

Matador and Topgun Evaluation in Soybean.

Trial ID: 11-2A-MW60

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 6-6-11

Objectives: Evaluate Matador and Topgun for preemergence weed control
 in soybean.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR
 Planting Method: SEEDED Planting Date: 6-6-11
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
 Pest 2 Type: W Code: CYPES Cyperus esculentus L. nutsedge, yellow
 Pest 3 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 4 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 5 Type: W Code: AMBEL Ambrosia artemisiifolia L. ragweed, common
 Pest 6 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf
 Pest 7 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 28 FT Tillage Type: REDUCED-TILL
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2010

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

% OM: 1.6 Texture: SILT LOAM
 pH: 5.9 Soil Name: PIERRON
 CEC: 6 Fert. Level: P1:41 LB/A, K:257 LB/A

Application Description

	A	B	C
Application Date:	6-7-11	7-6-11	7-22-11
Time of Day:	11:30	8:30	7:45
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	4-6"W	4"RG
Application Placement:	BROSIO	BROFOL	BROFOL
Applied By:	MIA	LAH	LAH
Air Temperature, Unit:	94 F	82 F	86 F
% Relative Humidity:	42	78	75
Wind Velocity, Unit:	5 MPH	0 MPH	3 MPH
Wind Direction:	SW	N	SE
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	76 F		83 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	0	0	0

	7-6-11	6-7-11	22-7-11
Crop stage at application:	NA	V3	R1-R2
Height Min, Max (inch):		5 6 14	18

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	Pest Stage At Each Application					
Application Date:	6-7-11	7-6-11	7-22-11			
Weed Code:	SETFA	SETFA	SETFA			
Stage Majority (leaves):	NA	3	3			
Stage Min, Max:		2 4	2 5			
Height Majority:		6 IN	6 IN			
Height Min, Max:		1 12	1 8			
Density, Unit:		0.01 FT2	0.01 FT2			
Weed Code:	CYPES	CYPES	CYPES			
Stage Majority (leaves):	NA	8	6			
Stage Min, Max:		3 6	3 12			
Height Majority:		6 IN	6 IN			
Height Min, Max:		1 13	3 10			
Density, Unit:		0.1 FT2	0.01 FT2			
Weed Code:	AMBTR	AMBTR	AMBTR			
Stage Majority (leaves):	NA	8	6			
Stage Min, Max:		1 18	4 14			
Height Majority:		6 IN	6 IN			
Height Min, Max:		1 13	4 10			
Density, Unit:		0.5 FT2	0.01 FT2			
Weed Code:	AMATA	AMATA	AMATA			
Stage Majority (leaves):	NA	NA	4			
Stage Min, Max:			2 6			
Height Majority:			2 IN			
Height Min, Max:			1 3			
Density, Unit:			0.01 FT2			
Weed Code:	AMBEL	AMBEL	AMBEL			
Stage Majority (leaves):	NA	4	NA			
Stage Min, Max:		4 6				
Height Majority:		3 IN				
Height Min, Max:		1 3				
Density, Unit:		0.01 FT2				
Weed Code:	IPOHE	IPOHE	IPOHE			
Stage Majority (leaves):	NA	2	4			
Stage Min, Max:		1 2	2 6			
Height Majority:		2 IN	6 IN			
Height Min, Max:		1 2	1 6			
Density, Unit:		0.01 FT2	0.01 FT2			
Weed Code:	ABUTH	ABUTH	ABUTH			
Stage Majority (leaves):	NA	NA	4			
Stage Min, Max:			2 6			
Height Majority:			5 IN			
Height Min, Max:			1 7			
Density, Unit:			0.01 FT2			

Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 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	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	10-21-11	10-21-11	6-28-11	7-5-11	7-20-11	8-5-11
Rating Date	Moisture	Yield	Injury	Injury	Injury	Injury
Rating Data Type	Percent	bu/A	Percent	Percent	Percent	Percent
Rating Unit						
Rating Timing						
Trt-Eval Interval						

21 DA-A 28 DA-A 14 DA-B 14 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code											
1	MATADOR	4.7	SC	1.17	lb ai/a	2	pt/a	PRE	A	13.2	b	63	ab	0	a					
1	TOP GUN	2	SC	0.25	lb ai/a	1	pt/a	PRE	A											
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B											
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B											
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C											
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C											
2	MATADOR	4.7	SC	2.35	lb ai/a	4	pt/a	PRE	A	13.2	b	66	a	1	a					
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B											
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B											
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C											
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C											
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	13.5	b	62	ab	1	a					
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A											
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A											
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B											
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B											
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C											
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C											
4	AUTHORITY MTZ	45	WG	0.42	lb ai/a	15	oz/a	PRE	A	13.2	b	62	ab	0	a					
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B											
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B											
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C											
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C											
5	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	13.4	b	63	ab	0	a					
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B											
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B											
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C											
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C											
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	13.4	b	61	b	0	a					
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B											
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B											
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C											
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C											
7	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	13.3	b	64	ab	0	a					
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B											
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B											
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C											
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C											
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B	13.4	b	61	ab							
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B					0	a					
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C											
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C											
9	NONTREATED									14.8	a	13	c	0	a					
LSD (P=.05)										0.60		5.4		1.0		1.0		0.0		0.0
Replicate F										0.887		2.192		2.333		2.333		0.000		0.000
Replicate Prob(F)										0.4621		0.1151		0.1032		0.1032		1.0000		1.0000
Treatment F										6.156		80.944		1.000		1.000		0.000		0.000
Treatment Prob(F)										0.0002		0.0001		0.4586		0.4586		1.0000		1.0000

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

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Pest Code	SETFA	SETFA	SETFA	SETFA
Crop Code				
Rating Date	6-28-11	7-5-11	7-20-11	8-5-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing				
Trt-Eval Interval	21 DA-A	28 DA-A	14 DA-B	14 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	98 a	96 a	95 ab	99 a
1	MATADOR	4.7	SC	1.17	lb ai/a	2	pt/a	PRE	A	98 a	96 a	95 ab	99 a
1	TOP GUN	2	SC	0.25	lb ai/a	1	pt/a	PRE	A				
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
2	MATADOR	4.7	SC	2.35	lb ai/a	4	pt/a	PRE	A	98 a	97 a	96 a	99 a
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	98 a	97 a	94 ab	99 a
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A				
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A				
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
4	AUTHORITY MTZ	45	WG	0.42	lb ai/a	15	oz/a	PRE	A	95 b	88 b	96 a	99 a
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
5	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	98 a	95 a	96 a	99 a
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	97 ab	93 a	93 ab	99 a
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
7	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	90 c	81 c	95 a	99 a
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B			89 b	99 a
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
9	NONTREATED									0 d	0 d	0 c	0 b
LSD (P=.05)										2.3	4.8	5.7	0.0
Replicate F										1.030	1.255	1.334	0.000
Replicate Prob(F)										0.3995	0.3152	0.2868	1.0000
Treatment F										1945.639	419.270	262.855	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000

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

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Trial ID: 11-2A-MW60

Location: Belleville Res. Center

										CYPES	CYPES	CYPES	CYPES
										6-28-11	7-5-11	7-20-11	8-5-11
										Control	Control	Control	Control
										Percent	Percent	Percent	Percent
										21 DA-A	28 DA-A	14 DA-B	14 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	MATADOR	4.7	SC	1.17	lb ai/a	2	pt/a	PRE	A	98 a	97 ab	95 a	98 a
1	TOP GUN	2	SC	0.25	lb ai/a	1	pt/a	PRE	A				
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
2	MATADOR	4.7	SC	2.35	lb ai/a	4	pt/a	PRE	A	99 a	99 a	96 a	99 a
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	99 a	97 a	98 a
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A				
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A				
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
4	AUTHORITY MTZ	45	WG	0.42	lb ai/a	15	oz/a	PRE	A	97 b	93 bc	97 a	98 a
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
5	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	99 a	99 a	96 a	99 a
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	99 a	98 ab	96 a	99 a
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
7	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	96 b	91 c	94 a	99 a
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B			76 b	98 a
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
9	NONTREATED									0 c	0 d	0 c	0 b
LSD (P=.05)										1.3	5.3	3.5	1.1
Replicate F										1.800	1.555	2.512	2.661
Replicate Prob(F)										0.1781	0.2299	0.0827	0.0710
Treatment F										5768.915	361.334	706.298	7960.263
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

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Rating Unit	Percent	Percent	Percent	Percent
Rating Timing				
Trt-Eval Interval	21 DA-A	28 DA-A	14 DA-B	14 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	MATADOR	4.7	SC	1.17	lb ai/a	2	pt/a	PRE	A	47 b	50 b	97 a	99 a
1	TOP GUN	2	SC	0.25	lb ai/a	1	pt/a	PRE	A				
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
2	MATADOR	4.7	SC	2.35	lb ai/a	4	pt/a	PRE	A	46 b	43 b	94 a	99 ab
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	74 a	72 a	96 a	99 a
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A				
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A				
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
4	AUTHORITY MTZ	45	WG	0.42	lb ai/a	15	oz/a	PRE	A	43 b	45 b	95 a	99 ab
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
5	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	43 b	36 b	84 b	98 b
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	45 b	43 b	95 a	99 a
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
7	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	75 a	78 a	94 a	99 ab
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B		80 b		98 ab
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
9	NONTREATED									0 c	0 c	0 c	0 c
LSD (P=.05)										13.0	18.3	8.2	1.0
Replicate F										2.538	6.371	3.853	0.959
Replicate Prob(F)										0.0872	0.0033	0.0221	0.4283
Treatment F										27.696	14.616	121.986	8596.964
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Matador and Topgun Evaluation in Soybean.

Trial ID: 11-2A-MW60

Location: Belleville Res. Center

Pest Code	AMATA	AMATA	AMATA	AMATA
Crop Code				
Rating Date	6-28-11	7-5-11	7-20-11	8-5-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing				
Trt-Eval Interval	21 DA-A	28 DA-A	14 DA-B	14 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	21 DA-A	28 DA-A	14 DA-B	14 DA-C
1	MATADOR	4.7	SC	1.17	lb ai/a	2	pt/a	PRE	A	99 a	99 a	98 a	99 a
1	TOP GUN	2	SC	0.25	lb ai/a	1	pt/a	PRE	A				
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
2	MATADOR	4.7	SC	2.35	lb ai/a	4	pt/a	PRE	A	99 a	99 a	98 a	99 b
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	99 a	98 a	99 a
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A				
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A				
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
4	AUTHORITY MTZ	45	WG	0.42	lb ai/a	15	oz/a	PRE	A	99 a	99 a	98 a	99 a
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
5	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	99 a	99 a	99 a	99 a
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	99 a	99 a	99 a	99 a
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
7	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	99 a	98 b	98 a	99 a
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B			88 b	99 a
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B				
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C				
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C				
9	NONTREATED									0 b	0 c	0 c	0 c
LSD (P=.05)										0.5	1.0	3.5	0.2
Replicate F										1.000	1.000	0.209	1.000
Replicate Prob(F)										0.4123	0.4123	0.8890	0.4098
Treatment F										39148.434	10648.170	727.567	156718.016
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Matador and Topgun Evaluation in Soybean.

Trial ID: 11-2A-MW60

Location: Belleville Res. Center

Pest Code	AMBEL	AMBEL	AMBEL	AMBEL	IPOHE	ABUTH
Crop Code						
Rating Date	6-28-11	7-5-11	7-20-11	8-5-11	8-5-11	8-5-11
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	21 DA-A	28 DA-A	14 DA-B	14 DA-C	14 DA-C	14 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	21 DA-A	28 DA-A	14 DA-B	14 DA-C	14 DA-C	14 DA-C
1	MATADOR	4.7	SC	1.17	lb ai/a	2	pt/a	PRE	A	94 a	89 a	99 a	99 a	97 ab	98 a
1	TOP GUN	2	SC	0.25	lb ai/a	1	pt/a	PRE	A						
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B						
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B						
1	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C						
1	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C						
2	MATADOR	4.7	SC	2.35	lb ai/a	4	pt/a	PRE	A	95 a	88 a	99 a	99 a	97 ab	99 a
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B						
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B						
2	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C						
2	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C						
3	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a
3	VALOR SX	51	WG	0.056	lb ai/a			PRE	A						
3	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A						
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B						
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B						
3	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C						
3	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C						
4	AUTHORITY MTZ	45	WG	0.42	lb ai/a	15	oz/a	PRE	A	81 bc	76 b	99 a	99 a	99 a	99 a
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B						
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B						
4	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C						
4	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C						
5	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	75 c	68 b	99 a	99 a	94 bc	98 a
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B						
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B						
5	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C						
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C						
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	84 b	75 b	99 a	99 a	97 ab	95 b
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B						
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B						
6	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C						
6	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C						
7	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	98 a	96 a	99 a	99 a	99 a	99 a
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B						
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B						
7	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C						
7	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C						
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B			99 a	99 a	91 c	87 c
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4-6"W	B						
8	MAKAZE	3	SL	0.75	lb ae/a	32	fl oz/a	4"RG	C						
8	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	4"RG	C						
9	NONTREATED									0 d	0 c	0 b	0 b	0 d	0 d
LSD (P=.05)										9.1	11.3	0.0	0.0	3.5	2.8
Replicate F										2.822	3.426	0.000	0.000	1.216	2.138
Replicate Prob(F)										0.0637	0.0358	1.0000	1.0000	0.3253	0.1218
Treatment F										112.076	68.297	0.000	0.000	709.603	1109.372
Treatment Prob(F)										0.0001	0.0001	1.0000	1.0000	0.0001	0.0001

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

Trial Comments

1. Protocol: Loveland.
2. Ratings: CI/WC 21 and 28 DA-A (rate A twice prior to B); CI/WC 14 DA-B; CI/WC 14 DA-C.
3. Yield.
4. Photos of WC prior to B and prior to C.

Matador and Topgun Evaluation in Soybean.

Trial ID: 11-2A-MW60

Location: Belleville Res. Center

5. Application B (4-6"W) must be at least 28 DA-A and after the 28 DA-A rating.
6. Harvested 10-21-11, (2) 30 inch rows by 25 ft.