

Southern Illinois University

Marvel Evaluation in Soybean.

Trial ID: 13-1-MMW40 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 7-12-13 Completion Date: 11-10-13		Trial Location
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA	

Objectives: Evaluate postemergence weed control with Marvel compared with competitive standards.
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Study Director: Bryan Young Title: Professor Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 Phone No.: 618-453-7679 City+State/Prov: Carbondale IL Mobile No.: 618-713-6471 Postal Code: 62901 E-mail: bgyoung@siu.edu Country: USA		Contacts
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Crop 1: GLXMA Glycine max Soybean Variety: AG3832 Description: RR2Y Planting Rate, Unit: 75 LB/A Planting Date: 7-12-13 Depth, Unit: 1 IN Planting Method: SEEDED Row Spacing, Unit: 30 IN	Crop Description
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Pest 1 Type: W Code: SETFA Setaria faberi Herm. Common Name: foxtail, giant Pest 2 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common Pest 4 Type: W Code: ABUTH Abutilon theophrasti Medik. Common Name: velvetleaf	Pest Description
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Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Site Type: FIELD Treated Plot Length: 31 FT Total Plot Length: 31 FT Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Replications: 4 Study Design: RACOB� Randomized Complete Block (RCB) Untreated Arrangement: INCLUDED single control randomized in each block		Site and Design						
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ZEAMD</td> <td>2012</td> </tr> </tbody> </table>	No.	Previous Crop	Year	1.	ZEAMD	2012		
No.	Previous Crop	Year						
1.	ZEAMD	2012						

<table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A				

% OM: 2.5 Texture: SIL silt loam pH: 6 Soil Name: Winfield CEC: 6	Soil Description									
Additional Measured Elements										
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>58</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>286</td> <td>lb/A</td> </tr> </tbody> </table>	Element	Quantity	Unit	P1	58	lb/A	K	286	lb/A	
Element	Quantity	Unit								
P1	58	lb/A								
K	286	lb/A								

Overall Moisture Conditions: ABONOR Closest Weather Station: ICN - Belleville IL	Moisture and Weather Conditions Distance, Unit: 0.5 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	6-2-13					7	DAY	50	80	F
2.	6-9-13					7	DAY	59	94	F
3.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
4.	6-16-13					7	DAY	61	90	F
5.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
6.	6-23-13					7	DAY	64	92	F
7.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
8.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
9.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
10.	6-30-13					7	DAY	61	86	F
11.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
12.	7-7-13					7	DAY	62	94	F
13.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
14.	7-14-13					7	DAY	64	94	F
15.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
16.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
17.	7-21-13					7	DAY	56	91	F
18.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
19.	7-28-13					7	DAY	52	87	F
20.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
21.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
22.	8-4-13					7	DAY	62	87	F
23.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
24.	8-11-13					7	DAY	54	85	F
25.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
26.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
27.	8-18-13					7	DAY	61	91	F
28.	8-25-13					7	DAY	62	100	F
29.	8-31-13	0.74	IN	RAIN	rain	1	DAY			
30.	9-1-13					7	DAY	57	92	F
31.	9-8-13	0.26	IN	RAIN	rain	1	DAY			

Application Description

	A	B	C
Application Date:	7-13-13	7-29-13	8-2-13
Appl. Start Time:	18:00	9:30	9:00
Appl. Stop Time:	18:30	10:00	9:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	4-6"W
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	RJW	RJW	RJW
Air Temperature, Unit:	82 F	74 F	77 F
% Relative Humidity:	55	66	79
Wind Velocity, Unit:	6 MPH	3 MPH	4 MPH
Wind Direction:	S	S	S
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	76 F	73 F	74 F
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	20	100	100
Next Moisture Occurred On:	7-20-13	7-30-13	8-2-13
Time to Next Moisture, Unit:	7 DAY	21 HR	11 HR

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	V2	V3
Stage Minimum, Percent:		V2	V3
Stage Maximum, Percent:		V2	V3
Height, Unit:		6 IN	7 IN
Height Minimum, Maximum:		4 6	6 7

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	NA	3	NA
Stage Minimum, Percent:		2	
Stage Maximum, Percent:		4	
Height, Unit:		3 IN	
Height Minimum, Maximum:		0.5 5	
Density, Unit:		1 FT2	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	6	6
Stage Minimum, Percent:		2	COTY
Stage Maximum, Percent:		8	10
Height, Unit:		4 IN	5 IN
Height Minimum, Maximum:		1 5	1 8
Density, Unit:		0.01 FT2	0.1 FT2
Pest 3 Code, Type, Scale:	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	6	NA
Stage Minimum, Percent:		COTY	
Stage Maximum, Percent:		10	
Height, Unit:		3 IN	
Height Minimum, Maximum:		0.5 5	
Density, Unit:		10 FT2	
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	NA	NA

Application Equipment

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	TTI	XR	XR
Nozzle Size:	11002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							GLXMA 11-10-13 Moisture Percent	GLXMA 11-10-13 Test wt. lb/bu	GLXMA 11-10-13 Yield bu/A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 3 4.5 100	WG SL SL SG	0.29 0.14 0.77 1	lb ai/a lb ai/a lb ae/a % w/w	7 6 22 8.5	oz/a fl oz/a fl oz/a lb/100 gal	PRE 4-6"W 4-6"W 4-6"W	A C C C
2	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 3 4.5 100	WG SL SL SG	0.29 0.17 0.77 1	lb ai/a lb ai/a lb ae/a % w/w	7 7.25 22 8.5	oz/a fl oz/a fl oz/a lb/100 gal	PRE 4-6"W 4-6"W 4-6"W	A C C C
3	AUTHORITY MAXX FLEXSTAR ROUNDUP POWERMAX AMS	66 1.88 4.5 100	WG EC SL SG	0.29 0.235 0.77 1	lb ai/a lb ai/a lb ae/a % w/w	7 16 22 8.5	oz/a fl oz/a fl oz/a lb/100 gal	PRE 4-6"W 4-6"W 4-6"W	A C C C
4	VALOR XLT COBRA ROUNDUP POWERMAX AMS	40.3 2 4.5 100	WG EC SL SG	0.0756 0.188 0.77 1	lb ai/a lb ai/a lb ae/a % w/w	3 12 22 8.5	oz/a fl oz/a fl oz/a lb/100 gal	PRE 4-6"W 4-6"W 4-6"W	A C C C
5	MARVEL ROUNDUP POWERMAX AMS	3 4.5 100	SL SL SG	0.17 0.77 1	lb ai/a lb ae/a % w/w	7.25 22 8.5	fl oz/a fl oz/a lb/100 gal	2-4"W 2-4"W 2-4"W	B B B
6	FLEXSTAR ROUNDUP POWERMAX AMS	1.88 4.5 100	EC SL SG	0.235 0.77 1	lb ai/a lb ae/a % w/w	16 22 8.5	fl oz/a fl oz/a lb/100 gal	2-4"W 2-4"W 2-4"W	B B B
7	COBRA ROUNDUP POWERMAX AMS	2 4.5 100	EC SL SG	0.188 0.77 1	lb ai/a lb ae/a % w/w	12 22 8.5	fl oz/a fl oz/a lb/100 gal	2-4"W 2-4"W 2-4"W	B B B
8	NONTREATED								
LSD (P=.05)							0.37	0.14	7.8
Standard Deviation							0.25	0.09	5.3
CV							1.69	0.16	16.16
Replicate F							0.300	0.557	3.248
Replicate Prob(F)							0.8250	0.6500	0.0423
Treatment F							4.102	2.098	18.127
Treatment Prob(F)							0.0055	0.0944	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Missing data estimates are included in columns: Average=3

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval									GLXMA 7-28-13 Injury Percent -1 DA-B 15 DA-A	GLXMA 8-2-13 Injury Percent 0 DA-C 4 DA-B	GLXMA 8-8-13 Injury Percent 6 DA-C	GLXMA 8-13-13 Injury Percent 31 DA-A 15 DA-B	GLXMA 8-17-13 Injury Percent 15 DA-C	GLXMA 8-28-13 Injury Percent 30 DA-B	GLXMA 9-1-13 Injury Percent 30 DA-C	GLXMA 9-11-13 Injury Percent 60 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
1	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 WG 3 SL 4.5 SL 100 SG		0.29 lb ai/a 0.14 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 6 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	18 a	18 b	21 b	21 cd	16 bc	10 bc	7 b	0 a
2	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 WG 3 SL 4.5 SL 100 SG		0.29 lb ai/a 0.17 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 7.25 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	18 a	18 b	22 b	28 ab	21 a	14 a	11 a	0 a
3	AUTHORITY MAXX FLEXSTAR ROUNDUP POWERMAX AMS	66 WG 1.88 EC 4.5 SL 100 SG		0.29 lb ai/a 0.235 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	19 a	20 b	22 b	26 abc	19 ab	13 ab	10 a	0 a
4	VALOR XLT COBRA ROUNDUP POWERMAX AMS	40.3 WG 2 EC 4.5 SL 100 SG		0.0756 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 1 % w/w		3 oz/a 12 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	7 b	7 c	26 a	30 a	23 a	15 a	11 a	0 a
5	MARVEL ROUNDUP POWERMAX AMS	3 SL 4.5 SL 100 SG		0.17 lb ai/a 0.77 lb ae/a 1 % w/w		7.25 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		24 a	12 c	18 de	9 de	8 cd	7 b	0 a
6	FLEXSTAR ROUNDUP POWERMAX AMS	1.88 EC 4.5 SL 100 SG		0.235 lb ai/a 0.77 lb ae/a 1 % w/w		16 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		18 b	9 d	14 e	8 e	6 d	5 b	0 a
7	COBRA ROUNDUP POWERMAX AMS	2 EC 4.5 SL 100 SG		0.188 lb ai/a 0.77 lb ae/a 1 % w/w		12 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		19 b	12 c	23 bcd	13 cd	9 c	6 b	0 a
8	NONTREATED									0 c	0 d	0 e	0 f	0 f	0 e	0 c	0 a
LSD (P=.05)										3.4	3.7	2.7	5.1	4.6	3.3	2.0	0.0
Standard Deviation										2.2	2.5	1.9	3.4	3.1	2.2	1.4	0.0
CV										17.92	16.34	12.18	17.31	22.93	23.95	19.83	0.0
Replicate F										0.288	0.631	2.968	2.363	7.137	11.522	6.900	0.000
Replicate Prob(F)										0.8331	0.6031	0.0553	0.1002	0.0017	0.0001	0.0021	1.0000
Treatment F										57.206	39.172	89.253	31.410	25.222	19.085	26.377	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										SETFA 7-28-13 Control Percent -1 DA-B 15 DA-A	SETFA 8-2-13 Control Percent 0 DA-C 4 DA-B	SETFA 8-8-13 Control Percent 6 DA-C	SETFA 8-13-13 Control Percent 31 DA-A 15 DA-B	SETFA 8-17-13 Control Percent 15 DA-C	SETFA 8-28-13 Control Percent 30 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code						
1	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 3 4.5 100	WG SL SL SG	0.29 0.14 0.77 1	lb ai/a lb ai/a lb ae/a w/w	7 6 22 8.5	oz/a fl oz/a fl oz/a lb/100 gal	PRE 4-6" 4-6" 4-6"	A C C C	96 a	94 b	99 a	99 a	99 a	99 a
2	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 3 4.5 100	WG SL SL SG	0.29 0.17 0.77 1	lb ai/a lb ai/a lb ae/a w/w	7 7.25 22 8.5	oz/a fl oz/a fl oz/a lb/100 gal	PRE 4-6" 4-6" 4-6"	A C C C	96 a	93 b	99 a	99 a	99 a	99 a
3	AUTHORITY MAXX FLEXSTAR ROUNDUP POWERMAX AMS	66 1.88 4.5 100	WG EC SL SG	0.29 0.235 0.77 1	lb ai/a lb ai/a lb ae/a w/w	7 16 22 8.5	oz/a fl oz/a fl oz/a lb/100 gal	PRE 4-6" 4-6" 4-6"	A C C C	95 a	95 b	99 a	99 a	99 a	99 a
4	VALOR XLT COBRA ROUNDUP POWERMAX AMS	40.3 2 4.5 100	WG EC SL SG	0.0756 0.188 0.77 1	lb ai/a lb ai/a lb ae/a w/w	3 12 22 8.5	oz/a fl oz/a fl oz/a lb/100 gal	PRE 4-6" 4-6" 4-6"	A C C C	96 a	94 b	99 a	99 a	99 a	98 b
5	MARVEL ROUNDUP POWERMAX AMS	3 4.5 100	SL SL SG	0.17 0.77 1	lb ai/a lb ae/a w/w	7.25 22 8.5	fl oz/a fl oz/a lb/100 gal	2-4" 2-4" 2-4"	B B B		98 a	99 a	99 a	99 a	98 b
6	FLEXSTAR ROUNDUP POWERMAX AMS	1.88 4.5 100	EC SL SG	0.235 0.77 1	lb ai/a lb ae/a w/w	16 22 8.5	fl oz/a fl oz/a lb/100 gal	2-4" 2-4" 2-4"	B B B		98 a	99 a	99 a	99 a	98 ab
7	COBRA ROUNDUP POWERMAX AMS	2 4.5 100	EC SL SG	0.188 0.77 1	lb ai/a lb ae/a w/w	12 22 8.5	fl oz/a fl oz/a lb/100 gal	2-4" 2-4" 2-4"	B B B		97 a	99 a	98 b	98 b	97 c
8	NONTREATED									0 b	0 c	0 a	0 c	0 c	0 d
LSD (P=.05)										2.7	2.2	0.0	0.6	0.5	0.9
Standard Deviation										1.7	1.5	0.0	0.4	0.3	0.6
CV										2.25	1.75	0.0	0.47	0.37	0.71
Replicate F										2.106	0.622	0.000	1.734	1.928	0.304
Replicate Prob(F)										0.1528	0.6085	1.0000	0.1907	0.1561	0.8219
Treatment F										2465.572	2131.400	0.000	30064.269	47559.266	12826.329
Treatment Prob(F)										0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

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Pest Code										SETFA	SETFA
Crop Code										9-1-13	9-11-13
Rating Date										Control	Control
Rating Type										Percent	Percent
Rating Unit										30 DA-C	60 DA-A
Rating Timing											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	AUTHORITY MAXX	66	WG	0.29	lb ai/a	7	oz/a	PRE	A	99 ab	96 ab
	MARVEL	3	SL	0.14	lb ai/a	6	fl oz/a	4-6"W	C		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C		
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	C		
2	AUTHORITY MAXX	66	WG	0.29	lb ai/a	7	oz/a	PRE	A	99 ab	98 ab
	MARVEL	3	SL	0.17	lb ai/a	7.25	fl oz/a	4-6"W	C		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C		
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	C		
3	AUTHORITY MAXX	66	WG	0.29	lb ai/a	7	oz/a	PRE	A	99 a	99 a
	FLEXSTAR	1.88	EC	0.235	lb ai/a	16	fl oz/a	4-6"W	C		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C		
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	C		
4	VALOR XLT	40.3	WG	0.0756	lb ai/a	3	oz/a	PRE	A	97 cd	95 bc
	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	4-6"W	C		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C		
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	C		
5	MARVEL	3	SL	0.17	lb ai/a	7.25	fl oz/a	2-4"W	B	97 cd	95 bc
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B		
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	2-4"W	B		
6	FLEXSTAR	1.88	EC	0.235	lb ai/a	16	fl oz/a	2-4"W	B	98 bc	96 ab
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B		
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	2-4"W	B		
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	2-4"W	B	97 d	93 c
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B		
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	2-4"W	B		
8	NONTREATED									0 e	0 d
LSD (P=.05)										0.9	2.7
Standard Deviation										0.6	1.8
CV										0.71	2.2
Replicate F										0.543	1.713
Replicate Prob(F)										0.6583	0.1949
Treatment F										13130.242	1356.378
Treatment Prob(F)										0.0001	0.0001

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							7-28-13 Control Percent -1 DA-B 15 DA-A	8-2-13 Control Percent 0 DA-C 4 DA-B	8-8-13 Control Percent 6 DA-C	8-13-13 Control Percent 31 DA-A 15 DA-B	8-17-13 Control Percent 15 DA-C	8-28-13 Control Percent 30 DA-B	9-1-13 Control Percent 30 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate Other Rate Unit Growth Stage Appl Code							
1	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 WG 3 SL 4.5 SL 100 SG		0.29 lb ai/a 0.14 lb ai/a 0.77 lb ae/a 1 % w/w	7 oz/a 6 fl oz/a 22 fl oz/a 8.5 lb/100 gal	PRE A 4-6"W C 4-6"W C 4-6"W C	40 b	30 c	94 c	96 b	96 b	98 a	98 a
2	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 WG 3 SL 4.5 SL 100 SG		0.29 lb ai/a 0.17 lb ai/a 0.77 lb ae/a 1 % w/w	7 oz/a 7.25 fl oz/a 22 fl oz/a 8.5 lb/100 gal	PRE A 4-6"W C 4-6"W C 4-6"W C	40 b	30 c	94 c	96 b	96 b	98 a	98 a
3	AUTHORITY MAXX FLEXSTAR ROUNDUP POWERMAX AMS	66 WG 1.88 EC 4.5 SL 100 SG		0.29 lb ai/a 0.235 lb ai/a 0.77 lb ae/a 1 % w/w	7 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb/100 gal	PRE A 4-6"W C 4-6"W C 4-6"W C	45 ab	30 c	96 b	98 ab	98 ab	99 a	99 a
4	VALOR XLT COBRA ROUNDUP POWERMAX AMS	40.3 WG 2 EC 4.5 SL 100 SG		0.0756 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 1 % w/w	3 oz/a 12 fl oz/a 22 fl oz/a 8.5 lb/100 gal	PRE A 4-6"W C 4-6"W C 4-6"W C	56 a	49 b	99 a	99 a	98 a	99 a	98 a
5	MARVEL ROUNDUP POWERMAX AMS	3 SL 4.5 SL 100 SG		0.17 lb ai/a 0.77 lb ae/a 1 % w/w	7.25 fl oz/a 22 fl oz/a 8.5 lb/100 gal	2-4"W B 2-4"W B 2-4"W B		96 a	99 a	99 a	99 a	99 a	99 a
6	FLEXSTAR ROUNDUP POWERMAX AMS	1.88 EC 4.5 SL 100 SG		0.235 lb ai/a 0.77 lb ae/a 1 % w/w	16 fl oz/a 22 fl oz/a 8.5 lb/100 gal	2-4"W B 2-4"W B 2-4"W B		97 a	99 a	98 ab	99 a	99 a	99 a
7	COBRA ROUNDUP POWERMAX AMS	2 EC 4.5 SL 100 SG		0.188 lb ai/a 0.77 lb ae/a 1 % w/w	12 fl oz/a 22 fl oz/a 8.5 lb/100 gal	2-4"W B 2-4"W B 2-4"W B		97 a	98 ab	96 b	97 b	96 b	96 b
8	NONTREATED						0 c	0 d	0 d	0 c	0 c	0 c	0 c
LSD (P=.05)							11.5	11.1	2.0	2.6	1.6	1.7	2.0
Standard Deviation							7.4	7.6	1.4	1.8	1.1	1.1	1.4
CV							20.54	14.1	1.63	2.11	1.31	1.31	1.58
Replicate F							0.624	0.727	4.789	0.129	1.533	0.720	0.430
Replicate Prob(F)							0.6130	0.5470	0.0107	0.9417	0.2352	0.5514	0.7334
Treatment F							32.820	101.638	2452.523	1464.753	3800.229	3783.028	2608.457
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Marvel Evaluation in Soybean.

Trial ID: 13-1-MMW40 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code									AMBTR	
Crop Code										
Rating Date									9-11-13	
Rating Type									Control	
Rating Unit									Percent	
Rating Timing										
Trt-Eval Interval									60 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	AUTHORITY MAXX	66	WG	0.29 lb ai/a		7 oz/a		PRE	A	97 ab
	MARVEL	3	SL	0.14 lb ai/a		6 fl oz/a		4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		4-6"W	C	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		4-6"W	C	
2	AUTHORITY MAXX	66	WG	0.29 lb ai/a		7 oz/a		PRE	A	99 a
	MARVEL	3	SL	0.17 lb ai/a		7.25 fl oz/a		4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		4-6"W	C	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		4-6"W	C	
3	AUTHORITY MAXX	66	WG	0.29 lb ai/a		7 oz/a		PRE	A	99 a
	FLEXSTAR	1.88	EC	0.235 lb ai/a		16 fl oz/a		4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		4-6"W	C	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		4-6"W	C	
4	VALOR XLT	40.3	WG	0.0756 lb ai/a		3 oz/a		PRE	A	98 a
	COBRA	2	EC	0.188 lb ai/a		12 fl oz/a		4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		4-6"W	C	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		4-6"W	C	
5	MARVEL	3	SL	0.17 lb ai/a		7.25 fl oz/a		2-4"W	B	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		2-4"W	B	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		2-4"W	B	
6	FLEXSTAR	1.88	EC	0.235 lb ai/a		16 fl oz/a		2-4"W	B	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		2-4"W	B	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		2-4"W	B	
7	COBRA	2	EC	0.188 lb ai/a		12 fl oz/a		2-4"W	B	94 b
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		2-4"W	B	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		2-4"W	B	
8	NONTREATED									0 c
LSD (P=.05)									3.2	
Standard Deviation									2.1	
CV									2.51	
Replicate F									0.606	
Replicate Prob(F)									0.6185	
Treatment F									1037.289	
Treatment Prob(F)									0.0001	

Southern Illinois University

Marvel Evaluation in Soybean.

Trial ID: 13-1-MMW40 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
							7-28-13 Control Percent -1 DA-B 15 DA-A	8-2-13 Control Percent 0 DA-C 4 DA-B	8-8-13 Control Percent 6 DA-C	8-13-13 Control Percent 31 DA-A 15 DA-B	8-17-13 Control Percent 15 DA-C	8-28-13 Control Percent 30 DA-B	9-1-13 Control Percent 30 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 WG 3 SL 4.5 SL 100 SG		0.29 lb ai/a 0.14 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 6 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	99 a	98 ab	99 a	99 a
2	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 WG 3 SL 4.5 SL 100 SG		0.29 lb ai/a 0.17 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 7.25 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	99 a	98 ab	99 a	99 a
3	AUTHORITY MAXX FLEXSTAR ROUNDUP POWERMAX AMS	66 WG 1.88 EC 4.5 SL 100 SG		0.29 lb ai/a 0.235 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	99 a	99 a	99 a	99 a
4	VALOR XLT COBRA ROUNDUP POWERMAX AMS	40.3 WG 2 EC 4.5 SL 100 SG		0.0756 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 1 % w/w		3 oz/a 12 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	99 a	98 ab	99 a	99 a
5	MARVEL ROUNDUP POWERMAX AMS	3 SL 4.5 SL 100 SG		0.17 lb ai/a 0.77 lb ae/a 1 % w/w		7.25 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		97 b	99 a	98 a
6	FLEXSTAR ROUNDUP POWERMAX AMS	1.88 EC 4.5 SL 100 SG		0.235 lb ai/a 0.77 lb ae/a 1 % w/w		16 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		99 ab	99 a	96 b
7	COBRA ROUNDUP POWERMAX AMS	2 EC 4.5 SL 100 SG		0.188 lb ai/a 0.77 lb ae/a 1 % w/w		12 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		99 ab	99 a	97 ab
8	NONTREATED									0	0 c	0 b	0 c
LSD (P=.05)							0.0	1.8	0.3	1.9	1.4	1.5	1.2
Standard Deviation							0.0	1.2	0.2	1.3	1.0	1.0	0.8
CV							0.0	1.39	0.2	1.53	1.12	1.15	0.98
Replicate F							0.000	0.933	1.000	0.338	0.746	1.096	1.101
Replicate Prob(F)							1.0000	0.4421	0.4123	0.7981	0.5369	0.3726	0.3709
Treatment F							0.000	3372.550	156703.873	2784.497	5209.942	4903.446	6821.730
Treatment Prob(F)							1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Marvel Evaluation in Soybean.

Trial ID: 13-1-MMW40 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code									AMATA	
Crop Code										
Rating Date									9-11-13	
Rating Type									Control	
Rating Unit									Percent	
Rating Timing										
Trt-Eval Interval									60 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	AUTHORITY MAXX	66	WG	0.29 lb ai/a		7 oz/a		PRE	A	99 a
	MARVEL	3	SL	0.14 lb ai/a		6 fl oz/a		4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		4-6"W	C	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		4-6"W	C	
2	AUTHORITY MAXX	66	WG	0.29 lb ai/a		7 oz/a		PRE	A	99 a
	MARVEL	3	SL	0.17 lb ai/a		7.25 fl oz/a		4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		4-6"W	C	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		4-6"W	C	
3	AUTHORITY MAXX	66	WG	0.29 lb ai/a		7 oz/a		PRE	A	99 a
	FLEXSTAR	1.88	EC	0.235 lb ai/a		16 fl oz/a		4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		4-6"W	C	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		4-6"W	C	
4	VALOR XLT	40.3	WG	0.0756 lb ai/a		3 oz/a		PRE	A	99 a
	COBRA	2	EC	0.188 lb ai/a		12 fl oz/a		4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		4-6"W	C	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		4-6"W	C	
5	MARVEL	3	SL	0.17 lb ai/a		7.25 fl oz/a		2-4"W	B	98 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		2-4"W	B	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		2-4"W	B	
6	FLEXSTAR	1.88	EC	0.235 lb ai/a		16 fl oz/a		2-4"W	B	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		2-4"W	B	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		2-4"W	B	
7	COBRA	2	EC	0.188 lb ai/a		12 fl oz/a		2-4"W	B	98 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		2-4"W	B	
	AMS	100	SG	1 % w/w		8.5 lb/100 gal		2-4"W	B	
8	NONTREATED									0 b
LSD (P=.05)										1.9
Standard Deviation										1.3
CV										1.53
Replicate F										1.055
Replicate Prob(F)										0.3892
Treatment F										2795.836
Treatment Prob(F)										0.0001

Southern Illinois University

Marvel Evaluation in Soybean.

Trial ID: 13-1-MMW40 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
							7-28-13 Control Percent -1 DA-B 15 DA-A	8-2-13 Control Percent 0 DA-C 4 DA-B	8-8-13 Control Percent 6 DA-C	8-13-13 Control Percent 31 DA-A 15 DA-B	8-17-13 Control Percent 15 DA-C	8-28-13 Control Percent 30 DA-B	9-1-13 Control Percent 30 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 WG 3 SL 4.5 SL 100 SG		0.29 lb ai/a 0.14 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 6 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	71 b	71 cd	98 a	99 a
2	AUTHORITY MAXX MARVEL ROUNDUP POWERMAX AMS	66 WG 3 SL 4.5 SL 100 SG		0.29 lb ai/a 0.17 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 7.25 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	68 b	65 d	99 a	99 a
3	AUTHORITY MAXX FLEXSTAR ROUNDUP POWERMAX AMS	66 WG 1.88 EC 4.5 SL 100 SG		0.29 lb ai/a 0.235 lb ai/a 0.77 lb ae/a 1 % w/w		7 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	73 b	73 c	99 a	99 a
4	VALOR XLT COBRA ROUNDUP POWERMAX AMS	40.3 WG 2 EC 4.5 SL 100 SG		0.0756 lb ai/a 0.188 lb ai/a 0.77 lb ae/a 1 % w/w		3 oz/a 12 fl oz/a 22 fl oz/a 8.5 lb/100 gal		PRE 4-6"W 4-6"W 4-6"W	A C C C	92 a	90 b	99 a	99 a
5	MARVEL ROUNDUP POWERMAX AMS	3 SL 4.5 SL 100 SG		0.17 lb ai/a 0.77 lb ae/a 1 % w/w		7.25 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		98 a	99 a	99 a
6	FLEXSTAR ROUNDUP POWERMAX AMS	1.88 EC 4.5 SL 100 SG		0.235 lb ai/a 0.77 lb ae/a 1 % w/w		16 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		99 a	99 a	99 a
7	COBRA ROUNDUP POWERMAX AMS	2 EC 4.5 SL 100 SG		0.188 lb ai/a 0.77 lb ae/a 1 % w/w		12 fl oz/a 22 fl oz/a 8.5 lb/100 gal		2-4"W 2-4"W 2-4"W	B B B		98 a	99 a	98 a
8	NONTREATED									0 c	0 e	0 b	0 b
LSD (P=.05)							9.0	6.7	1.1	0.4	0.3	1.1	1.4
Standard Deviation							5.9	4.6	0.7	0.3	0.2	0.7	0.9
CV							9.66	6.17	0.84	0.3	0.2	0.85	1.07
Replicate F							1.971	2.204	4.765	0.636	1.000	0.825	0.721
Replicate Prob(F)							0.1722	0.1177	0.0110	0.5999	0.4123	0.4950	0.5508
Treatment F							144.564	206.850	9165.572	74736.826	156703.873	8990.656	5702.487
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Marvel Evaluation in Soybean.

Trial ID: 13-1-MMW40 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										ABUTH
										9-11-13
										Control
										Percent
										60 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	AUTHORITY MAXX	66	WG	0.29	lb ai/a	7	oz/a	PRE	A	98 a
	MARVEL	3	SL	0.14	lb ai/a	6	fl oz/a	4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C	
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	C	
2	AUTHORITY MAXX	66	WG	0.29	lb ai/a	7	oz/a	PRE	A	98 a
	MARVEL	3	SL	0.17	lb ai/a	7.25	fl oz/a	4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C	
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	C	
3	AUTHORITY MAXX	66	WG	0.29	lb ai/a	7	oz/a	PRE	A	99 a
	FLEXSTAR	1.88	EC	0.235	lb ai/a	16	fl oz/a	4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C	
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	C	
4	VALOR XLT	40.3	WG	0.0756	lb ai/a	3	oz/a	PRE	A	99 a
	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	4-6"W	C	
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C	
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	C	
5	MARVEL	3	SL	0.17	lb ai/a	7.25	fl oz/a	2-4"W	B	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B	
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	2-4"W	B	
6	FLEXSTAR	1.88	EC	0.235	lb ai/a	16	fl oz/a	2-4"W	B	98 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B	
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	2-4"W	B	
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	2-4"W	B	97 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B	
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	2-4"W	B	
8	NONTREATED									0 b
LSD (P=.05)										3.0
Standard Deviation										2.1
CV										2.39
Replicate F										0.955
Replicate Prob(F)										0.4322
Treatment F										1140.342
Treatment Prob(F)										0.0001

Marvel Evaluation in Soybean.

Trial ID: 13-1-MMW40 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Comments

1. Protocol: FMC (Marvel_Compare).
2. Ratings CI 15 and 30 DA-A; 5, 15, and 30 DA-B and DA-C.
WC 15, 30, and 60 DA-A; 5, 15, and 30 DA-B and DA-C.
3. Photos to show crop injury and recovery.
4. Yield.
5. Following the PRE application the first rainfall event, beginning 7 days later, was 0.59 inch over 1 day.
Following the 2-4"W application the first rainfall event, beginning 1 day later, was 0.46 inch over 1 day.
Following the 4-6"W application the first rainfall event, beginning 11 hours later, was 0.13 inch over 1 day.
6. Harvested 11-10-13, (2) 30 inch rows by 28 ft.