

Glyphosate-Resistant Marestail or Waterhemp Control

Southern Illinois University

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 09-DeSoto-BDtankmix Location: De Soto, IL

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
City State Zip Country: De Soto IL 62924 USA
Trial Status: FINAL Initiation Date: 05-04-09

Objectives: Evaluate the effectiveness of various tank-mix partners with Roundup PowerMax, Ignite, and Gramoxone Inteon in no-till soybean.

Crop 1: GLXMA Soybean Variety: AG 3905 Description: RR
Planting Method: SEEDS Planting Date: 05-22-09
Rate, Unit: 180000 S/A Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN
Soil Moisture: ABOVE NORMAL

Pest 1 Type: W Code: ERICA Conyza canadensis (L.) Crong. horseweed
Pest 2 Type: W Code: HORPU Hordeum pusillum Nutt. barley, little
Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
Pest Description: glyphosate-resistant waterhemp

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: NO-TILL
Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
1. GLXMA 2008

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

% OM: 2.5 Texture: SILT LOAM
pH: 6.8 Soil Name: OKAW
CEC: 12 Fert. Level: P1 88 LB/A, K 207 LB/A

	Application Description	
	A	B
Application Date:	05-04-09	06-20-09
Time of Day:	18:00	8:00
Application Method:	Spray	Spray
Application Timing:	7-14EPP	28DAP
Application Placement:	BROFOL	BROFOL
Applied By:	NVH	DKP
Air Temperature, Unit:	74 F	85 F
% Relative Humidity:	39	59
Wind Velocity, Unit:	1 MPH	1 MPH
Wind Direction:	S	W
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	73 F	77 F
Soil Moisture:	ABONOR	NORMAL
% Cloud Cover:	85	10

	05-04-09	06-20-09
Crop stage at application:	NA	V2
Height Min, Max (inch):	7	9

	Pest Stage At Each Application	
	05-04-09	06-20-09
Application Date:	05-04-09	06-20-09
Weed Code:	ERICA	ERICA
Stage Majority (leaves):	18	NA
Stage Min, Max:	4 32	
Height Majority:	4 IN	
Height Min, Max:	1 8	
Density, Unit:	2 FT2	
Weed Code:	HORPU	HORPU
Stage Majority (leaves):	FK10.5	NA
Height Majority:	14 IN	
Height Min, Max:	10 20	
Density, Unit:	70 FT2	
Weed Code:	AMATA	AMATA
Stage Majority (leaves):	NA	6
Stage Min, Max:		2 10
Height Majority:		3 IN
Height Min, Max:		1 9
Density, Unit:		2.5 FT2

	Application Equipment	
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002
Boom Length, Unit:	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 09-DeSoto-BDtankmix Location: De Soto, IL

Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval										GLXMA 11-06-09 Moisture Percent				GLXMA 11-06-09 Test wt. lb/bu	GLXMA 11-06-09 Yield bu/A	GLXMA 07-18-09 Injury Percent	ERICA 05-18-09 Control Percent	ERICA 06-19-09 Control Percent -1 DA-B	HORPU 05-18-09 Control Percent					
										28 DA-B				14 DA-A	46 DA-A	14 DA-A								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code															
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	10.7	bc	51.9	ab	41	ab	0	a	43	c	72	c	99	a	
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	11.0	bc	52.0	ab	44	ab	0	a	79	b	95	a	99	a	
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP	A															
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	10.8	bc	52.6	ab	42	ab	0	a	50	c	78	bc	99	a	
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP	A															
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	10.6	c	52.2	ab	41	ab	0	a	98	a	99	a	99	a	
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP	A															
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP	A															
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	10.9	bc	51.3	b	42	ab	0	a	88	ab	98	a	99	a	
5	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP	A															
5	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP	A															
5	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP	A															
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	10.5	c	52.0	ab	45	ab	0	a	91	ab	99	a	99	a	
6	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP	A															
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	11.0	bc	51.8	ab	45	ab	0	a	53	c	83	b	99	a	
7	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP	A															
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
8	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP	A	11.6	ab	52.6	ab	40	ab	0	a	99	a	99	a	99	a	
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
9	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP	A	10.5	c	53.2	a	42	ab	0	a	99	a	99	a	99	a	
9	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP	A															
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
10	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP	A	11.2	abc	52.5	ab	40	ab	0	a	99	a	99	a	99	a	
10	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP	A															
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															
11	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP	A	11.4	abc	52.0	ab	40	ab	0	a	99	a	99	a	99	a	
11	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP	A															
11	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP	A															
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A															
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B															
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B															

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Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval										GLXMA 11-06-09 Moisture Percent	GLXMA 11-06-09 Test wt. lb/bu	GLXMA 11-06-09 Yield bu/A	GLXMA 07-18-09 Injury Percent	ERICA 05-18-09 Control Percent	ERICA 06-19-09 Control Percent -1 DA-B	HORPU 05-18-09 Control Percent					
										28 DA-B		14 DA-A	46 DA-A	14 DA-A							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		10.6	c	52.7	ab	46	ab	0	a	99	a	99	a
12	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP A													
12	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP A													
12	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP A													
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
13	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		11.0	bc	51.7	ab	49	a	0	a	99	a	99	a
13	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP A													
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
14	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		10.9	bc	52.9	ab	47	ab	0	a	99	a	98	a
14	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP A													
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
15	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		10.5	c	52.4	ab	39	b	0	a	99	a	98	a
15	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A													
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
16	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		11.3	abc	51.2	b	39	b	0	a	99	a	99	a
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP A													
16	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A													
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
17	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		11.0	bc	51.9	ab	46	ab	0	a	99	a	98	a
17	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP A													
17	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A													
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
18	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		11.1	abc	52.0	ab	43	ab	0	a	99	a	99	a
18	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP A													
18	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A													
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
19	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		10.7	bc	52.2	ab	47	ab	0	a	99	a	99	a
19	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP A													
19	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP A													
19	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP A													
19	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A													
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
20	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		10.9	bc	51.9	ab	48	ab	0	a	93	ab	99	a
20	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP A													
20	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A													
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
21	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		11.2	abc	51.3	b	47	ab	0	a	99	a	99	a
21	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP A													
21	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A													
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A													
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B													
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B													
22	NONTREATED									12.0	a	52.2	ab	28	c	0	a	0	d	0	e

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 09-DeSoto-BDtankmix Location: De Soto, IL

										ERICA	ERICA	HORPU
Pest Code												
Crop Code												
Rating Date										11-06-09	11-06-09	05-18-09
Rating Data Type										Moisture	Test wt.	Yield
Rating Unit										Percent	lb/bu	bu/A
Rating Timing										Percent	Percent	Injury
Trt-Eval Interval										28 DA-B	14 DA-A	46 DA-A
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl				
No.	Name	Conc	Type	Rate	Unit	Rate	Rate	Unit	Stage	Code		
LSD (P=.05)										0.92	1.82	9.5
Replicate F										2.805	0.994	4.492
Replicate Prob(F)										0.0719	0.3786	0.0171
Treatment F										1.390	0.640	1.875
Treatment Prob(F)										0.1785	0.8634	0.0411
										0.0000	0.1234	1.0000
										22.597	45.428	12137.352
										0.0001	0.0001	0.0001

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

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 09-DeSoto-BDtankmix Location: De Soto, IL

										AMATA-HR	
Pest Code										AMATA-HR	AMATA-HR
Crop Code										06-19-09	07-18-09
Rating Date										Control	Control
Rating Data Type										Percent	Percent
Rating Unit										-1 DA-B	
Rating Timing										46 DA-A	28 DA-B
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP A		0 e	0 a
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP A		0 e	0 a
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP A			
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP A		38 a	0 a
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP A			
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP A		0 e	0 a
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP A			
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP A		20 bcd	0 a
5	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP A			
5	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP A			
5	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP A			
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP A		30 ab	0 a
6	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP A			
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP A		28 abc	0 a
7	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP A			
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
8	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		0 e	0 a
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
9	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		20 bcd	0 a
9	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP A			
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
10	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		28 abc	0 a
10	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP A			
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
11	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		12 de	0 a
11	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP A			
11	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 09-DeSoto-BDtankmix Location: De Soto, IL

										AMATA-HR	AMATA-HR
Pest Code										06-19-09	07-18-09
Crop Code										Control	Control
Rating Date										Percent	Percent
Rating Data Type										-1 DA-B	
Rating Unit										46 DA-A	28 DA-B
Rating Timing											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		15 cd	0 a
12	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP A			
12	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP A			
12	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP A			
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
13	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		25 a-d	0 a
13	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP A			
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
14	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		37 a	0 a
14	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP A			
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
15	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		0 e	0 a
15	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
16	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		0 e	0 a
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP A			
16	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
17	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		25 a-d	0 a
17	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP A			
17	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
18	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		0 e	0 a
18	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP A			
18	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
19	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		17 bcd	0 a
19	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP A			
19	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP A			
19	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP A			
19	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
20	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		20 bcd	0 a
20	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP A			
20	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
21	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		13 de	0 a
21	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP A			
21	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7-14EPP A			
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A			
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B			
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B			
22	NONTREATED									0 e	0 a

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 09-DeSoto-BDtankmix Location: De Soto, IL

Pest Code	AMATA-HR	AMATA-HR
Crop Code		
Rating Date	06-19-09	07-18-09
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Timing	-1 DA-B	
Trt-Eval Interval	46 DA-A	28 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
LSD (P=.05)									
Replicate F									
Replicate Prob(F)									
Treatment F									
Treatment Prob(F)									

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

Trial Comments

1. Protocol: ISA.
2. Ratings: WC at 14 da A and CI/WC at 0 + 28 da B.
3. DA-A = Days after 7-14EPP application.
4. AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
5. Harvested 11-6-09, (2) 30 inch rows by 27 ft.