

Ohio State University Horticulture and Crop Science

Kixor applied preplant burndown,

Title No. 2:

Trial ID: 11NTS7
Location: Western Branch F-10W
Project ID: 11NTS7

Protocol ID: 11NTS7
Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux
Sponsor Contact: Caren Judge, BASF, Syngenta SS

General Trial Information

Study Director: Bryan Reeb **Title:** Research Technician
Investigator: Dr. Mark M. Loux **Title:** Professor

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.85878 N
State/Prov.: Ohio **Longitude of LL Corner °:** -83.6729 W
Postal Code: 45368
Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG 3631 **Description:** Round Up Ready
BBCH Scale: BSOY **Planting Date:** 5/22/11
Planting Method: SEEDED seeded **Rate, Unit:** 197000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Seed Bed: MEDIUM medium
Soil Moisture: DAMP damp **Emergence Date:** 6/1/11

Pest Description

- Pest 1 Type:** W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel
- Pest 2 Type:** W **Code:** ERYRE Erysimum repandum
Common Name: Bushy wallflower
- Pest 3 Type:** W **Code:** CAPBP Capsella bursa-pastoris
Common Name: Shepherd's purse
- Pest 4 Type:** W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion
- Pest 5 Type:** W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
- Pest 6 Type:** W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail
- Pest 7 Type:** W **Code:** SOLPT Solanum ptycanthum
Common Name: Eastern black nightshade
- Pest 8 Type:** W **Code:** POLPY Persicaria pensylvanica
Common Name: Pennsylvania smartweed
- Pest 9 Type:** W **Code:** ERICA Conyza canadensis
Common Name: Canada horseweed
- Pest10 Type:** W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed
- Pest11 Type:** W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters
- Pest12 Type:** W **Code:** VERAG Veronica agrestis
Common Name: Field speedwell

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 200.1 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB L Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

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Soil Description

Description Name: F-10 West
 % OM: 2 Texture: SIL silt loam
 pH: 6.3 Soil Name: Crosby Silt Loam
 CEC: 12 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B
Application Date:	4/21/11	6/9/11
Time of Day:	9:00 AM	8:30 am
Application Method:	SPRAY	SPRAY
Application Timing:	7 EPP	POST
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	43 F	81 F
% Relative Humidity:	64	58
Wind Velocity, Unit:	6 MPH	2.5 MPH
Wind Direction:	NNE	
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	42 F	72 F
Soil Moisture:	VERWET	DRY
% Cloud Cover:	5	5
Next Rain Occurred On:	4/22/11	6/10/11

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	BSOY GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		12
Height, Unit:		3 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	65	100
Diameter, Unit:	5 IN	
Height, Unit:	7 IN	
Height Minimum, Maximum:	2 7	
Pest 2 Code, Type, Scale:	ERYRE W	ERYRE W
Stage Majority, Percent:	65	100
Height, Unit:	3 IN	6 IN
Height Minimum, Maximum:		6 6
Pest 3 Code, Type, Scale:	CAPBP W	CAPBP W
Stage Majority, Percent:	65	100
Height, Unit:	10 IN	
Height Minimum, Maximum:	5 10	
Pest 4 Code, Type, Scale:	TAROF W	TAROF W
Stage Majority, Percent:	65	100
Diameter, Unit:	7 IN	
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	7 IN	
Height Minimum, Maximum:		4.5 10
Density, Unit:	20 M2	20 M2
Pest 6 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		8 IN
Height Minimum, Maximum:		6 11
Density, Unit:	161.33 M2	161.33 M2
Pest 7 Code, Type, Scale:	SOLPT W	SOLPT W
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2
Density, Unit:	22.66 M2	22.66 M2
Pest 8 Code, Type, Scale:	POLPY W	POLPY W
Height, Unit:		5 IN
Height Minimum, Maximum:		5 5
Pest 9 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2
Density, Unit:	208 M2	208 M2
Pest10 Code, Type, Scale:	AMBEL W	AMBEL W
Height, Unit:		5 IN
Height Minimum, Maximum:		5 5
Density, Unit:	8 M2	8 M2
Pest11 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:		4 IN
Height Minimum, Maximum:		4 4
Pest12 Code, Type, Scale:	VERAG W	VERAG W
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2

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Application Equipment

	A	B
Appl. Equipment:	Backpack	Backpack
Equipment Type:	SPRBAC	SPRBAC
Operating Pressure, Unit:	34 PSI	46 PSI
Nozzle Type:	DG	DG
Nozzle Size:	8002	8015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	0.33 gallons	0.33 gallons
Propellant:	COMCO2	COMCO2

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	LAMAM	CAPBP	ERYRE
Pest Scientific Name	Stellaria media	Lamium purpure>	Lamium amplexi>	Capsella bursa>	Erysimum repa>
Pest Name	Common chickwe>	Purple deadnet>	Henbit	Shepherd's pur>	Bushy wallflow>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/5/11	5/5/11	5/5/11	5/5/11	5/5/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-17 DP-1	-17 DP-1	-17 DP-1	-17 DP-1	-17 DP-1
Days After Emergence	-27 DE-1	-27 DE-1	-27 DE-1	-27 DE-1	-27 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
1	Roundup Power Max	4.5	22 oz/a		A	68	52	58	80	72
	1 N-pak ams	100	3 qt/a		A					
2	Roundup Power Max	4.5	22 oz/a		A	52	53	47	78	72
	2 2,4-D Ester	4	16 oz/a		A					
	2 N-pak ams	100	3 qt/a		A					
3	Sharpen	2.85	1 oz/a		A	82	83	70	97	97
	3 Roundup Power Max	4.5	22 oz/a		A					
	3 MSO	100	0.6 qt/a		A					
	3 N-pak ams	100	3 qt/a		A					
4	OpTill	68	2 oz/a		A	85	83	73	97	97
	4 Roundup Power Max	4.5	22 oz/a		A					
	4 MSO	100	0.6 qt/a		A					
	4 N-pak ams	100	3 qt/a		A					
5	Sharpen	2.85	1 oz/a		A	83	83	77	93	100
	5 Scepter	70	2.8 oz/a		A					
	5 Roundup Power Max	4.5	22 oz/a		A					
	5 MSO	100	0.6 qt/a		A					
	5 N-pak ams	100	3 qt/a		A					
6	Verdict	5.57	5 oz/a		A	85	88	88	95	97
	6 Roundup Power Max	4.5	22 oz/a		A					
	6 MSO	100	0.6 qt/a		A					
	6 N-pak ams	100	3 qt/a		A					
7	Prefix	5.29	2 pt/a		A	77	85	83	100	100
	7 Touchdown Total	4.17	24 oz/a		A					
	7 MSO	100	0.6 qt/a		A					
	7 N-pak ams	100	3 qt/a		A					
8	Prefix	5.29	2 pt/a		A	100	100	100	85	96
	8 Gramoxone Inteon	2	3 pt/a		A					
	8 MSO	100	0.6 qt/a		A					
	8 N-pak ams	100	3 qt/a		A					
9	Boundary	6.5	1.5 pt/a		A	67	67	57	85	73
	9 Touchdown Total	4.17	24 oz/a		A					
	9 MSO	100	0.6 qt/a		A					
	9 N-pak ams	100	3 qt/a		A					
10	Boundary	6.5	1.5 pt/a		A	98	100	100	80	90
	10 Gramoxone Inteon	2	3 pt/a		A					
	10 MSO	100	0.6 qt/a		A					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	LAMAM	CAPBP	ERYRE
Pest Scientific Name	Stellaria media Lamium purpure>		Lamium amplexi>	Capsella bursa>	Erysimum repa>
Pest Name	Common chickwe>		Purple deadnet>	Henbit Shepherd's pur>	Bushy wallflow>
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/5/11	5/5/11	5/5/11	5/5/11	5/5/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-17 DP-1	-17 DP-1	-17 DP-1	-17 DP-1	-17 DP-1
Days After Emergence	-27 DE-1	-27 DE-1	-27 DE-1	-27 DE-1	-27 DE-1
Number of Decimals	0	0	0	0	0

Trt	Treatment No. Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
	10 N-pak ams	100	3 qt/a		A					
	11 Sharpen	2.85	1 oz/a		A	65	82	82	99	100
	11 Prefix	5.29	2 pt/a		A					
	11 Touchdown Total	4.17	24 oz/a		A					
	11 MSO	100	0.6 qt/a		A					
	11 N-pak ams	100	3 qt/a		A					
	12 Sharpen	2.85	1 oz/a		A	90	100	100	93	100
	12 Prefix	5.29	2 pt/a		A					
	12 Gramoxone Inteon	2	3 pt/a		A					
	12 MSO	100	0.6 qt/a		A					
	12 N-pak ams	100	3 qt/a		A					
	13 Sharpen	2.85	1 oz/a		A	65	77	63	98	100
	13 Boundary	6.5	1.5 pt/a		A					
	13 Touchdown Total	4.17	24 oz/a		A					
	13 MSO	100	0.6 qt/a		A					
	13 N-pak ams	100	3 qt/a		A					
	14 Sharpen	2.85	1 oz/a		A	100	100	98	95	100
	14 Boundary	6.5	1.5 pt/a		A					
	14 Gramoxone Inteon	2	3 pt/a		A					
	14 MSO	100	0.6 qt/a		A					
	14 N-pak ams	100	3 qt/a		A					
	LSD (P=.05)					26.6	18.2	18.2	16.7	7.2
	Standard Deviation					15.8	10.9	10.8	10.0	4.3
	CV					19.86	13.18	13.83	10.94	4.65
	Bartlett's X2					22.859	9.467	10.551	19.373	5.095
	P(Bartlett's X2)					0.019*	0.395	0.394	0.08	0.648
	Replicate F					0.146	1.430	1.887	0.584	6.589
	Replicate Prob(F)					0.8647	0.2575	0.1725	0.5650	0.0050
	Treatment F					2.644	6.570	8.135	1.822	20.566
	Treatment Prob(F)					0.0169	0.0001	0.0001	0.0935	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	LAMAM	STEME	CAPBP	ERYRE
Pest Scientific Name	Lamium purpure>	Lamium amplexi>	Stellaria media	Capsella bursa>	Erysimum repan>
Pest Name	Purple deadnet>	Henbit	Common chickwe>	Shepherd's pur>	Bushy wallflow>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/23/11	5/23/11	5/23/11	5/23/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	32 32	32 32	32 32	32 32	32 32
Trt-Eval Interval	32 DA-A	32 DA-A	32 DA-A	32 DA-A	32 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
1	Roundup Power Max	4.5	22 oz/a		A	98	97	100	83	77
	1 N-pak ams	100	3 qt/a		A					
2	Roundup Power Max	4.5	22 oz/a		A	100	98	97	82	87
	2 2,4-D Ester	4	16 oz/a		A					
	2 N-pak ams	100	3 qt/a		A					
3	Sharpen	2.85	1 oz/a		A	100	100	92	92	98
	3 Roundup Power Max	4.5	22 oz/a		A					
	3 MSO	100	0.6 qt/a		A					
	3 N-pak ams	100	3 qt/a		A					
4	OpTill	68	2 oz/a		A	100	100	100	93	100
	4 Roundup Power Max	4.5	22 oz/a		A					
	4 MSO	100	0.6 qt/a		A					
	4 N-pak ams	100	3 qt/a		A					
5	Sharpen	2.85	1 oz/a		A	99	98	100	93	100
	5 Scepter	70	2.8 oz/a		A					
	5 Roundup Power Max	4.5	22 oz/a		A					
	5 MSO	100	0.6 qt/a		A					
	5 N-pak ams	100	3 qt/a		A					
6	Verdict	5.57	5 oz/a		A	99	100	95	95	100
	6 Roundup Power Max	4.5	22 oz/a		A					
	6 MSO	100	0.6 qt/a		A					
	6 N-pak ams	100	3 qt/a		A					
7	Prefix	5.29	2 pt/a		A	100	100	100	92	98
	7 Touchdown Total	4.17	24 oz/a		A					
	7 MSO	100	0.6 qt/a		A					
	7 N-pak ams	100	3 qt/a		A					
8	Prefix	5.29	2 pt/a		A	100	99	98	80	100
	8 Gramoxone Inteon	2	3 pt/a		A					
	8 MSO	100	0.6 qt/a		A					
	8 N-pak ams	100	3 qt/a		A					
9	Boundary	6.5	1.5 pt/a		A	100	100	77	75	85
	9 Touchdown Total	4.17	24 oz/a		A					
	9 MSO	100	0.6 qt/a		A					
	9 N-pak ams	100	3 qt/a		A					
10	Boundary	6.5	1.5 pt/a		A	100	100	95	80	100
	10 Gramoxone Inteon	2	3 pt/a		A					
	10 MSO	100	0.6 qt/a		A					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	LAMPU	LAMAM	STEME	CAPBP	ERYRE				
Pest Scientific Name	Lamium purpure>	Lamium amplexi>	Stellaria media	Capsella bursa>	Erysimum repans>				
Pest Name	Purple deadnet>	Henbit	Common chickwe>	Shepherd's pur>	Bushy wallflow>				
Crop Code									
BCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	5/23/11	5/23/11	5/23/11	5/23/11	5/23/11				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	32 32	32 32	32 32	32 32	32 32				
Trt-Eval Interval	32 DA-A	32 DA-A	32 DA-A	32 DA-A	32 DA-A				
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1				
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1				
Number of Decimals	0	0	0	0	0				
Trt Treatment No. Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
10 N-pak ams	100	3 qt/a		A					
11 Sharpen	2.85	1 oz/a		A	100	98	92	88	100
11 Prefix	5.29	2 pt/a		A					
11 Touchdown Total	4.17	24 oz/a		A					
11 MSO	100	0.6 qt/a		A					
11 N-pak ams	100	3 qt/a		A					
12 Sharpen	2.85	1 oz/a		A	98	100	87	88	100
12 Prefix	5.29	2 pt/a		A					
12 Gramoxone Inteon	2	3 pt/a		A					
12 MSO	100	0.6 qt/a		A					
12 N-pak ams	100	3 qt/a		A					
13 Sharpen	2.85	1 oz/a		A	100	100	82	83	100
13 Boundary	6.5	1.5 pt/a		A					
13 Touchdown Total	4.17	24 oz/a		A					
13 MSO	100	0.6 qt/a		A					
13 N-pak ams	100	3 qt/a		A					
14 Sharpen	2.85	1 oz/a		A	100	100	100	93	100
14 Boundary	6.5	1.5 pt/a		A					
14 Gramoxone Inteon	2	3 pt/a		A					
14 MSO	100	0.6 qt/a		A					
14 N-pak ams	100	3 qt/a		A					
LSD (P=.05)					2.0	2.6	13.3	13.7	11.6
Standard Deviation					1.2	1.6	7.9	8.2	6.9
CV					1.21	1.56	8.47	9.41	7.18
Bartlett's X2					2.845	1.727	10.653	6.517	11.85
P(Bartlett's X2)					0.416	0.786	0.222	0.888	0.019*
Replicate F					0.311	1.427	1.396	0.169	2.400
Replicate Prob(F)					0.7351	0.2583	0.2655	0.8458	0.1105
Treatment F					0.777	1.354	2.650	1.819	3.570
Treatment Prob(F)					0.6762	0.2462	0.0166	0.0941	0.0028

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	ERICA
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Conyza canadens>
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Canada horsewe>
Crop Code	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	5/23/11	6/8/11	6/16/11	6/16/11
Rating Type	CONTRO	PHYGE	PHYGE	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	32 32	48 48	56 7	56 7
Trt-Eval Interval	32 DA-A	48 DA-A	7 DA-B	7 DA-B
Plant-Eval Interval	1 DP-1	17 DP-1	25 DP-1	25 DP-1
Days After Emergence	-9 DE-1	7 DE-1	15 DE-1	15 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15	16
1	Roundup Power Max	4.5	22 oz/a		A	82	0	0	95	83	7
	1 N-pak ams	100	3 qt/a		A						
2	Roundup Power Max	4.5	22 oz/a		A	78	0	0	92	77	3
	2 2,4-D Ester	4	16 oz/a		A						
	2 N-pak ams	100	3 qt/a		A						
3	Sharpen	2.85	1 oz/a		A	85	0	0	95	68	20
	3 Roundup Power Max	4.5	22 oz/a		A						
	3 MSO	100	0.6 qt/a		A						
	3 N-pak ams	100	3 qt/a		A						
4	OpTill	68	2 oz/a		A	82	0	0	95	78	27
	4 Roundup Power Max	4.5	22 oz/a		A						
	4 MSO	100	0.6 qt/a		A						
	4 N-pak ams	100	3 qt/a		A						
5	Sharpen	2.85	1 oz/a		A	92	0	0	95	68	13
	5 Scepter	70	2.8 oz/a		A						
	5 Roundup Power Max	4.5	22 oz/a		A						
	5 MSO	100	0.6 qt/a		A						
	5 N-pak ams	100	3 qt/a		A						
6	Verdict	5.57	5 oz/a		A	87	0	0	97	82	30
	6 Roundup Power Max	4.5	22 oz/a		A						
	6 MSO	100	0.6 qt/a		A						
	6 N-pak ams	100	3 qt/a		A						
7	Prefix	5.29	2 pt/a		A	85	0	0	97	87	27
	7 Touchdown Total	4.17	24 oz/a		A						
	7 MSO	100	0.6 qt/a		A						
	7 N-pak ams	100	3 qt/a		A						
8	Prefix	5.29	2 pt/a		A	88	0	0	97	92	40
	8 Gramoxone Inteon	2	3 pt/a		A						
	8 MSO	100	0.6 qt/a		A						
	8 N-pak ams	100	3 qt/a		A						
9	Boundary	6.5	1.5 pt/a		A	78	0	0	90	73	0
	9 Touchdown Total	4.17	24 oz/a		A						
	9 MSO	100	0.6 qt/a		A						
	9 N-pak ams	100	3 qt/a		A						
10	Boundary	6.5	1.5 pt/a		A	82	0	0	95	70	10
	10 Gramoxone Inteon	2	3 pt/a		A						
	10 MSO	100	0.6 qt/a		A						

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	AMBTR	SETFA	AMBTR	ERICA						
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Conyza canadens>						
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Canada horsewe>						
Crop Code	GLXMA	GLXMA								
BBCH Scale	BSOY	BSOY								
Crop Scientific Name	Glycine max	Glycine max								
Crop Name	Soybean	Soybean								
Rating Date	5/23/11	6/16/11	6/16/11	6/16/11						
Rating Type	CONTRO	PHYGE	CONTRO	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Days After First/Last Applic.	32 32	48 48	56 7	56 7						
Trt-Eval Interval	32 DA-A	48 DA-A	7 DA-B	7 DA-B						
Plant-Eval Interval	1 DP-1	17 DP-1	25 DP-1	25 DP-1						
Days After Emergence	-9 DE-1	7 DE-1	15 DE-1	15 DE-1						
Number of Decimals	0	0	0	0						
Trt Treatment	Form	Other	Other	Appl	11	12	13	14	15	16
No. Name	Conc	Rate	Rate	Unit Code						
10 N-pak ams	100	3 qt/a		A						
11 Sharpen	2.85	1 oz/a		A	88	0	0	95	75	23
11 Prefix	5.29	2 pt/a		A						
11 Touchdown Total	4.17	24 oz/a		A						
11 MSO	100	0.6 qt/a		A						
11 N-pak ams	100	3 qt/a		A						
12 Sharpen	2.85	1 oz/a		A	88	0	0	97	87	23
12 Prefix	5.29	2 pt/a		A						
12 Gramoxone Inteon	2	3 pt/a		A						
12 MSO	100	0.6 qt/a		A						
12 N-pak ams	100	3 qt/a		A						
13 Sharpen	2.85	1 oz/a		A	87	0	0	95	70	0
13 Boundary	6.5	1.5 pt/a		A						
13 Touchdown Total	4.17	24 oz/a		A						
13 MSO	100	0.6 qt/a		A						
13 N-pak ams	100	3 qt/a		A						
14 Sharpen	2.85	1 oz/a		A	88	0	0	98	95	7
14 Boundary	6.5	1.5 pt/a		A						
14 Gramoxone Inteon	2	3 pt/a		A						
14 MSO	100	0.6 qt/a		A						
14 N-pak ams	100	3 qt/a		A						
LSD (P=.05)					19.3	0.0	0.0	3.2	20.5	22.5
Standard Deviation					11.5	0.0	0.0	1.9	12.2	13.4
CV					13.52	0.0	0.0	2.0	15.44	81.76
Bartlett's X2					10.426	0.0	0.0	0.055	9.148	5.733
P(Bartlett's X2)					0.659	.	.	1.00	0.762	0.766
Replicate F					0.401	0.000	0.000	0.256	0.012	0.119
Replicate Prob(F)					0.6737	1.0000	1.0000	0.7757	0.9881	0.8885
Treatment F					0.382	0.000	0.000	3.458	1.558	2.572
Treatment Prob(F)					0.9639	1.0000	1.0000	0.0034	0.1625	0.0195

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ERICA	SETFA	AMBTR	ERICA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Conyza canaden>	Setaria faberi	Ambrosia trifi>	Conyza canaden>
Pest Name	Giant foxtail	Giant ragweed	Canada horsewe>	Giant foxtail	Giant ragweed	Canada horsewe>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/14/11	7/14/11	7/14/11	8/8/11	8/8/11	8/8/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	84 35	84 35	84 35	109 60	109 60	109 60
Trt-Eval Interval	35 DA-B	35 DA-B	35 DA-B	60 DA-B	60 DA-B	60 DA-B
Plant-Eval Interval	53 DP-1	53 DP-1	53 DP-1	78 DP-1	78 DP-1	78 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	68 DE-1	68 DE-1	68 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	17	18	19	20	21	22
1	Roundup Power Max	4.5	22 oz/a		A	95	57	13	93	75	43
	1 N-pak ams	100	3 qt/a		A						
2	Roundup Power Max	4.5	22 oz/a		A	73	57	13	97	77	37
	2 2,4-D Ester	4	16 oz/a		A						
	2 N-pak ams	100	3 qt/a		A						
3	Sharpen	2.85	1 oz/a		A	85	73	10	96	83	33
	3 Roundup Power Max	4.5	22 oz/a		A						
	3 MSO	100	0.6 qt/a		A						
	3 N-pak ams	100	3 qt/a		A						
4	OpTill	68	2 oz/a		A	63	70	27	92	68	55
	4 Roundup Power Max	4.5	22 oz/a		A						
	4 MSO	100	0.6 qt/a		A						
	4 N-pak ams	100	3 qt/a		A						
5	Sharpen	2.85	1 oz/a		A	73	77	20	99	80	27
	5 Scepter	70	2.8 oz/a		A						
	5 Roundup Power Max	4.5	22 oz/a		A						
	5 MSO	100	0.6 qt/a		A						
	5 N-pak ams	100	3 qt/a		A						
6	Verdict	5.57	5 oz/a		A	57	23	23	94	53	53
	6 Roundup Power Max	4.5	22 oz/a		A						
	6 MSO	100	0.6 qt/a		A						
	6 N-pak ams	100	3 qt/a		A						
7	Prefix	5.29	2 pt/a		A	40	13	27	91	60	47
	7 Touchdown Total	4.17	24 oz/a		A						
	7 MSO	100	0.6 qt/a		A						
	7 N-pak ams	100	3 qt/a		A						
8	Prefix	5.29	2 pt/a		A	33	20	40	84	65	53
	8 Gramoxone Inteon	2	3 pt/a		A						
	8 MSO	100	0.6 qt/a		A						
	8 N-pak ams	100	3 qt/a		A						
9	Boundary	6.5	1.5 pt/a		A	67	40	20	98	70	30
	9 Touchdown Total	4.17	24 oz/a		A						
	9 MSO	100	0.6 qt/a		A						
	9 N-pak ams	100	3 qt/a		A						
10	Boundary	6.5	1.5 pt/a		A	67	68	17	96	80	27
	10 Gramoxone Inteon	2	3 pt/a		A						
	10 MSO	100	0.6 qt/a		A						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	ERICA	SETFA	AMBTR	ERICA					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Conyza canaden>	Setaria faberi	Ambrosia trifi>	Conyza canaden>					
Pest Name	Giant foxtail	Giant ragweed	Canada horsewe>	Giant foxtail	Giant ragweed	Canada horsewe>					
Crop Code											
BCH Scale											
Crop Scientific Name											
Crop Name											
Rating Date	7/14/11	7/14/11	7/14/11	8/8/11	8/8/11	8/8/11					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1	1					
Days After First/Last Applic.	84 35	84 35	84 35	109 60	109 60	109 60					
Trt-Eval Interval	35 DA-B	35 DA-B	35 DA-B	60 DA-B	60 DA-B	60 DA-B					
Plant-Eval Interval	53 DP-1	53 DP-1	53 DP-1	78 DP-1	78 DP-1	78 DP-1					
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	68 DE-1	68 DE-1	68 DE-1					
Number of Decimals	0	0	0	0	0	0					
Trt Treatment	Form Conc	Other Rate	Other Rate	Appl Unit	Code	17	18	19	20	21	22
10 N-pak ams	100	3 qt/a		A							
11 Sharpen	2.85	1 oz/a		A		67	60	23	97	63	43
11 Prefix	5.29	2 pt/a		A							
11 Touchdown Total	4.17	24 oz/a		A							
11 MSO	100	0.6 qt/a		A							
11 N-pak ams	100	3 qt/a		A							
12 Sharpen	2.85	1 oz/a		A		77	40	30	94	63	55
12 Prefix	5.29	2 pt/a		A							
12 Gramoxone Inteon	2	3 pt/a		A							
12 MSO	100	0.6 qt/a		A							
12 N-pak ams	100	3 qt/a		A							
13 Sharpen	2.85	1 oz/a		A		72	57	20	96	82	37
13 Boundary	6.5	1.5 pt/a		A							
13 Touchdown Total	4.17	24 oz/a		A							
13 MSO	100	0.6 qt/a		A							
13 N-pak ams	100	3 qt/a		A							
14 Sharpen	2.85	1 oz/a		A		40	62	20	93	73	40
14 Boundary	6.5	1.5 pt/a		A							
14 Gramoxone Inteon	2	3 pt/a		A							
14 MSO	100	0.6 qt/a		A							
14 N-pak ams	100	3 qt/a		A							
LSD (P=.05)						43.4	37.0	19.9	11.4	27.1	25.5
Standard Deviation						25.8	22.0	11.9	6.8	16.2	15.2
CV						39.81	43.06	54.77	7.18	22.79	36.7
Bartlett's X2						10.711	8.382	8.234	30.259	9.677	10.174
P(Bartlett's X2)						0.554	0.755	0.511	0.004*	0.72	0.601
Replicate F						0.017	1.919	0.017	2.517	1.792	3.368
Replicate Prob(F)						0.9832	0.1669	0.9832	0.1001	0.1866	0.0500
Treatment F						1.367	2.610	1.265	0.927	0.950	1.364
Treatment Prob(F)						0.2400	0.0180	0.2936	0.5405	0.5204	0.2417

Ohio State University Horticulture and Crop Science

Kixor applied preplant burndown,

Title No. 2:

Trial ID: 11NTS7
Location: Western Branch F-10W
Project ID: 11NTS7

Protocol ID: 11NTS7
Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux
Sponsor Contact: Caren Judge, BASF, Syngenta SS

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

STEME, Stellaria media, = US
LAMPU, Lamium purpureum, = US
LAMAM, Lamium amplexicaule, = US
CAPBP, Capsella bursa-pastoris, = US
ERYRE, Erysimum repandum, = US
AMBTR, Ambrosia trifida, = US
SETFA, Setaria faberi, = US
ERICA, Conyza canadensis, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

-17 DP-1 = 1 5/22/11
1 DP-1 = 1 5/22/11
17 DP-1 = 1 5/22/11
25 DP-1 = 1 5/22/11
53 DP-1 = 1 5/22/11
78 DP-1 = 1 5/22/11