

Ohio State University
Horticulture and Crop Science

Soil Description

Description Name: G-6
 % OM: 2.2 Texture: SIL silt loam
 pH: 6.3 Soil Name: Crosby Silt Loam
 CEC: 13.6 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B
Application Date:	Jun-20-2012	Jun-26-2012
Time of Day:	8:00AM	8:30AM
Application Method:	SPRAY	SPRAY
Application Timing:	EPO	EPO
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	79 F	63.7 F
% Relative Humidity:	79	58.4
Wind Velocity, Unit:	2 MPH	5 MPH
Wind Direction:	N	NE
Dew Presence (Y/N):	Y yes	N no
Soil Temperature, Unit:	72 F	68 F
Soil Moisture:	MOIST	DRY
% Cloud Cover:	0	0
Next Rain Occurred On:	Jun-29-2012	Jun-29-2012

Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:	BBCH		BBCH	
Stage Majority, Percent:	17	100		
Height, Unit:	7	IN	9	IN
Height Minimum, Maximum:	6	8	8	10

Pest Stage At Each Application

	A		B	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W
Stage Majority, Percent:	23	100	24	100
Height, Unit:	10	IN	11	IN
Height Minimum, Maximum:	10	11	6	16
Density, Unit:	18	M2	18	M2
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W
Stage Majority, Percent:	19	100	19	100
Height, Unit:	10.5	IN	12	IN
Height Minimum, Maximum:	7	11	6	18
Density, Unit:	8	M2	8	M2
Pest 3 Code, Type, Scale:	AMARE	W	AMARE	W
Stage Majority, Percent:	14	100	16	100
Height, Unit:	1.5	IN	5	IN
Height Minimum, Maximum:	1	2.5	2	8
Density, Unit:	34	M2	34	M2
Pest 4 Code, Type, Scale:	CHEAL	W	CHEAL	W
Stage Majority, Percent:	14	100	18	100
Height, Unit:	1	IN	3	IN
Height Minimum, Maximum:	1	1.5	2	4
Density, Unit:	2	M2	2	M2
Pest 5 Code, Type, Scale:	ABUTH	W	ABUTH	W
Stage Majority, Percent:	14	100	16	100
Height, Unit:	2	IN	5	IN
Height Minimum, Maximum:	2	3	4	6
Density, Unit:	3	M2	3	M2

Application Equipment

	A	B
Appl. Equipment:	Backpack	Backpack
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	44 PSI	44 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6 FT	6 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	20 gal/ac	20 gal/ac
Mix Size, Unit:	2 Liters	2 Liters
Propellant:	COMCO2	COMCO2

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TO DETERMINE HERBICIDAL EFFICACY AND SELECTIVITY OF CHA-044 WHEN APPLIED POST TO SOYBEAN COBRA EFFICACY

Title No. 2:

Trial ID: 12 POS1

Location: Western Branch

Project ID: HGLXMAFOMME1204, MD 64.03

Protocol ID: 12 POS1

Study Director: Bryan Reeb

Investigator: Dr. Mark M. Loux

Sponsor Contact: Brent Jacobson, Chemin; Eric Ott, Val

Trt	Treatment	Rate	Other	Other	Growth	Appl	18	19	20
No.	Name	Rate	Rate	Rate	Stage	Code			
1	CHA-044	1.31 lb ai/a	32 fl oz/a		POS	B	15.0 bcd	11.9 a	58.8 bcd
1	Glyphos X-tra	0.75 lb ae/a	32 oz/a		POS	B			
1	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
2	CHA-044	1.64 lb ai/a	40 fl oz/a		POS	B	15.3 abc	11.8 a	60.2 abc
2	Glyphos X-tra	0.75 lb ae/a	32 oz/a		POS	B			
2	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
3	Rhythm	0.375 lb ai/a	25.5 fl oz/a		POS	B	15.9 ab	12.0 a	62.2 ab
3	Glyphos X-tra	0.75 lb ae/a	32 oz/a		POS	B			
3	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
4	Dawn	0.375 lb ai/a	24 fl oz/a		EPO	A	16.3 a	11.8 a	64.2 a
4	Glyphos X-tra	0.75 lb ae/a	32 oz/a		EPO	A			
4	N-pak ams	2.5 % v/v	2 qt/a		EPO	A			
5	Prefix	1.32 lb ai/a	32 fl oz/a		POS	B	15.2 abc	11.9 a	59.5 a-d
5	Glyphos X-tra	0.75 lb ae/a	32 oz/a		POS	B			
5	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
6	Prefix	1.65 lb ai/a	40 fl oz/a		POS	B	15.3 abc	11.8 a	60.0 abc
6	Glyphos X-tra	0.75 lb ae/a	32 oz/a		POS	B			
6	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
7	Roundup Power Max	0.77 lb ae/a	22 oz/a		POS	B	15.6 abc	11.6 a	61.2 abc
7	COC	0.83 % v/v	1.33 pt/a		POS	B			
7	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
8	Cobra	0.125 lb ai/a	8 oz/a		POS	B	12.1 g	12.6 a	47.0 f
8	COC	0.83 % v/v	1.33 pt/a		POS	B			
8	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
9	Cobra	0.156 lb ai/a	10 oz/a		POS	B	13.2 fg	12.5 a	51.3 ef
9	COC	0.83 % v/v	1.33 pt/a		POS	B			
9	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
10	Cobra	0.188 lb ai/a	12 oz/a		POS	B	13.6 ef	12.5 a	53.1 e
10	COC	0.83 % v/v	1.33 pt/a		POS	B			
10	N-pak ams	2.5 % v/v	2 qt/a		POS	B			
11	Cobra	0.156 lb ai/a	10 oz/a		POS	B	13.5 ef	11.6 a	52.9 e

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type								
Pest Code								
Pest Scientific Name								
Pest Name								
Crop Code	GLXMA	GLXMA	GLXMA					
BBCH Scale	BSOY	BSOY	BSOY					
Crop Scientific Name	Glycine max	Glycine max	Glycine max					
Crop Name	Soybean	Soybean	Soybean					
Rating Date	Oct-17-2012	Oct-17-201	Oct-17-2012					
Rating Type	YIELD	MOICON	YIELD					
Rating Unit	LBS	%	BU					
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT					
Collection Basis, Unit	187.5 FT2	187.5 FT2	187.5 FT2					
Number of Subsamples	1	1	1					
Days After First/Last Applic.	119 113	119 113	119 113					
Trt-Eval Interval								
Plant-Eval Interval	152 DP-1	152 DP-1	152 DP-1					
Days After Emergence	143 DE-1	143 DE-1	143 DE-1					
ARM Action Codes	TY1							
Number of Decimals	1	1	1					
Trt Treatment No. Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	18	19	20
11 Resource	0.027 lb ai/a	4 oz/a		POS	B			
11 COC	0.83 % v/v	1.33 pt/a		POS	B			
11 N-pak ams	2.5 % v/v	2 qt/a		POS	B			
12 Flexstar	0.352 lb ai/a	1.5 pt/a		POS	B	14.5 cde	13.0 a	56.0 cde
12 COC	0.83 % v/v	1.33 pt/a		POS	B			
12 N-pak ams	2.5 % v/v	2 qt/a		POS	B			
13 Roundup Power Max	0.77 lb ae/a	22 oz/a		POS	B	13.9 def	11.6 a	54.7 de
13 Cobra	0.156 lb ai/a	10 oz/a		POS	B			
13 COC	0.83 % v/v	1.33 pt/a		POS	B			
13 N-pak ams	2.5 % v/v	2 qt/a		POS	B			
14 UTC						9.7 h	11.7 a	38.3 g
LSD (P=.05)						1.25	1.38	5.23
Standard Deviation						0.88	0.96	3.66
CV						6.17	8.01	6.57

Crop Code
GLXMA, BSOY, Glycine max, = US

Rating Type
YIELD = yield
MOICON = moisture content

Rating Unit
% = percent
BU = bushel

PLOT = total plot

FT2 = square foot

Plant-Eval Interval
152 DP-1 = 1 GLXMA May-18-2012

ARM Action Codes
TY1 = $3.872 * [18] * (100 - [19]) / 87$