

MSU Weed Science Research Program

Weed control programs using Aim in no-till soybean

Trial ID: NTS01-15 Study Dir.: Sprague and Powell
 Conducted: Campus B-8 Investigator: Christy Sprague

Date Planted: May/28/2015 Row Spacing: 30 IN
 Variety: Asgrow 2433 No. of Reps: 4
 Population: 155,000 seeds/A % OM: 2.8
 Soil Type: Loam pH: 6.8
 Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-till

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	POANN	BLUEGRASS, ANNUAL	POA ANNUA L.
2.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)
3.	CAPBP	SHEPHERDSPURSE	CAPSELLA BURSA-PASTORIS (L.)
4.	THLAR	PENNYCRESS, FIELD	THLASPI ARVENSE L.
5.	ANGR	mainly foxtail species	SETARIA SP.
6.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
7.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May/13/2015	Jul/06/2015
Time Treated:	5:00 PM	8:30 AM
% Cloud Cover:	50	100
Air Temp., Unit:	56 F	67 F
% Relative Humidity:	52	81
Wind Speed/Unit/Dir:	4 mph NW	3 mph SE
Soil Temp., Unit:	57 F	68 F
Soil/Leaf Surface M:	2 5	5 4
Soil Moist (1=w 5=d):	2	4

Crop Stage at Each Application

	A	B
Crop Name:	GLXMA	GLXMA
Height (In.):	-	8"
Stage (L):	-	V3

Weed Stage at Each Application

	A	B
Weed 1 Name:	POANN	POANN
Height (In.):	2"	2"
Stage (L):	many	many-flwr
Weed 2 Name:	STEME	STEME
Height (In.):	8" dia	2-6" dia
Stage (L):	many	many-flwr
Weed 3 Name:	CAPBP	CAPBP
Height (In.):	13"	-
Stage (L):	many-flwr	-
Weed 4 Name:	THLAR	THLAR
Height (In.):	2-6"	-
Stage (L):	many-flwr	-
Weed 5 Name:	ANGR	ANGR
Height (In.):	-	6"
Stage (L):	-	6
Weed 6 Name:	CHEAL	CHEAL
Height (In.):	1"	2-4"
Stage (L):	cot-4	6-many
Weed 7 Name:	AMBEL	AMBEL
Height (In.):	1"	3-6"
Stage (L):	cot-4	many

Weed Density (plants/sq. ft.)

	1	2	3	4	5	6	7
Weed Name:	POANN	STEME	CAPBU	THLAR	ANGR	CHEAL	AMBEL
Density:	3	4	<1	<1	8	5	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	AIXR	11003	20"	20"	100"	19	Water	28	
B	Cub	3.8	AIXR	11003	26"	20"	100"	19	Water	28	

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Weed Code								POANN	STEME	CAPBU	THLAR
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								May/20/2015	May/20/2015	May/20/2015	May/20/2015
Trt-Eval Interval								7 DA-A	7 DA-A	7 DA-A	7 DA-A
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Authority XL	70	WG	5	oz/a	PRE	A	50	76	75	90
1	Metribuzin	75	WG	5	oz/a	PRE	A				
1	Aim	2	L	1	fl oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
1	Crop oil concentrate		L	1	% v/v	PRE	A				
1	AMS		WG	17	lb/100 gal	PRE	A				
1	Cadet	0.91	L	0.6	fl oz/a	POST	B				
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Authority First	70	WG	6.4	oz/a	PRE	A	58	71	79	91
2	Aim	2	L	1	fl oz/a	PRE	A				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
2	Crop oil concentrate		L	1	% v/v	PRE	A				
2	AMS		WG	17	lb/100 gal	PRE	A				
2	Cadet	0.91	L	0.6	fl oz/a	POST	B				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Authority MTZ	45	WG	14	oz/a	PRE	A	53	73	79	88
3	Aim	2	L	1	fl oz/a	PRE	A				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
3	Crop oil concentrate		L	1	% v/v	PRE	A				
3	AMS		WG	17	lb/100 gal	PRE	A				
3	Marvel	3	L	7.25	fl oz/a	POST	B				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Authority MTZ	45	WG	14	oz/a	PRE	A	48	80	86	89
4	Aim	2	L	1	fl oz/a	PRE	A				
4	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
4	Crop oil concentrate		L	1	% v/v	PRE	A				
4	AMS		WG	17	lb/100 gal	PRE	A				
4	Anthem MAXX	4.3	L	3	fl oz/a	POST	B				
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Metribuzin	75	WG	5	oz/a	PRE	A	48	69	85	88
5	Aim	2	L	1	fl oz/a	PRE	A				
5	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
5	Crop oil concentrate		L	1	% v/v	PRE	A				
5	AMS		WG	17	lb/100 gal	PRE	A				
5	Anthem MAXX	4.3	L	3	fl oz/a	POST	B				
5	Extreme	2.19	L	3	pt/a	POST	B				
5	Surfactant		L	0.25	% v/v	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
6	Untreated							0	0	0	0
7	Optill PRO - Optill	68	WG	2	oz/a	PRE	A	60	86	85	93
7	Optill PRO - Outlook	6	L	10	fl oz/a	PRE	A				
7	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
7	MSO		L	1	% v/v	PRE	A				
7	AMS		WG	17	lb/100 gal	PRE	A				
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				

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Trial ID: NTS01-15 Study Dir.: Sprague and Powell
 Conducted: Campus B-8 Investigator: Christy Sprague

								POANN	STEME	CAPBU	THLAR
Weed Code											
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								May/20/2015	May/20/2015	May/20/2015	May/20/2015
Trt-Eval Interval								7 DA-A	7 DA-A	7 DA-A	7 DA-A
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A	20	25	41	70
8	AMS		WG	17	lb/100 gal	PRE	A				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								8.1	11.5	16.1	13.1
CV								13.16	13.05	16.56	11.74

Means followed by same letter do not significantly differ (P=.05, LSD)

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								CHEAL	AMBEL	POANN	STEME
Weed Code											
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								May/20/2015	May/20/2015	May/27/2015	May/27/2015
Trt-Eval Interval								7 DA-A	7 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Authority XL	70	WG	5	oz/a	PRE	A	99	99	94	99
1	Metribuzin	75	WG	5	oz/a	PRE	A				
1	Aim	2	L	1	fl oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
1	Crop oil concentrate		L	1	% v/v	PRE	A				
1	AMS		WG	17	lb/100 gal	PRE	A				
1	Cadet	0.91	L	0.6	fl oz/a	POST	B				
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Authority First	70	WG	6.4	oz/a	PRE	A	99	99	99	99
2	Aim	2	L	1	fl oz/a	PRE	A				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
2	Crop oil concentrate		L	1	% v/v	PRE	A				
2	AMS		WG	17	lb/100 gal	PRE	A				
2	Cadet	0.91	L	0.6	fl oz/a	POST	B				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Authority MTZ	45	WG	14	oz/a	PRE	A	99	99	94	97
3	Aim	2	L	1	fl oz/a	PRE	A				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
3	Crop oil concentrate		L	1	% v/v	PRE	A				
3	AMS		WG	17	lb/100 gal	PRE	A				
3	Marvel	3	L	7.25	fl oz/a	POST	B				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Authority MTZ	45	WG	14	oz/a	PRE	A	99	99	93	99
4	Aim	2	L	1	fl oz/a	PRE	A				
4	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
4	Crop oil concentrate		L	1	% v/v	PRE	A				
4	AMS		WG	17	lb/100 gal	PRE	A				
4	Anthem MAXX	4.3	L	3	fl oz/a	POST	B				
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Metribuzin	75	WG	5	oz/a	PRE	A	99	99	94	96
5	Aim	2	L	1	fl oz/a	PRE	A				
5	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
5	Crop oil concentrate		L	1	% v/v	PRE	A				
5	AMS		WG	17	lb/100 gal	PRE	A				
5	Anthem MAXX	4.3	L	3	fl oz/a	POST	B				
5	Extreme	2.19	L	3	pt/a	POST	B				
5	Surfactant		L	0.25	% v/v	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
6	Untreated							0	0	0	0
7	Optill PRO - Optill	68	WG	2	oz/a	PRE	A	99	99	99	99
7	Optill PRO - Outlook	6	L	10	fl oz/a	PRE	A				
7	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
7	MSO		L	1	% v/v	PRE	A				
7	AMS		WG	17	lb/100 gal	PRE	A				
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				

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Weed Code											
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								May/20/2015	May/20/2015	May/27/2015	May/27/2015
Trt-Eval Interval								7 DA-A	7 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A	99	99	99	99
8	AMS		WG	17	lb/100 gal	PRE	A				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								0.0	0.0	4.2	3.4
CV								0.0	0.0	3.4	2.72

Means followed by same letter do not significantly differ (P=.05, LSD)

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								CAPBU	THLAR	CHEAL	AMBEL
Weed Code								control	control	control	control
Crop Code								percent	percent	percent	percent
Rating Data Type								May/27/2015	May/27/2015	May/27/2015	May/27/2015
Rating Unit								14 DA-A	14 DA-A	14 DA-A	14 DA-A
Rating Date								0	0	0	0
Trt-Eval Interval											
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Authority XL	70	WG	5	oz/a	PRE	A	99	99	99	99
1	Metribuzin	75	WG	5	oz/a	PRE	A				
1	Aim	2	L	1	fl oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
1	Crop oil concentrate		L	1	% v/v	PRE	A				
1	AMS		WG	17	lb/100 gal	PRE	A				
1	Cadet	0.91	L	0.6	fl oz/a	POST	B				
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Authority First	70	WG	6.4	oz/a	PRE	A	99	99	99	99
2	Aim	2	L	1	fl oz/a	PRE	A				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
2	Crop oil concentrate		L	1	% v/v	PRE	A				
2	AMS		WG	17	lb/100 gal	PRE	A				
2	Cadet	0.91	L	0.6	fl oz/a	POST	B				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Authority MTZ	45	WG	14	oz/a	PRE	A	99	99	99	99
3	Aim	2	L	1	fl oz/a	PRE	A				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
3	Crop oil concentrate		L	1	% v/v	PRE	A				
3	AMS		WG	17	lb/100 gal	PRE	A				
3	Marvel	3	L	7.25	fl oz/a	POST	B				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Authority MTZ	45	WG	14	oz/a	PRE	A	99	99	99	99
4	Aim	2	L	1	fl oz/a	PRE	A				
4	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
4	Crop oil concentrate		L	1	% v/v	PRE	A				
4	AMS		WG	17	lb/100 gal	PRE	A				
4	Anthem MAXX	4.3	L	3	fl oz/a	POST	B				
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Metribuzin	75	WG	5	oz/a	PRE	A	99	99	99	99
5	Aim	2	L	1	fl oz/a	PRE	A				
5	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
5	Crop oil concentrate		L	1	% v/v	PRE	A				
5	AMS		WG	17	lb/100 gal	PRE	A				
5	Anthem MAXX	4.3	L	3	fl oz/a	POST	B				
5	Extreme	2.19	L	3	pt/a	POST	B				
5	Surfactant		L	0.25	% v/v	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
6	Untreated							0	0	0	0
7	Optill PRO - Optill	68	WG	2	oz/a	PRE	A	99	99	99	99
7	Optill PRO - Outlook	6	L	10	fl oz/a	PRE	A				
7	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A				
7	MSO		L	1	% v/v	PRE	A				
7	AMS		WG	17	lb/100 gal	PRE	A				
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				

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Weed Code											
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								May/27/2015	May/27/2015	May/27/2015	May/27/2015
Trt-Eval Interval								14 DA-A	14 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A	95	97	99	99
8	AMS		WG	17	lb/100 gal	PRE	A				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								2.2	2.3	0.0	0.0
CV								1.74	1.84	0.0	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code								ANGR	CHEAL	AMBEL	GLXMA	
Crop Code								GLXMA			GLXMA	
Rating Data Type								injury	control	control	injury	
Rating Unit								percent	percent	percent	percent	
Rating Date								Jul/06/2015	Jul/06/2015	Jul/06/2015	Jul/13/2015	
Trt-Eval Interval								0 DA-B	0 DA-B	0 DA-B	7 DA-B	
# Subsamples, Dec.								0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code					
1	Authority XL	70	WG	5	oz/a	PRE	A	0	98	99	97	14
1	Metribuzin	75	WG	5	oz/a	PRE	A					
1	Aim	2	L	1	fl oz/a	PRE	A					
1	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
1	Crop oil concentrate		L	1	% v/v	PRE	A					
1	AMS		WG	17	lb/100 gal	PRE	A					
1	Cadet	0.91	L	0.6	fl oz/a	POST	B					
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
1	AMS		WG	17	lb/100 gal	POST	B					
2	Authority First	70	WG	6.4	oz/a	PRE	A	0	91	99	98	13
2	Aim	2	L	1	fl oz/a	PRE	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
2	Crop oil concentrate		L	1	% v/v	PRE	A					
2	AMS		WG	17	lb/100 gal	PRE	A					
2	Cadet	0.91	L	0.6	fl oz/a	POST	B					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Authority MTZ	45	WG	14	oz/a	PRE	A	0	94	99	96	24
3	Aim	2	L	1	fl oz/a	PRE	A					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
3	Crop oil concentrate		L	1	% v/v	PRE	A					
3	AMS		WG	17	lb/100 gal	PRE	A					
3	Marvel	3	L	7.25	fl oz/a	POST	B					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Authority MTZ	45	WG	14	oz/a	PRE	A	0	96	99	93	13
4	Aim	2	L	1	fl oz/a	PRE	A					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
4	Crop oil concentrate		L	1	% v/v	PRE	A					
4	AMS		WG	17	lb/100 gal	PRE	A					
4	Anthem MAXX	4.3	L	3	fl oz/a	POST	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Metribuzin	75	WG	5	oz/a	PRE	A	0	38	60	81	12
5	Aim	2	L	1	fl oz/a	PRE	A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
5	Crop oil concentrate		L	1	% v/v	PRE	A					
5	AMS		WG	17	lb/100 gal	PRE	A					
5	Anthem MAXX	4.3	L	3	fl oz/a	POST	B					
5	Extreme	2.19	L	3	pt/a	POST	B					
5	Surfactant		L	0.25	% v/v	POST	B					
5	AMS		WG	17	lb/100 gal	POST	B					
6	Untreated							0	0	0	0	0
7	Optill PRO - Optill	68	WG	2	oz/a	PRE	A	0	89	97	95	0
7	Optill PRO - Outlook	6	L	10	fl oz/a	PRE	A					
7	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
7	MISO		L	1	% v/v	PRE	A					
7	AMS		WG	17	lb/100 gal	PRE	A					
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					

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								ANGR	CHEAL	AMBEL	GLXMA	
								injury	control	control	control	injury
								percent	percent	percent	percent	percent
								Jul/06/2015	Jul/06/2015	Jul/06/2015	Jul/06/2015	Jul/13/2015
								0 DA-B	0 DA-B	0 DA-B	0 DA-B	7 DA-B
								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A	0	0	0	0	0
8	AMS		WG	17	lb/100 gal	PRE	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
8	AMS		WG	17	lb/100 gal	POST	B					
LSD (P=.05)								0.0	14.0	2.4	10.1	4.0
CV								0.0	15.11	2.38	9.8	28.9

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Weed control programs using Aim in no-till soybean

Trial ID: NTS01-15 Study Dir.: Sprague and Powell
 Conducted: Campus B-8 Investigator: Christy Sprague

Weed Code								ANGR	CHEAL	AMBEL	GLXMA	ANGR
Crop Code												
Rating Data Type								control	control	control	injury	control
Rating Unit								percent	percent	percent	percent	percent
Rating Date								Jul/13/2015	Jul/13/2015	Jul/13/2015	Jul/20/2015	Jul/20/2015
Trt-Eval Interval								7 DA-B	7 DA-B	7 DA-B	14 DA-B	14 DA-B
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Authority XL	70	WG	5	oz/a	PRE	A	99	99	99	5	99
1	Metribuzin	75	WG	5	oz/a	PRE	A					
1	Aim	2	L	1	fl oz/a	PRE	A					
1	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
1	Crop oil concentrate		L	1	% v/v	PRE	A					
1	AMS		WG	17	lb/100 gal	PRE	A					
1	Cadet	0.91	L	0.6	fl oz/a	POST	B					
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
1	AMS		WG	17	lb/100 gal	POST	B					
2	Authority First	70	WG	6.4	oz/a	PRE	A	98	99	99	0	99
2	Aim	2	L	1	fl oz/a	PRE	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
2	Crop oil concentrate		L	1	% v/v	PRE	A					
2	AMS		WG	17	lb/100 gal	PRE	A					
2	Cadet	0.91	L	0.6	fl oz/a	POST	B					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Authority MTZ	45	WG	14	oz/a	PRE	A	99	99	99	0	99
3	Aim	2	L	1	fl oz/a	PRE	A					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
3	Crop oil concentrate		L	1	% v/v	PRE	A					
3	AMS		WG	17	lb/100 gal	PRE	A					
3	Marvel	3	L	7.25	fl oz/a	POST	B					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Authority MTZ	45	WG	14	oz/a	PRE	A	99	99	92	1	99
4	Aim	2	L	1	fl oz/a	PRE	A					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
4	Crop oil concentrate		L	1	% v/v	PRE	A					
4	AMS		WG	17	lb/100 gal	PRE	A					
4	Anthem MAXX	4.3	L	3	fl oz/a	POST	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Metribuzin	75	WG	5	oz/a	PRE	A	87	98	88	5	99
5	Aim	2	L	1	fl oz/a	PRE	A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
5	Crop oil concentrate		L	1	% v/v	PRE	A					
5	AMS		WG	17	lb/100 gal	PRE	A					
5	Anthem MAXX	4.3	L	3	fl oz/a	POST	B					
5	Extreme	2.19	L	3	pt/a	POST	B					
5	Surfactant		L	0.25	% v/v	POST	B					
5	AMS		WG	17	lb/100 gal	POST	B					
6	Untreated							0	0	0	0	0
7	Optill PRO - Optill	68	WG	2	oz/a	PRE	A	96	99	98	0	98
7	Optill PRO - Outlook	6	L	10	fl oz/a	PRE	A					
7	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
7	MSO		L	1	% v/v	PRE	A					
7	AMS		WG	17	lb/100 gal	PRE	A					
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					

MSU Weed Science Research Program

Weed control programs using Aim in no-till soybean

Trial ID: NTS01-15 Study Dir.: Sprague and Powell
 Conducted: Campus B-8 Investigator: Christy Sprague

								ANGR	CHEAL	AMBEL	GLXMA	ANGR
								control	control	control	injury	control
								percent	percent	percent	percent	percent
								Jul/13/2015	Jul/13/2015	Jul/13/2015	Jul/20/2015	Jul/20/2015
								7 DA-B	7 DA-B	7 DA-B	14 DA-B	14 DA-B
								0	0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Stg	Code						
8	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A	85	95	90	0	99
8	AMS		WG	17	lb/100 gal	PRE	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
8	AMS		WG	17	lb/100 gal	POST	B					
LSD (P=.05)								5.4	2.0	10.5	1.0	1.0
CV								4.43	1.58	8.56	52.92	0.78

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Weed control programs using Aim in no-till soybean

Trial ID: NTS01-15 Study Dir.: Sprague and Powell
 Conducted: Campus B-8 Investigator: Christy Sprague

Weed Code								CHEAL	AMBEL	GLXMA	ANGR	CHEAL
Crop Code												
Rating Data Type								control	control	injury	control	control
Rating Unit								percent	percent	percent	percent	percent
Rating Date								Jul/20/2015	Jul/20/2015	Aug/03/2015	Aug/03/2015	Aug/03/2015
Trt-Eval Interval								14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Authority XL	70	WG	5	oz/a	PRE	A	99	99	0	98	99
1	Metribuzin	75	WG	5	oz/a	PRE	A					
1	Aim	2	L	1	fl oz/a	PRE	A					
1	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
1	Crop oil concentrate		L	1	% v/v	PRE	A					
1	AMS		WG	17	lb/100 gal	PRE	A					
1	Cadet	0.91	L	0.6	fl oz/a	POST	B					
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
1	AMS		WG	17	lb/100 gal	POST	B					
2	Authority First	70	WG	6.4	oz/a	PRE	A	99	99	0	98	99
2	Aim	2	L	1	fl oz/a	PRE	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
2	Crop oil concentrate		L	1	% v/v	PRE	A					
2	AMS		WG	17	lb/100 gal	PRE	A					
2	Cadet	0.91	L	0.6	fl oz/a	POST	B					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Authority MTZ	45	WG	14	oz/a	PRE	A	99	99	0	99	99
3	Aim	2	L	1	fl oz/a	PRE	A					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
3	Crop oil concentrate		L	1	% v/v	PRE	A					
3	AMS		WG	17	lb/100 gal	PRE	A					
3	Marvel	3	L	7.25	fl oz/a	POST	B					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Authority MTZ	45	WG	14	oz/a	PRE	A	99	96	0	99	99
4	Aim	2	L	1	fl oz/a	PRE	A					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
4	Crop oil concentrate		L	1	% v/v	PRE	A					
4	AMS		WG	17	lb/100 gal	PRE	A					
4	Anthem MAXX	4.3	L	3	fl oz/a	POST	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Metribuzin	75	WG	5	oz/a	PRE	A	99	92	0	99	99
5	Aim	2	L	1	fl oz/a	PRE	A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
5	Crop oil concentrate		L	1	% v/v	PRE	A					
5	AMS		WG	17	lb/100 gal	PRE	A					
5	Anthem MAXX	4.3	L	3	fl oz/a	POST	B					
5	Extreme	2.19	L	3	pt/a	POST	B					
5	Surfactant		L	0.25	% v/v	POST	B					
5	AMS		WG	17	lb/100 gal	POST	B					
6	Untreated							0	0	0	0	0
7	Optill PRO - Optill	68	WG	2	oz/a	PRE	A	99	99	0	96	99
7	Optill PRO - Outlook	6	L	10	fl oz/a	PRE	A					
7	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A					
7	MSO		L	1	% v/v	PRE	A					
7	AMS		WG	17	lb/100 gal	PRE	A					
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					

MSU Weed Science Research Program

Weed control programs using Aim in no-till soybean

Trial ID: NTS01-15 Study Dir.: Sprague and Powell
 Conducted: Campus B-8 Investigator: Christy Sprague

								CHEAL	AMBEL	GLXMA	ANGR	CHEAL
								control	control	injury	control	control
								percent	percent	percent	percent	percent
								Jul/20/2015	Jul/20/2015	Aug/03/2015	Aug/03/2015	Aug/03/2015
								14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
								0	0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Stg	Code						
8	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A	98	98	0	98	98
8	AMS		WG	17	lb/100 gal	PRE	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
8	AMS		WG	17	lb/100 gal	POST	B					
LSD (P=.05)								0.5	5.1	0.0	2.0	1.0
CV								0.39	4.09	0.0	1.61	0.78

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Weed control programs using Aim in no-till soybean

Trial ID: NTS01-15 Study Dir.: Sprague and Powell
 Conducted: Campus B-8 Investigator: Christy Sprague

Weed Code	AMBEL		
Crop Code		GLXMA	GLXMA
Rating Data Type	control	moisture	yield
Rating Unit	percent	percent	bu/acre
Rating Date	Aug/03/2015	Oct/21/2015	Oct/21/2015
Trt-Eval Interval	28 DA-B	107 DA-B	at 13% M
# Subsamples, Dec.	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	Authority XL	70	WG	5	oz/a	PRE	A	99	14.2	58.3
1	Metribuzin	75	WG	5	oz/a	PRE	A			
1	Aim	2	L	1	fl oz/a	PRE	A			
1	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A			
1	Crop oil concentrate		L	1	% v/v	PRE	A			
1	AMS		WG	17	lb/100 gal	PRE	A			
1	Cadet	0.91	L	0.6	fl oz/a	POST	B			
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
1	AMS		WG	17	lb/100 gal	POST	B			
2	Authority First	70	WG	6.4	oz/a	PRE	A	99	14.3	59.3
2	Aim	2	L	1	fl oz/a	PRE	A			
2	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A			
2	Crop oil concentrate		L	1	% v/v	PRE	A			
2	AMS		WG	17	lb/100 gal	PRE	A			
2	Cadet	0.91	L	0.6	fl oz/a	POST	B			
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
2	AMS		WG	17	lb/100 gal	POST	B			
3	Authority MTZ	45	WG	14	oz/a	PRE	A	99	14.1	59.7
3	Aim	2	L	1	fl oz/a	PRE	A			
3	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A			
3	Crop oil concentrate		L	1	% v/v	PRE	A			
3	AMS		WG	17	lb/100 gal	PRE	A			
3	Marvel	3	L	7.25	fl oz/a	POST	B			
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
3	AMS		WG	17	lb/100 gal	POST	B			
4	Authority MTZ	45	WG	14	oz/a	PRE	A	96	14.5	62.5
4	Aim	2	L	1	fl oz/a	PRE	A			
4	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A			
4	Crop oil concentrate		L	1	% v/v	PRE	A			
4	AMS		WG	17	lb/100 gal	PRE	A			
4	Anthem MAXX	4.3	L	3	fl oz/a	POST	B			
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
4	AMS		WG	17	lb/100 gal	POST	B			
5	Metribuzin	75	WG	5	oz/a	PRE	A	91	14.3	62.6
5	Aim	2	L	1	fl oz/a	PRE	A			
5	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A			
5	Crop oil concentrate		L	1	% v/v	PRE	A			
5	AMS		WG	17	lb/100 gal	PRE	A			
5	Anthem MAXX	4.3	L	3	fl oz/a	POST	B			
5	Extreme	2.19	L	3	pt/a	POST	B			
5	Surfactant		L	0.25	% v/v	POST	B			
5	AMS		WG	17	lb/100 gal	POST	B			
6	Untreated							0	14.6	35.7
7	Optill PRO - Optill	68	WG	2	oz/a	PRE	A	98	14.8	62.9
7	Optill PRO - Outlook	6	L	10	fl oz/a	PRE	A			
7	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A			
7	MSO		L	1	% v/v	PRE	A			
7	AMS		WG	17	lb/100 gal	PRE	A			
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
7	AMS		WG	17	lb/100 gal	POST	B			

MSU Weed Science Research Program

Weed control programs using Aim in no-till soybean

Trial ID: NTS01-15 Study Dir.: Sprague and Powell
 Conducted: Campus B-8 Investigator: Christy Sprague

Weed Code	AMBEL		
Crop Code		GLXMA	GLXMA
Rating Data Type	control	moisture	yield
Rating Unit	percent	percent	bu/acre
Rating Date	Aug/03/2015	Oct/21/2015	Oct/21/2015
Trt-Eval Interval	28 DA-B	107 DA-B	at 13% M
# Subsamples, Dec.	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code			
8	Roundup PowerMax	4.5	SL	32	fl oz/a	PRE	A	98	14.5	66.0
8	AMS		WG	17	lb/100 gal	PRE	A			
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
8	AMS		WG	17	lb/100 gal	POST	B			
LSD (P=.05)								5.7	0.36	8.07
CV								4.58	1.69	9.4

Means followed by same letter do not significantly differ (P=.05, LSD)