

Soil Description

Description Name: G-7 East
% OM: 2.5 **Texture:** SICL silty clay loam
pH: 6 **Soil Name:** Crosby
CEC: 17.4 **Fert. Level:** G good
Soil Drainage: F fair

Application Description

A
Application Date: 4-24-2015
Appl. Start Time: 10:00 AM
Appl. Stop Time: 10:30 AM
Application Method: SPRAY
Application Timing: 7 EPP
Application Placement: BROSOI
Applied By: REEB
Air Temperature, Unit: 69 F
% Relative Humidity: 51
Wind Velocity, Unit: 6 MPH
Wind Direction: N
Dew Presence (Y/N): Y yes
Soil Temperature, Unit: 41 F
Soil Moisture: GOOD
% Cloud Cover: 0
Next Moisture Occurred On: 4-25-2015
Time to Next Moisture, Unit: 1 DAY

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale: LAMPU W
Stage Majority, Percent: 65 100
Diameter, Unit: 6 IN
Height, Unit: 5 IN
Height Minimum, Maximum: 3 6
Pest 2 Code, Type, Scale: STEME W
Stage Majority, Percent: 65 100
Diameter, Unit: 12 IN
Height, Unit: 3 IN
Height Minimum, Maximum: 1 4
Pest 3 Code, Type, Scale: RANAB W
Stage Majority, Percent: 65 100
Diameter, Unit: 3 IN
Height, Unit: 6 IN
Height Minimum, Maximum: 4 7
Pest 4 Code, Type, Scale: ERYRE W
Stage Majority, Percent: 19 100
Diameter, Unit: 4 IN
Height, Unit: 2 IN
Height Minimum, Maximum: 1 3
Pest 5 Code, Type, Scale: VERAR W
Stage Majority, Percent: 19 100
Diameter, Unit: 4 IN
Height, Unit: 0.5 IN
Height Minimum, Maximum: 0.25 1
Pest 6 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 12 100
Diameter, Unit: 3 IN
Height, Unit: 0.5 IN
Height Minimum, Maximum: 0.5 1

Application Equipment

Appl. Equipment: A
6' BACKPACK
Equipment Type: BACCAI
Operation Pressure, Unit: 44 PSI
Nozzle Type: AIXR
Nozzle Size: 11015
Nozzle Spacing, Unit: 18 IN
Nozzles/Row: 4
Boom Length, Unit: 6.67 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 15 gal/ac
Mix Size, Unit: 1 liters
Propellant: COMCO2

The Ohio State University

Demonstrate BASF soybean herbicide portfolio effectiveness compared to current commercial standards

Trial ID: 15 NTRESIDUAL2 Location: G-7 MIDDLE Trial Year: 2015
 Protocol ID: 15 NTRESIDUAL2 Investigator: Dr. Mark M. Loux
 Project ID: MKD-H-2015-US-S32-A-01.0 Study Director: Bryan Reeb
 Sponsor Contact: Trevor Kraus, BASF

Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Crop Variety	Asgrow 3533	Asgrow 3533	Asgrow 3533	Asgrow 3533
Rating Date	10-7-2015	10-7-2015	10-7-2015	10-7-2015
Rating Type	WEIGHT	MOICON	WEITES	YIELD
Rating Unit	LBS	%	LBS/BU	BU
Sample Size, Unit	1 PLOT			1 A
Number of Subsamples	1	1	1	1
SE Group No.	9	10	11	12
Days After First/Last Applic.	166 166	166 166	166 166	166 166
Trt-Eval Interval	166 DA-A	166 DA-A	166 DA-A	166 DA-A
Plant-Eval Interval	161 DP-1	161 DP-1	161 DP-1	161 DP-1
Days After Emergence	150 DE-1	150 DE-1	150 DE-1	150 DE-1
ARM Action Codes				TY1
Number of Decimals	1	1	1	1

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit	Appl Code Description	9	10	11	12
1					14.8 a	11.3 a	53.7 a	58.4 a
2 Sharpen	1 oz/a		A	7 EPP	17.6 a	11.0 a	54.2 a	69.8 a
2 Zidua SC	4 oz/a		A	7 EPP				
2 Roundup Power Max	22 oz/a		A	7 EPP				
2 Exuro	19.2 oz/a		A	7 EPP				
2 N-pak ams	1.5 qt/a		A	7 EPP				
3 OpTill	2 oz/a		A	7 EPP	16.8 a	11.1 a	53.1 a	66.4 a
3 Outlook	10 oz/a		A	7 EPP				
3 Roundup Power Max	22 oz/a		A	7 EPP				
3 Exuro	19.2 oz/a		A	7 EPP				
3 N-pak ams	1.5 qt/a		A	7 EPP				
4 OpTill	2 oz/a		A	7 EPP	17.1 a	11.3 a	54.7 a	67.4 a
4 Zidua WG	4 oz/a		A	7 EPP				
4 Roundup Power Max	22 oz/a		A	7 EPP				
4 Exuro	19.2 oz/a		A	7 EPP				
4 N-pak ams	1.5 qt/a		A	7 EPP				
5 Verdict	5 oz/a		A	7 EPP	16.8 a	11.2 a	54.5 a	66.4 a
5 Prowl H2O	40 oz/a		A	7 EPP				
5 Roundup Power Max	22 oz/a		A	7 EPP				
5 Exuro	19.2 oz/a		A	7 EPP				
5 N-pak ams	1.5 qt/a		A	7 EPP				
6 2,4-D Ester	16 oz/a		A	7 EPP	17.5 a	11.0 a	53.9 a	69.1 a
6 BAS 961(Spartan Gaurd) @ 45 oz			A	7 EPP				
6 Prowl H2O	2.5 pt/a		A	7 EPP				
6 Spartan	4 oz/a		A	7 EPP				
6 Roundup Power Max	22 oz/a		A	7 EPP				
6 Exuro	19.2 oz/a		A	7 EPP				
6 N-pak ams	1.5 qt/a		A	7 EPP				

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.

Pest Type				
Pest Code				
Pest Scientific Name				
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Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
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Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
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Rating Unit	LBS	%	LBS/BU	BU
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Number of Subsamples	1	1	1	1
SE Group No.	9	10	11	12
Days After First/Last Applic.	166 166	166 166	166 166	166 166
Trt-Eval Interval	166 DA-A	166 DA-A	166 DA-A	166 DA-A
Plant-Eval Interval	161 DP-1	161 DP-1	161 DP-1	161 DP-1
Days After Emergence	150 DE-1	150 DE-1	150 DE-1	150 DE-1
ARM Action Codes				TY1
Number of Decimals	1	1	1	1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	9	10	11	12
7	2,4-D Ester	16 oz/a		A	7	EPP	18.0 a	11.0 a	54.3 a	71.1 a
7	Fierce	3.75 oz/a		A	7	EPP				
7	Roundup Power Max	22 oz/a		A	7	EPP				
7	Exuro	19.2 oz/a		A	7	EPP				
7	N-pak ams	1.5 qt/a		A	7	EPP				
8	2,4-D Ester	16 oz/a		A	7	EPP	17.9 a	11.4 a	54.7 a	70.5 a
8	Fierce XLT	5.25 oz/a		A	7	EPP				
8	Roundup Power Max	22 oz/a		A	7	EPP				
8	Exuro	19.2 oz/a		A	7	EPP				
8	N-pak ams	1.5 qt/a		A	7	EPP				
9	2,4-D Ester	16 oz/a		A	7	EPP	17.0 a	11.0 a	54.3 a	67.5 a
9	Prefix	32 oz/a		A	7	EPP				
9	Roundup Power Max	22 oz/a		A	7	EPP				
9	Exuro	19.2 oz/a		A	7	EPP				
9	N-pak ams	1.5 qt/a		A	7	EPP				
10	2,4-D Ester	16 oz/a		A	7	EPP	16.4 a	11.1 a	54.0 a	64.8 a
10	Valor XLT @ 3.0 oz									
10	Valor SX	1.76 oz/a		A	7	EPP				
10	Classic	1.24 oz/a		A	7	EPP				
10	Roundup Power Max	22 oz/a		A	7	EPP				
10	Exuro	19.2 oz/a		A	7	EPP				
10	N-pak ams	1.5 qt/a		A	7	EPP				
11	2,4-D Ester	16 oz/a		A	7	EPP	17.7 a	10.9 a	54.8 a	70.4 a
11	Authority XL	8 oz/a		A	7	EPP				
11	Roundup Power Max	22 oz/a		A	7	EPP				
11	Exuro	19.2 oz/a		A	7	EPP				
11	N-pak ams	1.5 qt/a		A	7	EPP				

Pest Type	Weight	Moisture	TestWeight	Weight				
Pest Code								
Pest Scientific Name								
Pest Name								
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Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max				
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Trt-Eval Interval	166 DA-A	166 DA-A	166 DA-A	166 DA-A				
Plant-Eval Interval	161 DP-1	161 DP-1	161 DP-1	161 DP-1				
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ARM Action Codes				TY1				
Number of Decimals	1	1	1	1				
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit	Appl Description	9	10	11	12
12 OpTill	2 oz/a		A	7 EPP	17.9 a	11.1 a	54.5 a	70.9 a
12 Zidua	4 oz/a		A	7 EPP				
12 Sencor DF	6 oz/a		A	7 EPP				
12 Roundup Power Max	22 oz/a		A	7 EPP				
12 Exuro	19.2 oz/a		A	7 EPP				
12 N-pak ams	1.5 qt/a		A	7 EPP				
LSD P=.05					1.80	0.40	1.54	7.14
Standard Deviation					1.06	0.24	0.91	4.22
CV					6.21	2.13	1.68	6.23
Grand Mean					17.12	11.11	54.23	67.72
Bartlett's X2					9.545	8.804	14.452	9.707
P(Bartlett's X2)					0.572	0.64	0.209	0.557
Skewness					-0.7151	0.0841	-1.468*	-0.7108
Kurtosis					0.2846	-0.3304	3.6104*	0.2733
Replicate F					18.973	2.803	1.726	19.087
Replicate Prob(F)					0.0001	0.0824	0.2013	0.0001
Treatment F					2.159	1.061	0.824	2.197
Treatment Prob(F)					0.0599	0.4326	0.6186	0.0559

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

WEIGHT = weight

MOICON = moisture content

WEITES = weight - test

YIELD = yield

Rating Unit

% = percent

BU = bushel

PLOT = total plot

A = acre

Plant-Eval Interval

161 DP-1 = 1 GLXMA 4-29-2015

ARM Action Codes

TY1 = 3.872*[9]*(100-[10])/87