

# The Ohio State University

## Authority/Anthem/Cadet/Marvel pre and post treatments for Non-Gmo soybean programs

Trial ID: 14 SOYYLD2 Location: Western Branch Trial Year: 2014  
Protocol ID: 14 SOYYLD2 Investigator: Dr. Mark M. Loux  
Project ID: SULF.SOY.14.JPR.01(b) Study Director: Bryan Reeb  
Sponsor Contact: Joe Reed, FMC

Crop 1: GLXMA Glycine max Soybean Crop Description  
Variety: PIONEER 35T58  
Planting Rate, Unit: 178000 S/A Planting Date: 5/27/2014  
Depth, Unit: 1 IN Planting Method: PLANTD planted  
Row Spacing, Unit: 15 IN Planting Equipment: FE Field Equipment  
Seed Bed: SMOTRA smooth/trashy Emergence Date: 6/2/2014

Pest Description  
Pest 1 Type: W Code: AMBTR Ambrosia trifida  
Common Name: Giant ragweed  
Pest 2 Type: W Code: SETFA Setaria faberi  
Common Name: Giant foxtail  
Pest 3 Type: W Code: AMARE Amaranthus retroflexus  
Common Name: Redroot pigweed  
Pest 4 Type: W Code: CHEAL Chenopodium album  
Common Name: Common lambsquarters  
Pest 5 Type: W Code: IPOHE Ipomoea hederacea  
Common Name: Ivyleaf morningglory

Site and Design  
Treated Plot Width: 6.67 FT Site Type: FIELD field  
Treated Plot Length: 40 FT Experimental Unit: 1 PLOT plot  
Treated Plot Area: 266.8 FT2 Treatments: 20 Tillage Type: CONTIL conventional-till  
Replications: 4 Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description  
Description Name: G-6  
% OM: 2.2 Texture: SICL silty clay loam  
pH: 6.3 Soil Name: Crosby  
CEC: 13.6 Fert. Level: G good  
Soil Drainage: G good

Application Description  
Application Date: A 5/27/2014 B 6/20/2014  
Appl. Start Time: 2:05 PM 10:00 AM  
Application Method: SPRAY SPRAY  
Application Timing: PRE V1-V2  
Application Placement: BROSOIL BROFOL  
Applied By: REEB REEB  
Air Temperature, Unit: 86.2 F 75.0 F  
% Relative Humidity: 55.3 76.7  
Wind Velocity, Unit: 5.5 MPH 2.3 MPH  
Wind Direction: W SSE  
Dew Presence (Y/N): N no Y yes  
Soil Temperature, Unit: 72 F 76 F  
Soil Moisture: DRY WET  
% Cloud Cover: 50 60  
Next Moisture Occurred On: 6/2/2014 6/22/2014  
Time to Next Moisture, Unit: 6 DAY 2 DAY

Crop Stage At Each Application  
Crop 1 Code, BBCH Scale: A GLXMA BSOY B GLXMA BSOY  
Stage Scale Used: BBCH  
Stage Majority, Percent: 12 100  
Height, Unit: 5.5 IN  
Height Minimum, Maximum: 5 6

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## Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	14	100
Height, Unit:	5.5	IN
Height Minimum, Maximum:	5	6
Density, Unit:	2.25	M2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	13	100
Height, Unit:	4	IN
Height Minimum, Maximum:	4	5
Density, Unit:	23	M2
Pest 3 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:	15	100
Height, Unit:	2	IN
Height Minimum, Maximum:	2	2.5
Density, Unit:	6	M2
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Density, Unit:	1.75	M2
Pest 5 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	12	100
Height, Unit:	4	IN
Height Minimum, Maximum:	3	4
Density, Unit:	1.25	M2

## Application Equipment

	A	B
Appl. Equipment:	6' BACKPACK	6' BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	50 PSI	50 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	4
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	2 liters	1 liters
Propellant:	COMCO2	COMCO2

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## Authority/Anthem/Cadet/Marvel pre and post treatments for Non-Gmo soybean programs

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 Project ID: SULF.SOY.14.JPR.01(b) Study Director: Bryan Reeb  
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	AMARE		
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Amaranthus retrofractus		
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/19/2014
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYLMA
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	16 16	16 16	16 16	16 16	23 23
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	23 DA-A
Plant-Eval Interval	16 DP-1	16 DP-1	16 DP-1	16 DP-1	23 DP-1
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	10 DE-1	17 DE-1
Number of Decimals	0	0	0	0	

Trt Treatment	Rate	Rate	Other	Other	Growth	Appl	1	2	3	4	5	
No. Name	Rate	Unit	Rate	Rate	Unit	Stage	Code					
1 Authority First	0.28 lb ai/a	ai/a	6.4 oz/a			PRE	A	0	56	71	100	0.0
1 Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a			V1-V3	B					
1 Select Max	0.0625 lb ai/a	ai/a	8 oz/a			V1-V3	B					
1 COC	1 % v/v	v/v	0.6 qt/a			V1-V3	B					
1 N-pak ams	5 % v/v	v/v	3 qt/a			V1-V3	B					
2 Authority First	0.28 lb ai/a	ai/a	6.4 oz/a			PRE	A	0	65	71	98	0.3
2 Marvel	0.17 lb ai/a	ai/a	7.25 oz/a			V1-V3	B					
2 Select Max	0.0625 lb ai/a	ai/a	8 oz/a			V1-V3	B					
2 COC	1 % v/v	v/v	0.6 qt/a			V1-V3	B					
2 N-pak ams	5 % v/v	v/v	3 qt/a			V1-V3	B					
3 Authority First	0.175 lb ai/a	ai/a	4 oz/a			PRE	A	0	59	58	100	0.0
3 Marvel	0.17 lb ai/a	ai/a	7.25 oz/a			V1-V3	B					
3 Select Max	0.0625 lb ai/a	ai/a	8 oz/a			V1-V3	B					
3 COC	1 % v/v	v/v	0.6 qt/a			V1-V3	B					
3 N-pak ams	5 % v/v	v/v	3 qt/a			V1-V3	B					
4 Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a			PRE	A	0	48	56	100	0.0
4 Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a			V1-V3	B					
4 Select Max	0.0625 lb ai/a	ai/a	8 oz/a			V1-V3	B					
4 COC	1 % v/v	v/v	0.6 qt/a			V1-V3	B					
4 N-pak ams	5 % v/v	v/v	3 qt/a			V1-V3	B					
5 Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a			PRE	A	0	30	53	99	0.0
5 Marvel	0.17 lb ai/a	ai/a	7.25 oz/a			V1-V3	B					
5 Select Max	0.0625 lb ai/a	ai/a	8 oz/a			V1-V3	B					
5 COC	1 % v/v	v/v	0.6 qt/a			V1-V3	B					
5 N-pak ams	5 % v/v	v/v	3 qt/a			V1-V3	B					
6 Authority XL	0.175 lb ai/a	ai/a	4 oz/a			PRE	A	0	48	65	100	0.0
6 Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a			V1-V3	B					
6 Select Max	0.0625 lb ai/a	ai/a	8 oz/a			V1-V3	B					
6 COC	1 % v/v	v/v	0.6 qt/a			V1-V3	B					
6 N-pak ams	5 % v/v	v/v	3 qt/a			V1-V3	B					
7 Authority XL	0.175 lb ai/a	ai/a	4 oz/a			PRE	A	0	30	73	99	0.0
7 Marvel	0.17 lb ai/a	ai/a	7.25 oz/a			V1-V3	B					
7 Select Max	0.0625 lb ai/a	ai/a	8 oz/a			V1-V3	B					
7 COC	1 % v/v	v/v	0.6 qt/a			V1-V3	B					
7 N-pak ams	5 % v/v	v/v	3 qt/a			V1-V3	B					

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	AMARE	
Pest Scientific Name		Setaria faberi	Ambrosia trifida	Amaranthus retrofractus	
Pest Name		Giant foxtail	Giant ragweed	Redroot pigweed	
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
Rating Date		6/12/2014	6/12/2014	6/12/2014	6/12/2014
Rating Type		PHYGEN	CONTRO	CONTRO	PHYLMA
Rating Unit		%	%	%	%
Number of Subsamples		1	1	1	1
Days After First/Last Applic.		16 16	16 16	16 16	23 23
Trt-Eval Interval		16 DA-A	16 DA-A	16 DA-A	23 DA-A
Plant-Eval Interval		16 DP-1	16 DP-1	16 DP-1	23 DP-1
Days After Emergence		10 DE-1	10 DE-1	10 DE-1	17 DE-1
Number of Decimals		0	0	0	0

Trt	Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5
8	Authority MAXX	0.248 lb ai/a	ai/a	6 oz/a	oz/a	PRE	A	0	38	66	100	0.0
8	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B					
8	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
8	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
8	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
9	Authority MAXX	0.248 lb ai/a	ai/a	6 oz/a	oz/a	PRE	A	0	45	60	99	0.0
9	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B					
9	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
9	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
9	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
10	Authority Assist	0.156 lb ai/a	ai/a	5 oz/a	oz/a	PRE	A	0	55	48	100	0.0
10	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B					
10	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
10	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
10	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
11	Authority Assist	0.156 lb ai/a	ai/a	5 oz/a	oz/a	PRE	A	0	56	43	100	0.0
11	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B					
11	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
11	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
11	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
12	Authority Elite	1.37 lb ai/a	ai/a	25 oz/a	oz/a	PRE	A	0	97	38	100	3.0
12	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B					
12	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
12	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
12	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
13	Authority Elite	1.37 lb ai/a	ai/a	25 oz/a	oz/a	PRE	A	0	93	38	100	2.3
13	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B					
13	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
13	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
13	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
14	Anthem	0.101 lb ai/a	ai/a	6 oz/a	oz/a	V1-V3	B	0	0	0	0	0.0
14	Roundup Power Max	1.13 lb ae/a	ae/a	32 oz/a	oz/a	V1-V3	B					
14	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
14	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
14	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
15	Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	0	65	78	100	0.0
15	Anthem	0.101 lb ai/a	ai/a	6 oz/a	oz/a	V1-V3	B					
15	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
15	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
15	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
16	Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	0	73	45	98	0.0
16	Anthem	0.101 lb ai/a	ai/a	6 oz/a	oz/a	V1-V3	B					
16	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
16	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
16	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	AMARE	
Pest Scientific Name		Setaria faberi	Ambrosia trifida	Amaranthus retrofractus	
Pest Name		Giant foxtail	Giant ragweed	Redroot pigweed	
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
Rating Date		6/12/2014	6/12/2014	6/12/2014	6/19/2014
Rating Type		PHYGEN	CONTRO	CONTRO	PHYLMA
Rating Unit		%	%	%	%
Number of Subsamples		1	1	1	1
Days After First/Last Applic.		16 16	16 16	16 16	23 23
Trt-Eval Interval		16 DA-A	16 DA-A	16 DA-A	23 DA-A
Plant-Eval Interval		16 DP-1	16 DP-1	16 DP-1	23 DP-1
Days After Emergence		10 DE-1	10 DE-1	10 DE-1	17 DE-1
Number of Decimals		0	0	0	0

Trt	Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5
17	Authority XL	0.175 lb ai/a		4 oz/a		PRE	A	0	50	48	100	0.3
17	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B					
17	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B					
17	COC	1 % v/v		0.6 qt/a		V1-V3	B					
17	N-pak ams	5 % v/v		3 qt/a		V1-V3	B					
18	Authority MAXX	0.165 lb ai/a		4 oz/a		PRE	A	0	43	50	93	0.5
18	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B					
18	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B					
18	COC	1 % v/v		0.6 qt/a		V1-V3	B					
18	N-pak ams	5 % v/v		3 qt/a		V1-V3	B					
19	Authority Elite	1.37 lb ai/a		25 oz/a		PRE	A	0	89	63	100	2.5
19	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B					
19	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B					
19	COC	1 % v/v		0.6 qt/a		V1-V3	B					
19	N-pak ams	5 % v/v		3 qt/a		V1-V3	B					
20	UTC							0	0	0	0	0.0
	LSD (P=.05)							0.0	22.5	21.8	5.4	0.78
	Standard Deviation							0.0	15.9	15.4	3.8	0.55
	CV							0.0	30.64	30.24	4.3	126.69
	Bartlett's X2							0.0	24.917	24.657	17.418	7.119
	P(Bartlett's X2)							.	0.097	0.103	0.004*	0.212
	Replicate F							0.000	1.795	0.799	0.985	0.800
	Replicate Prob(F)							1.0000	0.1583	0.4996	0.4063	0.4989
	Treatment F							0.000	10.509	7.435	254.022	11.552
	Treatment Prob(F)							1.0000	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMARE	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Amaranthus retrofractus	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Giant foxtail
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
Rating Date	6/19/2014	6/19/2014	6/19/2014	7/2/2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23	36 12
Trt-Eval Interval	23 DA-A	23 DA-A	23 DA-A	
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	36 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	30 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	6	7	8	9	10
1	Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	52.5	53.4	98.8	0.0	94.0
1	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B					
1	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
1	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
1	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
2	Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	47.5	56.3	95.0	1.5	99.5
2	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B					
2	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
2	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
2	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
3	Authority First	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	57.5	45.0	98.8	3.5	98.8
3	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B					
3	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
3	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
3	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
4	Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	35.0	45.0	97.5	0.0	95.8
4	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B					
4	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
4	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
4	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
5	Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	20.0	45.0	88.8	3.3	99.0
5	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B					
5	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
5	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
5	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
6	Authority XL	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	32.5	56.1	98.8	0.3	90.0
6	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B					
6	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
6	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
6	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					
7	Authority XL	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	27.5	55.0	98.8	5.0	100.0
7	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B					
7	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B					
7	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B					
7	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMARE	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Giant foxtail
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
Rating Date	6/19/2014	6/19/2014	6/19/2014	7/2/2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23	36 12
Trt-Eval Interval	23 DA-A	23 DA-A	23 DA-A	36 DP-1
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	36 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	30 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	6	7	8	9	10
8	Authority MAXX	0.248	lb ai/a	6	oz/a	PRE	A	35.0	55.0	97.5	0.5	92.5
8	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B					
8	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
8	COC	1	% v/v	0.6	qt/a	V1-V3	B					
8	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					
9	Authority MAXX	0.248	lb ai/a	6	oz/a	PRE	A	40.0	47.5	95.0	2.3	99.0
9	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B					
9	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
9	COC	1	% v/v	0.6	qt/a	V1-V3	B					
9	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					
10	Authority Assist	0.156	lb ai/a	5	oz/a	PRE	A	42.5	35.0	95.0	0.0	95.0
10	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B					
10	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
10	COC	1	% v/v	0.6	qt/a	V1-V3	B					
10	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					
11	Authority Assist	0.156	lb ai/a	5	oz/a	PRE	A	40.0	20.0	100.0	5.3	100.0
11	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B					
11	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
11	COC	1	% v/v	0.6	qt/a	V1-V3	B					
11	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					
12	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A	95.0	25.0	100.0	0.0	100.0
12	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B					
12	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
12	COC	1	% v/v	0.6	qt/a	V1-V3	B					
12	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					
13	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A	88.8	37.5	98.8	3.0	100.0
13	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B					
13	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
13	COC	1	% v/v	0.6	qt/a	V1-V3	B					
13	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					
14	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B	0.0	0.0	0.0	1.0	99.5
14	Roundup Power Max	1.13	lb ae/a	32	oz/a	V1-V3	B					
14	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
14	COC	1	% v/v	0.6	qt/a	V1-V3	B					
14	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					
15	Authority First	0.28	lb ai/a	6.4	oz/a	PRE	A	56.3	72.5	100.0	0.8	99.0
15	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B					
15	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
15	COC	1	% v/v	0.6	qt/a	V1-V3	B					
15	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					
16	Authority MTZ	0.338	lb ai/a	12	oz/a	PRE	A	52.5	38.8	92.5	0.0	95.0
16	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B					
16	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B					
16	COC	1	% v/v	0.6	qt/a	V1-V3	B					
16	N-pak ams	5	% v/v	3	qt/a	V1-V3	B					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMARE	SETFA	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Setaria faberi	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Giant foxtail	Giant foxtail
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	6/19/2014	6/19/2014	6/19/2014	7/2/2014	7/2/2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23	36 12	36 12
Trt-Eval Interval	23 DA-A	23 DA-A	23 DA-A		
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	36 DP-1	36 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	30 DE-1	30 DE-1
Number of Decimals					

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	6	7	8	9	10
17	Authority XL	0.175 lb ai/a		4 oz/a		PRE	A	48.8	45.0	100.0	0.3	97.5
17	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B					
17	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B					
17	COC	1 % v/v		0.6 qt/a		V1-V3	B					
17	N-pak ams	5 % v/v		3 qt/a		V1-V3	B					
18	Authority MAXX	0.165 lb ai/a		4 oz/a		PRE	A	32.5	40.0	87.5	0.0	95.0
18	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B					
18	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B					
18	COC	1 % v/v		0.6 qt/a		V1-V3	B					
18	N-pak ams	5 % v/v		3 qt/a		V1-V3	B					
19	Authority Elite	1.37 lb ai/a		25 oz/a		PRE	A	83.8	43.8	100.0	1.0	99.0
19	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B					
19	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B					
19	COC	1 % v/v		0.6 qt/a		V1-V3	B					
19	N-pak ams	5 % v/v		3 qt/a		V1-V3	B					
20	UTC							0.0	0.0	0.0	0.0	0.0
	LSD (P=.05)							23.29	21.21	8.62	1.06	4.52
	Standard Deviation							16.47	15.00	6.09	0.75	3.19
	CV							37.11	36.78	6.99	54.36	3.46
	Bartlett's X2							27.518	17.291	32.835	14.279	34.051
	P(Bartlett's X2)							0.036*	0.435	0.001*	0.218	0.002*
	Replicate F							2.792	0.216	2.211	4.564	0.972
	Replicate Prob(F)							0.0485	0.8849	0.0967	0.0062	0.4125
	Treatment F							9.220	5.824	97.072	21.405	188.741
	Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMARE	CHEAL	IPOHE
Pest Scientific Name	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>	Ipomoea heder>
Pest Name	Giant ragweed	Redroot pigweed	Common lambsqu>	Ivyleaf mornin>
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
Rating Date	7/2/2014	7/2/2014	7/2/2014	7/2/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	36 12	36 12	36 12	36 12
Trt-Eval Interval				
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	11	12	13	14
1	Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	78.8	100.0	100.0	92.5
1	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
1	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
1	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
1	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
2	Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	91.3	100.0	100.0	100.0
2	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
2	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
2	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
2	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
3	Authority First	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	96.3	100.0	100.0	100.0
3	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
3	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
3	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
3	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
4	Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	66.3	100.0	100.0	93.8
4	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
4	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
4	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
4	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
5	Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	98.8	100.0	100.0	92.5
5	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
5	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
5	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
5	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
6	Authority XL	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	68.8	100.0	100.0	96.3
6	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
6	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
6	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
6	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
7	Authority XL	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	94.0	100.0	100.0	100.0
7	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
7	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
7	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
7	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMARE	CHEAL	IPOHE
Pest Scientific Name	Ambrosia trifid	Amaranthus ret	Chenopodium al	Ipomoea heder
Pest Name	Giant ragweed	Redroot pigweed	Common lambsqu	Ivyleaf mornin
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
Rating Date	7/2/2014	7/2/2014	7/2/2014	7/2/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	36 12	36 12	36 12	36 12
Trt-Eval Interval				
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	11	12	13	14
8	Authority MAXX	0.248	lb ai/a	6	oz/a	PRE	A	78.0	100.0	100.0	95.0
8	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B				
8	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
8	COC	1	% v/v	0.6	qt/a	V1-V3	B				
8	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
9	Authority MAXX	0.248	lb ai/a	6	oz/a	PRE	A	92.5	100.0	100.0	100.0
9	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B				
9	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
9	COC	1	% v/v	0.6	qt/a	V1-V3	B				
9	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
10	Authority Assist	0.156	lb ai/a	5	oz/a	PRE	A	58.8	98.8	100.0	92.5
10	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B				
10	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
10	COC	1	% v/v	0.6	qt/a	V1-V3	B				
10	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
11	Authority Assist	0.156	lb ai/a	5	oz/a	PRE	A	90.8	100.0	100.0	100.0
11	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B				
11	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
11	COC	1	% v/v	0.6	qt/a	V1-V3	B				
11	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
12	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A	55.0	100.0	100.0	80.0
12	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B				
12	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
12	COC	1	% v/v	0.6	qt/a	V1-V3	B				
12	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
13	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A	95.0	100.0	100.0	98.8
13	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B				
13	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
13	COC	1	% v/v	0.6	qt/a	V1-V3	B				
13	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
14	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B	94.8	99.5	100.0	96.3
14	Roundup Power Max	1.13	lb ae/a	32	oz/a	V1-V3	B				
14	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
14	COC	1	% v/v	0.6	qt/a	V1-V3	B				
14	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
15	Authority First	0.28	lb ai/a	6.4	oz/a	PRE	A	82.5	100.0	100.0	95.0
15	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
15	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
15	COC	1	% v/v	0.6	qt/a	V1-V3	B				
15	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
16	Authority MTZ	0.338	lb ai/a	12	oz/a	PRE	A	61.3	100.0	100.0	96.3
16	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
16	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
16	COC	1	% v/v	0.6	qt/a	V1-V3	B				
16	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMARE	CHEAL	IPOHE
Pest Scientific Name	Ambrosia trifid	Amaranthus ret	Chenopodium al	Ipomoea heder
Pest Name	Giant ragweed	Redroot pigweed	Common lambsqu	Ivyleaf mornin
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
Rating Date	7/2/2014	7/2/2014	7/2/2014	7/2/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	36 12	36 12	36 12	36 12
Trt-Eval Interval				
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	11	12	13	14
17	Authority XL	0.175	lb ai/a	4	oz/a	PRE	A	68.8	100.0	100.0	92.5
17	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
17	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
17	COC	1	% v/v	0.6	qt/a	V1-V3	B				
17	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
18	Authority MAXX	0.165	lb ai/a	4	oz/a	PRE	A	62.5	100.0	100.0	91.3
18	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
18	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
18	COC	1	% v/v	0.6	qt/a	V1-V3	B				
18	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
19	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A	66.3	100.0	100.0	90.0
19	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
19	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
19	COC	1	% v/v	0.6	qt/a	V1-V3	B				
19	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
20	UTC							0.0	0.0	0.0	0.0
	LSD (P=.05)							12.76	0.84	0.00	12.68
	Standard Deviation							9.02	0.59	0.00	8.97
	CV							12.03	0.62	0.0	9.95
	Bartlett's X2							22.603	2.211	0.0	21.629
	P(Bartlett's X2)							0.206	0.137	.	0.061
	Replicate F							1.006	1.753	0.000	0.337
	Replicate Prob(F)							0.3970	0.1664	1.0000	0.7986
	Treatment F							25.668	5715.502	0.000	23.533
	Treatment Prob(F)							0.0001	0.0001	1.0000	0.0001

# The Ohio State University

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	AMARE
Pest Scientific Name		Setaria faberi	Ambrosia trifida	Amaranthus retrofractus
Pest Name		Giant foxtail	Giant ragweed	Redroot pigweed
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
Rating Date	7/10/2014	7/10/2014	7/10/2014	7/10/2014
Rating Type	PHYSTU	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	44 20	44 20	44 20	44 20
Trt-Eval Interval				
Plant-Eval Interval	44 DP-1	44 DP-1	44 DP-1	44 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	15	16	17	18
1	Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	0.0	98.8	70.0	100.0
1	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
1	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
1	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
1	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
2	Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	1.8	100.0	91.3	100.0
2	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
2	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
2	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
2	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
3	Authority First	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	3.3	100.0	92.5	100.0
3	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
3	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
3	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
3	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
4	Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	0.0	98.8	60.0	100.0
4	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
4	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
4	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
4	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
5	Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	2.5	98.3	97.5	100.0
5	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
5	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
5	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
5	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
6	Authority XL	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	0.5	97.0	61.3	100.0
6	Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
6	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
6	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
6	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
7	Authority XL	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	4.3	98.3	96.3	100.0
7	Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
7	Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
7	COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
7	N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				

# The Ohio State University

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	AMARE
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Name		Giant foxtail	Giant ragweed	Redroot pigweed
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		7/10/2014	7/10/2014	7/10/2014
Rating Type		PHYSTU	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Days After First/Last Applic.		44 20	44 20	44 20
Trt-Eval Interval				
Plant-Eval Interval		44 DP-1	44 DP-1	44 DP-1
Days After Emergence		38 DE-1	38 DE-1	38 DE-1
Number of Decimals				

Trt	Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	15	16	17	18
8	Authority MAXX	0.248 lb ai/a		6 oz/a		PRE	A	0.0	96.3	68.8	100.0
8	Cadet	0.00427 lb ai/a		0.6 oz/a		V1-V3	B				
8	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
8	COC	1 % v/v		0.6 qt/a		V1-V3	B				
8	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
9	Authority MAXX	0.248 lb ai/a		6 oz/a		PRE	A	1.8	100.0	86.3	100.0
9	Marvel	0.17 lb ai/a		7.25 oz/a		V1-V3	B				
9	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
9	COC	1 % v/v		0.6 qt/a		V1-V3	B				
9	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
10	Authority Assist	0.156 lb ai/a		5 oz/a		PRE	A	0.3	100.0	55.0	100.0
10	Cadet	0.00427 lb ai/a		0.6 oz/a		V1-V3	B				
10	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
10	COC	1 % v/v		0.6 qt/a		V1-V3	B				
10	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
11	Authority Assist	0.156 lb ai/a		5 oz/a		PRE	A	3.8	99.5	90.0	100.0
11	Marvel	0.17 lb ai/a		7.25 oz/a		V1-V3	B				
11	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
11	COC	1 % v/v		0.6 qt/a		V1-V3	B				
11	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
12	Authority Elite	1.37 lb ai/a		25 oz/a		PRE	A	0.0	100.0	47.5	100.0
12	Cadet	0.00427 lb ai/a		0.6 oz/a		V1-V3	B				
12	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
12	COC	1 % v/v		0.6 qt/a		V1-V3	B				
12	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
13	Authority Elite	1.37 lb ai/a		25 oz/a		PRE	A	2.5	100.0	90.0	100.0
13	Marvel	0.17 lb ai/a		7.25 oz/a		V1-V3	B				
13	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
13	COC	1 % v/v		0.6 qt/a		V1-V3	B				
13	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
14	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B	0.5	100.0	87.5	100.0
14	Roundup Power Max	1.13 lb ae/a		32 oz/a		V1-V3	B				
14	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
14	COC	1 % v/v		0.6 qt/a		V1-V3	B				
14	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
15	Authority First	0.28 lb ai/a		6.4 oz/a		PRE	A	0.3	100.0	75.0	100.0
15	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B				
15	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
15	COC	1 % v/v		0.6 qt/a		V1-V3	B				
15	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
16	Authority MTZ	0.338 lb ai/a		12 oz/a		PRE	A	0.0	100.0	55.0	100.0
16	Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B				
16	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
16	COC	1 % v/v		0.6 qt/a		V1-V3	B				
16	N-pak ams	5 % v/v		3 qt/a		V1-V3	B				

# The Ohio State University

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	AMARE
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Name		Giant foxtail	Giant ragweed	Redroot pigweed
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		7/10/2014	7/10/2014	7/10/2014
Rating Type		PHYSTU	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Days After First/Last Applic.		44 20	44 20	44 20
Trt-Eval Interval				
Plant-Eval Interval		44 DP-1	44 DP-1	44 DP-1
Days After Emergence		38 DE-1	38 DE-1	38 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	15	16	17	18
17	Authority XL	0.175	lb ai/a	4	oz/a	PRE	A	0.3	100.0	60.0	100.0
17	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
17	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
17	COC	1	% v/v	0.6	qt/a	V1-V3	B				
17	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
18	Authority MAXX	0.165	lb ai/a	4	oz/a	PRE	A	0.0	97.5	52.5	100.0
18	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
18	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
18	COC	1	% v/v	0.6	qt/a	V1-V3	B				
18	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
19	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A	0.5	100.0	53.8	100.0
19	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
19	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
19	COC	1	% v/v	0.6	qt/a	V1-V3	B				
19	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
20	UTC							0.0	0.0	0.0	0.0
LSD (P=.05)								1.24	2.14	14.44	0.00
Standard Deviation								0.88	1.51	10.21	0.00
CV								79.96	1.6	14.69	0.0
Bartlett's X2								26.346	2.911	16.073	0.0
P(Bartlett's X2)								0.01*	0.893	0.519	.
Replicate F								2.111	0.854	1.271	0.000
Replicate Prob(F)								0.1089	0.4704	0.2928	1.0000
Treatment F								10.354	865.405	21.208	0.000
Treatment Prob(F)								0.0001	0.0001	0.0001	1.0000

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	AMARE
Pest Scientific Name	Chenopodium al-	Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Redroot pigweed
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
Rating Date	7/10/2014	7/24/2014	7/24/2014	7/24/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	44 20	58 34	58 34	58 34
Trt-Eval Interval				
Plant-Eval Interval	44 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	38 DE-1	52 DE-1	52 DE-1	52 DE-1
Number of Decimals				

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	19	20	21	22
1 Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	100.0	100.0	68.8	98.8
1 Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
1 Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
1 COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
1 N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
2 Authority First	0.28 lb ai/a	ai/a	6.4 oz/a	oz/a	PRE	A	100.0	97.5	86.3	100.0
2 Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
2 Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
2 COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
2 N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
3 Authority First	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	100.0	100.0	83.8	100.0
3 Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
3 Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
3 COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
3 N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
4 Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	100.0	100.0	51.3	100.0
4 Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
4 Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
4 COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
4 N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
5 Authority MTZ	0.338 lb ai/a	ai/a	12 oz/a	oz/a	PRE	A	100.0	100.0	97.0	100.0
5 Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
5 Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
5 COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
5 N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
6 Authority XL	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	100.0	100.0	63.8	100.0
6 Cadet	0.00427 lb ai/a	ai/a	0.6 oz/a	oz/a	V1-V3	B				
6 Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
6 COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
6 N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				
7 Authority XL	0.175 lb ai/a	ai/a	4 oz/a	oz/a	PRE	A	100.0	100.0	91.3	100.0
7 Marvel	0.17 lb ai/a	ai/a	7.25 oz/a	oz/a	V1-V3	B				
7 Select Max	0.0625 lb ai/a	ai/a	8 oz/a	oz/a	V1-V3	B				
7 COC	1 % v/v	v/v	0.6 qt/a	qt/a	V1-V3	B				
7 N-pak ams	5 % v/v	v/v	3 qt/a	qt/a	V1-V3	B				

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	AMARE
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Redroot pigweed
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
Rating Date	7/10/2014	7/24/2014	7/24/2014	7/24/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	44 20	58 34	58 34	58 34
Trt-Eval Interval				
Plant-Eval Interval	44 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	38 DE-1	52 DE-1	52 DE-1	52 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	19	20	21	22
8	Authority MAXX	0.248	lb ai/a	6	oz/a	PRE	A	100.0	100.0	67.5	100.0
8	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B				
8	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
8	COC	1	% v/v	0.6	qt/a	V1-V3	B				
8	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
9	Authority MAXX	0.248	lb ai/a	6	oz/a	PRE	A	100.0	100.0	83.8	100.0
9	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B				
9	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
9	COC	1	% v/v	0.6	qt/a	V1-V3	B				
9	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
10	Authority Assist	0.156	lb ai/a	5	oz/a	PRE	A	100.0	100.0	50.0	100.0
10	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B				
10	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
10	COC	1	% v/v	0.6	qt/a	V1-V3	B				
10	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
11	Authority Assist	0.156	lb ai/a	5	oz/a	PRE	A	100.0	97.5	88.3	100.0
11	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B				
11	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
11	COC	1	% v/v	0.6	qt/a	V1-V3	B				
11	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
12	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A	100.0	100.0	40.0	100.0
12	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B				
12	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
12	COC	1	% v/v	0.6	qt/a	V1-V3	B				
12	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
13	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A	100.0	100.0	82.5	100.0
13	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B				
13	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
13	COC	1	% v/v	0.6	qt/a	V1-V3	B				
13	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
14	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B	100.0	100.0	85.0	100.0
14	Roundup Power Max	1.13	lb ae/a	32	oz/a	V1-V3	B				
14	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
14	COC	1	% v/v	0.6	qt/a	V1-V3	B				
14	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
15	Authority First	0.28	lb ai/a	6.4	oz/a	PRE	A	100.0	100.0	71.3	100.0
15	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
15	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
15	COC	1	% v/v	0.6	qt/a	V1-V3	B				
15	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				
16	Authority MTZ	0.338	lb ai/a	12	oz/a	PRE	A	100.0	100.0	45.0	100.0
16	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B				
16	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B				
16	COC	1	% v/v	0.6	qt/a	V1-V3	B				
16	N-pak ams	5	% v/v	3	qt/a	V1-V3	B				



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	AMBTR	AMARE
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Redroot pigweed
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
Rating Date	7/10/2014	7/24/2014	7/24/2014	7/24/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	44 20	58 34	58 34	58 34
Trt-Eval Interval				
Plant-Eval Interval	44 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	38 DE-1	52 DE-1	52 DE-1	52 DE-1
Number of Decimals				

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	19	20	21	22
17 Authority XL	0.175 lb ai/a		4 oz/a		PRE	A	100.0	100.0	55.0	100.0
17 Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B				
17 Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
17 COC	1 % v/v		0.6 qt/a		V1-V3	B				
17 N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
18 Authority MAXX	0.165 lb ai/a		4 oz/a		PRE	A	100.0	100.0	47.5	100.0
18 Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B				
18 Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
18 COC	1 % v/v		0.6 qt/a		V1-V3	B				
18 N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
19 Authority Elite	1.37 lb ai/a		25 oz/a		PRE	A	100.0	100.0	45.0	100.0
19 Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B				
19 Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B				
19 COC	1 % v/v		0.6 qt/a		V1-V3	B				
19 N-pak ams	5 % v/v		3 qt/a		V1-V3	B				
20 UTC							0.0	0.0	0.0	0.0
LSD (P=.05)							0.00	2.26	16.25	0.79
Standard Deviation							0.00	1.59	11.49	0.56
CV							0.0	1.68	17.64	0.59
Bartlett's X2							0.0	0.0	24.188	0.0
P(Bartlett's X2)							.	.	0.114	.
Replicate F							0.000	0.655	1.193	1.000
Replicate Prob(F)							1.0000	0.5830	0.3206	0.3995
Treatment F							0.000	783.000	16.971	6392.580
Treatment Prob(F)							1.0000	0.0001	0.0001	0.0001

# The Ohio State University

Pest Type	W Weed
Pest Code	CHEAL
Pest Scientific Name	Chenopodium al-
Pest Name	Common lambsqu>
Crop Code	GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	7/24/2014
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1 1
Days After First/Last Applic.	58 34
Trt-Eval Interval	
Plant-Eval Interval	58 DP-1
Days After Emergence	52 DE-1
Number of Decimals	

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	23	24
1	Authority First	0.28 lb ai/a		6.4 oz/a		PRE	A	100.0	
1	Cadet	0.00427 lb ai/a		0.6 oz/a		V1-V3	B		
1	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
1	COC	1 % v/v		0.6 qt/a		V1-V3	B		
1	N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
2	Authority First	0.28 lb ai/a		6.4 oz/a		PRE	A	100.0	
2	Marvel	0.17 lb ai/a		7.25 oz/a		V1-V3	B		
2	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
2	COC	1 % v/v		0.6 qt/a		V1-V3	B		
2	N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
3	Authority First	0.175 lb ai/a		4 oz/a		PRE	A	100.0	
3	Marvel	0.17 lb ai/a		7.25 oz/a		V1-V3	B		
3	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
3	COC	1 % v/v		0.6 qt/a		V1-V3	B		
3	N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
4	Authority MTZ	0.338 lb ai/a		12 oz/a		PRE	A	100.0	
4	Cadet	0.00427 lb ai/a		0.6 oz/a		V1-V3	B		
4	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
4	COC	1 % v/v		0.6 qt/a		V1-V3	B		
4	N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
5	Authority MTZ	0.338 lb ai/a		12 oz/a		PRE	A	100.0	
5	Marvel	0.17 lb ai/a		7.25 oz/a		V1-V3	B		
5	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
5	COC	1 % v/v		0.6 qt/a		V1-V3	B		
5	N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
6	Authority XL	0.175 lb ai/a		4 oz/a		PRE	A	100.0	
6	Cadet	0.00427 lb ai/a		0.6 oz/a		V1-V3	B		
6	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
6	COC	1 % v/v		0.6 qt/a		V1-V3	B		
6	N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
7	Authority XL	0.175 lb ai/a		4 oz/a		PRE	A	100.0	
7	Marvel	0.17 lb ai/a		7.25 oz/a		V1-V3	B		
7	Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
7	COC	1 % v/v		0.6 qt/a		V1-V3	B		
7	N-pak ams	5 % v/v		3 qt/a		V1-V3	B		

# The Ohio State University

Pest Type	W Weed
Pest Code	CHEAL
Pest Scientific Name	Chenopodium al-
Pest Name	Common lambsqu-
Crop Code	GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	7/24/2014
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1 1
Days After First/Last Applic.	58 34
Trt-Eval Interval	
Plant-Eval Interval	58 DP-1
Days After Emergence	52 DE-1
Number of Decimals	

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	23	24
8	Authority MAXX	0.248	lb ai/a	6	oz/a	PRE	A		100.0
8	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B		
8	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
8	COC	1	% v/v	0.6	qt/a	V1-V3	B		
8	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		
9	Authority MAXX	0.248	lb ai/a	6	oz/a	PRE	A		100.0
9	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B		
9	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
9	COC	1	% v/v	0.6	qt/a	V1-V3	B		
9	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		
10	Authority Assist	0.156	lb ai/a	5	oz/a	PRE	A		100.0
10	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B		
10	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
10	COC	1	% v/v	0.6	qt/a	V1-V3	B		
10	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		
11	Authority Assist	0.156	lb ai/a	5	oz/a	PRE	A		100.0
11	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B		
11	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
11	COC	1	% v/v	0.6	qt/a	V1-V3	B		
11	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		
12	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A		100.0
12	Cadet	0.00427	lb ai/a	0.6	oz/a	V1-V3	B		
12	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
12	COC	1	% v/v	0.6	qt/a	V1-V3	B		
12	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		
13	Authority Elite	1.37	lb ai/a	25	oz/a	PRE	A		100.0
13	Marvel	0.17	lb ai/a	7.25	oz/a	V1-V3	B		
13	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
13	COC	1	% v/v	0.6	qt/a	V1-V3	B		
13	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		
14	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B		100.0
14	Roundup Power Max	1.13	lb ae/a	32	oz/a	V1-V3	B		
14	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
14	COC	1	% v/v	0.6	qt/a	V1-V3	B		
14	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		
15	Authority First	0.28	lb ai/a	6.4	oz/a	PRE	A		100.0
15	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B		
15	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
15	COC	1	% v/v	0.6	qt/a	V1-V3	B		
15	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		
16	Authority MTZ	0.338	lb ai/a	12	oz/a	PRE	A		100.0
16	Anthem	0.101	lb ai/a	6	oz/a	V1-V3	B		
16	Select Max	0.0625	lb ai/a	8	oz/a	V1-V3	B		
16	COC	1	% v/v	0.6	qt/a	V1-V3	B		
16	N-pak ams	5	% v/v	3	qt/a	V1-V3	B		

# The Ohio State University

Pest Type	W Weed
Pest Code	CHEAL
Pest Scientific Name	Chenopodium al>
Pest Name	Common lambsqu>
Crop Code	GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	7/24/2014
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1 1
Days After First/Last Applic.	58 34
Trt-Eval Interval	
Plant-Eval Interval	58 DP-1
Days After Emergence	52 DE-1
Number of Decimals	

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	23	24
17 Authority XL	0.175 lb ai/a		4 oz/a		PRE	A	100.0	
17 Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B		
17 Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
17 COC	1 % v/v		0.6 qt/a		V1-V3	B		
17 N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
18 Authority MAXX	0.165 lb ai/a		4 oz/a		PRE	A	100.0	
18 Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B		
18 Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
18 COC	1 % v/v		0.6 qt/a		V1-V3	B		
18 N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
19 Authority Elite	1.37 lb ai/a		25 oz/a		PRE	A	100.0	
19 Anthem	0.101 lb ai/a		6 oz/a		V1-V3	B		
19 Select Max	0.0625 lb ai/a		8 oz/a		V1-V3	B		
19 COC	1 % v/v		0.6 qt/a		V1-V3	B		
19 N-pak ams	5 % v/v		3 qt/a		V1-V3	B		
20 UTC							0.0	
LSD (P=.05)							0.00	.
Standard Deviation							0.00	.
CV							0.0	.
Bartlett's X2							0.0	.
P(Bartlett's X2)							.	.
Replicate F							0.000	
Replicate Prob(F)							1.0000	
Treatment F							0.000	
Treatment Prob(F)							1.0000	

# The Ohio State University

## Authority/Anthem/Cadet/Marvel pre and post treatments for Non-Gmo soybean programs

Trial ID: 14 SOYYLD2                      Location: Western Branch    Trial Year: 2014  
Protocol ID: 14 SOYYLD2                Investigator: Dr. Mark M. Loux  
Project ID: SULF.SOY.14.JPR.01(b)      Study Director: Bryan Reeb  
Sponsor Contact: Joe Reed, FMC

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US  
AMBTR, Ambrosia trifida, = US  
AMARE, Amaranthus retroflexus, = US  
CHEAL, Chenopodium album, = US  
IPOHE, Ipomoea hederacea, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYGEN = phytotoxicity - general / injury  
CONTRO = control / burndown or knockdown  
PHYLMA = phytotoxicity - leaf malformation  
PHYSTU = phytotoxicity - stunting

Rating Unit

% = percent

Plant-Eval Interval

16 DP-1 = 1 GLXMA 5/27/2014  
23 DP-1 = 1 GLXMA 5/27/2014  
36 DP-1 = 1 GLXMA 5/27/2014  
44 DP-1 = 1 GLXMA 5/27/2014  
58 DP-1 = 1 GLXMA 5/27/2014