

Ohio State University Horticulture and Crop Science

Crop Stage At Each Application

	A		B		C
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA BSOY

Pest Stage At Each Application

	A		B		C
Pest 1 Code, Type, Scale:	LAMPU	W	LAMPU	W	LAMPU W
Stage Majority, Percent:	12	100	14	100	18 100
Diameter, Unit:	0.5	IN	0.5	IN	2 IN
Height, Unit:	0.5	IN	0.5	IN	1 IN
Height Minimum, Maximum:	0.5	1	0.5	1	1 2
Pest 2 Code, Type, Scale:	TAROF	W	TAROF	W	TAROF W
Stage Majority, Percent:	16	100	18	80	18 100
Stage Minimum, Percent:			16	20	
Stage Maximum, Percent:			18	80	
Diameter, Unit:	6	IN	6	IN	6 IN
Height, Unit:	1	IN	1	IN	1 IN
Height Minimum, Maximum:	1	1	1	1	0.5 1
Density, Unit:	16	M2	16	M2	16 M2
Pest 3 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA W
Density, Unit:	10.66	M2	10.66	M2	10.66 M2
Pest 4 Code, Type, Scale:	AMBEL	W	AMBEL	W	AMBEL W
Density, Unit:	2.66	M2	2.66	M2	2.66 M2
Pest 5 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR W
Density, Unit:	4	M2	4	M2	4 M2

Application Equipment

	A		B		C
Appl. Equipment:	6 foot boom		6 foot boom		6 foot boom
Equipment Type:	SPRBAC		SPRBAC		SPRBAC
Operating Pressure, Unit:	53	PSI	53	PSI	53 PSI
Nozzle Type:	TEEJET DG		TEEJET DG		TEEJET DG
Nozzle Size:	8002		8002		8002
Nozzle Spacing, Unit:	18	IN	18	IN	18 IN
Boom Length, Unit:	6	FT	6	FT	6 FT
Boom Height, Unit:	20	IN	20	IN	20 IN
Ground Speed, Unit:	3	MPH	3	MPH	3 MPH
Carrier:	WATER		WATER		WATER
Spray Volume, Unit:	20	GPA	20	GPA	20 GPA
Mix Size, Unit:	0.33	Gallons	0.33	Gallons	0.33 Gallons
Propellant:	CO2		CO2		CO2

Date	By	Notes
6/3/11	Dobbels	Applied Post application of 32 oz. Roundup Powermax + 0.5 oz. Cadet and 2.5% N Pak AMS

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2010/AUTHORITY XL/SOYBEANS/FALL PROGRAMS/

Title No. 2:
 Trial ID: 11FALLSOY1 Protocol ID: 11FALLSOY1
 Location: Study Director:
 Project ID: Investigator: Dr. Mark M. Loux
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	STEME	LAMPU	TAROF	CAPBP	VERAR	
Pest Scientific Name	Stellaria media Lamium purpure>		Taraxacum offi>	Capsella bursa>	Veronica arven>	
Pest Name	Common chickwe>		Purple deadnet>	Common dandel>	Shepherd's pur>	Corn speedwell
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	4/13/11	4/13/11	4/13/11	4/13/11	4/13/11	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	
Days After First/Last Applic.	176 131	176 131	176 131	176 131	176 131	
Trt-Eval Interval	176 DA-A	176 DA-A	176 DA-A	176 DA-A	176 DA-A	
Plant-Eval Interval	-31 DP-1	-31 DP-1	-31 DP-1	-31 DP-1	-31 DP-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	UNTREATED				A	0	0	0	0	0
2	AUTHORITY XL	70	3.2 oz/a		A	100	95	82	100	73
	2 ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
	2 RAGE D-TECH	4.06	16 oz/a		A					
	2 N-PAK AMS	100	2 qt/a		A					
3	AUTHORITY XL	70	4 oz/a		A	100	100	88	99	71
	3 ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
	3 RAGE D-TECH	4.06	16 oz/a		A					
	3 N-PAK AMS	100	2 qt/a		A					
4	AUTHORITY XL	70	3.2 oz/a		B	100	99	100	100	88
	4 ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
	4 RAGE D-TECH	4.06	16 oz/a		B					
	4 N-PAK AMS	100	2 qt/a		B					
5	AUTHORITY XL	70	4.0 oz/a		B	100	100	98	100	99
	5 ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
	5 RAGE D-TECH	4.06	16 oz/a		B					
	5 N-PAK AMS	100	2 qt/a		B					
6	AUTHORITY XL	70	3.2 oz/a		C	98	73	87	90	79
	6 ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
	6 RAGE D-TECH	4.06	16 oz/a		C					
	6 N-PAK AMS	100	2 qt/a		C					
7	AUTHORITY XL	70	4.0 oz/a		C	63	48	83	99	30
	7 ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
	7 RAGE D-TECH	4.06	16 oz/a		C					
	7 N-PAK AMS	100	2 qt/a		C					
8	CANOPY EX 2.2 OZ					100	60	83	100	29
	8 Classic	25	1 oz/a		C					
	8 Express	50	0.15 oz/a		C					
	8 2,4-D Ester	4	1.5 pt/a		C					
	8 COC	100	0.8 qt/a		C					
9	CANOPY EX 2.2 OZ					97	68	77	100	54
	9 Classic	25	1 oz/a		C					
	9 Express	50	0.15 oz/a		C					
	9 RAGE D-TECH	4.06	16 oz/a		C					
	9 COC	100	0.8 qt/a		C					
10	AUTHORITY XL	70	4.0 oz/a		C	93	85	70	100	59
	10 ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
	10 2,4-D Ester	4	1.5 pt/a		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	TAROF	CAPBP	VERAR
Pest Scientific Name	Stellaria media	Lamium purpure>	Taraxacum offi>	Capsella bursa>	Veronica arven>
Pest Name	Common chickwe>	Purple deadnet>	Common dandel>	Shepherd's pur>	Corn speedwell
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/13/11	4/13/11	4/13/11	4/13/11	4/13/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	176 131	176 131	176 131	176 131	176 131
Trt-Eval Interval	176 DA-A	176 DA-A	176 DA-A	176 DA-A	176 DA-A
Plant-Eval Interval	-31 DP-1	-31 DP-1	-31 DP-1	-31 DP-1	-31 DP-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Other	Other	Appl	
No. Name	Conc Rate	Rate	Unit	Code	
10 N-PAK AMS	100	2 qt/a	C		
LSD (P=.05)	10.7	18.6	25.5	9.7	33.2
Standard Deviation	6.2	10.8	14.9	5.6	18.3
CV	7.3	14.87	19.35	6.35	31.37
Bartlett's X2	4.764	15.361	5.352	7.88	2.181
P(Bartlett's X2)	0.19	0.018*	0.617	0.005*	0.824
Replicate F	1.576	0.362	2.910	1.092	0.242
Replicate Prob(F)	0.2341	0.7010	0.0804	0.3579	0.7893
Treatment F	79.446	25.242	10.984	92.871	8.379
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0013

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	TAROF	CAPBP	SONAR
Pest Scientific Name	Stellaria media	Lamium purpure>	Taraxacum offi>	Capsella bursa>	Sonchus arvens>
Pest Name	Common chickwe>	Purple deadnet>	Common dandel>	Shepherd's pur>	Perennial sowt>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/3/11	5/3/11	5/3/11	5/3/11	5/3/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	196 151	196 151	196 151	196 151	196 151
Trt-Eval Interval	196 DA-A	196 DA-A	196 DA-A	196 DA-A	196 DA-A
Plant-Eval Interval	-11 DP-1	-11 DP-1	-11 DP-1	-11 DP-1	-11 DP-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	UNTREATED				A	0	0	0	0	0
2	AUTHORITY XL	70	3.2 oz/a		A	95	93	65	88	95
2	ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
2	RAGE D-TECH	4.06	16 oz/a		A					
2	N-PAK AMS	100	2 qt/a		A					
3	AUTHORITY XL	70	4 oz/a		A	92	87	60	90	100
3	ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
3	RAGE D-TECH	4.06	16 oz/a		A					
3	N-PAK AMS	100	2 qt/a		A					
4	AUTHORITY XL	70	3.2 oz/a		B	97	92	85	100	95
4	ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
4	RAGE D-TECH	4.06	16 oz/a		B					
4	N-PAK AMS	100	2 qt/a		B					
5	AUTHORITY XL	70	4.0 oz/a		B	98	100	97	98	95
5	ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
5	RAGE D-TECH	4.06	16 oz/a		B					
5	N-PAK AMS	100	2 qt/a		B					
6	AUTHORITY XL	70	3.2 oz/a		C	85	73	78	87	95
6	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
6	RAGE D-TECH	4.06	16 oz/a		C					
6	N-PAK AMS	100	2 qt/a		C					
7	AUTHORITY XL	70	4.0 oz/a		C	33	33	72	67	92
7	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
7	RAGE D-TECH	4.06	16 oz/a		C					
7	N-PAK AMS	100	2 qt/a		C					
8	CANOPY EX 2.2 OZ					87	62	65	100	93
8	Classic	25	1 oz/a		C					
8	Express	50	0.15 oz/a		C					
8	2,4-D Ester	4	1.5 pt/a		C					
8	COC	100	0.8 qt/a		C					
9	CANOPY EX 2.2 OZ					87	73	68	100	96
9	Classic	25	1 oz/a		C					
9	Express	50	0.15 oz/a		C					
9	RAGE D-TECH	4.06	16 oz/a		C					
9	COC	100	0.8 qt/a		C					
10	AUTHORITY XL	70	4.0 oz/a		C	93	83	77	95	96
10	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
10	2,4-D Ester	4	1.5 pt/a		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	TAROF	CAPBP	SONAR
Pest Scientific Name	Stellaria media	Lamium purpure>	Taraxacum offi>	Capsella bursa>	Sonchus arvens>
Pest Name	Common chickwe>	Purple deadnet>	Common dandel>	Shepherd's pur>	Perennial sowt>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/3/11	5/3/11	5/3/11	5/3/11	5/3/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	196 151	196 151	196 151	196 151	196 151
Trt-Eval Interval	196 DA-A	196 DA-A	196 DA-A	196 DA-A	196 DA-A
Plant-Eval Interval	-11 DP-1	-11 DP-1	-11 DP-1	-11 DP-1	-11 DP-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Other	Other	Appl	
No. Name	Conc Rate	Rate	Unit	Code	
10 N-PAK AMS	100	2 qt/a	C		
LSD (P=.05)	13.7	16.7	22.6	11.7	11.2
Standard Deviation	8.0	9.7	13.2	6.8	5.8
CV	10.43	13.98	19.79	8.24	6.78
Bartlett's X2	8.7	2.927	7.316	3.072	0.0
P(Bartlett's X2)	0.368	0.892	0.397	0.689	.
Replicate F	2.300	0.668	2.735	3.084	11.358
Replicate Prob(F)	0.1290	0.5250	0.0918	0.0705	0.0063
Treatment F	50.710	30.602	11.485	61.253	80.852
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	VERAR	AMBTR	STEME	LAMPU
Pest Scientific Name	Ranunculus abo>	Veronica arven>	Ambrosia trifi>	Stellaria media	Lamium purpure>
Pest Name	Smallflower bu>	Corn speedwell	Giant ragweed	Common chickwe>	Purple deadnet>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/3/11	5/3/11	5/3/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	196 151	196 151	196 151	209 164	209 164
Trt-Eval Interval	196 DA-A	196 DA-A	196 DA-A	209 DA-A	209 DA-A
Plant-Eval Interval	-11 DP-1	-11 DP-1	-11 DP-1	2 DP-1	2 DP-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15
1	UNTREATED				A	0	0	0	0	0
2	AUTHORITY XL	70	3.2 oz/a		A	100	77	72	100	100
2	ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
2	RAGE D-TECH	4.06	16 oz/a		A					
2	N-PAK AMS	100	2 qt/a		A					
3	AUTHORITY XL	70	4 oz/a		A	100	67	77	97	100
3	ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
3	RAGE D-TECH	4.06	16 oz/a		A					
3	N-PAK AMS	100	2 qt/a		A					
4	AUTHORITY XL	70	3.2 oz/a		B	100	62	77	100	100
4	ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
4	RAGE D-TECH	4.06	16 oz/a		B					
4	N-PAK AMS	100	2 qt/a		B					
5	AUTHORITY XL	70	4.0 oz/a		B	100	93	78	100	100
5	ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
5	RAGE D-TECH	4.06	16 oz/a		B					
5	N-PAK AMS	100	2 qt/a		B					
6	AUTHORITY XL	70	3.2 oz/a		C	100	77	80	100	100
6	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
6	RAGE D-TECH	4.06	16 oz/a		C					
6	N-PAK AMS	100	2 qt/a		C					
7	AUTHORITY XL	70	4.0 oz/a		C	100	43	53	57	100
7	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
7	RAGE D-TECH	4.06	16 oz/a		C					
7	N-PAK AMS	100	2 qt/a		C					
8	CANOPY EX 2.2 OZ					100	30	63	95	82
8	Classic	25	1 oz/a		C					
8	Express	50	0.15 oz/a		C					
8	2,4-D Ester	4	1.5 pt/a		C					
8	COC	100	0.8 qt/a		C					
9	CANOPY EX 2.2 OZ					100	67	73	100	93
9	Classic	25	1 oz/a		C					
9	Express	50	0.15 oz/a		C					
9	RAGE D-TECH	4.06	16 oz/a		C					
9	COC	100	0.8 qt/a		C					
10	AUTHORITY XL	70	4.0 oz/a		C	100	47	67	87	95
10	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
10	2,4-D Ester	4	1.5 pt/a		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	VERAR	AMBTR	STEME	LAMPU
Pest Scientific Name	Ranunculus abo>	Veronica arven>	Ambrosia trifi>	Stellaria media	Lamium purpure>
Pest Name	Smallflower bu>	Corn speedwell	Giant ragweed	Common chickwe>	Purple deadnet>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/3/11	5/3/11	5/3/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	196 151	196 151	196 151	209 164	209 164
Trt-Eval Interval	196 DA-A	196 DA-A	196 DA-A	209 DA-A	209 DA-A
Plant-Eval Interval	-11 DP-1	-11 DP-1	-11 DP-1	2 DP-1	2 DP-1
Number of Decimals	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code
10 N-PAK AMS	100	2 qt/a		C	
	11	12	13	14	15
LSD (P=.05)	0.0	27.3	26.9	14.2	12.3
Standard Deviation	0.0	15.5	15.7	8.2	7.1
CV	0.0	27.4	24.48	9.88	8.21
Bartlett's X2	0.0	5.104	3.167	5.466	1.445
P(Bartlett's X2)	.	0.647	0.869	0.141	0.485
Replicate F	0.000	7.435	0.642	0.918	3.087
Replicate Prob(F)	1.0000	0.0070	0.5380	0.4171	0.0704
Treatment F	0.000	9.226	6.988	45.890	56.944
Treatment Prob(F)	1.0000	0.0002	0.0002	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	CAPBP	SONAR	RANAB	VERAR
Pest Scientific Name	Taraxacum offi>	Capsella bursa>	Sonchus arvens>	Ranunculus abo>	Veronica arven>
Pest Name	Common dandel>	Shepherd's pur>	Perennial sowt>	Smallflower bu>	Corn speedwell
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	5/16/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	209 164	209 164	209 164	209 164	209 164
Trt-Eval Interval	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A
Plant-Eval Interval	2 DP-1	2 DP-1	2 DP-1	2 DP-1	2 DP-1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Form	Other	Other	Appl	16	17	18	19	20
No.	Name	Conc	Rate	Rate	Unit Code					
1	UNTREATED				A	0	0	0	0	0
2	AUTHORITY XL	70	3.2 oz/a		A	67	100	100	100	93
2	ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
2	RAGE D-TECH	4.06	16 oz/a		A					
2	N-PAK AMS	100	2 qt/a		A					
3	AUTHORITY XL	70	4 oz/a		A	65	93	100	100	87
3	ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
3	RAGE D-TECH	4.06	16 oz/a		A					
3	N-PAK AMS	100	2 qt/a		A					
4	AUTHORITY XL	70	3.2 oz/a		B	93	100	100	100	100
4	ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
4	RAGE D-TECH	4.06	16 oz/a		B					
4	N-PAK AMS	100	2 qt/a		B					
5	AUTHORITY XL	70	4.0 oz/a		B	95	100	100	100	100
5	ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
5	RAGE D-TECH	4.06	16 oz/a		B					
5	N-PAK AMS	100	2 qt/a		B					
6	AUTHORITY XL	70	3.2 oz/a		C	80	93	100	100	100
6	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
6	RAGE D-TECH	4.06	16 oz/a		C					
6	N-PAK AMS	100	2 qt/a		C					
7	AUTHORITY XL	70	4.0 oz/a		C	53	67	100	100	87
7	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
7	RAGE D-TECH	4.06	16 oz/a		C					
7	N-PAK AMS	100	2 qt/a		C					
8	CANOPY EX 2.2 OZ					87	93	100	100	100
8	Classic	25	1 oz/a		C					
8	Express	50	0.15 oz/a		C					
8	2,4-D Ester	4	1.5 pt/a		C					
8	COC	100	0.8 qt/a		C					
9	CANOPY EX 2.2 OZ					75	100	100	100	100
9	Classic	25	1 oz/a		C					
9	Express	50	0.15 oz/a		C					
9	RAGE D-TECH	4.06	16 oz/a		C					
9	COC	100	0.8 qt/a		C					
10	AUTHORITY XL	70	4.0 oz/a		C	82	93	100	100	93
10	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
10	2,4-D Ester	4	1.5 pt/a		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	CAPBP	SONAR	RANAB	VERAR
Pest Scientific Name	Taraxacum offi>	Capsella bursa>	Sonchus arvens>	Ranunculus abo>	Veronica arven>
Pest Name	Common dandeli>	Shepherd's pur>	Perennial sowt>	Smallflower bu>	Corn speedwell
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	5/16/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	209 164	209 164	209 164	209 164	209 164
Trt-Eval Interval	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A
Plant-Eval Interval	2 DP-1	2 DP-1	2 DP-1	2 DP-1	2 DP-1
Number of Decimals	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code
10 N-PAK AMS	100	2 qt/a		C	
	16				17
					18
					19
					20
LSD (P=.05)	17.0	14.3	0.0	0.0	19.3
Standard Deviation	9.9	8.3	0.0	0.0	11.0
CV	14.24	9.93	0.0	0.0	12.82
Bartlett's X2	9.449	0.0	0.0	0.0	1.132
P(Bartlett's X2)	0.306	.	.	.	0.769
Replicate F	2.345	0.574	0.000	0.000	3.899
Replicate Prob(F)	0.1244	0.5730	1.0000	1.0000	0.0451
Treatment F	23.439	41.787	0.000	0.000	23.278
Treatment Prob(F)	0.0001	0.0001	1.0000	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	AMBEL	ERICA
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Conyza canaden>
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Common ragweed	Canada horsewe>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	6/1/11	6/1/11	6/1/11	6/1/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	209 164	225 180	225 180	225 180	225 180
Trt-Eval Interval	209 DA-A	225 DA-A	225 DA-A	225 DA-A	225 DA-A
Plant-Eval Interval	2 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	21	22	23	24	25
1	UNTREATED				A	0	0	0	0	0
2	AUTHORITY XL	70	3.2 oz/a		A	70	7	53	90	43
2	ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
2	RAGE D-TECH	4.06	16 oz/a		A					
2	N-PAK AMS	100	2 qt/a		A					
3	AUTHORITY XL	70	4 oz/a		A	73	13	50	57	33
3	ROUNDUP POWERMAX	5.5	0.69 qt/a		A					
3	RAGE D-TECH	4.06	16 oz/a		A					
3	N-PAK AMS	100	2 qt/a		A					
4	AUTHORITY XL	70	3.2 oz/a		B	75	7	33	83	30
4	ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
4	RAGE D-TECH	4.06	16 oz/a		B					
4	N-PAK AMS	100	2 qt/a		B					
5	AUTHORITY XL	70	4.0 oz/a		B	77	7	37	60	30
5	ROUNDUP POWERMAX	5.5	0.69 qt/a		B					
5	RAGE D-TECH	4.06	16 oz/a		B					
5	N-PAK AMS	100	2 qt/a		B					
6	AUTHORITY XL	70	3.2 oz/a		C	68	17	50	77	53
6	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
6	RAGE D-TECH	4.06	16 oz/a		C					
6	N-PAK AMS	100	2 qt/a		C					
7	AUTHORITY XL	70	4.0 oz/a		C	55	7	40	73	40
7	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
7	RAGE D-TECH	4.06	16 oz/a		C					
7	N-PAK AMS	100	2 qt/a		C					
8	CANOPY EX 2.2 OZ					55	27	41	83	23
8	Classic	25	1 oz/a		C					
8	Express	50	0.15 oz/a		C					
8	2,4-D Ester	4	1.5 pt/a		C					
8	COC	100	0.8 qt/a		C					
9	CANOPY EX 2.2 OZ					65	20	77	80	33
9	Classic	25	1 oz/a		C					
9	Express	50	0.15 oz/a		C					
9	RAGE D-TECH	4.06	16 oz/a		C					
9	COC	100	0.8 qt/a		C					
10	AUTHORITY XL	70	4.0 oz/a		C	65	33	30	90	73
10	ROUNDUP POWERMAX	5.5	0.69 qt/a		C					
10	2,4-D Ester	4	1.5 pt/a		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	AMBEL	ERICA
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Conyza canadens>
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Common ragweed	Canada horsewe>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	6/1/11	6/1/11	6/1/11	6/1/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	209 164	225 180	225 180	225 180	225 180
Trt-Eval Interval	209 DA-A	225 DA-A	225 DA-A	225 DA-A	225 DA-A
Plant-Eval Interval	2 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1
Number of Decimals	0	0	0	0	0
Trt Treatment No. Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code
10 N-PAK AMS	100	2 qt/a		C	
	21	22	23	24	25
LSD (P=.05)	23.3	28.6	36.9	50.2	31.2
Standard Deviation	13.6	16.7	21.4	29.2	18.2
CV	22.54	122.03	52.04	42.17	50.46
Bartlett's X2	5.207	5.29	5.369	3.759	9.531
P(Bartlett's X2)	0.735	0.625	0.615	0.878	0.299
Replicate F	1.005	0.587	1.851	0.671	1.303
Replicate Prob(F)	0.3857	0.5662	0.1874	0.5237	0.2961
Treatment F	8.200	1.184	2.525	2.529	3.340
Treatment Prob(F)	0.0001	0.3617	0.0478	0.0449	0.0141

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	SETFA	AMBTR	ERICA
Pest Scientific Name	Taraxacum offi>	Setaria faberi	Ambrosia trifi>	Conyza canaden>
Pest Name	Common dandel>	Giant foxtail	Giant ragweed	Canada horsewe>
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Rating Date	6/1/11	6/29/11	6/29/11	6/29/11
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	225 180	253 208	253 208	253 208
Trt-Eval Interval	225 DA-A	253 DA-A	253 DA-A	253 DA-A
Plant-Eval Interval	18 DP-1	46 DP-1	46 DP-1	46 DP-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	26	27	28	29	30	31
1	UNTREATED				A	0	5	92	85	63	
2	AUTHORITY XL	70	3.2 oz/a		A	53	0	83	95	50	
2	ROUNDUP POWERMAX	5.5	0.69 qt/a		A						
2	RAGE D-TECH	4.06	16 oz/a		A						
2	N-PAK AMS	100	2 qt/a		A						
3	AUTHORITY XL	70	4 oz/a		A	50	0	85	100	57	
3	ROUNDUP POWERMAX	5.5	0.69 qt/a		A						
3	RAGE D-TECH	4.06	16 oz/a		A						
3	N-PAK AMS	100	2 qt/a		A						
4	AUTHORITY XL	70	3.2 oz/a		B	77	0	83	89	53	
4	ROUNDUP POWERMAX	5.5	0.69 qt/a		B						
4	RAGE D-TECH	4.06	16 oz/a		B						
4	N-PAK AMS	100	2 qt/a		B						
5	AUTHORITY XL	70	4.0 oz/a		B	83	0	70	87	57	
5	ROUNDUP POWERMAX	5.5	0.69 qt/a		B						
5	RAGE D-TECH	4.06	16 oz/a		B						
5	N-PAK AMS	100	2 qt/a		B						
6	AUTHORITY XL	70	3.2 oz/a		C	63	0	85	82	66	
6	ROUNDUP POWERMAX	5.5	0.69 qt/a		C						
6	RAGE D-TECH	4.06	16 oz/a		C						
6	N-PAK AMS	100	2 qt/a		C						
7	AUTHORITY XL	70	4.0 oz/a		C	43	0	70	88	60	
7	ROUNDUP POWERMAX	5.5	0.69 qt/a		C						
7	RAGE D-TECH	4.06	16 oz/a		C						
7	N-PAK AMS	100	2 qt/a		C						
8	CANOPY EX 2.2 OZ					60	0	87	92	58	
8	Classic	25	1 oz/a		C						
8	Express	50	0.15 oz/a		C						
8	2,4-D Ester	4	1.5 pt/a		C						
8	COC	100	0.8 qt/a		C						
9	CANOPY EX 2.2 OZ					43	0	78	92	72	
9	Classic	25	1 oz/a		C						
9	Express	50	0.15 oz/a		C						
9	RAGE D-TECH	4.06	16 oz/a		C						
9	COC	100	0.8 qt/a		C						
10	AUTHORITY XL	70	4.0 oz/a		C	65	1	82	85	78	
10	ROUNDUP POWERMAX	5.5	0.69 qt/a		C						
10	2,4-D Ester	4	1.5 pt/a		C						

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Pest Type		W Weed		W Weed	W Weed	W Weed	
Pest Code		TAROF		SETFA	AMBTR	ERICA	
Pest Scientific Name		Taraxacum offi>		Setaria faberi	Ambrosia trifi>	Conyza canaden>	
Pest Name		Common dandel>		Giant foxtail	Giant ragweed	Canada horsewe>	
Crop Code			GLXMA				
BBCH Scale			BSOY				
Crop Scientific Name			Glycine max				
Crop Name			Soybean				
Rating Date		6/1/11	6/29/11	6/29/11	6/29/11	6/29/11	
Rating Type		CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO	
Rating Unit		%	%	%	%	%	
Number of Subsamples		1	1	1	1	1	1
Days After First/Last Applic.		225 180	253 208	253 208	253 208	253 208	
Trt-Eval Interval		225 DA-A	253 DA-A	253 DA-A	253 DA-A	253 DA-A	
Plant-Eval Interval		18 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1	
Number of Decimals		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 qt/a C						
LSD (P=.05)			20.5	0.9	17.8	17.7	19.3 .
Standard Deviation			12.0	0.5	10.4	10.3	11.3 .
CV			22.23	91.29	12.75	11.5	18.32 .
Bartlett's X2			2.878	0.0	10.848	6.635	12.37 .
P(Bartlett's X2)			0.942	.	0.286	0.576	0.135 .
Replicate F			1.995	1.000	1.411	0.071	0.911
Replicate Prob(F)			0.1649	0.3874	0.2695	0.9319	0.4200
Treatment F			11.119	24.889	1.344	0.832	1.752
Treatment Prob(F)			0.0001	0.0001	0.2826	0.5963	0.1488

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2010/AUTHORITY XL/SOYBEANS/FALL PROGRAMS/

Title No. 2:
Trial ID: 11FALLSOY1 Protocol ID: 11FALLSOY1
Location: Study Director:
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact: Joe Reed, FMC

Pest Type

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

Pest Code

STEME, *Stellaria media*, = US
LAMPU, *Lamium purpureum*, = US
TAROF, *Taraxacum officinale*, = US
CAPBP, *Capsella bursa-pastoris*, = US
VERAR, *Veronica arvensis*, = US
SONAR, *Sonchus arvensis*, = US
RANAB, *Ranunculus abortivus*, = US
AMBTR, *Ambrosia trifida*, = US
SETFA, *Setaria faberi*, = US
AMBEL, *Ambrosia artemisiifolia*, = US
ERICA, *Conyza canadensis*, = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

-31 DP-1 = 1 5/14/11
-11 DP-1 = 1 5/14/11
2 DP-1 = 1 5/14/11
18 DP-1 = 1 5/14/11
46 DP-1 = 1 5/14/11