

Ohio State University Horticulture and Crop Science

observation of F-9310-6 in soybeans early post

Title No. 2:

Trial ID: 11SOYYLD4
Location: Western Branch BIG E
Project ID: 11SOYYLD4

Protocol ID: 11SOYYLD4
Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux
Sponsor Contact: Joe Reed, FMC

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 °:** 39.86028 N
State/Prov.: Ohio **Longitude of LL Corner °:** -83.67229 W
Postal Code: 45368
Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Seed Consultants 9330
BBCH Scale: BSOY **Description:** Round Up Ready
Planting Method: SEEDED seeded **Planting Date:** 6/6/11
Depth, Unit: 1 IN **Rate, Unit:** 197000 S/A
Row Spacing, Unit: 15 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 76 F
Soil Moisture: NORMAL normal

Pest Description

- Pest 1 Type:** W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail
- Pest 2 Type:** W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
- Pest 3 Type:** W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf
- Pest 4 Type:** W **Code:** IPOHE Ipomoea hederacea
Common Name: Ivyleaf morningglory
- Pest 5 Type:** W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed
- Pest 6 Type:** W **Code:** SIDSP Sida spinosa
Common Name: Prickly sida
- Pest 7 Type:** W **Code:** AMPAL Cynanchum laeve
Common Name: Honeyvine milkweed
- Pest 8 Type:** W **Code:** SOLPT Solanum ptycanthum
Common Name: Eastern black nightshade

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 300 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: F-7 West
% OM: 3.1 **Texture:** SICL silty clay loam
pH: 7.1 **Soil Name:** Kokomo Silty Clay Loam
CEC: 22.2 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B	C
Application Date:	6/6/11	6/27/11	7/7/11
Time of Day:	1:45 P.M.	8:45 A.M.	10:00 A.M
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	MPO
Application Placement:	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	88.6 F	67.5 F	87 F
% Relative Humidity:	37.5	72.5	87
Wind Velocity, Unit:	4.4 MPH	1.9 MPH	1.1 MPH
Wind Direction:	WSW	SSW	W
Dew Presence (Y/N):	N no	Y yes	N no
Soil Temperature, Unit:	76 F	62 F	77 F
Soil Moisture:	GOOD	GOOD	MOIST
% Cloud Cover:	15	75	20
Next Rain Occurred On:	6/7/11	7/2/11	7/8/11

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:			BBCH		BBCH	
Stage Majority, Percent:			V3		14	
Stage Minimum, Percent:					16	
Height, Unit:			3	IN	9	IN
Height Minimum, Maximum:			3	4	6	

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:			14			
Stage Minimum, Percent:					14	
Stage Maximum, Percent:					16	
Height, Unit:			4	IN	IN	
Height Minimum, Maximum:			3	5	4	10
Density, Unit:	79	M2	79	M2	79	M2
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:			14			
Stage Minimum, Percent:					16	
Stage Maximum, Percent:					19	
Height, Unit:			3	IN	IN	
Height Minimum, Maximum:			2	4	4	12
Density, Unit:	13	M2	13	M2	13	M2
Pest 3 Code, Type, Scale:	ABUTH	W	ABUTH	W	ABUTH	W
Stage Majority, Percent:			13			
Height, Unit:			1	IN		
Height Minimum, Maximum:			1	1		
Pest 4 Code, Type, Scale:	IPOHE	W	IPOHE	W	IPOHE	W
Stage Majority, Percent:			12			
Stage Minimum, Percent:					12	
Stage Maximum, Percent:					18	
Height, Unit:			1	IN	IN	
Height Minimum, Maximum:			1	1	2	4
Density, Unit:	6	M2	6	M2	6	M2
Pest 5 Code, Type, Scale:	AMBEL	W	AMBEL	W	AMBEL	W
Stage Majority, Percent:			16			
Height, Unit:			2	IN		
Height Minimum, Maximum:			1	2		
Pest 6 Code, Type, Scale:	SIDSP	W	SIDSP	W	SIDSP	W
Stage Majority, Percent:			12			
Stage Minimum, Percent:					14	
Stage Maximum, Percent:					16	
Height, Unit:			1	IN	IN	
Height Minimum, Maximum:			1	1	2	4
Density, Unit:	1	M2	1	M2	1	M2
Pest 7 Code, Type, Scale:	AMPAL	W	AMPAL	W	AMPAL	W
Stage Majority, Percent:			15			
Height, Unit:			10	IN		
Height Minimum, Maximum:			10	10		
Pest 8 Code, Type, Scale:	SOLPT	W	SOLPT	W	SOLPT	W
Stage Majority, Percent:			14	100		
Height, Unit:			4	IN		
Height Minimum, Maximum:			4	4		

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Application Equipment

	A	B	C
Appl. Equipment:	Backpack	Backpack	
Equipment Type:	SPRBAC	SPRBAC	
Operating Pressure, Unit:	46 PSI	46 PSI	
Nozzle Type:	DG	DG	
Nozzle Size:	11002	11002	
Nozzle Spacing, Unit:	18 IN	18 IN	
Boom Length, Unit:	10 FT	10 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:	0.5 gallons	0.5 gallons	
Propellant:	COMCO2	COMCO2	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	SIDSP	SETFA	AMBTR	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Sida spinosa	Setaria faberi	Ambrosia trifi>	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Prickly sida	Giant foxtail	Giant ragweed	Giant ragweed
Crop Code	GLXMA			GLXMA		
BBCH Scale	BSOY			BSOY		
Crop Scientific Name	Glycine max			Glycine max		
Crop Name	Soybean			Soybean		
Rating Date	6/20/11	6/20/11	6/20/11	6/20/11	7/6/11	7/6/11
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing					AT POST	AT POST
Days After First/Last Applic.	14 14	14 14	14 14	14 14	30 9	30 9
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	-1 DA-C	-1 DA-C
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	30 DP-1	30 DP-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6	7
1	Authority XL	70	4 oz/a		A	1	64	50	75	1	58	53
1	Roundup Power Max	4.5	22 oz/a		C							
1	N-pak ams	100	2.25 qt/a		C							
2	Valor XLT @ 3.0 oz					2	63	53	86	0	45	43
2	Valor SX	51	1.76 oz/a		A							
2	Classic	25	1.24 oz/a		A							
2	Roundup Power Max	4.5	22 oz/a		C							
2	N-pak ams	100	2.25 qt/a		C							
3	Fierce	76	3 oz/a		A	7	63	31	70	0	69	25
3	Roundup Power Max	4.5	22 oz/a		C							
3	N-pak ams	100	2.25 qt/a		C							
4	Prefix	5.29	32 oz/a		A	0	76	64	58	3	73	40
4	Roundup Power Max	4.5	22 oz/a		C							
4	N-pak ams	100	2.25 qt/a		C							
5	Authority XL	70	4 oz/a		A	0	55	70	85	9	100	100
5	F9310-6	2	6 oz/a		B							
5	Roundup Power Max	4.5	22 oz/a		B							
5	N-pak ams	100	2.25 qt/a		B							
6	Roundup Power Max	4.5	22 oz/a		B	0	0	0	0	12	100	96
6	F9310-6	2	6 oz/a		B							
6	Classic	25	0.75 oz/a		B							
6	Roundup Power Max	4.5	22 oz/a		C							
6	N-pak ams	100	2.25 qt/a		C							
7	Roundup Power Max	4.5	22 oz/a		B	0	0	0	0	18	100	99
7	Prefix	5.29	32 oz/a		B							
7	Roundup Power Max	4.5	22 oz/a		C							
7	N-pak ams	100	2.25 qt/a		C							
8	Flexstar GT	3.31	56 oz/a		B	0	0	0	0	10	100	100
8	MSO	100	0.6 qt/a		B							
8	N-pak ams	100	2.25 qt/a		B							
8	Roundup Power Max	4.5	22 oz/a		C							
8	N-pak ams	100	2.25 qt/a		C							
9	Extreme	2.17	48 oz/a		B	0	0	0	0	3	100	98
9	N-pak ams	100	2.25 qt/a		B							
9	Roundup Power Max	4.5	22 oz/a		C							
9	N-pak ams	100	2.25 qt/a		C							
10	Roundup Power Max	4.5	22 oz/a		B	0	0	0	0	0	100	100

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SIDSP	AMARE	IPHOE	HIBTR	SETFA
Pest Scientific Name	Sida spinosa	Amaranthus ret>	Ipomoea hederata>	Hibiscus trion>	Setaria faberi
Pest Name	Prickly sida	Redroot pigweed	Ivyleaf mornin>	Venice mallow	Giant foxtail
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	7/6/11	7/6/11	7/6/11	7/6/11	7/11/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing	AT POST	AT POST	AT POST	AT POST	
Days After First/Last Applic.	30 9	30 9	30 9	30 9	35 4
Trt-Eval Interval	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	14 DA-B
Plant-Eval Interval	30 DP-1	30 DP-1	30 DP-1	30 DP-1	35 DP-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code	8	9	10	11	12	13
1	Authority XL	70	4 oz/a		A		75	100	55	98	0	83
1	Roundup Power Max	4.5	22 oz/a		C							
1	N-pak ams	100	2.25 qt/a		C							
2	Valor XLT @ 3.0 oz						93	99	35	98	0	78
2	Valor SX	51	1.76 oz/a		A							
2	Classic	25	1.24 oz/a		A							
2	Roundup Power Max	4.5	22 oz/a		C							
2	N-pak ams	100	2.25 qt/a		C							
3	Fierce	76	3 oz/a		A		74	100	43	93	0	75
3	Roundup Power Max	4.5	22 oz/a		C							
3	N-pak ams	100	2.25 qt/a		C							
4	Prefix	5.29	32 oz/a		A		39	88	35	65	0	85
4	Roundup Power Max	4.5	22 oz/a		C							
4	N-pak ams	100	2.25 qt/a		C							
5	Authority XL	70	4 oz/a		A		100	100	99	100	2	100
5	F9310-6	2	6 oz/a		B							
5	Roundup Power Max	4.5	22 oz/a		B							
5	N-pak ams	100	2.25 qt/a		B							
6	Roundup Power Max	4.5	22 oz/a		B		98	100	99	100	3	100
6	F9310-6	2	6 oz/a		B							
6	Classic	25	0.75 oz/a		B							
6	Roundup Power Max	4.5	22 oz/a		C							
6	N-pak ams	100	2.25 qt/a		C							
7	Roundup Power Max	4.5	22 oz/a		B		93	100	100	78	6	100
7	Prefix	5.29	32 oz/a		B							
7	Roundup Power Max	4.5	22 oz/a		C							
7	N-pak ams	100	2.25 qt/a		C							
8	Flexstar GT	3.31	56 oz/a		B		100	100	100	100	3	100
8	MSO	100	0.6 qt/a		B							
8	N-pak ams	100	2.25 qt/a		B							
8	Roundup Power Max	4.5	22 oz/a		C							
8	N-pak ams	100	2.25 qt/a		C							
9	Extreme	2.17	48 oz/a		B		100	100	95	100	0	100
9	N-pak ams	100	2.25 qt/a		B							
9	Roundup Power Max	4.5	22 oz/a		C							
9	N-pak ams	100	2.25 qt/a		C							
10	Roundup Power Max	4.5	22 oz/a		B		100	100	96	100	0	100

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	SIDSP	AMARE	IPOHE	HIBTR	SETFA	
Pest Scientific Name	Sida spinosa	Amaranthus ret>	Ipomoea heder>	Hibiscus trion>	Setaria faberi	
Pest Name	Prickly sida	Redroot pigweed	Ivyleaf mornin>	Venice mallow	Giant foxtail	
Crop Code					GLXMA	
BBCH Scale					BSOY	
Crop Scientific Name					Glycine max	
Crop Name					Soybean	
Rating Date	7/6/11	7/6/11	7/6/11	7/6/11	7/11/11	7/11/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing	AT POST	AT POST	AT POST	AT POST		
Days After First/Last Applic.	30 9	30 9	30 9	30 9	35 4	35 4
Trt-Eval Interval	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	14 DA-B	14 DA-B
Plant-Eval Interval	30 DP-1	30 DP-1	30 DP-1	30 DP-1	35 DP-1	35 DP-1
Number of Decimals	0	0	0	0	0	0
Trt No.	8	9	10	11	12	13
Treatment Name	10 N-pak ams	10 Roundup Power Max	10 N-pak ams			
Form Conc	100	4.5	100			
Other Rate	2.25 qt/a	22 oz/a	2.25 qt/a			
Other Rate						
Appl Unit Code	B	C	C			
LSD (P=.05)	21.9	11.5	33.5	28.1	1.0	11.8
Standard Deviation	15.1	7.9	23.1	19.4	0.7	8.2
CV	17.34	8.04	30.56	20.84	48.65	8.88
Bartlett's X2	9.062	12.534	45.089	19.975	4.639	26.703
P(Bartlett's X2)	0.107	0.001*	0.001*	0.001*	0.20	0.001*
Replicate F	0.095	0.956	1.670	0.408	0.191	1.517
Replicate Prob(F)	0.9621	0.4277	0.1968	0.7483	0.9018	0.2327
Treatment F	6.821	0.982	6.562	1.550	37.578	6.766
Treatment Prob(F)	0.0001	0.4763	0.0001	0.1810	0.0001	0.0001

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Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	14	15	16	17	18	19
	1 Authority XL	70	4 oz/a		A	81	100	89	81	100	0
	1 Roundup Power Max	4.5	22 oz/a		C						
	1 N-pak ams	100	2.25 qt/a		C						
	2 Valor XLT @ 3.0 oz					75	100	90	68	100	0
	2 Valor SX	51	1.76 oz/a		A						
	2 Classic	25	1.24 oz/a		A						
	2 Roundup Power Max	4.5	22 oz/a		C						
	2 N-pak ams	100	2.25 qt/a		C						
	3 Fierce	76	3 oz/a		A	69	100	90	73	95	0
	3 Roundup Power Max	4.5	22 oz/a		C						
	3 N-pak ams	100	2.25 qt/a		C						
	4 Prefix	5.29	32 oz/a		A	73	98	75	68	68	0
	4 Roundup Power Max	4.5	22 oz/a		C						
	4 N-pak ams	100	2.25 qt/a		C						
	5 Authority XL	70	4 oz/a		A	100	100	100	96	100	0
	5 F9310-6	2	6 oz/a		B						
	5 Roundup Power Max	4.5	22 oz/a		B						
	5 N-pak ams	100	2.25 qt/a		B						
	6 Roundup Power Max	4.5	22 oz/a		B	96	100	100	89	100	0
	6 F9310-6	2	6 oz/a		B						
	6 Classic	25	0.75 oz/a		B						
	6 Roundup Power Max	4.5	22 oz/a		C						
	6 N-pak ams	100	2.25 qt/a		C						
	7 Roundup Power Max	4.5	22 oz/a		B	97	100	100	100	100	1
	7 Prefix	5.29	32 oz/a		B						
	7 Roundup Power Max	4.5	22 oz/a		C						
	7 N-pak ams	100	2.25 qt/a		C						
	8 Flexstar GT	3.31	56 oz/a		B	99	100	100	100	100	0
	8 MSO	100	0.6 qt/a		B						
	8 N-pak ams	100	2.25 qt/a		B						
	8 Roundup Power Max	4.5	22 oz/a		C						
	8 N-pak ams	100	2.25 qt/a		C						
	9 Extreme	2.17	48 oz/a		B	100	100	100	86	100	0
	9 N-pak ams	100	2.25 qt/a		B						
	9 Roundup Power Max	4.5	22 oz/a		C						
	9 N-pak ams	100	2.25 qt/a		C						
	10 Roundup Power Max	4.5	22 oz/a		B	99	100	100	88	100	0

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Pest Code	AMBTR	AMARE	SIDSP	IPOHE	HIBTR	
Pest Scientific Name	Ambrosia trifi>	Amaranthus ret>	Sida spinosa	Ipomoea heder>	Hibiscus trion>	
Pest Name	Giant ragweed	Redroot pigweed	Prickly sida	Ivyleaf mornin>	Venice mallow	
Crop Code						GLXMA
BBCH Scale						BSOY
Crop Scientific Name						Glycine max
Crop Name						Soybean
Rating Date	7/11/11	7/11/11	7/11/11	7/11/11	7/11/11	7/19/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing						
Days After First/Last Applic.	35 4	35 4	35 4	35 4	35 4	43 12
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	22 DA-B
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	43 DP-1
Number of Decimals	0	0	0	0	0	0
Trt No.	14	15	16	17	18	19
Treatment Name	10 N-pak ams	10 Roundup Power Max	10 N-pak ams			
Form Conc	100	4.5	100			
Other Rate	2.25 qt/a	22 oz/a	2.25 qt/a			
Other Rate						
Appl Unit Code	B	C	C			
LSD (P=.05)	16.2	2.3	11.3	15.2	10.9	0.4
Standard Deviation	11.2	1.6	7.8	10.4	7.5	0.3
CV	12.56	1.59	8.28	12.33	7.81	216.37
Bartlett's X2	29.457	0.0	3.891	8.861	1.702	0.0
P(Bartlett's X2)	0.001*	.	0.273	0.263	0.192	.
Replicate F	6.352	1.000	0.666	2.832	1.458	1.253
Replicate Prob(F)	0.0021	0.4079	0.5802	0.0571	0.2480	0.3101
Treatment F	5.305	1.000	4.628	5.621	7.390	3.228
Treatment Prob(F)	0.0003	0.4635	0.0009	0.0002	0.0001	0.0087

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Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Hibiscus trion>	Sida spinosa	Ipomoea heder>
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Venice mallow	Prickly sida	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/19/11	7/19/11	7/19/11	7/19/11	7/19/11	7/19/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing						
Days After First/Last Applic.	43 12	43 12	43 12	43 12	43 12	43 12
Trt-Eval Interval	22 DA-B	22 DA-B	22 DA-B	22 DA-B	22 DA-B	22 DA-B
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	20	21	22	23	24	25
1	Authority XL	70	4 oz/a		A	96	93	100	100	100	96
1	Roundup Power Max	4.5	22 oz/a		C						
1	N-pak ams	100	2.25 qt/a		C						
2	Valor XLT @ 3.0 oz					94	85	100	100	100	80
2	Valor SX	51	1.76 oz/a		A						
2	Classic	25	1.24 oz/a		A						
2	Roundup Power Max	4.5	22 oz/a		C						
2	N-pak ams	100	2.25 qt/a		C						
3	Fierce	76	3 oz/a		A	75	70	75	75	75	75
3	Roundup Power Max	4.5	22 oz/a		C						
3	N-pak ams	100	2.25 qt/a		C						
4	Prefix	5.29	32 oz/a		A	90	73	90	95	93	78
4	Roundup Power Max	4.5	22 oz/a		C						
4	N-pak ams	100	2.25 qt/a		C						
5	Authority XL	70	4 oz/a		A	100	100	100	100	100	100
5	F9310-6	2	6 oz/a		B						
5	Roundup Power Max	4.5	22 oz/a		B						
5	N-pak ams	100	2.25 qt/a		B						
6	Roundup Power Max	4.5	22 oz/a		B	99	98	100	100	100	99
6	F9310-6	2	6 oz/a		B						
6	Classic	25	0.75 oz/a		B						
6	Roundup Power Max	4.5	22 oz/a		C						
6	N-pak ams	100	2.25 qt/a		C						
7	Roundup Power Max	4.5	22 oz/a		B	100	100	100	100	100	99
7	Prefix	5.29	32 oz/a		B						
7	Roundup Power Max	4.5	22 oz/a		C						
7	N-pak ams	100	2.25 qt/a		C						
8	Flexstar GT	3.31	56 oz/a		B	99	100	100	100	100	100
8	MSO	100	0.6 qt/a		B						
8	N-pak ams	100	2.25 qt/a		B						
8	Roundup Power Max	4.5	22 oz/a		C						
8	N-pak ams	100	2.25 qt/a		C						
9	Extreme	2.17	48 oz/a		B	99	100	100	100	100	99
9	N-pak ams	100	2.25 qt/a		B						
9	Roundup Power Max	4.5	22 oz/a		C						
9	N-pak ams	100	2.25 qt/a		C						
10	Roundup Power Max	4.5	22 oz/a		B	99	100	100	100	100	100

Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMARE	HIBTR	SIDSP	IPOHE
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Hibiscus trion>	Sida spinosa	Ipomoea heder>
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Venice mallow	Prickly sida	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/19/11	7/19/11	7/19/11	7/19/11	7/19/11	7/19/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing						
Days After First/Last Applic.	43 12	43 12	43 12	43 12	43 12	43 12
Trt-Eval Interval	22 DA-B	22 DA-B	22 DA-B	22 DA-B	22 DA-B	22 DA-B
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Form	Other	Other	Appl		
No. Name	Conc	Rate	Rate	Unit	Code	
10 N-pak ams	100	2.25	qt/a	B	20	
10 Roundup Power Max	4.5	22	oz/a	C	21	
10 N-pak ams	100	2.25	qt/a	C	22	
					23	
					24	
					25	
LSD (P=.05)	22.3	28.1			23.7	22.9
Standard Deviation	15.4	19.4			16.4	15.8
CV	16.2	21.14			16.96	16.38
Bartlett's X2	73.69	29.16			2.193	5.639
P(Bartlett's X2)	0.001*	0.001*			0.139	0.018*
Replicate F	4.290	5.138			1.830	1.446
Replicate Prob(F)	0.0134	0.0061			0.1655	0.2512
Treatment F	0.987	1.522			1.000	1.000
Treatment Prob(F)	0.4727	0.1906			0.4635	0.4635

Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMARE	HIBTR	SIDSP	IPOHE
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Hibiscus trion>	Sida spinosa	Ipomoea heder>
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Venice mallow	Prickly sida	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	8/2/11	8/2/11	8/2/11	8/2/11	8/2/11	8/2/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing						
Days After First/Last Applic.	57 26	57 26	57 26	57 26	57 26	57 26
Trt-Eval Interval	26 DA-C	26 DA-C	26 DA-C	26 DA-C	26 DA-C	26 DA-C
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	26	27	28	29	30	31
1	Authority XL	70	4 oz/a		A	93	90	100	100	100	95
1	Roundup Power Max	4.5	22 oz/a		C						
1	N-pak ams	100	2.25 qt/a		C						
2	Valor XLT @ 3.0 oz					96	88	100	100	100	85
2	Valor SX	51	1.76 oz/a		A						
2	Classic	25	1.24 oz/a		A						
2	Roundup Power Max	4.5	22 oz/a		C						
2	N-pak ams	100	2.25 qt/a		C						
3	Fierce	76	3 oz/a		A	85	83	100	100	100	85
3	Roundup Power Max	4.5	22 oz/a		C						
3	N-pak ams	100	2.25 qt/a		C						
4	Prefix	5.29	32 oz/a		A	95	75	100	100	100	183
4	Roundup Power Max	4.5	22 oz/a		C						
4	N-pak ams	100	2.25 qt/a		C						
5	Authority XL	70	4 oz/a		A	100	100	100	100	100	100
5	F9310-6	2	6 oz/a		B						
5	Roundup Power Max	4.5	22 oz/a		B						
5	N-pak ams	100	2.25 qt/a		B						
6	Roundup Power Max	4.5	22 oz/a		B	100	99	100	100	100	96
6	F9310-6	2	6 oz/a		B						
6	Classic	25	0.75 oz/a		B						
6	Roundup Power Max	4.5	22 oz/a		C						
6	N-pak ams	100	2.25 qt/a		C						
7	Roundup Power Max	4.5	22 oz/a		B	99	94	100	100	99	98
7	Prefix	5.29	32 oz/a		B						
7	Roundup Power Max	4.5	22 oz/a		C						
7	N-pak ams	100	2.25 qt/a		C						
8	Flexstar GT	3.31	56 oz/a		B	99	98	100	100	100	99
8	MSO	100	0.6 qt/a		B						
8	N-pak ams	100	2.25 qt/a		B						
8	Roundup Power Max	4.5	22 oz/a		C						
8	N-pak ams	100	2.25 qt/a		C						
9	Extreme	2.17	48 oz/a		B	100	100	100	100	100	100
9	N-pak ams	100	2.25 qt/a		B						
9	Roundup Power Max	4.5	22 oz/a		C						
9	N-pak ams	100	2.25 qt/a		C						
10	Roundup Power Max	4.5	22 oz/a		B	98	98	100	100	100	98

Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMARE	HIBTR	SIDSP	IPOHE
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Hibiscus trion>	Sida spinosa	Ipomoea heder>
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Venice mallow	Prickly sida	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	8/2/11	8/2/11	8/2/11	8/2/11	8/2/11	8/2/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing						
Days After First/Last Applic.	57 26	57 26	57 26	57 26	57 26	57 26
Trt-Eval Interval	26 DA-C	26 DA-C	26 DA-C	26 DA-C	26 DA-C	26 DA-C
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Form	Other	Other	Appl		
No. Name	Conc	Rate	Rate	Unit	Code	
	26	27	28	29	30	31
10 N-pak ams	100	2.25 qt/a		B		
10 Roundup Power Max	4.5	22 oz/a		C		
10 N-pak ams	100	2.25 qt/a		C		
LSD (P=.05)	13.6	24.5	0.0	0.0	1.1	81.9
Standard Deviation	9.4	16.9	0.0	0.0	0.8	56.4
CV	9.74	18.28	0.0	0.0	0.79	54.41
Bartlett's X2	24.899	29.672	0.0	0.0	0.0	68.712
P(Bartlett's X2)	0.001*	0.001*	.	.	.	0.001*
Replicate F	5.965	8.446	0.000	0.000	1.000	0.177
Replicate Prob(F)	0.0029	0.0004	1.0000	1.0000	0.4079	0.9113
Treatment F	1.000	1.000	0.000	0.000	1.000	1.000
Treatment Prob(F)	0.4635	0.4635	1.0000	1.0000	0.4635	0.4635

Ohio State University Horticulture and Crop Science

observation of F-9310-6 in soybeans early post

Title No. 2:

Trial ID: 11SOYYLD4
Location: Western Branch BIG E
Project ID: 11SOYYLD4

Protocol ID: 11SOYYLD4
Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux
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
SIDSP, *Sida spinosa*, = US
AMARE, *Amaranthus retroflexus*, = US
IPOHE, *Ipomoea hederacea*, = US
HIBTR, *Hibiscus trionum*, = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Type

PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

14 DP-1 = 1 6/6/11
30 DP-1 = 1 6/6/11
35 DP-1 = 1 6/6/11
43 DP-1 = 1 6/6/11
57 DP-1 = 1 6/6/11