

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 10-YRC-BDtankmix Location: Young Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Murphysboro IL 62966 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 4005 Description: RR
 Planting Method: SEEDED Planting Date: 05-06-10
 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 Description: glyphosate-resistant marestalk
 Pest 2 Type: W Code: HORPU Hordeum pusillum Nutt. barley, little
 Pest 3 Type: W Code: AMASS Amaranthus species amaranthus species
 Pest 4 Type: W Code: GGGAN grasses, annual

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 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A

% OM: 2.1 Texture: VERY FINE SANDY LOAM
 pH: 5 Soil Name: ALVIN
 CEC: 9 Fert. Level: P1 133 LB/A, K 209 LB/A

Application Description

	A	B
Application Date:	04-28-10	06-02-10
Time of Day:	11:30	21:45
Application Method:	Spray	Spray
Application Timing:	7-14EPP	28DAP
Application Placement:	BROFOL	BROFOL
Applied By:	NVH	JRK
Air Temperature, Unit:	68 F	73 F
% Relative Humidity:	32	83
Wind Velocity, Unit:	3 MPH	3 MPH
Wind Direction:	NW	SW
Dew Presence (Y/N):	N	Y
Soil Temperature, Unit:	68 F	75 F
Soil Moisture:	NORMAL	ABONOR
% Cloud Cover:	25	95

	A	B
Crop stage at application:	NA	V2
Height Min, Max (inch):	4	5

Pest Stage At Each Application

	A	B
Application Date:	04-28-10	06-02-10
Weed Code:	ERICA	ERICA
Stage Majority (leaves):	12	20
Stage Min, Max:	COTY 30	COTY 30
Height Majority:	4.5 IN	8 IN
Height Min, Max:	0.5 8	0.5 10
Density, Unit:	1 FT2	2 FT2
Weed Code:	HORPU	HORPU
Stage Majority (leaves):	125	NA
Stage Min, Max:	75	200
Height Majority:	12 IN	
Height Min, Max:	10 17	
Density, Unit:	0.2 FT2	
Weed Code:	AMASS	AMASS
Stage Majority (leaves):	1	14
Stage Min, Max:	COTY 3	1 24
Height Majority:	1 IN	6 IN
Height Min, Max:	0.5 1.5	0.5 10
Density, Unit:	0.01 FT2	1 FT2
Weed Code:	GGGAN	GGGAN
Stage Majority (leaves):	2	4
Stage Min, Max:	COTY 4	3 5
Height Majority:	2 IN	4 IN
Height Min, Max:	0.5 6	2 6
Density, Unit:	0.01 FT2	1 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-YRC-BDtankmix

Location: Young Res. Center

Pest Code												ERICA-HR		ERICA-HR		ERICA-HR	
Crop Code												05-12-10		06-02-10		06-30-10	
Rating Date												Control		Control		Control	
Rating Data Type												Percent		Percent		Percent	
Rating Unit												35 DA-A		35 DA-A		35 DA-A	
Rating Timing												0 DA-B		0 DA-B		0 DA-B	
Trt-Eval Interval												14 DA-A		14 DA-A		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	52	ab	0	a	0	a	70	e
1	N-PAK AMS	100 SL		5	% v/v	5	% v/v	7-14EPP	A							75	hij
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	55	ab	0	a	0	a	93	a
2	2,4-D LV 4	3.8 EC		0.475	lb ae/a	1	pt/a	7-14EPP	A							91	a-d
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	ab	0	a	0	a	78	d
3	VALOR SX	51 WG		0.064	lb ai/a	2	oz/a	7-14EPP	A							72	jk
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	56	ab	0	a	0	a	96	a
4	SHARPEN	2.85 SC		0.0223	lb ai/a	1	oz/a	7-14EPP	A							88	b-e
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	55	ab	0	a	0	a	83	cd
5	CANOPY EX	29.5 WG				1.1	oz/a	7-14EPP	A							89	a-e
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	54	ab	0	a	0	a	78	d
6	AUTHORITY FIRST	70 WG		0.14	lb ai/a	3.2	oz/a	7-14EPP	A							86	d-g
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	51	ab	0	a	0	a	72	e
7	PREFIX	5.29 EC		1.32	lb ai/a	2	pt/a	7-14EPP	A							66	k
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	56	ab	0	a	0	a	93	ab
8	N-PAK AMS	100 SL		5	% v/v	5	% v/v	7-14EPP	A							78	g-j
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	59	a	0	a	0	a	98	a
9	2,4-D LV 4	3.8 EC		0.475	lb ae/a	1	pt/a	7-14EPP	A							90	a-d
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	49	b	0	a	0	a	95	a
10	VALOR SX	51 WG		0.064	lb ai/a	2	oz/a	7-14EPP	A							74	ij
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	55	ab	0	a	0	a	97	a
11	SHARPEN	2.85 SC		0.0223	lb ai/a	1	oz/a	7-14EPP	A							89	a-e
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-YRC-BDtankmix

Location: Young Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 10-06-10 Yield bu/A	GLXMA 06-02-10 Injury Percent 35 DA-A 0 DA-B	GLXMA 06-30-10 Injury Percent 28 DA-B	ERICA-HR 05-12-10 Control Percent 14 DA-A	ERICA-HR 06-02-10 Control Percent 35 DA-A 0 DA-B	ERICA-HR 06-30-10 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	53	ab	0 a
12	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP	A			0 a
12	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP	A			0 a
12	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP	A			97 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	55	ab	0 a
13	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP	A			0 a
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A			97 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	56	ab	0 a
14	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP	A			0 a
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A			96 a
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B			87 def
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B			89 b-e
15	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP	A	52	ab	0 a
15	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP	A			0 a
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A			94 a
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B			86 d-g
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B			88 b-f
16	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7-14EPP	A	54	ab	0 a
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14EPP	A			0 a
16	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP	A			97 a
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A			90 a-d
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B			89 b-e
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	49	b	0 a
17	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14EPP	A			0 a
17	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP	A			96 a
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A			79 f-j
17	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B			82 efg
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	53	ab	0 a
18	SHARPEN	2.85	SC	0.0223	lb ai/a	1	oz/a	7-14EPP	A			0 a
18	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP	A			96 a
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A			88 cde
18	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B			90 a-e
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	49	b	0 a
19	CANOPY EX	29.5	WG			1.1	oz/a	7-14EPP	A			0 a
19	CLASSIC	25	WG	0.0156	lb ai/a			7-14EPP	A			88 bc
19	EXPRESS	50	SG	0.00468	lb ai/a			7-14EPP	A			81 e-i
19	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP	A			80 fgh
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	52	ab	0 a
20	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP	A			0 a
20	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP	A			86 c
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A			84 d-g
20	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B			90 a-d
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	57	ab	0 a
21	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7-14EPP	A			0 a
21	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7-14EPP	A			94 a
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14EPP	A			83 d-h
21	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	B			85 def
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28DAP	B			
22	NONTREATED									18	c	0 a
											0 a	0 a
										0	f	0 i
											0 i	

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 10-YRC-BDtankmix Location: Young Res. Center

Pest Code												ERICA-HR		ERICA-HR		ERICA-HR	
Crop Code												10-06-10		06-02-10		06-30-10	
Rating Date												Yield		Injury		Injury	
Rating Data Type												bu/A		Percent		Percent	
Rating Unit														35 DA-A		28 DA-B	
Rating Timing														0 DA-B		14 DA-A	
Trt-Eval Interval														0 DA-B		35 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		52	ab	0	a	0	a	87	c
23	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP A								83	d-g
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		53	ab	0	a	0	a	97	a
24	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP A								96	abc
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		51	ab	0	a	0	a	88	bc
25	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP A								85	d-g
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)										8.7		0.0		0.0		5.4	
Replicate F										10.695		0.000		0.000		2.727	
Replicate Prob(F)										0.0001		1.0000		1.0000		0.0756	
Treatment F										5.929		0.000		0.000		109.254	
Treatment Prob(F)										0.0001		1.0000		1.0000		0.0001	

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

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Location: Young Res. Center

Pest Code									HORPU	AMASS	AMASS	AMASS	GGGAN	GGGAN	
Crop Code									05-12-10	05-12-10	06-02-10	06-30-10	06-02-10	06-30-10	
Rating Date									Control	Control	Control	Control	Control	Control	
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit											35 DA-A		35 DA-A		
Rating Timing															
Trt-Eval Interval									14 DA-A	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						
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14EPP	A	99 a	0 e	0 j	79 c	0 g	95 bc
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	99 a	3 e	0 j	97 ab	0 g	95 bc
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	99 a	92 ab	49 cde	98 ab	50 ef	95 bc
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	99 a	63 d	27 f-i	98 ab	13 g	95 c
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	99 a	93 ab	58 bcd	98 ab	96 a	97 abc
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	99 a	94 ab	76 ab	99 a	82 abc	97 abc
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	99 a	93 ab	61 bc	99 a	68 cde	97 abc
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	86 de	0 e	0 j	99 a	0 g	97 abc
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	86 de	0 e	0 j	98 ab	0 g	98 ab
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	89 bc	93 ab	40 d-g	99 a	40 f	98 abc
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	86 de	57 d	18 hij	99 a	0 g	96 abc
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-YRC-BDtankmix

Location: Young Res. Center

Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval									HORPU	AMASS	AMASS	AMASS	GGGAN	GGGAN							
									05-12-10 Control Percent	05-12-10 Control Percent	06-02-10 Control Percent 35 DA-A	06-30-10 Control Percent	06-02-10 Control Percent 35 DA-A	06-30-10 Control Percent							
									14 DA-A	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												
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7-14EPP	A	88	bcd	92	ab	48	cde	96	ab	80	abc	97	abc
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	89	b	96	ab	60	bcd	99	a	7	g	97	abc
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	90	b	87	bc	45	c-f	99	a	40	f	98	ab
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	86	de	0	e	0	j	96	ab	40	f	95	c
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	87	cde	0	e	0	j	85	bc	13	g	98	ab
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	89	bc	99	a	22	ghi	99	a	57	def	96	abc
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	85	e	78	c	10	ij	97	ab	3	g	96	abc
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	85	e	92	ab	37	e-h	98	ab	90	ab	98	abc
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												
20	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP	A	84	e	78	c	40	d-g	99	a	63	cde	96	abc
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	87	cde	97	ab	52	cde	99	a	73	bcd	98	abc
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									0	f	0	e	0	i	0	d	0	q	0	d

No-Till Burndown Tank-Mixtures for Soybean.

Trial ID: 10-YRC-BDTankmix

Location: Young Res. Center

								HORPU	AMASS	AMASS	AMASS	GGGAN	GGGAN
Pest Code								05-12-10	05-12-10	06-02-10	06-30-10	06-02-10	06-30-10
Crop Code								Control	Control	Control	Control	Control	Control
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type										35 DA-A		35 DA-A	
Rating Unit													
Rating Timing													
Trt-Eval Interval								14 DA-A	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		99 a	98 a	85 a	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	89 bc	98 a	86 a	99 a	88 ab
24	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP A					98 abc
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	85 e	98 a	82 a	99 a	93 a
25	VALOR XLT	40.3	WG			3.5	oz/a	7-14EPP A					97 abc
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)								2.6	11.0	20.1	13.5	19.6	3.0
Replicate F								1.742	0.749	8.475	0.725	1.264	3.566
Replicate Prob(F)								0.1860	0.4783	0.0007	0.4894	0.2918	0.0360
Treatment F								457.692	118.431	17.924	17.713	29.522	331.071
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)

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. ERICA-HR = Herbicide-resistant marestail (glyphosate).
AMASS = Amaranth species including AMATA (common waterhemp) and AMARE (redroot pigweed).
GGGAN = Annual grasses including 75% PANDI (fall panicum) and 25% DIGSA (large crabgrass).
5. Weed control control ratings for AMASS and GGGAN on 6-2-10 (0 DA-B) are residual control.
6. By 6-2-10 HORPU was senescing naturally in the nontreated plots and could no longer be evaluated.
- 7 Harvested 10-6-10, (2) 30 inch rows by 26.5 ft.