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Evaluate Tricor & Storm in a weed management program in Roundup Ready Soybeans in Ohio

Trial ID: 13UPI Location: WESTERN BRANCH G-8 Trial Year: 2013
 Protocol ID: 13UPI Investigator: Dr. Mark M. Loux
 Project ID: Tcr-06-US-OH-13-25TLE Study Director: Anthony F. Dobbels
 Sponsor Contact: Tony Estes, UPI

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Seed Consultants SC9362RR **BBCH Scale:** BSOY
Description: RR

Planting Rate, Unit: 150000 s/a
Depth, Unit: 0.5 in
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 56 F
Soil Moisture: SLIWET slightly wet, moist
Seed Bed: MEDTRA medium/trashy

Planting Date: May-6-2013
Planting Method: PLANTD planted
Planting Equipment: PP Plot Planter
Emergence Date: May-20-2013

Pest Description

Pest 1 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed

Pest 2 Type: W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel

Pest 3 Type: W **Code:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse

Pest 4 Type: W **Code:** RANAB *Ranunculus abortivus*
Common Name: Smallflower buttercup

Pest 5 Type: W **Code:** ERPSS *Erophila* sp.
Common Name: Whitlowgrass

Pest 6 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 7 Type: W **Code:** SENGL *Senecio glabellus*
Common Name: Cressleaf groundsel

Pest 8 Type: W **Code:** VERAR *Veronica arvensis*
Common Name: Corn speedwell

Pest 9 Type: W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 8
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: G-8
% OM: 2 **Texture:** SICL silty clay loam
pH: 6.1 **Soil Name:** Kokomo
CEC: 14.9 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date:	Apr-22-2013	Jun-4-2013
Appl. Start Time:	1:00 P.M.	9:00 AM
Appl. Stop Time:	1:20 PM	9:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	7 EPP	POST
Application Placement:	BROFOL	BROFOL
Applied By:	Ackley	DOBBELS
Air Temperature, Unit:	62 F	61 F
% Relative Humidity:	49	58
Wind Velocity, Unit:	3 MPH	1 MPH
Wind Direction:	ESE	SE
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	51 F	58 F
Soil Moisture:	MOIST	NORMAL
% Cloud Cover:	0	10
Next Moisture Occurred On:	Apr-24-2013	Jun-6-2013
Time to Next Moisture, Unit:	2 DAY	2 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		14 100
Diameter, Unit:		8 IN
Height, Unit:		6 8

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	67 100	
Diameter, Unit:	8 IN	
Height, Unit:	1 IN	
Height Minimum, Maximum:	0.5 1	
Density, Unit:	41.2 M2	
Pest 2 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	67 100	
Diameter, Unit:	2 IN	
Height, Unit:	3 IN	
Height Minimum, Maximum:	2 3	
Density, Unit:	41.2 M2	
Pest 3 Code, Type, Scale:	CAPBP W	CAPBP W
Stage Majority, Percent:	67 100	
Diameter, Unit:	3 IN	
Height, Unit:	10 IN	
Height Minimum, Maximum:	10 12	
Density, Unit:	12 M2	
Pest 4 Code, Type, Scale:	RANAB W	RANAB W
Stage Majority, Percent:	19 100	
Diameter, Unit:	3 IN	
Height, Unit:	3 IN	
Height Minimum, Maximum:	2 3	
Density, Unit:	16 M2	
Pest 5 Code, Type, Scale:	ERPSS W	ERPSS W
Stage Majority, Percent:	69 100	
Diameter, Unit:	2 IN	
Height, Unit:	4 IN	
Height Minimum, Maximum:	2 4	
Pest 6 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	08 100	19 100
Diameter, Unit:	2 IN	
Height, Unit:	0.5 IN	4 IN
Height Minimum, Maximum:	0.5 0.5	4 8
Density, Unit:	9.3 M2	6 M2
Pest 7 Code, Type, Scale:	SENGL W	SENGL W
Density, Unit:	6.6 M2	
Pest 8 Code, Type, Scale:	VERAR W	VERAR W
Density, Unit:	4 M2	
Pest 9 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:		19 100
Height, Unit:		6 IN
Height Minimum, Maximum:		6 6
Density, Unit:		3 M2

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Application Equipment

	A	B
Appl. Equipment:	6 foot boom	6 foot boom
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6 FT	6 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	1 Liters	1 Liters
Propellant:	CO2	CO2

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Location: WESTERN BRANCH G-8 Trial Year: 2013
Investigator: Dr. Mark M. Loux
Study Director: Anthony F. Dobbels
Sponsor Contact: Tony Estes, UPI

Pest Code		STEME	LAMPU	CAPBP	RANAB	AMBTR	SENGL	STEME				
Crop Code												
Rating Date		May-7-2013	May-7-2013	May-7-2013	May-7-2013	May-7-2013	May-7-2013	May-15-2013				
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit		%	%	%	%	%	%	%				
Days After First/Last Applic.		15 15	15 15	15 15	15 15	15 15	15 15	23 23				
Trt-Eval Interval		15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	23 DA-A				
Plant-Eval Interval		1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1	9 DP-1				
Days After Emergence		-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-5 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
1	Untreated Check					0 c	0 b	0 b	0 b	0 c	0 b	0 b
2	Roundup PowerMax	32 oz/a		7 EPP	A	91 ab	100 a	93 a	94 a	97 a	100 a	85 a
	2 Tricor	8 oz/a		7 EPP	A							
	2 2,4-D	1 pt/a		7 EPP	A							
	2 N-PAK AMS	1.5 qt/a		7 EPP	A							
	2 Storm	12 oz/a		POST	B							
	2 Roundup PowerMax	32 oz/a		POST	B							
	2 N-PAK AMS	1.5 qt/a		POST	B							
3	Roundup PowerMax	32 oz/a		7 EPP	A	95 ab	100 a	100 a	97 a	95 a	100 a	100 a
	3 Tricor	12 oz/a		7 EPP	A							
	3 2,4-D	1 pt/a		7 EPP	A							
	3 N-PAK AMS	1.5 qt/a		7 EPP	A							
	3 Storm	12 oz/a		POST	B							
	3 Roundup PowerMax	32 oz/a		POST	B							
	3 N-PAK AMS	1.5 qt/a		POST	B							
4	Roundup PowerMax	32 oz/a		7 EPP	A	97 a	100 a	100 a	98 a	100 a	100 a	100 a
	4 Tricor	8 oz/a		7 EPP	A							
	4 2,4-D	1 pt/a		7 EPP	A							
	4 VALOR XLT3 OZ											
	4 Valor SX	1.76 oz/a		7 EPP	A							
	4 Classic	1.24 oz/a		7 EPP	A							
	4 N-PAK AMS	1.5 qt/a		7 EPP	A							
	4 Storm	12 oz/a		POST	B							
	4 Roundup PowerMax	32 oz/a		POST	B							
	4 N-PAK AMS	1.5 qt/a		POST	B							
5	Roundup PowerMax	32 oz/a		7 EPP	A	98 a	100 a	100 a	98 a	100 a	100 a	100 a
	5 Tricor	12 oz/a		7 EPP	A							
	5 2,4-D	1 pt/a		7 EPP	A							
	5 VALOR XLT3 OZ											
	5 Valor SX	1.76 oz/a		7 EPP	A							
	5 Classic	1.24 oz/a		7 EPP	A							
	5 N-PAK AMS	1.5 qt/a		7 EPP	A							
	5 Storm	12 oz/a		POST	B							
	5 Roundup PowerMax	32 oz/a		POST	B							
	5 N-PAK AMS	1.5 qt/a		POST	B							
6	Roundup PowerMax	32 oz/a		7 EPP	A	85 b	98 a	87 a	98 a	98 a	100 a	83 a
	6 Tricor	8 oz/a		7 EPP	A							
	6 Sharpen	1 oz/a		7 EPP	A							
	6 MSO	0.6 qt/a		7 EPP	A							
	6 N-PAK AMS	1.5 qt/a		7 EPP	A							
	6 Storm	12 oz/a		POST	B							
	6 Roundup PowerMax	32 oz/a		POST	B							
	6 N-PAK AMS	1.5 qt/a		POST	B							

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
t=Mean descriptions are reported in transformed data units, and are not de-transformed.
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns: Yates=4,5,10,11,16,17

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Pest Code	STEME	LAMPU	CAPBP	RANAB	AMBTR	SENGL	STEME					
Crop Code												
Rating Date	May-7-2013	May-7-2013	May-7-2013	May-7-2013	May-7-2013	May-7-2013	May-15-2013					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%					
Days After First/Last Applic.	15 15	15 15	15 15	15 15	15 15	15 15	23 23					
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	23 DA-A					
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1	9 DP-1					
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-5 DE-1					
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
7	Roundup PowerMax	32 oz/a		7 EPP	A	92 ab	80 a	100 a	98 a	88 b	100 a	93 a
7	Tricor	8 oz/a		7 EPP	A							
7	Sharpen	1 oz/a		7 EPP	A							
7	MSO	0.6 qt/a		7 EPP	A							
7	N-PAK AMS	1.5 qt/a		7 EPP	A							
7	Roundup PowerMax	32 oz/a		POST	B							
7	N-PAK AMS	1.5 qt/a		POST	B							
8	Roundup PowerMax	32 oz/a		7 EPP	A	98 a	90 a	100 a	100 a	98 a	100 a	100 a
8	Tricor	12 oz/a		7 EPP	A							
8	Sharpen	1 oz/a		7 EPP	A							
8	MSO	0.6 qt/a		7 EPP	A							
8	N-PAK AMS	1.5 qt/a		7 EPP	A							
8	Roundup PowerMax	32 oz/a		POST	B							
8	N-PAK AMS	1.5 qt/a		POST	B							
LSD (P=.05)		8.0	15.1	15.2	5.5	6.5	0.0	11.4				
Standard Deviation		4.6	8.6	8.7	2.9	3.7	0.0	6.5				
CV		5.56	10.31	10.2	3.4	4.36	0.0	7.87				
Bartlett's X2		4.666	4.883	2.006	0.0	3.449	0.0	1.992				
P(Bartlett's X2)		0.587	0.087	0.157	.	0.486	.	0.369				
Skewness		-2.2564*	-2.0553*	-2.1846*	-1.9518*	-2.2596*	-2.4219*	-2.1145*				
Kurtosis		3.698*	2.885*	3.3072*	2.0307	3.5722*	4.2103*	3.2067*				
Replicate F		3.761	2.539	0.873	8.941	1.459	0.000	2.235				
Replicate Prob(F)		0.0493	0.1146	0.4391	0.0091	0.2680	1.0000	0.1437				
Treatment F		161.468	48.110	48.032	424.785	260.425	0.000	82.411				
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001				

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Pest Code	LAMPU		CAPBP		RANAB		AMBTR		SENGL		STEME	
Crop Code	May-15-2013		May-15-2013		May-15-2013		May-15-2013		May-15-2013		May-30-2013	
Rating Date			3		3				3			
Rating Type	CONTRO		CONTRO		CONTRO		CONTRO		CONTRO		CONTRO	
Rating Unit	%		%		%		%		%		%	
Days After First/Last Applic.	23 23		23 23		23 23		23 23		23 23		38 38	
Trt-Eval Interval	23 DA-A		23 DA-A		23 DA-A		23 DA-A		23 DA-A		38 DA-A	
Plant-Eval Interval	9 DP-1		9 DP-1		9 DP-1		9 DP-1		9 DP-1		24 DP-1	
Days After Emergence	-5 DE-1		-5 DE-1		-5 DE-1		-5 DE-1		-5 DE-1		10 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	8	9	10	11	12	13
1	Untreated Check						0 b	0 b	0 b	0 b	0 b	0 c
2	Roundup PowerMax	32 oz/a			7 EPP	A	100 a	97 a	97 a	47 ab	100 a	83 b
2	Tricor	8 oz/a			7 EPP	A						
2	2,4-D	1 pt/a			7 EPP	A						
2	N-PAK AMS	1.5 qt/a			7 EPP	A						
2	Storm	12 oz/a			POST	B						
2	Roundup PowerMax	32 oz/a			POST	B						
2	N-PAK AMS	1.5 qt/a			POST	B						
3	Roundup PowerMax	32 oz/a			7 EPP	A	100 a	100 a	97 a	18 b	100 a	100 a
3	Tricor	12 oz/a			7 EPP	A						
3	2,4-D	1 pt/a			7 EPP	A						
3	N-PAK AMS	1.5 qt/a			7 EPP	A						
3	Storm	12 oz/a			POST	B						
3	Roundup PowerMax	32 oz/a			POST	B						
3	N-PAK AMS	1.5 qt/a			POST	B						
4	Roundup PowerMax	32 oz/a			7 EPP	A	100 a	100 a	98 a	80 a	100 a	100 a
4	Tricor	8 oz/a			7 EPP	A						
4	2,4-D	1 pt/a			7 EPP	A						
4	VALOR XLT3 OZ											
4	Valor SX	1.76 oz/a			7 EPP	A						
4	Classic	1.24 oz/a			7 EPP	A						
4	N-PAK AMS	1.5 qt/a			7 EPP	A						
4	Storm	12 oz/a			POST	B						
4	Roundup PowerMax	32 oz/a			POST	B						
4	N-PAK AMS	1.5 qt/a			POST	B						
5	Roundup PowerMax	32 oz/a			7 EPP	A	100 a	100 a	98 a	95 a	100 a	100 a
5	Tricor	12 oz/a			7 EPP	A						
5	2,4-D	1 pt/a			7 EPP	A						
5	VALOR XLT3 OZ											
5	Valor SX	1.76 oz/a			7 EPP	A						
5	Classic	1.24 oz/a			7 EPP	A						
5	N-PAK AMS	1.5 qt/a			7 EPP	A						
5	Storm	12 oz/a			POST	B						
5	Roundup PowerMax	32 oz/a			POST	B						
5	N-PAK AMS	1.5 qt/a			POST	B						
6	Roundup PowerMax	32 oz/a			7 EPP	A	100 a	93 a	98 a	67 a	100 a	87 ab
6	Tricor	8 oz/a			7 EPP	A						
6	Sharpen	1 oz/a			7 EPP	A						
6	MSO	0.6 qt/a			7 EPP	A						
6	N-PAK AMS	1.5 qt/a			7 EPP	A						
6	Storm	12 oz/a			POST	B						
6	Roundup PowerMax	32 oz/a			POST	B						
6	N-PAK AMS	1.5 qt/a			POST	B						

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Pest Code	LAMPU		CAPBP		RANAB		AMBTR		SENGL		STEME	
Crop Code	May-15-2013		May-15-201		May-15-201		May-15-2013		May-15-201		May-30-2013	
Rating Date			3		3				3			
Rating Type	CONTRO		CONTRO		CONTRO		CONTRO		CONTRO		CONTRO	
Rating Unit	%		%		%		%		%		%	
Days After First/Last Applic.	23	23	23	23	23	23	23	23	23	23	38	38
Trt-Eval Interval	23 DA-A		23 DA-A		23 DA-A		23 DA-A		23 DA-A		38 DA-A	
Plant-Eval Interval	9 DP-1		9 DP-1		9 DP-1		9 DP-1		9 DP-1		24 DP-1	
Days After Emergence	-5 DE-1		-5 DE-1		-5 DE-1		-5 DE-1		-5 DE-1		10 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11	12	13	
7	Roundup PowerMax	32 oz/a		7 EPP	A	100 a	100 a	98 a	13 b	100 a	97 a	
7	Tricor	8 oz/a		7 EPP	A							
7	Sharpen	1 oz/a		7 EPP	A							
7	MSO	0.6 qt/a		7 EPP	A							
7	N-PAK AMS	1.5 qt/a		7 EPP	A							
7	Roundup PowerMax	32 oz/a		POST	B							
7	N-PAK AMS	1.5 qt/a		POST	B							
8	Roundup PowerMax	32 oz/a		7 EPP	A	100 a	100 a	100 a	68 a	100 a	100 a	
8	Tricor	12 oz/a		7 EPP	A							
8	Sharpen	1 oz/a		7 EPP	A							
8	MSO	0.6 qt/a		7 EPP	A							
8	N-PAK AMS	1.5 qt/a		7 EPP	A							
8	Roundup PowerMax	32 oz/a		POST	B							
8	N-PAK AMS	1.5 qt/a		POST	B							
LSD (P=.05)		0.0				0.0	8.2	5.0	36.1	0.0	9.3	
Standard Deviation		0.0				0.0	4.7	2.7	20.5	0.0	5.3	
CV		0.0				0.0	5.44	3.1	42.17	0.0	6.35	
Bartlett's X2		0.0				0.0	0.866	0.0	7.607	0.0	1.313	
P(Bartlett's X2)		.				.	0.352	.	0.179	.	0.519	
Skewness		-2.4219*				-2.3458*	-1.9558*	-0.0368	-0.0368	-2.4219*	-2.1878*	
Kurtosis		4.2103*				3.9521*	2.04	-1.7057	-1.7057	4.2103*	3.4611*	
Replicate F		0.000				0.568	10.561	0.409	0.409	0.000	0.149	
Replicate Prob(F)		1.0000				0.5794	0.0057	0.6729	0.6729	1.0000	0.8630	
Treatment F		0.000				166.243	510.081	8.584	8.584	0.000	126.298	
Treatment Prob(F)		1.0000				0.0001	0.0001	0.0005	0.0005	1.0000	0.0001	

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Pest Code	LAMPU		CAPBP		RANAB		AMBTR		SETFA		SENGL	
Crop Code	May-30-2013		May-30-2013		May-30-2013		May-30-2013		May-30-2013		May-30-2013	
Rating Date												
Rating Type	CONTRO		CONTRO		CONTRO		CONTRO		CONTRO		CONTRO	
Rating Unit	%		%		%		%		%		%	
Days After First/Last Applic.	38 38		38 38		38 38		38 38		38 38		38 38	
Trt-Eval Interval	38 DA-A		38 DA-A		38 DA-A		38 DA-A		38 DA-A		38 DA-A	
Plant-Eval Interval	24 DP-1		24 DP-1		24 DP-1		24 DP-1		24 DP-1		24 DP-1	
Days After Emergence	10 DE-1		10 DE-1		10 DE-1		10 DE-1		10 DE-1		10 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	14	15	16	17	18	19
1	Untreated Check						0 b	0 b	0 b	0 b	0 c	0 b
2	Roundup PowerMax	32 oz/a			7 EPP A		100 a	100 a	99 a	60 ab	67 ab	100 a
2	Tricor	8 oz/a			7 EPP A							
2	2,4-D	1 pt/a			7 EPP A							
2	N-PAK AMS	1.5 qt/a			7 EPP A							
2	Storm	12 oz/a			POST B							
2	Roundup PowerMax	32 oz/a			POST B							
2	N-PAK AMS	1.5 qt/a			POST B							
3	Roundup PowerMax	32 oz/a			7 EPP A		100 a	100 a	99 a	0 b	17 c	100 a
3	Tricor	12 oz/a			7 EPP A							
3	2,4-D	1 pt/a			7 EPP A							
3	N-PAK AMS	1.5 qt/a			7 EPP A							
3	Storm	12 oz/a			POST B							
3	Roundup PowerMax	32 oz/a			POST B							
3	N-PAK AMS	1.5 qt/a			POST B							
4	Roundup PowerMax	32 oz/a			7 EPP A		100 a	100 a	100 a	73 ab	87 a	100 a
4	Tricor	8 oz/a			7 EPP A							
4	2,4-D	1 pt/a			7 EPP A							
4	VALOR XLT3 OZ											
4	Valor SX	1.76 oz/a			7 EPP A							
4	Classic	1.24 oz/a			7 EPP A							
4	N-PAK AMS	1.5 qt/a			7 EPP A							
4	Storm	12 oz/a			POST B							
4	Roundup PowerMax	32 oz/a			POST B							
4	N-PAK AMS	1.5 qt/a			POST B							
5	Roundup PowerMax	32 oz/a			7 EPP A		100 a	100 a	99 a	96 a	90 a	100 a
5	Tricor	12 oz/a			7 EPP A							
5	2,4-D	1 pt/a			7 EPP A							
5	VALOR XLT3 OZ											
5	Valor SX	1.76 oz/a			7 EPP A							
5	Classic	1.24 oz/a			7 EPP A							
5	N-PAK AMS	1.5 qt/a			7 EPP A							
5	Storm	12 oz/a			POST B							
5	Roundup PowerMax	32 oz/a			POST B							
5	N-PAK AMS	1.5 qt/a			POST B							
6	Roundup PowerMax	32 oz/a			7 EPP A		100 a	100 a	100 a	47 ab	75 ab	100 a
6	Tricor	8 oz/a			7 EPP A							
6	Sharpen	1 oz/a			7 EPP A							
6	MSO	0.6 qt/a			7 EPP A							
6	N-PAK AMS	1.5 qt/a			7 EPP A							
6	Storm	12 oz/a			POST B							
6	Roundup PowerMax	32 oz/a			POST B							
6	N-PAK AMS	1.5 qt/a			POST B							

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Pest Code	LAMPU		CAPBP		RANAB		AMBTR		SETFA		SENGL	
Crop Code	May-30-2013		May-30-201		May-30-201		May-30-2013		May-30-2013		May-30-201	
Rating Date			3		3						3	
Rating Type	CONTRO		CONTRO		CONTRO		CONTRO		CONTRO		CONTRO	
Rating Unit	%		%		%		%		%		%	
Days After First/Last Applic.	38	38	38	38	38	38	38	38	38	38	38	38
Trt-Eval Interval	38 DA-A		38 DA-A		38 DA-A		38 DA-A		38 DA-A		38 DA-A	
Plant-Eval Interval	24 DP-1		24 DP-1		24 DP-1		24 DP-1		24 DP-1		24 DP-1	
Days After Emergence	10 DE-1		10 DE-1		10 DE-1		10 DE-1		10 DE-1		10 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	14	15	16	17	18	19	
7	Roundup PowerMax	32 oz/a		7 EPP	A	100 a	100 a	100 a	0 b	0 c	100 a	
7	Tricor	8 oz/a		7 EPP	A							
7	Sharpen	1 oz/a		7 EPP	A							
7	MSO	0.6 qt/a		7 EPP	A							
7	N-PAK AMS	1.5 qt/a		7 EPP	A							
7	Roundup PowerMax	32 oz/a		POST	B							
7	N-PAK AMS	1.5 qt/a		POST	B							
8	Roundup PowerMax	32 oz/a		7 EPP	A	100 a	100 a	100 a	50 ab	50 b	100 a	
8	Tricor	12 oz/a		7 EPP	A							
8	Sharpen	1 oz/a		7 EPP	A							
8	MSO	0.6 qt/a		7 EPP	A							
8	N-PAK AMS	1.5 qt/a		7 EPP	A							
8	Roundup PowerMax	32 oz/a		POST	B							
8	N-PAK AMS	1.5 qt/a		POST	B							
LSD (P=.05)		0.0		0.0		1.5		38.6t		24.5		0.0
Standard Deviation		0.0		0.0		0.8		21.9t		14.0		0.0
CV		0.0		0.0		0.91		63.42		29.02		0.0
Bartlett's X2		0.0		0.0		0.0		4.034		5.54		0.0
P(Bartlett's X2)								0.258		0.354		
Skewness		-2.4219*		-2.4219*		-2.0412*		-0.0342		-0.3083		-2.4219*
Kurtosis		4.2103*		4.2103*		2.4099*		-1.8259		-1.5891		4.2103*
Replicate F		0.000		0.000		6.061		0.315		0.048		0.000
Replicate Prob(F)		1.0000		1.0000		0.0215		0.7350		0.9532		1.0000
Treatment F		0.000		0.000		5937.469		5.826		21.815		0.000
Treatment Prob(F)		1.0000		1.0000		0.0001		0.0032		0.0001		1.0000

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Pest Code	SETFA	AMBTR	ERICA
Crop Code			
Rating Date	Jun-18-2013	Jun-18-201	Jun-18-2013
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Days After First/Last Applic.	57 14	57 14	57 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1
Days After Emergence	29 DE-1	29 DE-1	29 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	20	21	22
1	Untreated Check					64 c	47 a	23 b
2	Roundup PowerMax	32 oz/a		7 EPP	A	99 a	57 a	58 a
2	Tricor	8 oz/a		7 EPP	A			
2	2,4-D	1 pt/a		7 EPP	A			
2	N-PAK AMS	1.5 qt/a		7 EPP	A			
2	Storm	12 oz/a		POST	B			
2	Roundup PowerMax	32 oz/a		POST	B			
2	N-PAK AMS	1.5 qt/a		POST	B			
3	Roundup PowerMax	32 oz/a		7 EPP	A	85 abc	60 a	90 a
3	Tricor	12 oz/a		7 EPP	A			
3	2,4-D	1 pt/a		7 EPP	A			
3	N-PAK AMS	1.5 qt/a		7 EPP	A			
3	Storm	12 oz/a		POST	B			
3	Roundup PowerMax	32 oz/a		POST	B			
3	N-PAK AMS	1.5 qt/a		POST	B			
4	Roundup PowerMax	32 oz/a		7 EPP	A	73 bc	63 a	100 a
4	Tricor	8 oz/a		7 EPP	A			
4	2,4-D	1 pt/a		7 EPP	A			
4	VALOR XLT3 OZ							
4	Valor SX	1.76 oz/a		7 EPP	A			
4	Classic	1.24 oz/a		7 EPP	A			
4	N-PAK AMS	1.5 qt/a		7 EPP	A			
4	Storm	12 oz/a		POST	B			
4	Roundup PowerMax	32 oz/a		POST	B			
4	N-PAK AMS	1.5 qt/a		POST	B			
5	Roundup PowerMax	32 oz/a		7 EPP	A	83 abc	88 a	100 a
5	Tricor	12 oz/a		7 EPP	A			
5	2,4-D	1 pt/a		7 EPP	A			
5	VALOR XLT3 OZ							
5	Valor SX	1.76 oz/a		7 EPP	A			
5	Classic	1.24 oz/a		7 EPP	A			
5	N-PAK AMS	1.5 qt/a		7 EPP	A			
5	Storm	12 oz/a		POST	B			
5	Roundup PowerMax	32 oz/a		POST	B			
5	N-PAK AMS	1.5 qt/a		POST	B			
6	Roundup PowerMax	32 oz/a		7 EPP	A	95 ab	72 a	100 a
6	Tricor	8 oz/a		7 EPP	A			
6	Sharpen	1 oz/a		7 EPP	A			
6	MSO	0.6 qt/a		7 EPP	A			
6	N-PAK AMS	1.5 qt/a		7 EPP	A			
6	Storm	12 oz/a		POST	B			
6	Roundup PowerMax	32 oz/a		POST	B			
6	N-PAK AMS	1.5 qt/a		POST	B			

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Pest Code	SETFA	AMBTR	ERICA					
Crop Code								
Rating Date	Jun-18-2013	Jun-18-201	Jun-18-2013					
Rating Type	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%					
Days After First/Last Applic.	57 14	57 14	57 14					
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B					
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1					
Days After Emergence	29 DE-1	29 DE-1	29 DE-1					
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	20	21	22
7	Roundup PowerMax	32 oz/a		7 EPP A		82 abc	65 a	92 a
7	Tricor	8 oz/a		7 EPP A				
7	Sharpen	1 oz/a		7 EPP A				
7	MSO	0.6 qt/a		7 EPP A				
7	N-PAK AMS	1.5 qt/a		7 EPP A				
7	Roundup PowerMax	32 oz/a		POST B				
7	N-PAK AMS	1.5 qt/a		POST B				
8	Roundup PowerMax	32 oz/a		7 EPP A		97 a	83 a	93 a
8	Tricor	12 oz/a		7 EPP A				
8	Sharpen	1 oz/a		7 EPP A				
8	MSO	0.6 qt/a		7 EPP A				
8	N-PAK AMS	1.5 qt/a		7 EPP A				
8	Roundup PowerMax	32 oz/a		POST B				
8	N-PAK AMS	1.5 qt/a		POST B				
LSD (P=.05)		13.4t					35.6	26.7
Standard Deviation		7.6t					20.3	15.2
CV		11.09					30.35	18.57
Bartlett's X2		9.123					6.275	5.329
P(Bartlett's X2)		0.244					0.508	0.255
Skewness		-0.1107					-0.0683	-1.3764*
Kurtosis		-1.0687					-0.9257	0.3229
Replicate F		1.809					0.463	0.677
Replicate Prob(F)		0.2000					0.6389	0.5240
Treatment F		5.750					1.384	9.704
Treatment Prob(F)		0.0027					0.2860	0.0002

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Evaluate Tricor & Storm in a weed management program in Roundup Ready Soybeans in Ohio

Trial ID: 13UPI
Protocol ID: 13UPI
Project ID: Tcr-06-US-OH-13-25TLE

Location: WESTERN BRANCH G-8 Trial Year: 2013
Investigator: Dr. Mark M. Loux
Study Director: Anthony F. Dobbels
Sponsor Contact: Tony Estes, UPI

Pest Code

STEME, *Stellaria media*, = US
LAMPU, *Lamium purpureum*, = US
CAPBP, *Capsella bursa-pastoris*, = US
RANAB, *Ranunculus abortivus*, = US
AMBTR, *Ambrosia trifida*, = US
SENGL, *Senecio glabellus*, = US
SETFA, *Setaria faberi*, = US
ERICA, *Conyza canadensis*, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

1 DP-1 = 1 GLXMA May-6-2013
9 DP-1 = 1 GLXMA May-6-2013
24 DP-1 = 1 GLXMA May-6-2013
43 DP-1 = 1 GLXMA May-6-2013