

MSU Weed Science Research Program

High yielding programs with BASF management systems in no-till soybean

Trial ID: NTS04-11 Study Dir.: Sprague, Powell
Conducted: C-27N Crops Investigator: Christy Sprague

Date Planted: 5/31/2011 Row Spacing: 7.5 IN
Variety: Asgrow 2330 No. of Reps: 6
Population: 200,000 seeds/A % OM: 2.5
Soil Type: Silt Loam pH: 6.5
Plot Size: 10 X 50 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-tilled into standing corn stubble
Fertilizer: None at planting

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists weeds like SHEPHERDSPURSE, DANDELION, BLUEGRASS, etc.

Application Description

Table with 4 columns: Application Timing, A, B, C. Lists details like Date Treated, Time Treated, % Cloud Cover, etc.

Crop Stage at Each Application

Table with 4 columns: Crop Name, A, B, C. Lists crop name GLXMA and stages V2, R3.

Weed Stage at Each Application

Table with 4 columns: Weed Name, A, B, C. Lists weed names and their stages/heights for each application.

Application Equipment

Table with 11 columns: Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Boom, Width, GPA, Carrier, PSI. Lists equipment details for applications A, B, and C.

Comments: *Crop injury ratings are a reflection of stunting from weed competition. There were no diseases present in this study. No differences in disease control on 7/25 or 9/16.

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Weed Code								STEME	POAAN	TAROF	CAPBP		STEME
Crop Code												GLXMA	
Rating Data Type								percent	percent	percent	percent	injury	percent
Rating Unit								control	control	control	control	control	control
Rating Date								5/23/2011	5/23/2011	5/23/2011	5/23/2011	6/27/2011	6/27/2011
Trt-Eval Interval								14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	0	0	0	0	0	0
1	AMS		WG	17	lb/100 gal	POST	B						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	76	89	44	32	0	99
2	2,4-D Ester	3.8	L	1	pt/a	7 EPP	A						
2	AMS		WG	17	lb/100 gal	7 EPP	A						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
2	AMS		WG	17	lb/100 gal	POST	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	86	95	79	86	0	98
3	OpTill	68	WG	2	oz/a	7 EPP	A						
3	MSO		L	1	% v/v	7 EPP	A						
3	AMS		WG	17	lb/100 gal	7 EPP	A						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
3	AMS		WG	17	lb/100 gal	POST	B						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	95	95	83	84	0	99
4	Optill	68	WG	2	oz/a	7 EPP	A						
4	MSO		L	1	% v/v	7 EPP	A						
4	AMS		WG	17	lb/100 gal	7 EPP	A						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
4	AMS		WG	17	lb/100 gal	POST	B						
4	Priaxor	4.17	L	4	fl oz/a	R3	C						
4	Activator 90		L	0.25	% v/v	R3	C						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	93	89	86	88	0	99
5	Optill	60	WG	2	oz/a	7 EPP	A						
5	MSO		L	1	% v/v	7 EPP	A						
5	AMS		WG	17	lb/100 gal	7 EPP	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
5	AMS		WG	17	lb/100 gal	POST	B						
5	Priaxor	4.17	L	4	fl oz/a	R3	C						
5	Fastac	0.83	L	4	fl oz/a	R3	C						
5	Activator 90		L	0.25	% v/v	R3	C						
LSD (P=.05)								17.3	4.7	19.4	10.4	0.0	0.9
Standard Deviation								14.3	3.9	16.1	8.6	0.0	0.7
CV								20.46	5.37	27.48	14.92	0.0	0.95

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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								POAAN	ERICA	TAROF	ANGR	AMBEL	CHEAL
								percent control	percent control	percent control	percent control	percent control	percent control
								6/27/2011	6/27/2011	6/27/2011	6/27/2011	6/27/2011	6/27/2011
								14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	0	0	0	0	0	0
1	AMS		WG	17	lb/100 gal	POST	B						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	89	95	88	0	0	0
2	2,4-D Ester	3.8	L	1	pt/a	7 EPP	A						
2	AMS		WG	17	lb/100 gal	7 EPP	A						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
2	AMS		WG	17	lb/100 gal	POST	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	96	98	82	63	77	75
3	OpTill	68	WG	2	oz/a	7 EPP	A						
3	MSO		L	1	% v/v	7 EPP	A						
3	AMS		WG	17	lb/100 gal	7 EPP	A						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
3	AMS		WG	17	lb/100 gal	POST	B						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	95	96	83	62	78	70
4	Optill	68	WG	2	oz/a	7 EPP	A						
4	MSO		L	1	% v/v	7 EPP	A						
4	AMS		WG	17	lb/100 gal	7 EPP	A						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
4	AMS		WG	17	lb/100 gal	POST	B						
4	Priaxor	4.17	L	4	fl oz/a	R3	C						
4	Activator 90		L	0.25	% v/v	R3	C						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	91	97	83	60	78	69
5	Optill	60	WG	2	oz/a	7 EPP	A						
5	MSO		L	1	% v/v	7 EPP	A						
5	AMS		WG	17	lb/100 gal	7 EPP	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
5	AMS		WG	17	lb/100 gal	POST	B						
5	Priaxor	4.17	L	4	fl oz/a	R3	C						
5	Fastac	0.83	L	4	fl oz/a	R3	C						
5	Activator 90		L	0.25	% v/v	R3	C						
LSD (P=.05)								8.3	5.7	4.8	2.0	3.8	8.0
Standard Deviation								6.9	4.7	4.0	1.7	3.1	6.6
CV								9.27	6.12	6.0	4.57	6.74	15.46

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Weed Code								TAROF	ANGR	CHEAL	AMBEL	GLXMA		
Crop Code								injury	percent	percent	percent	percent	yield	
Rating Data Type								control	control	control	control	bu/acre		
Rating Unit								7/11/2011	7/11/2011	7/11/2011	7/11/2011	11/1/2011		
Rating Date								63 DA-A	63 DA-A	63 DA-A	63 DA-A	at 13% M		
Trt-Eval Interval								0	0	0	0	1		
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	28	53	99	99	99	39.2	
1	AMS		WG	17	lb/100 gal	POST	B							
2	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	0	96	99	99	99	44.6	
2	2,4-D Ester	3.8	L	1	pt/a	7 EPP	A							
2	AMS		WG	17	lb/100 gal	7 EPP	A							
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B							
2	AMS		WG	17	lb/100 gal	POST	B							
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	0	94	99	99	99	46.0	
3	OpTill	68	WG	2	oz/a	7 EPP	A							
3	MSO		L	1	% v/v	7 EPP	A							
3	AMS		WG	17	lb/100 gal	7 EPP	A							
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B							
3	AMS		WG	17	lb/100 gal	POST	B							
4	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	0	95	99	99	98	46.0	
4	Optill	68	WG	2	oz/a	7 EPP	A							
4	MSO		L	1	% v/v	7 EPP	A							
4	AMS		WG	17	lb/100 gal	7 EPP	A							
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B							
4	AMS		WG	17	lb/100 gal	POST	B							
4	Priaxor	4.17	L	4	fl oz/a	R3	C							
4	Activator 90		L	0.25	% v/v	R3	C							
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	0	94	99	99	99	48.1	
5	Optill	60	WG	2	oz/a	7 EPP	A							
5	MSO		L	1	% v/v	7 EPP	A							
5	AMS		WG	17	lb/100 gal	7 EPP	A							
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B							
5	AMS		WG	17	lb/100 gal	POST	B							
5	Priaxor	4.17	L	4	fl oz/a	R3	C							
5	Fastac	0.83	L	4	fl oz/a	R3	C							
5	Activator 90		L	0.25	% v/v	R3	C							
LSD (P=.05)								2.8	7.6	0.0	0.0	1.0	2.78	
Standard Deviation								2.3	6.3	0.0	0.0	0.8	2.30	
CV								42.64	7.28	0.0	0.0	0.84	5.14	

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