

# No-Till Soybean Weed Control Studies

Southern Illinois University

No-Till Soybean Programs.

Trial ID: 11-1-MMW60

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu  
 City State Zip Country: Belleville IL 62221 USA  
 Trial Status: FINAL Initiation Date: 4-13-11

Objectives: Evaluate various burndown herbicide programs for no-till soybean production.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR  
 Planting Method: SEEDS Planting Date: 5-24-11  
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN  
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: ALOCA Alopecurus carolinianus Walt. foxtail, Carolina  
 Pest 2 Type: W Code: HORPU Hordeum pusillum Nutt. barley, little  
 Pest 3 Type: W Code: SENGL Senecio glabellus Poir. groundsel, cressleaf  
 Pest 4 Type: W Code: RANAB Ranunculus abortivus L. buttercup, smallflower  
 Pest 5 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant  
 Pest 6 Type: W Code: GGGAN Mixture of SETFA, PANDI and DIGSA grasses, annual  
 Pest 7 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common  
 Pest 8 Type: W Code: AMBEL Ambrosia artemisiifolia L. ragweed, common

Plot Width, Unit: 10 FT Site Type: FIELD  
 Plot Length, Unit: 27 FT Tillage Type: NO-TILL  
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year  
 1. ZEAMD 2010

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

% OM: 1.5 Texture: SILT LOAM  
 pH: 6.4 Soil Name: WINFIELD  
 CEC: 6 Fert. Level: P1: 72 LB/A, K: 313 LB/A

	Application Description		
	A	B	C
Application Date:	4-13-11	5-10-11	6-20-11
Time of Day:	10:00	7:00	18:00
Application Method:	Spray	Spray	Spray
Application Timing:	30-45EPP	14PP	28DAP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	RFK	RFK	LAH
Air Temperature, Unit:	65 F	72 F	85 F
% Relative Humidity:	43	97	67
Wind Velocity, Unit:	0 MPH	2 MPH	6 MPH
Wind Direction:		S	S
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	56 F	66 F	77 F
Soil Moisture:	ABONOR	ABONOR	ABONOR
% Cloud Cover:	0	0	0

Crop stage at application: 13-4-11 10-5-11 20-6-11  
 Height Min, Max (inch): NA NA V3 4 6

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	Pest Stage At Each Application					
Application Date:	4-13-11	5-10-11	6-20-11			
Weed Code:	ALOCA	ALOCA	ALOCA			
Stage Majority (leaves):	6	6	NA			
Stage Min, Max:	5 6	5 6				
Height Majority:	6 IN	8 IN				
Height Min, Max:	6 10	6 12				
Density, Unit:	0.1 FT2	0.1 FT2				
Weed Code:	HORPU	HORPU	HORPU			
Stage Majority (leaves):	4	6	NA			
Stage Min, Max:	4 5	5 6				
Height Majority:	5 IN	8 IN				
Height Min, Max:	4 6	6 12				
Density, Unit:	0.1 FT2	0.1 FT2				
Weed Code:	SENGL	SENGL	SENGL			
Stage Majority (leaves):	10+	10+	NA			
Height Majority:	12 IN	18 IN				
Height Min, Max:	10 14	12 30				
Density, Unit:	0.1 FT2	0.1 FT2				
Weed Code:	RANAB	RANAB	RANAB			
Stage Majority (leaves):	10+	10+	NA			
Height Majority:	8 IN	12 IN				
Height Min, Max:	6 12	6 12				
Density, Unit:	1 FT2	1 FT2				
Weed Code:	AMBTR	AMBTR	AMBTR			
Stage Majority (leaves):	3	6	12			
Stage Min, Max:	3 4	5 8	4 25			
Height Majority:	2 IN	4 IN	12 IN			
Height Min, Max:	1 2	3 6	3 20			
Density, Unit:	0.1 FT2	0.1 FT2	0.1 FT2			
Weed Code:	GGGAN	GGGAN	GGGAN			
Stage Majority (leaves):	NA	NA	3			
Stage Min, Max:			2 6			
Height Majority:			6 IN			
Height Min, Max:			1 15			
Density, Unit:			3 FT2			
Weed Code:	AMATA	AMATA	AMATA			
Stage Majority (leaves):	NA	NA	8			
Stage Min, Max:			1 35			
Height Majority:			8 IN			
Height Min, Max:			1 18			
Density, Unit:			0.1 FT2			
Weed Code:	AMBEL	AMBEL	AMBEL			
Stage Majority (leaves):	NA	NA	8			
Stage Min, Max:			4 10			
Height Majority:			8 IN			
Height Min, Max:			3 10			
Density, Unit:			0.01 FT2			

## Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA		ALOCA		HORPU					
							6-6-11 Injury Percent 14 DAP 27 DA-B	6-20-11 Injury Percent 28 DAP 0 DA-C	7-18-11 Injury Percent 56 DAP 28 DA-C	5-17-11 Control Percent 7 DA-B	5-24-11 Control Percent 0 DAP 14 DA-B	5-17-11 Control Percent 7 DA-B	5-24-11 Control Percent 0 DAP 14 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	ENVIVE	41.3	WG				5 oz/a	30-45EPP	A	2 bc	0 a	0 a	99 a	99 a	99 a	99 a
1	CLASSIC	25	WG	0.02856	lb ai/a			30-45EPP	A							
1	HARMONY SG	50	SG	0.00918	lb ai/a			30-45EPP	A							
1	VALOR SX	51	WG	0.09072	lb ai/a			30-45EPP	A							
1	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A							
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	30-45EPP	A							
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A							
1	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C							
1	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C							
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C							
2	ENVIVE	41.3	WG				3.5 oz/a	30-45EPP	A	3 ab	0 a	0 a	99 a	99 a	99 a	99 a
2	CLASSIC	25	WG	0.02	lb ai/a			30-45EPP	A							
2	HARMONY SG	50	SG	0.00643	lb ai/a			30-45EPP	A							
2	VALOR SX	51	WG	0.0635	lb ai/a			30-45EPP	A							
2	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A							
2	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A							
2	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A							
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A							
2	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C							
2	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C							
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C							
3	ENVIVE	41.3	WG				5 oz/a	30-45EPP	A	2 bc	0 a	0 a	99 a	99 a	99 a	99 a
3	CLASSIC	25	WG	0.02856	lb ai/a			30-45EPP	A							
3	HARMONY SG	50	SG	0.00918	lb ai/a			30-45EPP	A							
3	VALOR SX	51	WG	0.09072	lb ai/a			30-45EPP	A							
3	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A							
3	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A							
3	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A							
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A							
3	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C							
3	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C							
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C							
4	CANOPY	75	WG	0.14	lb ai/a	3	oz/a	30-45EPP	A	3 ab	0 a	0 a	99 a	99 a	99 a	99 a
4	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A							
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A							
4	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A							
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A							
4	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C							
4	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C							
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C							
5	NONTREATED									0 c	0 a	0 a	0 c	0 b	0 c	0 b
6	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B	0 c	0 a	0 a	90 b	99 a	90 b	99 a
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	14PP	B							
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B							
6	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C							
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C							
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C							
7	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B	0 c	0 a	0 a	90 b	99 a	90 b	99 a
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B							
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	14PP	B							
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B							
7	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C							
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C							
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C							
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	14PP	B	3 b	0 a	0 a	90 b	99 a	90 b	99 a
8	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B							
8	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B							
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B							
8	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C							
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C							
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C							

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Pest Code								ALOCA	ALOCA	HORPU	HORPU						
Crop Code								GLXMA	GLXMA	GLXMA							
Rating Date								6-6-11	6-20-11	7-18-11	5-17-11						
Rating Data Type								Injury	Injury	Injury	Control						
Rating Unit								Percent	Percent	Percent	Percent						
Rating Timing								14 DAP	28 DAP	56 DAP	0 DAP						
Trt-Eval Interval								27 DA-B	0 DA-C	28 DA-C	7 DA-B						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
9	SEE COMMENT 3																
9	OPTILL	68	WG	1.7	lb ai/a	2	% w/w	14PP	B								
9	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B								
9	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B								
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
9	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C								
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
10	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a	14PP	B	4 ab	0 a	0 a	90 b				
10	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				99 a				
10	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B								
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
10	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C								
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
11	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	14PP	B	4 ab	0 a	0 a	90 b				
11	PROWL H2O	3.8	CS	1.23	lb ai/a	2.6	pt/a	14PP	B				99 a				
11	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				90 b				
11	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B								
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
11	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C								
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
12	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14PP	B	6 a	0 a	0 a	99 a				
12	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	14PP	B				99 a				
12	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	14PP	B								
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	28DAP	C								
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
13	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14PP	B	3 b	0 a	0 a	99 a				
13	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	14PP	B				99 a				
13	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	14PP	B								
13	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	28DAP	C								
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14PP	B	0 c	0 a	0 a	90 b				
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				99 a				
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	14PP	B				90 b				
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C								
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	14PP	B	2 bc	0 a	0 a	90 b				
15	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				99 a				
15	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	14PP	B				90 b				
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	28DAP	C								
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14PP	B	4 ab	0 a	0 a	90 b				
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				99 a				
16	VALOR XLT	40.3	WG			3	oz/a	14PP	B								
16	VALOR SX	51	WG	0.056	lb ai/a			14PP	B								
16	CLASSIC	25	WG	0.0194	lb ai/a			14PP	B								
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C								
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
LSD (P=.05)										2.3	0.0	0.0	0.0	0.0	0.0	0.0	
Replicate F										9.922	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.0006	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										4.552	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0003	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

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Pest Code		SENGL				RANAB							
Crop Code		SENGL				RANAB							
Rating Date		5-17-11		5-24-11		5-17-11		5-24-11					
Rating Data Type		Control		Control		Control		Control					
Rating Unit		Percent		Percent		Percent		Percent					
Rating Timing		0 DAP		0 DAP		0 DAP		0 DAP					
Trt-Eval Interval		7 DA-B		14 DA-B		7 DA-B		14 DA-B					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ENVIVE	41.3	WG			5	oz/a	30-45EPP	A	99 a	99 a	99 a	99 a
1	CLASSIC	25	WG	0.02856	lb ai/a			30-45EPP	A				
1	HARMONY SG	50	SG	0.00918	lb ai/a			30-45EPP	A				
1	VALOR SX	51	WG	0.09072	lb ai/a			30-45EPP	A				
1	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A				
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	30-45EPP	A				
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A				
1	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
1	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C				
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
2	ENVIVE	41.3	WG			3.5	oz/a	30-45EPP	A	99 a	99 a	99 a	99 a
2	CLASSIC	25	WG	0.02	lb ai/a			30-45EPP	A				
2	HARMONY SG	50	SG	0.00643	lb ai/a			30-45EPP	A				
2	VALOR SX	51	WG	0.0635	lb ai/a			30-45EPP	A				
2	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A				
2	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A				
2	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A				
2	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
2	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
3	ENVIVE	41.3	WG			5	oz/a	30-45EPP	A	99 a	99 a	99 a	99 a
3	CLASSIC	25	WG	0.02856	lb ai/a			30-45EPP	A				
3	HARMONY SG	50	SG	0.00918	lb ai/a			30-45EPP	A				
3	VALOR SX	51	WG	0.09072	lb ai/a			30-45EPP	A				
3	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A				
3	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A				
3	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A				
3	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
3	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
4	CANOPY	75	WG	0.14	lb ai/a	3	oz/a	30-45EPP	A	99 a	99 a	99 a	99 a
4	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A				
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A				
4	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A				
4	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
4	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
5	NONTREATED									0 b	0 b	0 b	0 b
6	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	14PP	B				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
6	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
7	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	14PP	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
7	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
8	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				
8	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
8	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				

No-Till Soybean Programs.

Trial ID: 11-1-MMW60

Location: Belleville Res. Center

						SENGL	SENGL	RANAB	RANAB				
Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	5-17-11	5-24-11	5-17-11	5-24-11			
							Control	Control	Control	Control			
							Percent	Percent	Percent	Percent			
							0 DAP	0 DAP	0 DAP	0 DAP			
							7 DA-B	14 DA-B	7 DA-B	14 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
9	SEE COMMENT 3												
9	OPTILL	68	WG	1.7	lb ai/a	2	% w/w	14PP	B				
9	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				
9	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
9	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
10	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
10	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				
10	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
10	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
11	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
11	PROWL H2O	3.8	CS	1.23	lb ai/a	2.6	pt/a	14PP	B				
11	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				
11	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
11	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
12	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14PP	B	99 a	99 a	99 a	99 a
12	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	14PP	B				
12	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	14PP	B				
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	28DAP	C				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
13	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14PP	B	99 a	99 a	99 a	99 a
13	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	14PP	B				
13	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	14PP	B				
13	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	28DAP	C				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	14PP	B				
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C				
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
15	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				
15	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	14PP	B				
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	28DAP	C				
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				
16	VALOR XLT	40.3	WG			3	oz/a	14PP	B				
16	VALOR SX	51	WG	0.056	lb ai/a			14PP	B				
16	CLASSIC	25	WG	0.0194	lb ai/a			14PP	B				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
LSD (P=.05)										0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000

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

No-Till Soybean Programs.

Trial ID: 11-1-MMW60

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	GGGAN	GGGAN
Crop Code						
Rating Date	5-17-11	5-24-11	6-20-11	7-18-11	6-20-11	7-18-11
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing	0 DAP	28 DAP	56 DAP	28 DAP	56 DAP	56 DAP
Trt-Eval Interval	7 DA-B	14 DA-B	0 DA-C	28 DA-C	0 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	ENVIVE	41.3	WG				5 oz/a	30-45EPP	A	99 a	94 ab	90 abc	95 ab	81 a-d	94 b
1	CLASSIC	25	WG	0.02856	lb ai/a			30-45EPP	A						
1	HARMONY SG	50	SG	0.00918	lb ai/a			30-45EPP	A						
1	VALOR SX	51	WG	0.09072	lb ai/a			30-45EPP	A						
1	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A						
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	30-45EPP	A						
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A						
1	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
1	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C						
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
2	ENVIVE	41.3	WG				3.5 oz/a	30-45EPP	A	99 a	93 b	80 bcd	92 ab	71 cde	95 ab
2	CLASSIC	25	WG	0.02	lb ai/a			30-45EPP	A						
2	HARMONY SG	50	SG	0.00643	lb ai/a			30-45EPP	A						
2	VALOR SX	51	WG	0.0635	lb ai/a			30-45EPP	A						
2	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A						
2	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A						
2	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A						
2	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
2	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
3	ENVIVE	41.3	WG				5 oz/a	30-45EPP	A	99 a	96 ab	92 ab	98 a	77 a-e	95 ab
3	CLASSIC	25	WG	0.02856	lb ai/a			30-45EPP	A						
3	HARMONY SG	50	SG	0.00918	lb ai/a			30-45EPP	A						
3	VALOR SX	51	WG	0.09072	lb ai/a			30-45EPP	A						
3	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A						
3	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A						
3	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A						
3	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
3	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
4	CANOPY	75	WG	0.14	lb ai/a	3	oz/a	30-45EPP	A	99 a	98 a	94 ab	94 ab	78 a-e	97 ab
4	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A						
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A						
4	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A						
4	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
4	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
5	NONTREATED									0 d	0 c	0 e	0 c	0 g	0 c
6	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B	50 c	93 b	71 d	90 ab	37 f	97 ab
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	14PP	B						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
6	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
7	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B	50 c	98 ab	75 cd	98 a	57 ef	98 a
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B						
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	14PP	B						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
7	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	14PP	B	99 a	98 ab	87 a-d	91 ab	65 de	97 ab
8	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B						
8	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
8	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						

No-Till Soybean Programs.

Trial ID: 11-1-MMW60

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	GGGAN	GGGAN
Crop Code						
Rating Date	5-17-11	5-24-11	6-20-11	7-18-11	6-20-11	7-18-11
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing	0 DAP	28 DAP	56 DAP	28 DAP	56 DAP	56 DAP
Trt-Eval Interval	7 DA-B	14 DA-B	0 DA-C	28 DA-C	0 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
9	SEE COMMENT 3														
9	OPTILL	68	WG	1.7	lb ai/a	2	% w/w	14PP	B						
9	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B						
9	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
9	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
10	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a	14PP	B	98 b	98 ab	82 a-d	95 ab	73 b-e	97 ab
10	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B						
10	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
10	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
11	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	14PP	B	99 a	98 ab	89 abc	87 b	82 a-d	96 ab
11	PROWL H2O	3.8	CS	1.23	lb ai/a	2.6	pt/a	14PP	B						
11	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B						
11	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
11	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C						
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
12	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14PP	B	99 a	98 ab	88 abc	94 ab	82 a-d	95 ab
12	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	14PP	B						
12	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	14PP	B						
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	28DAP	C						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
13	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14PP	B	99 a	98 ab	93 ab	97 a	87 a-d	96 ab
13	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	14PP	B						
13	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	14PP	B						
13	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	28DAP	C						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14PP	B	50 c	99 a	96 a	95 ab	94 ab	98 a
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B						
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	14PP	B						
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C						
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	14PP	B	50 c	99 a	96 a	99 a	90 abc	95 ab
15	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B						
15	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	14PP	B						
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	28DAP	C						
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14PP	B	99 a	99 a	96 a	96 ab	96 a	98 a
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B						
16	VALOR XLT	40.3	WG			3	oz/a	14PP	B						
16	VALOR SX	51	WG	0.056	lb ai/a			14PP	B						
16	CLASSIC	25	WG	0.0194	lb ai/a			14PP	B						
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B						
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C						
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C						

LSD (P=.05)	1.0	5.3	15.4	8.9	22.5	3.4
Replicate F	1.000	0.981	2.460	3.853	0.218	4.567
Replicate Prob(F)	0.3806	0.3874	0.1037	0.0332	0.8058	0.0192
Treatment F	8167.831	186.500	20.168	63.120	10.213	440.562
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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



No-Till Soybean Programs.

Trial ID: 11-1-MMW60

Location: Belleville Res. Center

Pest Code				AMATA	AMATA	AMBEL	AMBEL										
Crop Code				6-20-11	7-18-11	6-20-11	7-18-11										
Rating Date				Control	Control	Control	Control										
Rating Data Type				Percent	Percent	Percent	Percent										
Rating Unit				28 DAP	56 DAP	28 DAP	56 DAP										
Rating Timing				0 DA-C	28 DA-C	0 DA-C	28 DA-C										
Trt-Eval Interval																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
1	ENVIVE	41.3	WG			5	oz/a	30-45EPP	A	56	b	88	ab	99	a	99	a
1	CLASSIC	25	WG	0.02856	lb ai/a			30-45EPP	A								
1	HARMONY SG	50	SG	0.00918	lb ai/a			30-45EPP	A								
1	VALOR SX	51	WG	0.09072	lb ai/a			30-45EPP	A								
1	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A								
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	30-45EPP	A								
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A								
1	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
1	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C								
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
2	ENVIVE	41.3	WG			3.5	oz/a	30-45EPP	A	80	ab	96	a	93	b	99	b
2	CLASSIC	25	WG	0.02	lb ai/a			30-45EPP	A								
2	HARMONY SG	50	SG	0.00643	lb ai/a			30-45EPP	A								
2	VALOR SX	51	WG	0.0635	lb ai/a			30-45EPP	A								
2	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A								
2	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A								
2	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A								
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A								
2	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
2	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C								
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
3	ENVIVE	41.3	WG			5	oz/a	30-45EPP	A	80	ab	98	a	99	a	99	a
3	CLASSIC	25	WG	0.02856	lb ai/a			30-45EPP	A								
3	HARMONY SG	50	SG	0.00918	lb ai/a			30-45EPP	A								
3	VALOR SX	51	WG	0.09072	lb ai/a			30-45EPP	A								
3	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A								
3	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A								
3	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A								
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A								
3	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
3	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C								
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
4	CANOPY	75	WG	0.14	lb ai/a	3	oz/a	30-45EPP	A	0	c	95	a	96	ab	99	a
4	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	30-45EPP	A								
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	30-45EPP	A								
4	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	30-45EPP	A								
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	30-45EPP	A								
4	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
4	SYNCHRONY XP	28.4	WG	0.00586	lb ai/a	0.33	oz/a	28DAP	C								
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
5	NONTREATED									0	c	0	c	0	c	0	c
6	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B	85	ab	94	ab	96	ab	99	a
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	14PP	B								
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
6	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C								
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
7	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B	17	c	73	b	96	ab	99	a
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B								
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	14PP	B								
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
7	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C								
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	14PP	B	83	ab	91	ab	99	a	99	a
8	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B								
8	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B								
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B								
8	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C								
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C								
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C								

## No-Till Soybean Programs.

Trial ID: 11-1-MMW60

Location: Belleville Res. Center

Pest Code		AMATA	AMATA	AMBEL	AMBEL
Crop Code					
Rating Date		6-20-11	7-18-11	6-20-11	7-18-11
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Timing		28 DAP	56 DAP	28 DAP	56 DAP
Trt-Eval Interval		0 DA-C	28 DA-C	0 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
9	SEE COMMENT 3												
9	OPTILL	68	WG	1.7	lb ai/a	2	% w/w	14PP	B				
9	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				
9	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
9	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
10	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a	14PP	B	99 a	99 a	99 a	99 a
10	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				
10	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
10	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
11	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	14PP	B	88 a	73 b	99 a	99 a
11	PROWL H2O	3.8	CS	1.23	lb ai/a	2.6	pt/a	14PP	B				
11	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	14PP	B				
11	MSO (MSO CONC)	100	SL	1	% v/v	1	% v/v	14PP	B				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
11	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP	C				
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	28DAP	C				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
12	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14PP	B	92 a	99 a	99 a	99 a
12	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	14PP	B				
12	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	14PP	B				
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	28DAP	C				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
13	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14PP	B	96 a	98 a	99 a	99 a
13	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	14PP	B				
13	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	14PP	B				
13	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	28DAP	C				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14PP	B	98 a	99 a	99 a	99 a
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				
14	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	14PP	B				
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C				
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	14PP	B	96 a	96 a	99 a	99 a
15	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				
15	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	14PP	B				
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	28DAP	C				
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14PP	B	95 a	96 a	99 a	99 a
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14PP	B				
16	VALOR XLT	40.3	WG			3	oz/a	14PP	B				
16	VALOR SX	51	WG	0.056	lb ai/a			14PP	B				
16	CLASSIC	25	WG	0.0194	lb ai/a			14PP	B				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	14PP	B				
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	C				

LSD (P=.05)

30.6 21.5 5.9 0.2

Replicate F

1.891 2.010 1.969 1.000

Replicate Prob(F)

0.1703 0.1528 0.1585 0.3806

Treatment F

11.441 11.630 152.908 88167.579

Treatment Prob(F)

0.0001 0.0001 0.0001 0.0001

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

No-Till Soybean Programs.

Trial ID: 11-1-MMW60

Location: Belleville Res. Center

Trial Comments

1. Protocol: BASF, DuPont (295), Syngenta, FMC, Dow, Valent.
2. Ratings: CI at 14, 28 and 56 DAP; WC at 7 DA-B and 0, 28 and 56 DAP.
3. Treatment 9 missing data, Optill rate was too high due to oversight.
4. DAP = Days after planting.
5. GGGAN = Annual grasses including SETFA (giant foxtail), PANDI (fall panicum) and DIGSA (large crabgrass).
6. Not harvested.