valor XLT	40.3	WG	3	oz/a	PRE	A	99	82	99	99	99	99	99
17	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
17	AMS		WG	17	lb/100 gal	POST	B							
18	KIH-485	85	WG	2	oz/a	PRE	A	98	90	96	98	96	99	83
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
18	AMS		WG	17	lb/100 gal	POST	B							
19	Boundary	6.5	EC	1.5	pt/a	PRE	A	99	89	95	89	93	99	88
19	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B							
19	AMS		WG	17	lb/100 gal	POST	B							
20	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B	0	90	85	89	91	99	67
20	AMS		WG	17	lb/100 gal	POST	B							
LSD (P=.05)								5.2	4.4	4.4	4.9	4.9	1.9	5.7
Standard Deviation								3.7	3.1	3.1	3.5	3.5	1.4	4.0
CV								4.26	3.78	3.38	3.77	3.8	1.46	4.51

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Weed Code									
Crop Code								GLXMA	GLXMA
Rating Data Type								moisture	yield
Rating Unit								percent	bu/acre
Rating Date								9/30/07	9/30/07
Trt-Eval Interval								145 DA-A	at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	QER54 (2.5 oz/A)					PRE	A	11.4	43.8
1	Classic	25	WG	0.92	oz/a	PRE	A		
1	Harmony GT	50	SG	0.15	oz/a	PRE	A		
1	Valor	51	WG	1.4	oz/a	PRE	A		
1	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
1	AMS		WG	17	lb/100 gal	POST	B		
2	QER54 (3.5 oz/A)					PRE	A	11.7	32.7
2	Classic	25	WG	1.28	oz/a	PRE	A		
2	Harmony GT	50	SG	0.2	oz/a	PRE	A		
2	Valor	51	WG	2.0	oz/a	PRE	A		
2	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
2	AMS		WG	17	lb/100 gal	POST	B		
3	QER54 (4.5 oz/A)					PRE	A	11.4	34.6
3	Classic	25	WG	1.68	oz/a	PRE	A		
3	Harmony GT	50	SG	0.27	oz/a	PRE	A		
3	Valor	51	WG	2.2	oz/a	PRE	A		
3	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
3	AMS		WG	17	lb/100 gal	POST	B		
4	Prefix (2 pt/A)					PRE	A	11.5	37.3
4	Dual Magnum	7.62	EC	1	pt/a	PRE	A		
4	Reflex	2	L	1	pt/a	PRE	A		
4	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
4	AMS		WG	17	lb/100 gal	POST	B		
5	Canopy	75	WG	2.25	oz/a	PRE	A	11.5	37.0
5	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
5	AMS		WG	17	lb/100 gal	POST	B		
6	Canopy	75	WG	3	oz/a	PRE	A	11.3	39.5
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
6	AMS		WG	17	lb/100 gal	POST	B		
7	Canopy	75	WG	4	oz/a	PRE	A	11.2	44.3
7	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
7	AMS		WG	17	lb/100 gal	POST	B		
8	Untreated							11.7	6.9
9	Canopy	75	WG	2.25	oz/a	PRE	A	11.4	41.6
9	Valor	51	WG	1.4	oz/a	PRE	A		
9	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
9	AMS		WG	17	lb/100 gal	POST	B		
10	Classic	25	WG	0.92	oz/a	PRE	A	11.3	43.1
10	Valor	51	WG	1.4	oz/a	PRE	A		
10	Linex	4	L	0.75	pt/a	PRE	A		
10	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
10	AMS		WG	17	lb/100 gal	POST	B		
11	Authority First	70	DF	3.2	oz/a	PRE	A	11.4	43.4
11	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
11	AMS		WG	17	lb/100 gal	POST	B		
12	Authority MTZ (F6482)	45	DF	10	oz/a	PRE	A	11.4	36.9
12	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
12	AMS		WG	17	lb/100 gal	POST	B		

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Rating Data Type								moisture	yield
Rating Unit								percent	bu/acre
Rating Date								9/30/07	9/30/07
Trt-Eval Interval								145 DA-A	at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
13	Authority + Pursuit F7119	4	SC	4.8	fl oz/a	PRE	A	11.5	39.7
13	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
13	AMS		WG	17	lb/100 gal	POST	B		
14	Valor	51	WG	2	oz/a	PRE	A	11.2	43.6
14	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
14	AMS		WG	17	lb/100 gal	POST	B		
15	IntRRo	4	EC	2	qt/a	PRE	A	11.5	36.3
15	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
15	AMS		WG	17	lb/100 gal	POST	B		
16	Prowl H2O	3.8	SC	2	pt/a	PRE	A	11.4	32.2
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
16	AMS		WG	17	lb/100 gal	POST	B		
17	Valor XLT	40.3	WG	3	oz/a	PRE	A	11.3	40.5
17	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
17	AMS		WG	17	lb/100 gal	POST	B		
18	KIH-485	85	WG	2	oz/a	PRE	A	11.4	40.7
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
18	AMS		WG	17	lb/100 gal	POST	B		
19	Boundary	6.5	EC	1.5	pt/a	PRE	A	11.2	46.3
19	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B		
19	AMS		WG	17	lb/100 gal	POST	B		
20	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	B	11.4	32.9
20	AMS		WG	17	lb/100 gal	POST	B		
LSD (P=.05)								0.34	7.59
Standard Deviation								0.24	5.37
CV								2.14	14.26