

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 10-DSO-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: 04-28-10

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 4404 Description: RR/STS
 Planting Method: SEEDED Planting Date: 05-08-10
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: ERICA Conyza canadensis (L.) Crong. horseweed
 Pest 2 Type: W Code: CERVU Cerastium vulgatum L. chickweed, mouseear
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest Description: glyphosate-resistant waterhemp
 Pest 4 Type: W Code: PANDI Panicum dichotomiflorum Michx. panicum, fall

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 2009

Field Prep./Maintenance: N 13 LB/A, P205 34 LB/A, K20 92 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:	04-28-10	06-03-10
Time of Day:	13:15	10:00
Application Method:	Spray	Spray
Application Timing:	7-14EPP	28DAP
Application Placement:	BROFOL	BROFOL
Applied By:	DKP	JRK
Air Temperature, Unit:	83 F	80 F
% Relative Humidity:	30	67
Wind Velocity, Unit:	2 MPH	3 MPH
Wind Direction:	SW	SE
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	64 F	79 F
Soil Moisture:	ABONOR	NORMAL
% Cloud Cover:	60	50

	A	B
Crop stage at application:	NA	V2-V3
Height Min, Max (inch):	4	8

Pest Stage At Each Application

	A	B
Application Date:	04-28-10	06-03-10
Weed Code:	ERICA	ERICA
Stage Majority (leaves):	14	30
Stage Min, Max:	4 22	4 50
Height Majority:	5 IN	8 IN
Height Min, Max:	0.5 8	1 16
Density, Unit:	2 FT2	1 FT2
Weed Code:	CERVU	CERVU
Stage Majority (leaves):	80	NA
Stage Min, Max:	20 100	
Height Majority:	10 IN	
Height Min, Max:	6 12	
Density, Unit:	5 FT2	
Weed Code:	AMATA	AMATA
Stage Majority (leaves):	COTY	14
Stage Min, Max:	COTY 1	C 20
Height Majority:	0.25 IN	7 IN
Height Min, Max:	0.25 0.5	0.25 10
Density, Unit:	1 FT2	40 FT2
Weed Code:	PANDI	PANDI
Stage Majority (leaves):	NA	4
Stage Min, Max:		1 6
Height Majority:		5 IN
Height Min, Max:		2 8
Density, Unit:		2 FT2

Application Equipment

	A	B
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: 10-DSO-BDtankmix

Location: De Soto, IL

										GLXMA			ERICA		ERICA	ERICA	CERVU	
										09-22-10	06-03-10	07-01-10	05-12-10	06-03-10	07-01-10	05-12-10		
										Yield	Injury	Injury	Control	Control	Control	Control		
										bu/A	Percent	Percent	Percent	Percent	Percent	Percent		
										36 DA-A	36 DA-A	28 DA-B	14 DA-A	36 DA-A	28 DA-B	14 DA-A		
										0 DA-B	0 DA-B	28 DA-B	14 DA-A	0 DA-B	28 DA-B	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	28 a	0 a	0 a	79 d	56 d	50 h	99 a		
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A									
1	ROUNDUP POWERMAX	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	29 a	0 a	0 a	93 c	92 a	85 bc	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 POWERMAX	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	26 a	0 a	0 a	70 e	61 cd	65 fg	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 POWERMAX	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	27 a	0 a	0 a	99 a	93 a	95 a	99 a		
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP	A									
4	COC (PRIME OIL)	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 POWERMAX	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	33 a	0 a	0 a	68 e	73 b	72 def	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 POWERMAX	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	31 a	0 a	0 a	70 e	72 bc	73 def	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 POWERMAX	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	30 a	0 a	0 a	68 e	61 cd	60 g	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 POWERMAX	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	30 a	0 a	0 a	93 bc	68 bc	57 gh	99 a		
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A									
8	ROUNDUP POWERMAX	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	29 a	0 a	0 a	99 a	94 a	92 ab	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 POWERMAX	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	29 a	0 a	0 a	93 bc	62 bcd	70 ef	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 POWERMAX	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	30 a	0 a	0 a	99 a	93 a	96 a	99 a		
11	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP	A									
11	COC (PRIME OIL)	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 POWERMAX	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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Location: De Soto, IL

										GLXMA			ERICA	ERICA	ERICA	CERVU
Pest Code										09-22-10	06-03-10	07-01-10	05-12-10	06-03-10	07-01-10	05-12-10
Crop Code										Yield	Injury	Injury	Control	Control	Control	Control
Rating Date										bu/A	Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type											36 DA-A	28 DA-B	14 DA-A	36 DA-A	28 DA-B	14 DA-A
Rating Unit																
Rating Timing																
Trt-Eval Interval											0 DA-B			0 DA-B	28 DA-B	14 DA-A
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	33 a	0 a	0 a	96 abc	95 a	95 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 POWERMAX	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	30 a	0 a	0 a	98 a	95 a	97 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 POWERMAX	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	29 a	0 a	0 a	96 abc	87 a	77 cde	99 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 POWERMAX	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	26 a	0 a	0 a	98 ab	93 a	84 bc	99 a
15	COC (PRIME OIL)	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 POWERMAX	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	28 a	0 a	0 a	99 a	89 a	92 ab	99 a
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP	A							
16	COC (PRIME OIL)	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 POWERMAX	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	29 a	0 a	0 a	97 abc	91 a	85 bc	99 a
17	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP	A							
17	COC (PRIME OIL)	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 POWERMAX	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	29 a	0 a	0 a	98 a	94 a	96 a	99 a
18	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP	A							
18	COC (PRIME OIL)	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 POWERMAX	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	28 a	0 a	0 a	97 ab	95 a	96 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	COC (PRIME OIL)	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 POWERMAX	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	32 a	0 a	0 a	97 abc	96 a	97 a	99 a
20	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP	A							
20	COC (PRIME OIL)	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 POWERMAX	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	31 a	0 a	0 a	95 abc	88 a	80 cd	99 a
21	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP	A							
21	COC (PRIME OIL)	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 POWERMAX	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									8 b	0 a	0 a	0 f	0 e	0 i	0 b

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 10-DSO-BDtankmix Location: De Soto, IL

Pest Code		Crop Code		Rating Date		Rating Data Type		Rating Unit		Rating Timing		Trt-Eval Interval		GLXMA		GLXMA		GLXMA		ERICA		ERICA		ERICA		CERVU	
09-22-10		06-03-10		07-01-10		05-12-10		06-03-10		07-01-10		05-12-10		Yield		Injury		Injury		Control		Control		Control		Control	
bu/A		Percent		Percent		Percent		Percent		Percent		Percent		36 DA-A		36 DA-A		28 DA-B		14 DA-A		0 DA-B		28 DA-B		14 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code																		
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	34	a	0	a	0	a	69	e	73	b	85	bc	99	a				
23	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP	A																		
23	VALOR SX	51	WG	0.0653	lb ai/a			7-14EPP	A																		
23	CLASSIC	25	WG	0.0227	lb ai/a			7-14EPP	A																		
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A																		
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B																		
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B																		
24	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP	A	30	a	0	a	0	a	98	ab	95	a	86	bc	99	a				
24	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP	A																		
24	VALOR SX	51	WG	0.0653	lb ai/a			7-14EPP	A																		
24	CLASSIC	25	WG	0.0227	lb ai/a			7-14EPP	A																		
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A																		
24	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B																		
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B																		
25	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP	A	30	a	0	a	0	a	96	abc	92	a	96	a	99	a				
25	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP	A																		
25	VALOR SX	51	WG	0.0653	lb ai/a			7-14EPP	A																		
25	CLASSIC	25	WG	0.0227	lb ai/a			7-14EPP	A																		
25	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP	A																		
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A																		
25	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B																		
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B																		
LSD (P=.05)										7.6		0.0		0.0		4.5		12.1		9.0		0.0					
Replicate F										0.492		0.000		0.000		1.108		0.004		4.389		0.000					
Replicate Prob(F)										0.6144		1.0000		1.0000		0.3387		0.9960		0.0180		1.0000					
Treatment F										3.207		0.000		0.000		184.512		25.548		46.669		0.000					
Treatment Prob(F)										0.0003		1.0000		1.0000		0.0001		0.0001		0.0001		1.0000					

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

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 10-DSO-BDtankmix

Location: De Soto, IL

Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval									AMATA-HR	AMATA-HR	AMATA-HR	PANDI	PANDI	
									05-12-10 Control Percent	06-03-10 Control Percent 36 DA-A 0 DA-B	07-01-10 Control Percent 28 DA-B	06-03-10 Control Percent 36 DA-A 0 DA-B	07-01-10 Control Percent 28 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	ROUNDUP POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		7-14EPP A		0 g	0 e	3 fg	0 g	99 a
1	N-PAK AMS	100 SL		5 % v/v		5 % v/v		7-14EPP A						
1	ROUNDUP POWERMAX	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 POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		7-14EPP A		0 g	0 e	0 g	10 fg	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 POWERMAX	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 POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		7-14EPP A		53 cd	38 b	20 def	33 def	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 POWERMAX	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 POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		7-14EPP A		0 g	0 e	0 g	0 g	99 a
4	SHARPEN	2.85 SC		0.0223 lb ai/a		1 oz/a		7-14EPP A						
4	COC (PRIME OIL)	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 POWERMAX	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 POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		7-14EPP A		0 g	0 e	0 g	75 abc	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 POWERMAX	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 POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		7-14EPP A		43 de	27 bcd	12 efg	47 cde	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 POWERMAX	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 POWERMAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		7-14EPP A		70 bc	33 bc	53 ab	72 abc	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 POWERMAX	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 g	0 e	0 g	53 bcd	99 a
8	N-PAK AMS	100 SL		5 % v/v		5 % v/v		7-14EPP A						
8	ROUNDUP POWERMAX	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		0 g	0 e	0 g	0 g	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 POWERMAX	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		78 ab	30 bc	42 bc	47 cde	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 POWERMAX	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		0 g	0 e	0 g	3 g	99 a
11	SHARPEN	2.85 SC		0.0223 lb ai/a		1 oz/a		7-14EPP A						
11	COC (PRIME OIL)	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 POWERMAX	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: 10-DSO-BDtankmix

Location: De Soto, IL

Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval									AMATA-HR	AMATA-HR	AMATA-HR	PANDI	PANDI	
									05-12-10 Control Percent	06-03-10 Control Percent 36 DA-A 0 DA-B	07-01-10 Control Percent 28 DA-B	06-03-10 Control Percent 36 DA-A 0 DA-B	07-01-10 Control Percent 28 DA-B	
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	A	0 g	0 e	3 fg	53 bcd	99 a
12	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP A	A					
12	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP A	A					
12	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP A	A					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
13	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A	A	10 fg	13 de	27 cde	23 efg	99 a
13	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP A	A					
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
14	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A	A	60 cd	18 cd	5 fg	75 abc	99 a
14	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP A	A					
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
15	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A	A	0 g	0 e	0 g	15 fg	99 a
15	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP A	A					
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
16	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A	A	0 g	0 e	0 g	3 g	99 a
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP A	A					
16	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP A	A					
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
17	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A	A	33 e	13 de	10 efg	53 bcd	99 a
17	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP A	A					
17	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP A	A					
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
17	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
18	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A	A	0 g	0 e	13 efg	17 fg	99 a
18	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP A	A					
18	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP A	A					
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
18	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
19	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A	A	0 g	0 e	15 efg	92 a	99 a
19	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP A	A					
19	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP A	A					
19	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP A	A					
19	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP A	A					
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
20	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A	A	27 ef	22 cd	37 bcd	37 def	99 a
20	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP A	A					
20	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP A	A					
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
20	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
21	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A	A	91 a	55 a	37 bcd	78 ab	99 a
21	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP A	A					
21	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP A	A					
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A	A					
21	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B	B					
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B	B					
22	NONTREATED									0 q	0 e	0 q	0 q	0

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 10-DSO-BDtankmix Location: De Soto, IL

									AMATA-HR	AMATA-HR	AMATA-HR	PANDI	PANDI
Pest Code									05-12-10	06-03-10	07-01-10	06-03-10	07-01-10
Crop Code									Control	Control	Control	Control	Control
Rating Date									Percent	Percent	Percent	Percent	Percent
Rating Data Type										36 DA-A		36 DA-A	
Rating Unit													
Rating Timing													
Trt-Eval Interval									14 DA-A	0 DA-B	28 DA-B	0 DA-B	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP A		95 a	66 a	67 a	88 a
23	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP A					99 a
23	VALOR SX	51	WG	0.0653	lb ai/a			7-14EPP A					
23	CLASSIC	25	WG	0.0227	lb ai/a			7-14EPP A					
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A					
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B					
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B					
24	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP A		96 a	57 a	45 bc	77 ab
24	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP A					99 a
24	VALOR SX	51	WG	0.0653	lb ai/a			7-14EPP A					
24	CLASSIC	25	WG	0.0227	lb ai/a			7-14EPP A					
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A					
24	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B					
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B					
25	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP A		95 a	65 a	40 bc	88 a
25	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP A					99 a
25	VALOR SX	51	WG	0.0653	lb ai/a			7-14EPP A					
25	CLASSIC	25	WG	0.0227	lb ai/a			7-14EPP A					
25	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP A					
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP A					
25	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP B					
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP B					
LSD (P=.05)									18.1	15.8	19.7	29.1	0.0
Replicate F									0.538	0.494	0.717	0.116	0.000
Replicate Prob(F)									0.5873	0.6137	0.4934	0.8907	1.0000
Treatment F									35.575	17.127	8.585	10.338	0.000
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	1.0000

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. Yield if possible.
4. AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
DAP = Days after planting.
5. By 6-3-10 CERVU was senescing naturally in the nontreated plots and could no longer be evaluated.
6. Harvested 9-25-10, (2) 30 inch rows by 26.5 ft.