

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Date Planted: 5/8/2006
Variety: Pioneer 91M91
Population: 152,000 seed/acre
Soil Type: Sandy Loam
Plot Size: 10 X 35 FT
Row Spacing: 30 IN
No. of Reps: 4
% OM: 2.8
pH: 6.9
Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall moldboard plow
 Soil finish X 2 5/8/06
Fertilizer: None at planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	AMBEL	RAGWEED, COMMON	AMBROSIA ELATIOR L.
3.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
4.	ANGR	Annual grass	mainly foxtail, panicum
5.	BRKA/SINAR	MUSTARD, WILD	BRASSICA KABER
6.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.) VILL./CYR.
7.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
8.	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL
9.	POROL	PURSLANE, COMMON	PORTULACA OLERACEA L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B	C	D	E
Application Timing:	PRE	EPOS	MPOS	POST	MLPOST
Date Treated:	5/9/2006	6/5/2006	6/12/2006	6/14/2006	6/20/2006
Time Treated:	7:30	6:45 pm	12:30 pm	10:30 am	10:00 am
% Cloud Cover:	10	5	20	0	0
Air Temp., Unit:	52 F	83 F	67 F	73 F	70 F
% Relative Humidity:	67	25	27	32	54
Wind Speed/Unit/Dir:	6 mph E	2 mph S	6 mph NE	2 mph E	3 mph N
Soil Temp., Unit:	55 F	84 F	60 F	69 F	69 F
Soil/Leaf Surface M:	5 -	5 5	5 5	5 5	3 5
Soil Moist (1=w 5=d):	5	5	5	5	3

F

Application Timing:	LPOST
Date Treated:	7/6/2006
Time Treated:	10:30 am
% Cloud Cover:	10
Air Temp., Unit:	72 F
% Relative Humidity:	39
Wind Speed/Unit/Dir:	5 mph N
Soil Temp., Unit:	70 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.):	-	4"	3-6"	5-7"	6"-9"
Stage (L):	-	V1	2-3 tri	V2	2-3 tri
F					
Crop Name:	GLXMA				
Height (In.):	16-20"				
Stage (L):	R 1				

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Weed Stage at Each Application

	A	B	C	D	E
Weed 1 Name:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):	-	1-2"	1-2"	1-4"	1/2"-2"
Stage (L):	-	4-8	4-8	4-16	2-8
Weed 2 Name:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Height (In.):	-	2"	1-2"	2-5"	1"-9"
Stage (L):	-	4	2-6	4-8	4-many
Weed 3 Name:	AMAPO	AMAPO	AMAPO	AMAPO	AMAPO
Height (In.):	-	1.5"-2	1-1.5"	1-3"	-
Stage (L):	-	4-6	2-6	4-8	-
Weed 4 Name:	ANGR	ANGR	ANGR	ANGR	ANGR
Height (In.):	-	1.5-2.5"	1-3"	2-9"	-
Stage (L):	-	3	3-5	2-7	-
Weed 5 Name:	BRAKA/SINAR	BRAKA/SINAR	BRAKA/SINAR	BRAKA/SINAR	BRAKA/SINAR
Height (In.):	-	.5-1.5"	3"	1-6"	1"-6"
Stage (L):	-	6-8	8	4-flower	1-flower
Weed 6 Name:	STEME	STEME	STEME	STEME	STEME
Height (In.):	-	.5-1.5"	1"	1-2"	-
Stage (L):	-	many	many	many	-
Weed 7 Name:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Height (In.):	-	.5-2.5"	1-2"	2-3"	1/2-4 1/2
Stage (L):	-	cot-3	cot-2	2-4	2-6
Weed 8 Name:	SOLPT	SOLPT	SOLPT	SOLPT	SOLPT
Height (In.):	-	-	.25-1"	.5-1"	-
Stage (L):	-	-	2-4	4	-
Weed 9 Name:	POROL	POROL	POROL	POROL	POROL
Height (In.):	-	-	-	-	-
Stage (L):	-	-	-	-	-
F					
Weed 1 Name:	CHEAL				
Height (In.):	0.5-8"				
Stage (L):	4-many				
Weed 2 Name:	AMBEL				
Height (In.):	2-4"				
Stage (L):	4-6				
Weed 3 Name:	AMAPO				
Height (In.):	1-4"				
Stage (L):	4-many				
Weed 4 Name:	ANGR				
Height (In.):	4-10"				
Stage (L):	4-8				
Weed 5 Name:	BRAKA/SINAR				
Height (In.):	2-4"				
Stage (L):	2-3				
Weed 6 Name:	STEME				
Height (In.):	-				
Stage (L):	-				
Weed 7 Name:	ABUTH				
Height (In.):	1-3"				
Stage (L):	3-5				
Weed 8 Name:	SOLPT				
Height (In.):	1-2"				
Stage (L):	6-8				
Weed 9 Name:	POROL				
Height (In.):	0.25-1"				
Stage (L):	2-8				

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Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	7/21/2006	7/21/2006	7/21/2006	7/21/2006	7/21/2006
Weed Name:	CHEAL	ABUTH	ANGR	BRAKA	AMBEL
Density:	3	<1	2	4	6

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
A	Type	MPH	Type	Size	Height	Spacing	Width			
A	CUB	3.8	AirMix	11003	20"	20"	100"	19	water	27
B	CUB	3.8	AirMix	11003	22"	20"	100"	19	water	27
C	CUB	3.8	AirMix	11003	22"	20"	100"	19	water	27
D	CUB	3.8	AirMix	11003	22"	20"	100"	19	water	27
E	Cub	3.8	AirMix	11003	22"	20"	100"	19	water	27
F	Cub	3.8	AirMix	11003	29"	20"	120"	19	water	27

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Weed Code						ANGR	CHEAL	AMBEL	ABUTH			
Crop Code						GLXMA	GLXMA					
Rating Data Type						injury	injury	control	control			
Rating Unit						percent	percent	percent	percent			
Rating Date						6/9/2006	6/19/2006	6/19/2006	6/19/2006			
Trt-Eval Interval						31 DA-A	41 DA-A	41 DA-A	41 DA-A			
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code						
1	Gangster (3.6 oz/A)						24	23	98	99	99	99
1	Valor	51	3	oz/a	PRE	A						
1	FirstRate	84	0.6	oz/a	PRE	A						
1	Pendimax	3.3	2	pt/a	PRE	A						
2	Boundary	6.5	1.75	pt/a	PRE	A	16	11	99	97	60	71
2	Touchdown Total	4.17	24	fl oz/a	MLPO	E						
2	AMS		8.5	lb/100 gal	MLPO	E						
3	IntRRo	4	2	qt/a	PRE	A	8	9	99			
3	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D						
3	AMS		17	lb/100 gal	POST	D						
4	Canopy	75	2.25	oz/a	PRE	A	16	30	99	99	99	98
4	Linex	4	1	pt/a	PRE	A						
4	Cinch	7.64	1	pt/a	PRE	A						
5	Gangster (3.6 oz/A)						26	24	94	99	99	99
5	Valor	51	3	oz/a	PRE	A						
5	FirstRate	84	0.6	oz/a	PRE	A						
5	Pendimax	3.3	2.4	pt/a	PRE	A						
6	Sencor 75 DF	75	0.4	lb/a	PRE	A	1	3	99	99	93	98
6	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C						
6	AMS		17	lb/100 gal	MPOS	C						
7	Prowl H2O	3.8	2.5	pt/a	PRE	A	21	38	99	99	98	99
7	Raptor	1	4	fl oz/a	MPOS	C						
7	Flexstar	1.88	12	fl oz/a	MPOS	C						
7	MSO		1	gal/100 gal	MPOS	C						
7	AMS		2.5	lb/a	MPOS	C						
8	Untreated						0	0	0	0	0	0
9	WeedSOFT 1 - PRE						20	29	99	99	93	99
9	Boundary	6.5	2	pt/a	PRE	A						
9	FirstRate	84	0.6	oz/a	PRE	A						
10	Extreme	2.17	3	pt/a	EPOS	B		15	99	99	98	99
10	Activator 90		0.25	% v/v	EPOS	B						
10	AMS		2.5	lb/a	EPOS	B						
10	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F						
10	Activator 90		0.25	% v/v	LPOS	F						
10	AMS		2.5	lb/a	LPOS	F						
11	Sencor 75 DF	75	0.4	lb/a	PRE	A	5	3	98	98	90	96
11	Pursuit	70	1	oz/a	PRE	A						
11	Define SC	4	14	fl oz/a	PRE	A						
12	Canopy	75	3	oz/a	PRE	A	10	31	98	99	98	98
12	Flexstar	1.88	1.5	pt/a	MPOS	C						
12	Assure II	0.88	8	fl oz/a	MPOS	C						
12	Crop Oil Concentrate		1	% v/v	MPOS	C						
13	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D		15	76			
13	AMS		17	lb/100 gal	POST	D						
14	Sequence	5.25	3.5	pt/a	EPOS	B		9	99	99	99	99
14	AMS		8.5	lb/100 gal	EPOS	B						
14	Touchdown Total	4.17	24	fl oz/a	LPOS	F						
14	AMS		8.5	lb/100 gal	LPOS	F						

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Crop Code						GLXMA	GLXMA					
Rating Data Type						injury	injury	control	control			
Rating Unit						percent	percent	percent	percent			
Rating Date						6/9/2006	6/19/2006	6/19/2006	6/19/2006			
Trt-Eval Interval						31 DA-A	41 DA-A	41 DA-A	41 DA-A			
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code						
15	Valor	51	3	oz/a	PRE	A	29	16	96	99	99	97
15	Sencor 75 DF	75	6	oz/a	PRE	A						
15	Pendimax	3.3	2	pt/a	PRE	A						
16	WeedSOFT 2 - PRE/MPOS						18	38	99	99	99	98
16	Boundary	6.5	2	pt/a	PRE	A						
16	Cobra	2	8	fl oz/a	MPOS	C						
16	Crop Oil Concentrate		0.4	qt/a	MPOS	C						
16	AMS		2.5	lb/a	MPOS	C						
17	Boundary	6.5	2.25	pt/a	PRE	A	8	38	99	99	99	99
17	Flexstar	1.88	16	fl oz/a	MPOS	C						
17	Harmony GT (50%)	50	0.12	oz/a	MPOS	C						
17	Crop Oil Concentrate		1	% v/v	MPOS	C						
18	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B		6	98	99	99	99
18	AMS		17	lb/100 gal	EPOS	B						
18	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F						
18	AMS		17	lb/100 gal	LPOS	F						
19	Domain	60	10	oz/a	PRE	A	1	3	99	99	91	98
19	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C						
19	AMS		17	lb/100 gal	MPOS	C						
20	WeedSOFT 3 - PRE/MPOS						16	18	99	97	54	73
20	Boundary	6.5	2	pt/a	PRE	A						
20	Scout POST (RR)				MLPO	E						
20	Buccaneer Plus	3	32	fl oz/a	MLPO	E						
20	AMS		17	lb/100 gal	MLPO	E						
21	Sencor 75 DF	75	0.33	lb/a	PRE	A	9	6	99	98	97	90
21	Linex	4	1	pt/a	PRE	A						
21	Define SC	4	15	fl oz/a	PRE	A						
22	Roundup OriginalMAX	4.5	22	fl oz/a	EPOS	B		4	99	95	99	99
22	AMS		17	lb/100 gal	EPOS	B						
22	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F						
22	AMS		17	lb/100 gal	LPOS	F						
23	Prefix	5.32	1	qt/a	PRE	A	8	11	99	81	79	48
23	Touchdown Total	4.17	24	fl oz/a	MLPO	E						
23	AMS		8.5	lb/100 gal	MLPO	E						
24	WeedSOFT 4 - TOTAL POST							31	51			
24	Raptor	1	4	fl oz/a	MPOS	C						
24	Cobra	2	4	fl oz/a	MPOS	C						
24	Crop Oil Concentrate		0.8	qt/a	MPOS	C						
24	AMS		2.5	lb/a	MPOS	C						
25	Weed-Free							6	99	99	99	99
25	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B						
25	AMS		17	lb/100 gal	EPOS	B						
25	Roundup WeatherMAX	4.5	22	fl oz/a	MLPO	E						
25	AMS		17	lb/100 gal	MLPO	E						
25	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F						
25	AMS		17	lb/100 gal	LPOS	F						
LSD (P=.05)							9.8	7.5	7.7	3.5	11.2	18.9
Standard Deviation							6.9	5.3	5.4	2.5	7.9	13.4
CV							53.04	32.17	5.9	2.65	8.98	15.07

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Weed Code		BRAKA		SOLPT		GLXMA		ANGR		CHEAL		AMARE	
Crop Code		control		control		injury		control		control		control	
Rating Data Type		percent		percent		percent		percent		percent		percent	
Rating Unit		6/19/2006		6/19/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006	
Rating Date		41 DA-A		41 DA-A		49 DA-A		49 DA-A		49 DA-A		49 DA-A	
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code							
1	Gangster (3.6 oz/A)						99	99	19	93	99	99	
1	Valor	51	3	oz/a	PRE	A							
1	FirstRate	84	0.6	oz/a	PRE	A							
1	Pendimax	3.3	2	pt/a	PRE	A							
2	Boundary	6.5	1.75	pt/a	PRE	A	99	99	10	99	99	99	
2	Touchdown Total	4.17	24	fl oz/a	MLPO	E							
2	AMS		8.5	lb/100 gal	MLPO	E							
3	IntRRo	4	2	qt/a	PRE	A			5	98	89	99	
3	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D							
3	AMS		17	lb/100 gal	POST	D							
4	Canopy	75	2.25	oz/a	PRE	A	99	99	24	99	99	99	
4	Linex	4	1	pt/a	PRE	A							
4	Cinch	7.64	1	pt/a	PRE	A							
5	Gangster (3.6 oz/A)						99	99	14	86	99	99	
5	Valor	51	3	oz/a	PRE	A							
5	FirstRate	84	0.6	oz/a	PRE	A							
5	Pendimax	3.3	2.4	pt/a	PRE	A							
6	Sencor 75 DF	75	0.4	lb/a	PRE	A	99	99	1	98	98	99	
6	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C							
6	AMS		17	lb/100 gal	MPOS	C							
7	Prowl H2O	3.8	2.5	pt/a	PRE	A	98	99	28	99	99	99	
7	Raptor	1	4	fl oz/a	MPOS	C							
7	Flexstar	1.88	12	fl oz/a	MPOS	C							
7	MSO		1	gal/100 gal	MPOS	C							
7	AMS		2.5	lb/a	MPOS	C							
8	Untreated						0	0	0	0	0	0	
9	WeedSOFT 1 - PRE						98	99	25	99	98	99	
9	Boundary	6.5	2	pt/a	PRE	A							
9	FirstRate	84	0.6	oz/a	PRE	A							
10	Extreme	2.17	3	pt/a	EPOS	B	99	99	12	97	97	99	
10	Activator 90		0.25	% v/v	EPOS	B							
10	AMS		2.5	lb/a	EPOS	B							
10	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F							
10	Activator 90		0.25	% v/v	LPOS	F							
10	AMS		2.5	lb/a	LPOS	F							
11	Sencor 75 DF	75	0.4	lb/a	PRE	A	99	99	4	98	95	98	
11	Pursuit	70	1	oz/a	PRE	A							
11	Define SC	4	14	fl oz/a	PRE	A							
12	Canopy	75	3	oz/a	PRE	A	99	99	24	99	99	99	
12	Flexstar	1.88	1.5	pt/a	MPOS	C							
12	Assure II	0.88	8	fl oz/a	MPOS	C							
12	Crop Oil Concentrate		1	% v/v	MPOS	C							
13	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D			8	99	72	99	
13	AMS		17	lb/100 gal	POST	D							
14	Sequence	5.25	3.5	pt/a	EPOS	B	94	99	0	98	95	99	
14	AMS		8.5	lb/100 gal	EPOS	B							
14	Touchdown Total	4.17	24	fl oz/a	LPOS	F							
14	AMS		8.5	lb/100 gal	LPOS	F							

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Crop Code		control		control		injury		control		control		control	
Rating Data Type		percent		percent		percent		percent		percent		percent	
Rating Unit		6/19/2006		6/19/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006	
Rating Date		41 DA-A		41 DA-A		49 DA-A		49 DA-A		49 DA-A		49 DA-A	
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code							
15	Valor	51	3	oz/a	PRE	A	99	99	9	91	99	99	
15	Sencor 75 DF	75	6	oz/a	PRE	A							
15	Pendimax	3.3	2	pt/a	PRE	A							
16	WeedSOFT 2 - PRE/MPOS						99	99	27	99	99	99	
16	Boundary	6.5	2	pt/a	PRE	A							
16	Cobra	2	8	fl oz/a	MPOS	C							
16	Crop Oil Concentrate		0.4	qt/a	MPOS	C							
16	AMS		2.5	lb/a	MPOS	C							
17	Boundary	6.5	2.25	pt/a	PRE	A	99	99	21	99	99	99	
17	Flexstar	1.88	16	fl oz/a	MPOS	C							
17	Harmony GT (50%)	50	0.12	oz/a	MPOS	C							
17	Crop Oil Concentrate		1	% v/v	MPOS	C							
18	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B	98	99	1	83	88	95	
18	AMS		17	lb/100 gal	EPOS	B							
18	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F							
18	AMS		17	lb/100 gal	LPOS	F							
19	Domain	60	10	oz/a	PRE	A	99	99	1	98	99	97	
19	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C							
19	AMS		17	lb/100 gal	MPOS	C							
20	WeedSOFT 3 - PRE/MPOS						90	99	11	99	99	99	
20	Boundary	6.5	2	pt/a	PRE	A							
20	Scout POST (RR)				MLPO	E							
20	Buccaneer Plus	3	32	fl oz/a	MLPO	E							
20	AMS		17	lb/100 gal	MLPO	E							
21	Sencor 75 DF	75	0.33	lb/a	PRE	A	99	99	3	98	97	93	
21	Linex	4	1	pt/a	PRE	A							
21	Define SC	4	15	fl oz/a	PRE	A							
22	Roundup OriginalMAX	4.5	22	fl oz/a	EPOS	B	99	99	3	88	86	93	
22	AMS		17	lb/100 gal	EPOS	B							
22	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F							
22	AMS		17	lb/100 gal	LPOS	F							
23	Prefix	5.32	1	qt/a	PRE	A	99	99	7	99	99	99	
23	Touchdown Total	4.17	24	fl oz/a	MLPO	E							
23	AMS		8.5	lb/100 gal	MLPO	E							
24	WeedSOFT 4 - TOTAL POST								17	73	76	99	
24	Raptor	1	4	fl oz/a	MPOS	C							
24	Cobra	2	4	fl oz/a	MPOS	C							
24	Crop Oil Concentrate		0.8	qt/a	MPOS	C							
24	AMS		2.5	lb/a	MPOS	C							
25	Weed-Free						99	99	0	99	99	99	
25	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B							
25	AMS		17	lb/100 gal	EPOS	B							
25	Roundup WeatherMAX	4.5	22	fl oz/a	MLPO	E							
25	AMS		17	lb/100 gal	MLPO	E							
25	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F							
25	AMS		17	lb/100 gal	LPOS	F							
LSD (P=.05)							2.8	0.3	6.7	4.3	6.2	3.7	
Standard Deviation							2.0	0.2	4.7	3.0	4.4	2.7	
CV							2.09	0.23	43.34	3.32	4.84	2.81	

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code		AMBEL		ABUTH		SOLPT		BRAKA		GLXMA		ANGR	
Crop Code		control		control		control		control		injury		control	
Rating Data Type		percent		percent		percent		percent		percent		percent	
Rating Unit		6/27/2006		6/27/2006		6/27/2006		6/27/2006		7/12/2006		7/12/2006	
Rating Date		49 DA-A		49 DA-A		49 DA-A		49 DA-A		64 DA-A		64 DA-A	
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code							
1	Gangster (3.6 oz/A)						99	99	99	99	16	83	
1	Valor	51	3	oz/a	PRE	A							
1	FirstRate	84	0.6	oz/a	PRE	A							
1	Pendimax	3.3	2	pt/a	PRE	A							
2	Boundary	6.5	1.75	pt/a	PRE	A	99	98	99	98	4	99	
2	Touchdown Total	4.17	24	fl oz/a	MLPO	E							
2	AMS		8.5	lb/100 gal	MLPO	E							
3	IntRRo	4	2	qt/a	PRE	A	97	98	99	97	2	88	
3	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D							
3	AMS		17	lb/100 gal	POST	D							
4	Canopy	75	2.25	oz/a	PRE	A	97	99	99	99	14	98	
4	Linex	4	1	pt/a	PRE	A							
4	Cinch	7.64	1	pt/a	PRE	A							
5	Gangster (3.6 oz/A)						99	99	99	99	14	76	
5	Valor	51	3	oz/a	PRE	A							
5	FirstRate	84	0.6	oz/a	PRE	A							
5	Pendimax	3.3	2.4	pt/a	PRE	A							
6	Sencor 75 DF	75	0.4	lb/a	PRE	A	98	99	99	99	0	93	
6	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C							
6	AMS		17	lb/100 gal	MPOS	C							
7	Prowl H2O	3.8	2.5	pt/a	PRE	A	95	99	99	99	17	97	
7	Raptor	1	4	fl oz/a	MPOS	C							
7	Flexstar	1.88	12	fl oz/a	MPOS	C							
7	MSO		1	gal/100 gal	MPOS	C							
7	AMS		2.5	lb/a	MPOS	C							
8	Untreated						0	0	0	0	0	0	
9	WeedSOFT 1 - PRE						86	99	99	96	25	99	
9	Boundary	6.5	2	pt/a	PRE	A							
9	FirstRate	84	0.6	oz/a	PRE	A							
10	Extreme	2.17	3	pt/a	EPOS	B	98	98	99	99	5	99	
10	Activator 90		0.25	% v/v	EPOS	B							
10	AMS		2.5	lb/a	EPOS	B							
10	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F							
10	Activator 90		0.25	% v/v	LPOS	F							
10	AMS		2.5	lb/a	LPOS	F							
11	Sencor 75 DF	75	0.4	lb/a	PRE	A	76	92	99	96	0	97	
11	Pursuit	70	1	oz/a	PRE	A							
11	Define SC	4	14	fl oz/a	PRE	A							
12	Canopy	75	3	oz/a	PRE	A	99	99	99	99	14	98	
12	Flexstar	1.88	1.5	pt/a	MPOS	C							
12	Assure II	0.88	8	fl oz/a	MPOS	C							
12	Crop Oil Concentrate		1	% v/v	MPOS	C							
13	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D	97	97	99	99	4	87	
13	AMS		17	lb/100 gal	POST	D							
14	Sequence	5.25	3.5	pt/a	EPOS	B	98	96	99	84	0	98	
14	AMS		8.5	lb/100 gal	EPOS	B							
14	Touchdown Total	4.17	24	fl oz/a	LPOS	F							
14	AMS		8.5	lb/100 gal	LPOS	F							

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code		AMBEL		ABUTH		SOLPT		BRAKA		GLXMA		ANGR	
Crop Code										injury		control	
Rating Data Type		control		control		control		control		percent		percent	
Rating Unit		6/27/2006		6/27/2006		6/27/2006		6/27/2006		7/12/2006		7/12/2006	
Rating Date		49 DA-A		49 DA-A		49 DA-A		49 DA-A		64 DA-A		64 DA-A	
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code							
15	Valor	51	3	oz/a	PRE	A	99	98	99	99	5	87	
15	Sencor 75 DF	75	6	oz/a	PRE	A							
15	Pendimax	3.3	2	pt/a	PRE	A							
16	WeedSOFT 2 - PRE/MPOS						99	97	99	77	12	99	
16	Boundary	6.5	2	pt/a	PRE	A							
16	Cobra	2	8	fl oz/a	MPOS	C							
16	Crop Oil Concentrate		0.4	qt/a	MPOS	C							
16	AMS		2.5	lb/a	MPOS	C							
17	Boundary	6.5	2.25	pt/a	PRE	A	99	99	99	99	13	99	
17	Flexstar	1.88	16	fl oz/a	MPOS	C							
17	Harmony GT (50%)	50	0.12	oz/a	MPOS	C							
17	Crop Oil Concentrate		1	% v/v	MPOS	C							
18	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B	98	97	99	92	0	99	
18	AMS		17	lb/100 gal	EPOS	B							
18	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F							
18	AMS		17	lb/100 gal	LPOS	F							
19	Domain	60	10	oz/a	PRE	A	95	97	99	98	0	94	
19	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C							
19	AMS		17	lb/100 gal	MPOS	C							
20	WeedSOFT 3 - PRE/MPOS						99	99	99	98	5	99	
20	Boundary	6.5	2	pt/a	PRE	A							
20	Scout POST (RR)				MLPO	E							
20	Buccaneer Plus	3	32	fl oz/a	MLPO	E							
20	AMS		17	lb/100 gal	MLPO	E							
21	Sencor 75 DF	75	0.33	lb/a	PRE	A	94	84	99	99	0	97	
21	Linex	4	1	pt/a	PRE	A							
21	Define SC	4	15	fl oz/a	PRE	A							
22	Roundup OriginalMAX	4.5	22	fl oz/a	EPOS	B	99	97	97	98	0	97	
22	AMS		17	lb/100 gal	EPOS	B							
22	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F							
22	AMS		17	lb/100 gal	LPOS	F							
23	Prefix	5.32	1	qt/a	PRE	A	99	98	99	99	1	99	
23	Touchdown Total	4.17	24	fl oz/a	MLPO	E							
23	AMS		8.5	lb/100 gal	MLPO	E							
24	WeedSOFT 4 - TOTAL POST						79	99	99	96	12	25	
24	Raptor	1	4	fl oz/a	MPOS	C							
24	Cobra	2	4	fl oz/a	MPOS	C							
24	Crop Oil Concentrate		0.8	qt/a	MPOS	C							
24	AMS		2.5	lb/a	MPOS	C							
25	Weed-Free						99	99	99	99	0	99	
25	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B							
25	AMS		17	lb/100 gal	EPOS	B							
25	Roundup WeatherMAX	4.5	22	fl oz/a	MLPO	E							
25	AMS		17	lb/100 gal	MLPO	E							
25	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F							
25	AMS		17	lb/100 gal	LPOS	F							
LSD (P=.05)							5.5	4.9	1.0	13.6	5.0	7.7	
Standard Deviation							3.9	3.4	0.7	9.6	3.5	5.4	
CV							4.21	3.69	0.71	10.37	54.89	6.15	

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code		CHEAL	AMARE	AMBEL	ABUTH	SOLPT	GLXMA					
Crop Code		control	control	control	control	control	injury					
Rating Data Type		percent	percent	percent	percent	percent	percent					
Rating Unit		7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/27/2006					
Rating Date		64 DA-A	64 DA-A	64 DA-A	64 DA-A	64 DA-A	79 DA-A					
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code						
1	Gangster (3.6 oz/A)						99	99	99	98	99	15
1	Valor	51	3	oz/a	PRE	A						
1	FirstRate	84	0.6	oz/a	PRE	A						
1	Pendimax	3.3	2	pt/a	PRE	A						
2	Boundary	6.5	1.75	pt/a	PRE	A	93	91	97	97	97	3
2	Touchdown Total	4.17	24	fl oz/a	MLPO	E						
2	AMS		8.5	lb/100 gal	MLPO	E						
3	IntRRo	4	2	qt/a	PRE	A	86	86	97	95	97	1
3	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D						
3	AMS		17	lb/100 gal	POST	D						
4	Canopy	75	2.25	oz/a	PRE	A	99	99	95	98	99	10
4	Linex	4	1	pt/a	PRE	A						
4	Cinch	7.64	1	pt/a	PRE	A						
5	Gangster (3.6 oz/A)						99	99	98	99	99	10
5	Valor	51	3	oz/a	PRE	A						
5	FirstRate	84	0.6	oz/a	PRE	A						
5	Pendimax	3.3	2.4	pt/a	PRE	A						
6	Sencor 75 DF	75	0.4	lb/a	PRE	A	94	91	99	98	98	1
6	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C						
6	AMS		17	lb/100 gal	MPOS	C						
7	Prowl H2O	3.8	2.5	pt/a	PRE	A	99	99	94	99	99	13
7	Raptor	1	4	fl oz/a	MPOS	C						
7	Flexstar	1.88	12	fl oz/a	MPOS	C						
7	MSO		1	gal/100 gal	MPOS	C						
7	AMS		2.5	lb/a	MPOS	C						
8	Untreated						0	0	0	0	0	0
9	WeedSOFT 1 - PRE						94	96	83	98	98	25
9	Boundary	6.5	2	pt/a	PRE	A						
9	FirstRate	84	0.6	oz/a	PRE	A						
10	Extreme	2.17	3	pt/a	EPOS	B	99	99	99	99	99	3
10	Activator 90		0.25	% v/v	EPOS	B						
10	AMS		2.5	lb/a	EPOS	B						
10	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F						
10	Activator 90		0.25	% v/v	LPOS	F						
10	AMS		2.5	lb/a	LPOS	F						
11	Sencor 75 DF	75	0.4	lb/a	PRE	A	99	93	53	95	98	0
11	Pursuit	70	1	oz/a	PRE	A						
11	Define SC	4	14	fl oz/a	PRE	A						
12	Canopy	75	3	oz/a	PRE	A	95	99	99	97	97	11
12	Flexstar	1.88	1.5	pt/a	MPOS	C						
12	Assure II	0.88	8	fl oz/a	MPOS	C						
12	Crop Oil Concentrate		1	% v/v	MPOS	C						
13	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D	81	87	99	96	98	4
13	AMS		17	lb/100 gal	POST	D						
14	Sequence	5.25	3.5	pt/a	EPOS	B	98	99	97	98	99	0
14	AMS		8.5	lb/100 gal	EPOS	B						
14	Touchdown Total	4.17	24	fl oz/a	LPOS	F						
14	AMS		8.5	lb/100 gal	LPOS	F						

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06

Study Dir.: Sprague, Powell

Conducted: T-10

Investigator: Christy Sprague

Weed Code		CHEAL	AMARE	AMBEL	ABUTH	SOLPT	GLXMA					
Crop Code		control	control	control	control	control	injury					
Rating Data Type		percent	percent	percent	percent	percent	percent					
Rating Unit		7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/12/2006	7/27/2006					
Rating Date		64 DA-A	64 DA-A	64 DA-A	64 DA-A	64 DA-A	79 DA-A					
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code						
15	Valor	51	3	oz/a	PRE	A	99	98	99	98	99	2
15	Sencor 75 DF	75	6	oz/a	PRE	A						
15	Pendimax	3.3	2	pt/a	PRE	A						
16	WeedSOFT 2 - PRE/MPOS						98	99	99	93	99	9
16	Boundary	6.5	2	pt/a	PRE	A						
16	Cobra	2	8	fl oz/a	MPOS	C						
16	Crop Oil Concentrate		0.4	qt/a	MPOS	C						
16	AMS		2.5	lb/a	MPOS	C						
17	Boundary	6.5	2.25	pt/a	PRE	A	98	99	99	94	99	8
17	Flexstar	1.88	16	fl oz/a	MPOS	C						
17	Harmony GT (50%)	50	0.12	oz/a	MPOS	C						
17	Crop Oil Concentrate		1	% v/v	MPOS	C						
18	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B	97	99	98	98	99	1
18	AMS		17	lb/100 gal	EPOS	B						
18	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F						
18	AMS		17	lb/100 gal	LPOS	F						
19	Domain	60	10	oz/a	PRE	A	95	86	98	97	98	0
19	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C						
19	AMS		17	lb/100 gal	MPOS	C						
20	WeedSOFT 3 - PRE/MPOS						93	87	97	97	98	5
20	Boundary	6.5	2	pt/a	PRE	A						
20	Scout POST (RR)				MLPO	E						
20	Buccaneer Plus	3	32	fl oz/a	MLPO	E						
20	AMS		17	lb/100 gal	MLPO	E						
21	Sencor 75 DF	75	0.33	lb/a	PRE	A	97	88	95	82	99	0
21	Linex	4	1	pt/a	PRE	A						
21	Define SC	4	15	fl oz/a	PRE	A						
22	Roundup OriginalMAX	4.5	22	fl oz/a	EPOS	B	96	99	99	99	99	1
22	AMS		17	lb/100 gal	EPOS	B						
22	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F						
22	AMS		17	lb/100 gal	LPOS	F						
23	Prefix	5.32	1	qt/a	PRE	A	99	98	99	99	99	3
23	Touchdown Total	4.17	24	fl oz/a	MLPO	E						
23	AMS		8.5	lb/100 gal	MLPO	E						
24	WeedSOFT 4 - TOTAL POST						33	99	40	78	99	9
24	Raptor	1	4	fl oz/a	MPOS	C						
24	Cobra	2	4	fl oz/a	MPOS	C						
24	Crop Oil Concentrate		0.8	qt/a	MPOS	C						
24	AMS		2.5	lb/a	MPOS	C						
25	Weed-Free						99	99	99	99	99	0
25	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B						
25	AMS		17	lb/100 gal	EPOS	B						
25	Roundup WeatherMAX	4.5	22	fl oz/a	MLPO	E						
25	AMS		17	lb/100 gal	MLPO	E						
25	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F						
25	AMS		17	lb/100 gal	LPOS	F						
LSD (P=.05)							7.9	6.6	10.5	8.8	1.8	5.9
Standard Deviation							5.6	4.6	7.4	6.2	1.3	4.1
CV							6.24	5.07	8.35	6.78	1.34	78.64

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code						ANGR	CHEAL	AMARE	AMBEL	ABUTH	GLXMA	
Crop Code						control	control	control	control	control	moisture	
Rating Data Type						percent	percent	percent	percent	percent	percent	
Rating Unit						7/27/2006	7/27/2006	7/27/2006	7/27/2006	7/27/2006	10/6/2006	
Rating Date						79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	150 DA-A	
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code						
1	Gangster (3.6 oz/A)						83	99	99	99	99	14.8
1	Valor	51	3	oz/a	PRE	A						
1	FirstRate	84	0.6	oz/a	PRE	A						
1	Pendimax	3.3	2	pt/a	PRE	A						
2	Boundary	6.5	1.75	pt/a	PRE	A	99	93	90	98	96	14.9
2	Touchdown Total	4.17	24	fl oz/a	MLPO	E						
2	AMS		8.5	lb/100 gal	MLPO	E						
3	IntRRo	4	2	qt/a	PRE	A	93	83	84	93	96	14.8
3	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D						
3	AMS		17	lb/100 gal	POST	D						
4	Canopy	75	2.25	oz/a	PRE	A	99	98	99	94	97	14.6
4	Linex	4	1	pt/a	PRE	A						
4	Cinch	7.64	1	pt/a	PRE	A						
5	Gangster (3.6 oz/A)						72	99	97	99	99	15.1
5	Valor	51	3	oz/a	PRE	A						
5	FirstRate	84	0.6	oz/a	PRE	A						
5	Pendimax	3.3	2.4	pt/a	PRE	A						
6	Sencor 75 DF	75	0.4	lb/a	PRE	A	91	96	96	99	96	14.9
6	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C						
6	AMS		17	lb/100 gal	MPOS	C						
7	Prowl H2O	3.8	2.5	pt/a	PRE	A	97	99	99	89	99	14.7
7	Raptor	1	4	fl oz/a	MPOS	C						
7	Flexstar	1.88	12	fl oz/a	MPOS	C						
7	MSO		1	gal/100 gal	MPOS	C						
7	AMS		2.5	lb/a	MPOS	C						
8	Untreated						0	0	0	0	0	17.8
9	WeedSOFT 1 - PRE						99	96	85	70	97	14.9
9	Boundary	6.5	2	pt/a	PRE	A						
9	FirstRate	84	0.6	oz/a	PRE	A						
10	Extreme	2.17	3	pt/a	EPOS	B	99	99	99	99	99	14.6
10	Activator 90		0.25	% v/v	EPOS	B						
10	AMS		2.5	lb/a	EPOS	B						
10	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F						
10	Activator 90		0.25	% v/v	LPOS	F						
10	AMS		2.5	lb/a	LPOS	F						
11	Sencor 75 DF	75	0.4	lb/a	PRE	A	97	96	99	48	96	15.3
11	Pursuit	70	1	oz/a	PRE	A						
11	Define SC	4	14	fl oz/a	PRE	A						
12	Canopy	75	3	oz/a	PRE	A	99	98	98	99	98	14.2
12	Flexstar	1.88	1.5	pt/a	MPOS	C						
12	Assure II	0.88	8	fl oz/a	MPOS	C						
12	Crop Oil Concentrate		1	% v/v	MPOS	C						
13	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D	80	79	85	92	97	14.9
13	AMS		17	lb/100 gal	POST	D						
14	Sequence	5.25	3.5	pt/a	EPOS	B	99	99	99	99	99	14.7
14	AMS		8.5	lb/100 gal	EPOS	B						
14	Touchdown Total	4.17	24	fl oz/a	LPOS	F						
14	AMS		8.5	lb/100 gal	LPOS	F						

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code				ANGR	CHEAL	AMARE	AMBEL	ABUTH	GLXMA			
Crop Code				control	control	control	control	control	moisture			
Rating Data Type				percent	percent	percent	percent	percent	percent			
Rating Unit				7/27/2006	7/27/2006	7/27/2006	7/27/2006	7/27/2006	10/6/2006			
Rating Date				79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	150 DA-A			
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code						
15	Valor	51	3	oz/a	PRE	A	88	99	98	99	88	15.0
15	Sencor 75 DF	75	6	oz/a	PRE	A						
15	Pendimax	3.3	2	pt/a	PRE	A						
16	WeedSOFT 2 - PRE/MPOS						99	96	98	99	91	14.4
16	Boundary	6.5	2	pt/a	PRE	A						
16	Cobra	2	8	fl oz/a	MPOS	C						
16	Crop Oil Concentrate		0.4	qt/a	MPOS	C						
16	AMS		2.5	lb/a	MPOS	C						
17	Boundary	6.5	2.25	pt/a	PRE	A	99	99	99	99	92	14.0
17	Flexstar	1.88	16	fl oz/a	MPOS	C						
17	Harmony GT (50%)	50	0.12	oz/a	MPOS	C						
17	Crop Oil Concentrate		1	% v/v	MPOS	C						
18	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B	99	99	99	99	99	14.9
18	AMS		17	lb/100 gal	EPOS	B						
18	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F						
18	AMS		17	lb/100 gal	LPOS	F						
19	Domain	60	10	oz/a	PRE	A	93	96	93	98	94	14.7
19	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C						
19	AMS		17	lb/100 gal	MPOS	C						
20	WeedSOFT 3 - PRE/MPOS						99	93	82	96	97	14.8
20	Boundary	6.5	2	pt/a	PRE	A						
20	Scout POST (RR)				MLPO	E						
20	Buccaneer Plus	3	32	fl oz/a	MLPO	E						
20	AMS		17	lb/100 gal	MLPO	E						
21	Sencor 75 DF	75	0.33	lb/a	PRE	A	96	97	88	89	76	14.8
21	Linex	4	1	pt/a	PRE	A						
21	Define SC	4	15	fl oz/a	PRE	A						
22	Roundup OriginalMAX	4.5	22	fl oz/a	EPOS	B	98	99	99	99	99	14.7
22	AMS		17	lb/100 gal	EPOS	B						
22	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F						
22	AMS		17	lb/100 gal	LPOS	F						
23	Prefix	5.32	1	qt/a	PRE	A	99	98	97	99	99	14.8
23	Touchdown Total	4.17	24	fl oz/a	MLPO	E						
23	AMS		8.5	lb/100 gal	MLPO	E						
24	WeedSOFT 4 - TOTAL POST						40	35	94	43	86	16.0
24	Raptor	1	4	fl oz/a	MPOS	C						
24	Cobra	2	4	fl oz/a	MPOS	C						
24	Crop Oil Concentrate		0.8	qt/a	MPOS	C						
24	AMS		2.5	lb/a	MPOS	C						
25	Weed-Free						99	99	99	99	99	14.9
25	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B						
25	AMS		17	lb/100 gal	EPOS	B						
25	Roundup WeatherMAX	4.5	22	fl oz/a	MLPO	E						
25	AMS		17	lb/100 gal	MLPO	E						
25	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F						
25	AMS		17	lb/100 gal	LPOS	F						
LSD (P=.05)							8.2	6.7	9.6	14.9	7.6	0.92
Standard Deviation							5.8	4.7	6.8	10.5	5.4	0.65
CV							6.52	5.25	7.5	11.98	5.89	4.33

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA
 yield
 bu/acre
 10/6/2006
 at 13% M

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	GLXMA yield
1	Gangster (3.6 oz/A)						52.4
1	Valor	51	3	oz/a	PRE	A	
1	FirstRate	84	0.6	oz/a	PRE	A	
1	Pendimax	3.3	2	pt/a	PRE	A	
2	Boundary	6.5	1.75	pt/a	PRE	A	58.0
2	Touchdown Total	4.17	24	fl oz/a	MLPO	E	
2	AMS		8.5	lb/100 gal	MLPO	E	
3	IntRRo	4	2	qt/a	PRE	A	63.1
3	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D	
3	AMS		17	lb/100 gal	POST	D	
4	Canopy	75	2.25	oz/a	PRE	A	54.5
4	Linex	4	1	pt/a	PRE	A	
4	Cinch	7.64	1	pt/a	PRE	A	
5	Gangster (3.6 oz/A)						53.7
5	Valor	51	3	oz/a	PRE	A	
5	FirstRate	84	0.6	oz/a	PRE	A	
5	Pendimax	3.3	2.4	pt/a	PRE	A	
6	Sencor 75 DF	75	0.4	lb/a	PRE	A	62.1
6	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C	
6	AMS		17	lb/100 gal	MPOS	C	
7	Prowl H2O	3.8	2.5	pt/a	PRE	A	46.2
7	Raptor	1	4	fl oz/a	MPOS	C	
7	Flexstar	1.88	12	fl oz/a	MPOS	C	
7	MSO		1	gal/100 gal	MPOS	C	
7	AMS		2.5	lb/a	MPOS	C	
8	Untreated						19.8
9	WeedSOFT 1 - PRE						45.9
9	Boundary	6.5	2	pt/a	PRE	A	
9	FirstRate	84	0.6	oz/a	PRE	A	
10	Extreme	2.17	3	pt/a	EPOS	B	60.2
10	Activator 90		0.25	% v/v	EPOS	B	
10	AMS		2.5	lb/a	EPOS	B	
10	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F	
10	Activator 90		0.25	% v/v	LPOS	F	
10	AMS		2.5	lb/a	LPOS	F	
11	Sencor 75 DF	75	0.4	lb/a	PRE	A	50.9
11	Pursuit	70	1	oz/a	PRE	A	
11	Define SC	4	14	fl oz/a	PRE	A	
12	Canopy	75	3	oz/a	PRE	A	56.7
12	Flexstar	1.88	1.5	pt/a	MPOS	C	
12	Assure II	0.88	8	fl oz/a	MPOS	C	
12	Crop Oil Concentrate		1	% v/v	MPOS	C	
13	Roundup WeatherMAX	4.5	22	fl oz/a	POST	D	57.2
13	AMS		17	lb/100 gal	POST	D	
14	Sequence	5.25	3.5	pt/a	EPOS	B	64.4
14	AMS		8.5	lb/100 gal	EPOS	B	
14	Touchdown Total	4.17	24	fl oz/a	LPOS	F	
14	AMS		8.5	lb/100 gal	LPOS	F	

MSU Weed Science Research Program

Comparison of Commercial Herbicide Programs in Conventional-Till Soybean 2006

Trial ID: SOY04-06
 Conducted: T-10

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA
 yield
 bu/acre
 10/6/2006
 at 13% M

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	GLXMA yield
15	Valor	51	3	oz/a	PRE	A	52.7
15	Sencor 75 DF	75	6	oz/a	PRE	A	
15	Pendimax	3.3	2	pt/a	PRE	A	
16	WeedSOFT 2 - PRE/MPOS						52.1
16	Boundary	6.5	2	pt/a	PRE	A	
16	Cobra	2	8	fl oz/a	MPOS	C	
16	Crop Oil Concentrate		0.4	qt/a	MPOS	C	
16	AMS		2.5	lb/a	MPOS	C	
17	Boundary	6.5	2.25	pt/a	PRE	A	57.7
17	Flexstar	1.88	16	fl oz/a	MPOS	C	
17	Harmony GT (50%)	50	0.12	oz/a	MPOS	C	
17	Crop Oil Concentrate		1	% v/v	MPOS	C	
18	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B	64.4
18	AMS		17	lb/100 gal	EPOS	B	
18	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F	
18	AMS		17	lb/100 gal	LPOS	F	
19	Domain	60	10	oz/a	PRE	A	62.2
19	Roundup WeatherMAX	4.5	22	fl oz/a	MPOS	C	
19	AMS		17	lb/100 gal	MPOS	C	
20	WeedSOFT 3 - PRE/MPOS						56.0
20	Boundary	6.5	2	pt/a	PRE	A	
20	Scout POST (RR)				MLPO	E	
20	Buccaneer Plus	3	32	fl oz/a	MLPO	E	
20	AMS		17	lb/100 gal	MLPO	E	
21	Sencor 75 DF	75	0.33	lb/a	PRE	A	60.1
21	Linex	4	1	pt/a	PRE	A	
21	Define SC	4	15	fl oz/a	PRE	A	
22	Roundup OriginalMAX	4.5	22	fl oz/a	EPOS	B	60.2
22	AMS		17	lb/100 gal	EPOS	B	
22	Roundup OriginalMAX	4.5	22	fl oz/a	LPOS	F	
22	AMS		17	lb/100 gal	LPOS	F	
23	Prefix	5.32	1	qt/a	PRE	A	59.8
23	Touchdown Total	4.17	24	fl oz/a	MLPO	E	
23	AMS		8.5	lb/100 gal	MLPO	E	
24	WeedSOFT 4 - TOTAL POST						47.0
24	Raptor	1	4	fl oz/a	MPOS	C	
24	Cobra	2	4	fl oz/a	MPOS	C	
24	Crop Oil Concentrate		0.8	qt/a	MPOS	C	
24	AMS		2.5	lb/a	MPOS	C	
25	Weed-Free						62.9
25	Roundup WeatherMAX	4.5	22	fl oz/a	EPOS	B	
25	AMS		17	lb/100 gal	EPOS	B	
25	Roundup WeatherMAX	4.5	22	fl oz/a	MLPO	E	
25	AMS		17	lb/100 gal	MLPO	E	
25	Roundup WeatherMAX	4.5	22	fl oz/a	LPOS	F	
25	AMS		17	lb/100 gal	LPOS	F	
LSD (P=.05)							7.01
Standard Deviation							4.96
CV							8.98