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Cadet/Marvel/Accolade/Roundup early post emergence in soybeans

Trial ID: 14 SOYYLD1
Protocol ID: 14 SOYYLD1
Project ID: FLUT.SOY.14.JPR.01

Location: Western Branch Trial Year: 2014
Investigator: Dr. Mark M. Loux
Study Director: Bryan Reeb
Sponsor Contact: Joe Reed, FMC

Crop Description

Crop 1: GLXMA Glycine max
Variety: PIONEER 35T58
Description: Roundup Ready

Soybean

Planting Rate, Unit: 178000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Seed Bed: SMOTRA smooth/trashy
Planting Date: 5/27/2014
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 6/2/2014

Pest Description

Pest 1 Type: W Code: AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 2 Type: W Code: IPOHE Ipomoea hederacea
Common Name: Ivyleaf morningglory

Pest 3 Type: W Code: CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 40 FT
Treated Plot Area: 266.8 FT2
Replications: 4
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)
Treatments: 14

Soil Description

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

Application Description

Application Date: 6/14/2014
Appl. Start Time: 8:30 AM
Application Method: SPRAY
Application Timing: EPO
Application Placement: BROFOL
Air Temperature, Unit: 63.3 F
% Relative Humidity: 69.5
Wind Velocity, Unit: 2.7 MPH
Wind Direction: SSW
Dew Presence (Y/N): N no
Soil Temperature, Unit: 58 F
Soil Moisture: SLIDRY
% Cloud Cover: 1
Next Moisture Occurred On: 6/16/2014
Time to Next Moisture, Unit: 2 DAY

Crop Stage At Each Application

Crop 1 Code, BBCH Scale: GLXMA BSOY

Pest Stage At Each Application

Pest 1 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 14
Height, Unit: 4 IN
Height Minimum, Maximum: 4 5
Density, Unit: 7.5 M2
Pest 2 Code, Type, Scale: IPOHE W
Stage Majority, Percent: 11
Height, Unit: 1 IN
Height Minimum, Maximum: 1 1.5
Pest 3 Code, Type, Scale: CHEAL W
Density, Unit: 0.5 M2

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Application Equipment

A
Appl. Equipment: 10' BACKPACK
Equipment Type: BACCAI
Operation Pressure, Unit: 50 PSI
Nozzle Type: AIXR
Nozzle Size: 11015
Nozzle Spacing, Unit: 18 IN
Nozzles/Row: 6
Boom Length, Unit: 10 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 15 gal/ac
Mix Size, Unit: 2 liters
Propellant: COMCO2

Date	By	Notes
5/27/2014	REEB	Tractor overlaid the Dual II magnum treatment at 12 oz/ac

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Cadet/Marvel/Accolade/Roundup early post emergence in soybeans

Trial ID: 14 SOYYLD1 Location: Western Branch Trial Year: 2014
 Protocol ID: 14 SOYYLD1 Investigator: Dr. Mark M. Loux
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Pest Type			W Weed	W Weed
Pest Code			SETFA	AMBTR
Pest Scientific Name			Setaria faberi	Ambrosia trifi>
Pest Name			Giant foxtail	Giant ragweed
Crop Code	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	6/23/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	PHYNEC	PHYNEC	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	9 9	11 11	11 11	11 11
Trt-Eval Interval	9 DA-A	17 DA-A	13 DA-A	13 DA-A
Plant-Eval Interval	27 DP-1	29 DP-1	29 DP-1	29 DP-1
Days After Emergence	21 DE-1	23 DE-1	23 DE-1	23 DE-1
Number of Decimals	0			

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	1	2	3	4
1	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		6	1.0	100.0	73.4
1	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
1	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
2	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		9	5.0	100.0	70.0
2	Cadet	0.00427 lb ai/a		0.6 oz/a		1-3" WDS A					
2	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
2	COC	1 % v/v		0.6 qt/a		1-3" WDS A					
2	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
3	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		10	7.0	100.0	70.0
3	Cadet	0.0064 lb ai/a		0.9 oz/a		1-3" WDS A					
3	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
3	COC	1 % v/v		0.6 qt/a		1-3" WDS A					
3	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
4	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		12	8.8	100.0	94.8
4	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
4	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
4	COC	1 % v/v		0.6 qt/a		1-3" WDS A					
4	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
5	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		11	8.3	99.7	71.7
5	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
5	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
5	NIS	0.25 % v/v		0.15 qt/a		1-3" WDS A					
5	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
6	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		8	8.8	99.8	82.5
6	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
6	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
6	NIS	0.125 % v/v		0.075 qt/a		1-3" WDS A					
6	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
7	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		5	0.0	99.8	84.5
7	Firstrate	0.0158 lb ai/a		0.3 oz/a		1-3" WDS A					
7	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
7	COC	1 % v/v		0.6 qt/a		1-3" WDS A					
7	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					

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Pest Type								W Weed	W Weed
Pest Code								SETFA	AMBTR
Pest Scientific Name								Setaria faberi	Ambrosia trifida
Pest Name								Giant foxtail	Giant ragweed
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date								6/25/2014	6/25/2014
Rating Type								CONTR0	CONTR0
Rating Unit								%	%
Number of Subsamples								1	1
Days After First/Last Applic.								11 11	11 11
Trt-Eval Interval								13 DA-A	13 DA-A
Plant-Eval Interval								29 DP-1	29 DP-1
Days After Emergence								23 DE-1	23 DE-1
Number of Decimals								0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4
8	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		11	12.0	100.0	82.3
8	Accolade	0.00045	lb ai/a	0.9	oz/a	1-3" WDS A					
8	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
8	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
8	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
9	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		6	1.3	100.0	75.1
9	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS A					
9	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS A					
9	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
9	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
9	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
10	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		7	2.3	100.0	77.5
10	Cadet	0.00427	lb ai/a	0.6	oz/a	1-3" WDS A					
10	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS A					
10	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
10	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
10	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
11	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		10	12.5	100.0	84.8
11	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS					
11	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS					
11	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS					
11	COC	1	% v/v	0.6	qt/a	1-3" WDS					
11	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
12	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		11	11.3	100.0	70.0
12	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS					
12	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS					
12	Select Max	0.094	lb ai/a	12	oz/a	1-3" WDS					
12	COC	1	% v/v	0.6	qt/a	1-3" WDS					
12	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
13	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		14	13.8	100.0	70.0
13	Basagran	0.375	lb ai/a	12	oz/a	1-3" WDS					
13	Classic	0.0078	lb ai/a	0.5	oz/a	1-3" WDS					
13	Select Max	0.094	lb ai/a	12	oz/a	1-3" WDS					
13	COC	1	% v/v	0.6	qt/a	1-3" WDS					
13	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
14	UTC							1	0.0	0.0	0.0
LSD (P=.05)								2.6	3.78	0.31	13.88
Standard Deviation								1.8	2.65	0.22	9.71
CV								21.16	40.38	0.24	13.51
Bartlett's X2								6.56	8.275	0.063	8.711
P(Bartlett's X2)								0.833	0.602	0.969	0.56
Replicate F								1.067	1.009	3.201	0.458
Replicate Prob(F)								0.3744	0.3990	0.0347	0.7130
Treatment F								14.501	13.949	59987.976	20.521
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	SETFA	AMBTR
Pest Scientific Name	Chenopodium al-	Amaranthus ret-	Setaria faberi	Ambrosia trifi-
Pest Name	Common lambsqu-	Redroot pigweed	Giant foxtail	Giant ragweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6/25/2014	6/25/2014	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.	11 11	11 11	18 18	18 18
Trt-Eval Interval	13 DA-A	13 DA-A	18 DA-A	18 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1	36 DP-1	36 DP-1
Days After Emergence	23 DE-1	23 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	5	6	7	8
1	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	67.5
1	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
1	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
2	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	66.3
2	Cadet	0.00427 lb ai/a		0.6 oz/a		1-3" WDS A					
2	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
2	COC	1 % v/v		0.6 qt/a		1-3" WDS A					
2	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
3	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	66.3
3	Cadet	0.0064 lb ai/a		0.9 oz/a		1-3" WDS A					
3	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
3	COC	1 % v/v		0.6 qt/a		1-3" WDS A					
3	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
4	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	89.8
4	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
4	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
4	COC	1 % v/v		0.6 qt/a		1-3" WDS A					
4	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
5	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	77.3
5	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
5	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
5	NIS	0.25 % v/v		0.15 qt/a		1-3" WDS A					
5	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
6	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	99.8	78.8
6	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
6	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
6	NIS	0.125 % v/v		0.075 qt/a		1-3" WDS A					
6	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
7	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	77.5
7	Firstrate	0.0158 lb ai/a		0.3 oz/a		1-3" WDS A					
7	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
7	COC	1 % v/v		0.6 qt/a		1-3" WDS A					
7	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	SETFA	AMBTR
Pest Scientific Name	Chenopodium al-	Amaranthus ret>	Setaria faberi	Ambrosia trifi>
Pest Name	Common lambsqu>	Redroot pigweed	Giant foxtail	Giant ragweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6/25/2014	6/25/2014	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.	11 11	11 11	18 18	18 18
Trt-Eval Interval	13 DA-A	13 DA-A	18 DA-A	18 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1	36 DP-1	36 DP-1
Days After Emergence	23 DE-1	23 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	5	6	7	8
8	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	100.0	100.0	77.5
8	Accolade	0.00045	lb ai/a	0.9	oz/a	1-3" WDS A					
8	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
8	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
8	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
9	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	100.0	99.7	75.2
9	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS A					
9	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS A					
9	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
9	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
9	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
10	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	100.0	100.0	77.3
10	Cadet	0.00427	lb ai/a	0.6	oz/a	1-3" WDS A					
10	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS A					
10	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
10	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
10	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
11	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	100.0	100.0	81.3
11	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS					
11	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS					
11	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS					
11	COC	1	% v/v	0.6	qt/a	1-3" WDS					
11	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
12	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	100.0	100.0	65.0
12	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS					
12	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS					
12	Select Max	0.094	lb ai/a	12	oz/a	1-3" WDS					
12	COC	1	% v/v	0.6	qt/a	1-3" WDS					
12	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
13	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	100.0	100.0	62.5
13	Basagran	0.375	lb ai/a	12	oz/a	1-3" WDS					
13	Classic	0.0078	lb ai/a	0.5	oz/a	1-3" WDS					
13	Select Max	0.094	lb ai/a	12	oz/a	1-3" WDS					
13	COC	1	% v/v	0.6	qt/a	1-3" WDS					
13	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
14	UTC							0.0	0.0	0.0	0.0
	LSD (P=.05)							0.00	0.00	0.27	15.75
	Standard Deviation							0.00	0.00	0.19	11.02
	CV							0.0	0.0	0.2	16.04
	Bartlett's X2							0.0	0.0	0.05	9.484
	P(Bartlett's X2)							.	.	0.824	0.661
	Replicate F							1.852	1.852	0.507	0.012
	Replicate Prob(F)							0.1553	0.1553	0.6799	0.9982
	Treatment F							21527580456.116	21527580456.116	79607.957	14.776
	Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	SETFA	AMBTR
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Setaria faberi	Ambrosia trifi>
Pest Name	Common ragweed	Common lambsqu>	Giant foxtail	Giant ragweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	7/2/2014	7/2/2014	7/10/2014	7/10/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	18 18	18 18	26 26	26 26
Trt-Eval Interval	18 DA-A	18 DA-A	26 DA-A	26 DA-A
Plant-Eval Interval	36 DP-1	36 DP-1	44 DP-1	44 DP-1
Days After Emergence	30 DE-1	30 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	9	10	11	12
1 Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	78.5
1 Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
1 N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
2 Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	70.0
2 Cadet	0.00427 lb ai/a		0.6 oz/a		1-3" WDS A					
2 Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
2 COC	1 % v/v		0.6 qt/a		1-3" WDS A					
2 N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
3 Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	98.5	78.8
3 Cadet	0.0064 lb ai/a		0.9 oz/a		1-3" WDS A					
3 Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
3 COC	1 % v/v		0.6 qt/a		1-3" WDS A					
3 N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
4 Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	94.5
4 Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
4 Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
4 COC	1 % v/v		0.6 qt/a		1-3" WDS A					
4 N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
5 Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	99.8	82.5
5 Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
5 Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
5 NIS	0.25 % v/v		0.15 qt/a		1-3" WDS A					
5 N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
6 Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0	100.0	91.8
6 Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A					
6 Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
6 NIS	0.125 % v/v		0.075 qt/a		1-3" WDS A					
6 N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					
7 Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	98.8	99.8	80.0
7 Firstrate	0.0158 lb ai/a		0.3 oz/a		1-3" WDS A					
7 Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A					
7 COC	1 % v/v		0.6 qt/a		1-3" WDS A					
7 N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	SETFA	AMBTR
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Setaria faberi	Ambrosia trifi>
Pest Name	Common ragweed	Common lambsqu>	Giant foxtail	Giant ragweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	7/2/2014	7/2/2014	7/10/2014	7/10/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	18 18	18 18	26 26	26 26
Trt-Eval Interval	18 DA-A	18 DA-A	26 DA-A	26 DA-A
Plant-Eval Interval	36 DP-1	36 DP-1	44 DP-1	44 DP-1
Days After Emergence	30 DE-1	30 DE-1	38 DE-1	38 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	9	10	11	12
8	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	100.0	100.0	75.0
8	Accolade	0.00045	lb ai/a	0.9	oz/a	1-3" WDS A					
8	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
8	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
8	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
9	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	99.9	100.0	79.6
9	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS A					
9	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS A					
9	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
9	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
9	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
10	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	100.0	100.0	87.3
10	Cadet	0.00427	lb ai/a	0.6	oz/a	1-3" WDS A					
10	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS A					
10	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A					
10	COC	1	% v/v	0.6	qt/a	1-3" WDS A					
10	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A					
11	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	99.8	100.0	95.0
11	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS					
11	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS					
11	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS					
11	COC	1	% v/v	0.6	qt/a	1-3" WDS					
11	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
12	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	99.8	100.0	74.8
12	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS					
12	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS					
12	Select Max	0.094	lb ai/a	12	oz/a	1-3" WDS					
12	COC	1	% v/v	0.6	qt/a	1-3" WDS					
12	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
13	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	100.0	100.0	60.0
13	Basagran	0.375	lb ai/a	12	oz/a	1-3" WDS					
13	Classic	0.0078	lb ai/a	0.5	oz/a	1-3" WDS					
13	Select Max	0.094	lb ai/a	12	oz/a	1-3" WDS					
13	COC	1	% v/v	0.6	qt/a	1-3" WDS					
13	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS					
14	UTC							0.0	0.0	0.0	0.0
LSD (P=.05)								0.00	0.97	0.74	15.61
Standard Deviation								0.00	0.68	0.52	10.93
CV								0.0	0.73	0.56	14.6
Bartlett's X2								0.0	9.909	6.276	13.03
P(Bartlett's X2)								.	0.007*	0.043*	0.367
Replicate F								0.000	2.213	0.354	2.850
Replicate Prob(F)								1.0000	0.1024	0.7863	0.0501
Treatment F								0.000	6214.380	10599.058	18.599
Treatment Prob(F)								1.0000	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed
Pest Code	AMBEL	CHEAL
Pest Scientific Name	Ambrosia artem>	Chenopodium al>
Pest Name	Common ragweed	Common lambsqu>
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7/10/2014	7/10/2014
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	26 26	26 26
Trt-Eval Interval	26 DA-A	26 DA-A
Plant-Eval Interval	44 DP-1	44 DP-1
Days After Emergence	38 DE-1	38 DE-1
Number of Decimals		

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14
1	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		99.8	99.3
1	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A			
1	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A			
2	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	98.8
2	Cadet	0.00427 lb ai/a		0.6 oz/a		1-3" WDS A			
2	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A			
2	COC	1 % v/v		0.6 qt/a		1-3" WDS A			
2	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A			
3	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	98.8
3	Cadet	0.0064 lb ai/a		0.9 oz/a		1-3" WDS A			
3	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A			
3	COC	1 % v/v		0.6 qt/a		1-3" WDS A			
3	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A			
4	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	98.8
4	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A			
4	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A			
4	COC	1 % v/v		0.6 qt/a		1-3" WDS A			
4	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A			
5	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	100.0
5	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A			
5	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A			
5	NIS	0.25 % v/v		0.15 qt/a		1-3" WDS A			
5	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A			
6	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	97.5
6	Marvel	0.17 lb ai/a		7.25 oz/a		1-3" WDS A			
6	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A			
6	NIS	0.125 % v/v		0.075 qt/a		1-3" WDS A			
6	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A			
7	Dual II Magnum	0.714 lb ai/a		12 oz/a		PRE		100.0	98.8
7	Firstrate	0.0158 lb ai/a		0.3 oz/a		1-3" WDS A			
7	Roundup Power Max	1.13 lb ae/a		32 oz/a		1-3" WDS A			
7	COC	1 % v/v		0.6 qt/a		1-3" WDS A			
7	N-pak ams	3.75 % v/v		2.25 qt/a		1-3" WDS A			

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Pest Type	W Weed	W Weed
Pest Code	AMBEL	CHEAL
Pest Scientific Name	Ambrosia artem>	Chenopodium al>
Pest Name	Common ragweed	Common lambsqu>
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7/10/2014	7/10/2014
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	26 26	26 26
Trt-Eval Interval	26 DA-A	26 DA-A
Plant-Eval Interval	44 DP-1	44 DP-1
Days After Emergence	38 DE-1	38 DE-1
Number of Decimals		

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	13	14
8	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	100.0
8	Accolade	0.00045	lb ai/a	0.9	oz/a	1-3" WDS A			
8	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A			
8	COC	1	% v/v	0.6	qt/a	1-3" WDS A			
8	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A			
9	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	99.8
9	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS A			
9	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS A			
9	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A			
9	COC	1	% v/v	0.6	qt/a	1-3" WDS A			
9	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A			
10	Dual II Magnum	0.714	lb ai/a	12	oz/a	PRE		100.0	100.0
10	Cadet	0.00427	lb ai/a	0.6	oz/a	1-3" WDS A			
10	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS A			
10	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS A			
10	COC	1	% v/v	0.6	qt/a	1-3" WDS A			
10	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS A			
11	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	100.0
11	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS			
11	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS			
11	Roundup Power Max	1.13	lb ae/a	32	oz/a	1-3" WDS			
11	COC	1	% v/v	0.6	qt/a	1-3" WDS			
11	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS			
12	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	99.8
12	Accolade	0.00006	lb ai/a	0.12	oz/a	1-3" WDS			
12	Firstrate	0.0158	lb ai/a	0.3	oz/a	1-3" WDS			
12	Select Max	0.094	lb ai/a	12	oz/a	1-3" WDS			
12	COC	1	% v/v	0.6	qt/a	1-3" WDS			
12	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS			
13	Anthem	0.101	lb ai/a	6	oz/a	1-3" WDS		100.0	100.0
13	Basagran	0.375	lb ai/a	12	oz/a	1-3" WDS			
13	Classic	0.0078	lb ai/a	0.5	oz/a	1-3" WDS			
13	Select Max	0.094	lb ai/a	12	oz/a	1-3" WDS			
13	COC	1	% v/v	0.6	qt/a	1-3" WDS			
13	N-pak ams	3.75	% v/v	2.25	qt/a	1-3" WDS			
14	UTC							0.0	0.0
LSD (P=.05)								0.19	2.64
Standard Deviation								0.14	1.85
CV								0.15	2.0
Bartlett's X2								0.0	13.804
P(Bartlett's X2)								.	0.032*
Replicate F								0.974	1.397
Replicate Prob(F)								0.4149	0.2585
Treatment F								155838.465	826.208
Treatment Prob(F)								0.0001	0.0001

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Cadet/Marvel/Accolade/Roundup early post emergence in soybeans

Trial ID: 14 SOYYLD1
Protocol ID: 14 SOYYLD1
Project ID: FLUT.SOY.14.JPR.01

Location: Western Branch Trial Year: 2014
Investigator: Dr. Mark M. Loux
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
CHEAL, Chenopodium album, = US
AMARE, Amaranthus retroflexus, = US
AMBEL, Ambrosia artemisiifolia, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYNEC = phytotoxicity - necrosis /burn
CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

27 DP-1 = 1 GLXMA 5/27/2014
29 DP-1 = 1 GLXMA 5/27/2014
36 DP-1 = 1 GLXMA 5/27/2014
44 DP-1 = 1 GLXMA 5/27/2014