

MSU Weed Science Research Program

Commercial Comparison in No-Till Soybean

Trial ID: NTS01-07
 Conducted: Campus C-13

Study Dir.: Sprague
 Investigator: Christy Sprague

Date Planted: 5/14/07 **Row Spacing:** 7.5 IN
Variety: Asgrow 2107 **No. of Reps:** 4
Population: 205,000 seeds/acre **% OM:** 3.1
Soil Type: Clay loam **pH:** 6.4
Plot Size: 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: No-Till into Standing Corn Stubble
Fertilizer: None At Planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	MELAL	COCKLE, WHITE	MELANDRIUM ALBUM (MILL.) GARCKE
2.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS
3.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.) VILL./CYR.
4.	ERIST	FLEABANE, ROUGH	ERIGERON STRIGOSUS MUHL.
5.	CHEAL	COMMON LAMBSQUARTERS	CHENOPODIUM ALBUM L.
6.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
7.	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL
8.	ANGR	Mostly foxtail and crabgrass sp.	SETARIA and DIGITARIA SPP.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B	C	D	E
Application Timing:	14D EPP	7D EPP	PRE	MPOST	POST
Date Treated:	4/30/07	5/7/07	5/14/07	6/13/07	6/18/07
Time Treated:	1:40 pm	9:30 am	9:15 pm	5:00 pm	11:30 am
% Cloud Cover:	0	30	50	5	50
Air Temp., Unit:	71 F	68 F	72 F	91 F	84 F
% Relative Humidity:	32	32	39	39	35
Wind Speed/Unit/Dir:	2 mph NE	8 mph SE	4 mph SW	4 mph N	5 mph SW
Soil Temp., Unit:	62 F	55 F	67 F	82 F	81 F
Soil/Leaf Surface M:		5 5	5 5	5 5	5 5
Soil Moist (1=w 5=d):		5	4	5	5

F

Application Timing:	LPOST
Date Treated:	7/2/07
Time Treated:	8:30 pm
% Cloud Cover:	75
Air Temp., Unit:	73 F
% Relative Humidity:	44
Wind Speed/Unit/Dir:	1 mph SW
Soil Temp., Unit:	77 F
Soil/Leaf Surface M:	5 5
Soil Moist (1=w 5=d):	5

Crop Stage at Each Application

	A	B	C	D	E
Crop Name:	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Height (In.):	-	-	-	6-8"	7-9"
Stage (L):	-	-	-	V2	V3-V4
F					
Crop Name:	GLXMA				
Height (In.):	9-12"				
Stage (L):	R1				

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Weed Stage at Each Application

	A	B	C	D	E
Weed 1 Name:	MELAL	MELAL	MELAL	MELAL	MELAL
Height (In.):	8"	8-20"	-	12-25"	-
Stage (L):	-	Many-Flwr	-	Flowering	-
Weed 2 Name:	TAROF	TAROF	TAROF	TAROF	TAROF
Height (In.):	12-14"dia	12-16"	-	8-16" dia	1-12" dia
Stage (L):	-	Flowering	-	Flower	2-6
Weed 3 Name:	STEME	STEME	STEME	STEME	STEME
Height (In.):	5-8"	4-8" tall	-	-	-
Stage (L):	-	flowering	-	-	-
Weed 4 Name:	ERIST	ERIST	ERIST	ERIST	ERIST
Height (In.):	12" dia	12" dia	-	12-20"	-
Stage (L):	-	many	-	flowering	-
Weed 5 Name:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):	-	1/2-1"	-	3-6"	2-5"
Stage (L):	-	2-4	-	many	many
Weed 6 Name:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Height (In.):	-	1/2-1.5"	-	2-4"	2-6"
Stage (L):	-	coty-4	-	many	many
Weed 7 Name:	SOLPT	SOLPT	SOLPT	SOLPT	SOLPT
Height (In.):	-	-	-	4-6"	2-6"
Stage (L):	-	-	-	many	many
Weed 8 Name:	ANGR	ANGR	ANGR	ANGR	ANGR
Height (In.):	-	-	-	2-8"	2-8"
Stage (L):	-	-	-	3-5	3-5

F

Weed 1 Name:	MELAL
Height (In.):	-
Stage (L):	-
Weed 2 Name:	TAROF
Height (In.):	4-13" dia
Stage (L):	3-many
Weed 3 Name:	STEME
Height (In.):	-
Stage (L):	-
Weed 4 Name:	ERIST
Height (In.):	-
Stage (L):	-
Weed 5 Name:	CHEAL
Height (In.):	-
Stage (L):	-
Weed 6 Name:	AMBEL
Height (In.):	-
Stage (L):	-
Weed 7 Name:	SOLPT
Height (In.):	-
Stage (L):	-
Weed 8 Name:	ANGR
Height (In.):	1/2-4"
Stage (L):	2-4

Weed Density (plants/sq. ft.)

	1	2	3	4	5	6
Date:	7/10/07	7/10/07	7/10/07	7/10/07	7/10/07	7/10/07
Weed Name:	CHEAL	ANGR	AMBEL	SOLPT	MELAL	TAROF
Density:	1	10	1	< 1	< 1	5

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	7	8
Date:	7/10/07	7/10/07
Weed Name:	STEME	ERIST
Density:	< 1	2

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	25"	20"	100"	19	Water	27
B	Cub	3.8	AirMix	11003	24"	20"	100"	19	Water	27
C	Cub	3.8	AirMix	11003	22"	20"	100"	19	Water	27
D	Cub	3.8	AirMix	11003	25"	20"	100"	19	Water	27
E	Cub	3.8	AirMix	11003	27"	20"	100"	19	Water	27
F	Cub	3.8	AirMix	11003	22"	20"	100"	19	Water	27

Comments: Throughout the entire study there was heavy winter annual, biennial, and perennial weed pressure. However, the individual species were not uniform throughout the study. Therefore, the no-till weed ratings were control ratings for individual plots on how the winter annual, biennial, and perennial weeds were controlled.

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Weed Code							NOTILL	ANGR	AMBEL	NOTILL	ANGR	AMBEL
Crop Code							WEEDS			WEEDS		
Rating Data Type							burndown	control	control	OVERALL	control	control
Rating Unit							percent	percent	percent	percent	percent	percent
Rating Date							6/25/07	6/25/07	6/25/07	8/9/07	8/9/07	8/9/07
Trt-Eval Interval							56 DA-A	56 DA-A	56 DA-A	101 DA-A	101 DA-A	101 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	QER54 (2.5 oz/A)							85	99	99	99	99
1	Classic	25	DF	0.92	oz/a	14 EPP	A					
1	Valor	51	DG	1.5	oz/a	14 EPP	A					
1	2,4-D Ester	4	L	1	pt/a	14 EPP	A					
1	Crop Oil Concentrate		L	1	% v/v	14 EPP	A					
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	MPOS	D					
1	AMS		WG	17	lb/100 gal	MPOS	D					
2	Canopy	75	DF	2.25	oz/a	14 EPP	A	76	99	99	89	99
2	2,4-D Ester	4	L	1	pt/a	14 EPP	A					
2	Crop Oil Concentrate		L	1	% v/v	14 EPP	A					
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	POST	E					
2	AMS		WG	17	lb/100 gal	POST	E					
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	14 EPP	A	92	99	99	99	99
3	2,4-D Ester	4	L	1	pt/a	14 EPP	A					
3	AMS		WG	17	lb/100 gal	14 EPP	A					
3	Roundup OriginalMax	4.5	SL	32	fl oz/a	MPOS	D					
3	AMS		WG	17	lb/100 gal	MPOS	D					
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	LPOS	F					
3	AMS		WG	17	lb/100 gal	LPOS	F					
4	Untreated							0	0	0	0	0
5	Boundary	6.5	EC	1.5	pt/a	7 EPP	B	64	99	99	88	98
5	Gramoxone Inteon	2	SL	2	pt/a	7 EPP	B					
5	2,4-D Ester	4	L	1	pt/a	7 EPP	B					
5	Crop Oil Concentrate		L	1	% v/v	7 EPP	B					
5	Touchdown Total	4.17	SL	24	fl oz/a	POST	E					
5	AMS		WG	17	lb/100 gal	POST	E					
6	Sencor	75	DF	8	oz/a	7 EPP	B	88	99	99	97	96
6	2,4-D Ester	4	L	1	pt/a	7 EPP	B					
6	Crop Oil Concentrate		L	1	qt/a	7 EPP	B					
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	D					
6	AMS		WG	17	lb/100 gal	MPOS	D					
7	Python	80	WG	0.8	oz/a	7 EPP	B	95	99	99	99	99
7	Durango	4	SL	24	fl oz/a	7 EPP	B					
7	2,4-D Ester	4	L	1	pt/a	7 EPP	B					
7	AMS		WG	1.5	% w/w	7 EPP	B					
7	Durango	4	SL	24	fl oz/a	POST	E					
7	AMS		WG	1.5	% w/w	POST	E					
8	Sequence	5.25	EW	3.5	pt/a	7 EPP	B	99	99	99	99	99
8	2,4-D Ester	4	L	1	pt/a	7 EPP	B					
8	AMS		WG	17	lb/100 gal	7 EPP	B					
8	Touchdown Total	4.17	SL	24	fl oz/a	POST	E					
8	AMS		WG	17	lb/100 gal	POST	E					
9	Sencor	75	DF	8	oz/a	7 EPP	B	75	99	99	99	99
9	Extreme	2.17	L	3	pt/a	7 EPP	B					
9	Activator 90		L	0.25	% v/v	7 EPP	B					
9	AMS		WG	17	lb/100 gal	7 EPP	B					
9	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	E					
9	AMS		WG	17	lb/100 gal	POST	E					

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								NOTILL	ANGR	AMBEL	NOTILL	ANGR	AMBEL
								WEEDS			WEEDS		
								burndown	control	control	OVERALL	control	control
								percent	percent	percent	percent	percent	percent
								6/25/07	6/25/07	6/25/07	8/9/07	8/9/07	8/9/07
								56 DA-A	56 DA-A	56 DA-A	101 DA-A	101 DA-A	101 DA-A
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Unit	Stg	Code							
10	Valor SX	51	DG	2 oz/a	7 EPP	B	75	99	99	95	97	99	
10	Roundup OriginalMax	4.5	SL	22 fl oz/a	7 EPP	B							
10	2,4-D Ester	4	L	1 pt/a	7 EPP	B							
10	AMS		WG	17 lb/100 gal	7 EPP	B							
10	Roundup OriginalMax (IFN)	4.5	SL	22 fl oz/a	POST	E							
10	AMS		WG	17 lb/100 gal	POST	E							
11	Extreme	2.17	L	3 pt/a	7 EPP	B	89	99	99	96	99	99	
11	2,4-D Ester	4	L	1 pt/a	7 EPP	B							
11	Activator 90		L	0.125 % v/v	7 EPP	B							
11	AMS		WG	8.5 lb/100 gal	7 EPP	B							
11	Buccaneer Plus	3	SL	32 fl oz/a	POST	E							
11	AMS		WG	8.5 lb/100 gal	POST	E							
12	BAS 756		L	3 pt/a	7 EPP	B	81	99	99	92	99	99	
12	2,4-D Ester	4	L	1 pt/a	7 EPP	B							
12	Activator 90		L	0.25 % v/v	7 EPP	B							
12	AMS		WG	8.5 lb/100 gal	7 EPP	B							
12	Buccaneer Plus	3	SL	32 fl oz/a	POST	E							
12	AMS		WG	8.5 lb/100 gal	POST	E							
13	Buccaneer Plus	3	SL	24 fl oz/a	7 EPP	B	87	99	99	92	99	98	
13	2,4-D Ester	4	L	1 pt/a	7 EPP	B							
13	AMS		WG	8.5 lb/100 gal	7 EPP	B							
13	Buccaneer Plus	3	SL	32 fl oz/a	POST	E							
13	AMS		WG	8.5 lb/100 gal	POST	E							
14	Valor XLT	40	WG	3 oz/a	PRE	C	63	99	99	92	97	99	
14	Roundup OriginalMax	4.5	SL	22 fl oz/a	PRE	C							
14	AMS		WG	17 lb/100 gal	PRE	C							
14	Roundup OriginalMax (IFN)	4.5	SL	22 fl oz/a	POST	E							
14	AMS		WG	17 lb/100 gal	POST	E							
15	Valor	51	DG	2 oz/a	PRE	C	60	99	99	93	99	99	
15	Roundup OriginalMax	4.5	SL	22 fl oz/a	PRE	C							
15	AMS		WG	17 lb/100 gal	PRE	C							
15	Roundup OriginalMax	4.5	SL	22 fl oz/a	MPOS	D							
15	AMS		WG	17 lb/100 gal	MPOS	D							
15	Roundup OriginalMax	4.5	SL	22 fl oz/a	LPOS	F							
15	AMS		WG	17 lb/100 gal	LPOS	F							
16	IntRRo	4	EC	1.5 qt/a	PRE	C	35	99	99	61	99	99	
16	Roundup OriginalMax	4.5	SL	22 fl oz/a	PRE	C							
16	AMS		WG	17 lb/100 gal	PRE	C							
16	Roundup OriginalMax	4.5	SL	22 fl oz/a	POST	E							
16	AMS		WG	17 lb/100 gal	POST	E							
17	Sencor	75	DF	6.4 oz/a	PRE	C	45	99	99	40	92	90	
17	Linex	4	L	1.25 pt/a	PRE	C							
17	Define	4	SC	1 pt/a	PRE	C							
17	Roundup WeatherMax	4.5	SL	22 fl oz/a	PRE	C							
17	AMS		WG	17 lb/100 gal	PRE	C							
18	Roundup OriginalMax	4.5	SL	22 fl oz/a	PRE	C	66	99	99	98	99	99	
18	AMS		WG	17 lb/100 gal	PRE	C							
18	Roundup WeatherMax	4.5	SL	22 fl oz/a	MPOS	D							
18	AMS		WG	17 lb/100 gal	MPOS	D							
18	Roundup WeatherMax	4.5	SL	22 fl oz/a	LPOS	F							
18	AMS		WG	17 lb/100 gal	LPOS	F							

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								NOTILL	ANGR	AMBEL	NOTILL	ANGR	AMBEL
								WEEDS			WEEDS		
								burndown	control	control	OVERALL	control	control
								percent	percent	percent	percent	percent	percent
								6/25/07	6/25/07	6/25/07	8/9/07	8/9/07	8/9/07
								56 DA-A	56 DA-A	56 DA-A	101 DA-A	101 DA-A	101 DA-A
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code						
19	Define	4	SC	15	fl oz/a	PRE	C	28	97	94	35	99	96
19	Sencor	75	DF	6.4	oz/a	PRE	C						
19	Extreme	2.17	L	3	pt/a	PRE	C						
19	Activator 90		L	0.25	% v/v	PRE	C						
19	AMS		WG	17	lb/100 gal	PRE	C						
20	Sonic	70	DF	3	oz/a	7 EPP	B	84	99	99	95	96	99
20	GF-1280	4.17	SL	24	fl oz/a	7 EPP	B						
20	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
20	AMS		WG	1.5	% w/w	7 EPP	B						
20	GF-1280	4.17	SL	24	fl oz/a	POST	E						
20	AMS		WG	1.5	% w/w	POST	E						
21	Weed-free							99	99	99	99	99	99
21	Roundup WeatherMax	4.5	SL	22	fl oz/a	14 EPP	A						
21	AMS		WG	17	lb/100 gal	14 EPP	A						
21	Roundup WeatherMax	4.5	SL	22	fl oz/a	PRE	C						
21	AMS		WG	17	lb/100 gal	PRE	C						
21	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	D						
21	AMS		WG	17	lb/100 gal	MPOS	D						
21	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	F						
21	AMS		WG	17	lb/100 gal	LPOS	F						
LSD (P=.05)								16.8	1.4	2.9	11.2	3.0	4.1
Standard Deviation								11.9	1.0	2.1	8.0	2.2	2.9
CV								16.83	1.04	2.2	9.51	2.31	3.06

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Weed Code								CHEAL	GLXMA	GLXMA
Crop Code								control	moisture	yield
Rating Data Type								percent	percent	bu/acre
Rating Unit								8/9/07	10/8/07	10/8/07
Rating Date								101 DA-A	161 DA-A	at 13% M
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	QER54 (2.5 oz/A)							99	14.2	67.1
1	Classic	25	DF	0.92	oz/a	14 EPP	A			
1	Valor	51	DG	1.5	oz/a	14 EPP	A			
1	2,4-D Ester	4	L	1	pt/a	14 EPP	A			
1	Crop Oil Concentrate		L	1	% v/v	14 EPP	A			
1	Roundup OriginalMax	4.5	SL	22	fl oz/a	MPOS	D			
1	AMS		WG	17	lb/100 gal	MPOS	D			
2	Canopy	75	DF	2.25	oz/a	14 EPP	A	99	14.6	57.5
2	2,4-D Ester	4	L	1	pt/a	14 EPP	A			
2	Crop Oil Concentrate		L	1	% v/v	14 EPP	A			
2	Roundup OriginalMax	4.5	SL	22	fl oz/a	POST	E			
2	AMS		WG	17	lb/100 gal	POST	E			
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	14 EPP	A	99	14.2	65.6
3	2,4-D Ester	4	L	1	pt/a	14 EPP	A			
3	AMS		WG	17	lb/100 gal	14 EPP	A			
3	Roundup OriginalMax	4.5	SL	32	fl oz/a	MPOS	D			
3	AMS		WG	17	lb/100 gal	MPOS	D			
3	Roundup OriginalMax	4.5	SL	22	fl oz/a	LPOS	F			
3	AMS		WG	17	lb/100 gal	LPOS	F			
4	Untreated							0	16.4	11.6
5	Boundary	6.5	EC	1.5	pt/a	7 EPP	B	97	14.0	65.3
5	Gramoxone Inteon	2	SL	2	pt/a	7 EPP	B			
5	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
5	Crop Oil Concentrate		L	1	% v/v	7 EPP	B			
5	Touchdown Total	4.17	SL	24	fl oz/a	POST	E			
5	AMS		WG	17	lb/100 gal	POST	E			
6	Sencor	75	DF	8	oz/a	7 EPP	B	99	14.0	71.8
6	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
6	Crop Oil Concentrate		L	1	qt/a	7 EPP	B			
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	D			
6	AMS		WG	17	lb/100 gal	MPOS	D			
7	Python	80	WG	0.8	oz/a	7 EPP	B	99	14.0	72.3
7	Durango	4	SL	24	fl oz/a	7 EPP	B			
7	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
7	AMS		WG	1.5	% w/w	7 EPP	B			
7	Durango	4	SL	24	fl oz/a	POST	E			
7	AMS		WG	1.5	% w/w	POST	E			
8	Sequence	5.25	EW	3.5	pt/a	7 EPP	B	99	14.2	71.0
8	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
8	AMS		WG	17	lb/100 gal	7 EPP	B			
8	Touchdown Total	4.17	SL	24	fl oz/a	POST	E			
8	AMS		WG	17	lb/100 gal	POST	E			
9	Sencor	75	DF	8	oz/a	7 EPP	B	99	14.3	68.7
9	Extreme	2.17	L	3	pt/a	7 EPP	B			
9	Activator 90		L	0.25	% v/v	7 EPP	B			
9	AMS		WG	17	lb/100 gal	7 EPP	B			
9	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	E			
9	AMS		WG	17	lb/100 gal	POST	E			

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Crop Code								control	GLXMA	GLXMA
Rating Data Type								percent	moisture	yield
Rating Unit								8/9/07	10/8/07	10/8/07
Rating Date								101 DA-A	161 DA-A	at 13% M
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
10	Valor SX	51	DG	2	oz/a	7 EPP	B	99	13.9	60.2
10	Roundup OriginalMax	4.5	SL	22	fl oz/a	7 EPP	B			
10	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
10	AMS		WG	17	lb/100 gal	7 EPP	B			
10	Roundup OriginalMax (IFN)	4.5	SL	22	fl oz/a	POST	E			
10	AMS		WG	17	lb/100 gal	POST	E			
11	Extreme	2.17	L	3	pt/a	7 EPP	B	99	14.4	58.0
11	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
11	Activator 90		L	0.125	% v/v	7 EPP	B			
11	AMS		WG	8.5	lb/100 gal	7 EPP	B			
11	Buccaneer Plus	3	SL	32	fl oz/a	POST	E			
11	AMS		WG	8.5	lb/100 gal	POST	E			
12	BAS 756		L	3	pt/a	7 EPP	B	99	14.0	68.3
12	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
12	Activator 90		L	0.25	% v/v	7 EPP	B			
12	AMS		WG	8.5	lb/100 gal	7 EPP	B			
12	Buccaneer Plus	3	SL	32	fl oz/a	POST	E			
12	AMS		WG	8.5	lb/100 gal	POST	E			
13	Buccaneer Plus	3	SL	24	fl oz/a	7 EPP	B	96	14.9	60.1
13	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
13	AMS		WG	8.5	lb/100 gal	7 EPP	B			
13	Buccaneer Plus	3	SL	32	fl oz/a	POST	E			
13	AMS		WG	8.5	lb/100 gal	POST	E			
14	Valor XLT	40	WG	3	oz/a	PRE	C	99	13.8	64.7
14	Roundup OriginalMax	4.5	SL	22	fl oz/a	PRE	C			
14	AMS		WG	17	lb/100 gal	PRE	C			
14	Roundup OriginalMax (IFN)	4.5	SL	22	fl oz/a	POST	E			
14	AMS		WG	17	lb/100 gal	POST	E			
15	Valor	51	DG	2	oz/a	PRE	C	99	14.3	62.9
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	PRE	C			
15	AMS		WG	17	lb/100 gal	PRE	C			
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	MPOS	D			
15	AMS		WG	17	lb/100 gal	MPOS	D			
15	Roundup OriginalMax	4.5	SL	22	fl oz/a	LPOS	F			
15	AMS		WG	17	lb/100 gal	LPOS	F			
16	IntRRo	4	EC	1.5	qt/a	PRE	C	99	14.2	53.2
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	PRE	C			
16	AMS		WG	17	lb/100 gal	PRE	C			
16	Roundup OriginalMax	4.5	SL	22	fl oz/a	POST	E			
16	AMS		WG	17	lb/100 gal	POST	E			
17	Sencor	75	DF	6.4	oz/a	PRE	C	96	17.0	50.5
17	Linex	4	L	1.25	pt/a	PRE	C			
17	Define	4	SC	1	pt/a	PRE	C			
17	Roundup WeatherMax	4.5	SL	22	fl oz/a	PRE	C			
17	AMS		WG	17	lb/100 gal	PRE	C			
18	Roundup OriginalMax	4.5	SL	22	fl oz/a	PRE	C	99	14.4	60.2
18	AMS		WG	17	lb/100 gal	PRE	C			
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	D			
18	AMS		WG	17	lb/100 gal	MPOS	D			
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	F			
18	AMS		WG	17	lb/100 gal	LPOS	F			

MSU Weed Science Research Program

Commercial Comparison in No-Till Soybean

Trial ID: NTS01-07
 Conducted: Campus C-13

Study Dir.: Sprague
 Investigator: Christy Sprague

								CHEAL	GLXMA	GLXMA
								control	moisture	yield
								percent	percent	bu/acre
								8/9/07	10/8/07	10/8/07
								101 DA-A	161 DA-A	at 13% M
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
19	Define	4	SC	15	fl oz/a	PRE	C	99	15.3	36.7
19	Sencor	75	DF	6.4	oz/a	PRE	C			
19	Extreme	2.17	L	3	pt/a	PRE	C			
19	Activator 90		L	0.25	% v/v	PRE	C			
19	AMS		WG	17	lb/100 gal	PRE	C			
20	Sonic	70	DF	3	oz/a	7 EPP	B	99	13.8	67.6
20	GF-1280	4.17	SL	24	fl oz/a	7 EPP	B			
20	2,4-D Ester	4	L	1	pt/a	7 EPP	B			
20	AMS		WG	1.5	% w/w	7 EPP	B			
20	GF-1280	4.17	SL	24	fl oz/a	POST	E			
20	AMS		WG	1.5	% w/w	POST	E			
21	Weed-free							99	13.8	69.2
21	Roundup WeatherMax	4.5	SL	22	fl oz/a	14 EPP	A			
21	AMS		WG	17	lb/100 gal	14 EPP	A			
21	Roundup WeatherMax	4.5	SL	22	fl oz/a	PRE	C			
21	AMS		WG	17	lb/100 gal	PRE	C			
21	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	D			
21	AMS		WG	17	lb/100 gal	MPOS	D			
21	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	F			
21	AMS		WG	17	lb/100 gal	LPOS	F			
LSD (P=.05)								3.2	0.97	12.05
Standard Deviation								2.3	0.68	8.52
CV								2.44	4.73	14.17