

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Murphysboro IL 62966 USA
 Trial Status: FINAL Initiation Date: 11-1-10

Objectives: Evaluate several fall applied herbicide programs for planting soybean in the spring.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR
 Planting Method: SEEDED Planting Date: 5-20-11
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: ERICA Conyza canadensis (L.) Crong. horseweed
 Pest Description: glyphosate-resistant marestail
 Pest 2 Type: W Code: LAMAM Lamium amplexicaule L. henbit
 Pest 3 Type: W Code: LAMPU Lamium purpureum L. deadnettle, purple
 Pest 4 Type: W Code: STEME Stellaria media (L.) Vill. chickweed, common
 Pest 5 Type: W Code: AMASS Amaranthus species amaranthus species
 Pest Description: Mixture of AMATA and AMARE
 Pest 6 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 30 FT Tillage Type: NO-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2010

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

% OM: 2.2 Texture: VERY FINE SANDY LOAM
 pH: 6.8 Soil Name: ALVIN
 CEC: 10 Fert. Level: P1 160 LB/A, K 120 LB/A

Application Description

A
 Application Date: 11-1-10
 Time of Day: 16:30
 Application Method: Spray
 Application Timing: FALL
 Application Placement: BROFOL
 Applied By: NVH
 Air Temperature, Unit: 62 F
 % Relative Humidity: 47
 Wind Velocity, Unit: 3 MPH
 Wind Direction: NW
 Dew Presence (Y/N): N
 Soil Temperature, Unit: 55 F
 Soil Moisture: NORMAL
 % Cloud Cover: 75

1-11-10
 Crop stage at application: NA

Pest Stage At Each Application

Application Date: 11-1-10
 Weed Code: ERICA
 Stage Majority (leaves): 15
 Stage Min, Max: 2 45
 Height Majority: 3 IN
 Height Min, Max: 1 5
 Density, Unit: 0.6 FT2
 Weed Code: LAMAM
 Stage Majority (leaves): 6
 Stage Min, Max: 2 12
 Height Majority: 2.5 IN
 Height Min, Max: 1 5
 Density, Unit: 1 FT2
 Weed Code: LAMPU
 Stage Majority (leaves): 6
 Stage Min, Max: 2 20
 Height Majority: 2 IN
 Height Min, Max: 1 6
 Density, Unit: 0.1 FT2
 Weed Code: STEME
 Stage Majority (leaves): 3
 Stage Min, Max: COTY 8
 Height Majority: 1 IN
 Height Min, Max: 0.5 4
 Density, Unit: 0.01 FT2
 Weed Code: AMASS
 Stage Majority (leaves): NA
 Weed Code: SETFA
 Stage Majority (leaves): NA

General Evaluation of Fall Applied Soybean Herbicides.

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Application Equipment

Appl. Equipment:	CO2 sprayer
Operating Pressure:	30 PSI
Nozzle Type:	Flat fan
Nozzle Size:	XR 8002
Boom Length, Unit:	6.67 FT
Spray Volume, Unit:	15 GPA

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	ERICA-HR								
							GLXMA 6-5-11 Injury Percent 16 DAP 216 DA-A	ERICA-HR 11-29-10 Control Percent 28 DA-A	ERICA-HR 3-15-11 Control Percent Greenup 134 DA-A	ERICA-HR 4-15-11 Control Percent 165 DA-A	ERICA-HR 5-15-11 Control Percent 0 DA-PP 195 DA-A	ERICA-HR 6-5-11 Control Percent 16 DAP 216 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									0 a	0 g	0 d	0 e	0 f	0 e
2	AUTUMN	10	WG	0.00188	lb ai/a	0.3	oz/a	FALL	A	0 a	60 f	93 abc	82 bcd	58 de	59 cd
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A						
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A						
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A						
3	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	0 a	62 f	96 ab	95 a	83 abc	65 bcd
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
3	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A						
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A						
4	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	0 a	78 cde	95 ab	88 abc	73 bcd	66 bcd
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A						
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A						
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A						
5	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	0 a	70 def	89 c	75 d	58 de	57 d
5	SENCOR	75	WG	0.28	lb ai/a	6	oz/a	FALL	A						
5	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A						
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A						
6	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	0 a	65 ef	99 a	98 a	96 ab	91 a
6	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A						
6	EXPRESS	50	SG	.007844	lb ai/a			FALL	A						
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A						
7	VALOR XLT	40.3	WG			5.0	oz/a	FALL	A	0 a	89 abc	99 a	99 a	99 a	96 a
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A						
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A						
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
7	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A						
7	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A						
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	FALL	A	0 a	97 a	91 bc	78 cd	48 e	52 d
8	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A						
8	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	FALL	A						
8	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A						
9	SHARPEN	2.85	SC	0.0445	lb ai/a	2	fl oz/a	FALL	A	0 a	97 ab	98 a	92 ab	77 a-d	63 bcd
9	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A						
9	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	FALL	A						
9	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A						
10	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A	0 a	65 ef	95 abc	80 cd	60 cde	57 d
10	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A						
11	AUTHORITY XL	70	WG	0.14	lb ai/a	3.2	oz/a	FALL	A	0 a	98 a	99 a	99 a	96 ab	82 abc
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
11	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A						
11	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A						
12	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	0 a	89 abc	99 a	99 a	98 a	85 ab
12	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
12	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A						
12	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A						
13	VALOR XLT	40.3	WG			3	oz/a	FALL	A	0 a	82 bcd	98 a	97 a	96 ab	97 a
13	VALOR SX	51	WG	0.056	lb ai/a			FALL	A						
13	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A						
13	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
13	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A						
13	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A						
14	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	0 a	88 abc	99 a	98 a	97 a	97 a
14	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A						
14	EXPRESS	50	SG	.007844	lb ai/a			FALL	A						
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
14	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A						
14	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A						

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Pest Code	ERICA-HR									
Crop Code	GLXMA	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR				
Rating Date	6-5-11	11-29-10	3-15-11	4-15-11	5-15-11	6-5-11				
Rating Data Type	Injury	Control	Control	Control	Control	Control				
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent				
Rating Timing	16 DAP		Greenup		0 DA-PP	16 DAP				
Trt-Eval Interval	216 DA-A	28 DA-A	134 DA-A	165 DA-A	195 DA-A	216 DA-A				
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
LSD (P=.05)					0.0	15.2	6.3	11.6	23.9	22.8
Replicate F					0.000	0.098	2.675	2.924	1.909	4.083
Replicate Prob(F)					1.0000	0.9066	0.0878	0.0715	0.1684	0.0287
Treatment F					0.000	23.619	141.960	41.346	11.524	10.900
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

						LAMAM	LAMAM	LAMAM	LAMAM				
Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	11-29-10 Control Percent	3-15-11 Control Percent Greenup	4-15-11 Control Percent	5-15-11 Control Percent 0 DA-PP 195 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 f	0 d	0 e	0 c
2	AUTUMN	10	WG	0.00188	lb ai/a	0.3	oz/a	FALL	A	95 ab	94 bc	92 cd	94 b
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A				
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A				
3	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	90 abc	98 ab	98 a	98 ab
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
3	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A				
4	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	87 cd	98 a	97 ab	99 a
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A				
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A				
5	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	91 abc	98 ab	98 a	99 a
5	SENCOR	75	WG	0.28	lb ai/a	6	oz/a	FALL	A				
5	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A				
6	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	88 cd	99 a	99 a	99 a
6	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A				
6	EXPRESS	50	SG	.007844	lb ai/a			FALL	A				
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
7	VALOR XLT	40.3	WG			5.0	oz/a	FALL	A	96 ab	99 a	99 a	99 a
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A				
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A				
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
7	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
7	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	FALL	A	82 de	92 c	89 d	99 a
8	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
8	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	FALL	A				
8	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
9	SHARPEN	2.85	SC	0.0445	lb ai/a	2	fl oz/a	FALL	A	89 bc	96 abc	92 cd	99 a
9	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
9	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	FALL	A				
9	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
10	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A	77 e	96 ab	93 bc	99 a
10	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
11	AUTHORITY XL	70	WG	0.14	lb ai/a	3.2	oz/a	FALL	A	97 a	99 a	99 a	99 a
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
11	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
11	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
12	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	92 abc	99 a	99 a	99 a
12	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
12	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
12	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
13	VALOR XLT	40.3	WG			3	oz/a	FALL	A	93 abc	99 a	99 a	99 a
13	VALOR SX	51	WG	0.056	lb ai/a			FALL	A				
13	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A				
13	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
13	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
13	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
14	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	90 abc	99 a	99 a	99 a
14	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A				
14	EXPRESS	50	SG	.007844	lb ai/a			FALL	A				
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
14	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
14	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				

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Pest Code	LAMAM	LAMAM	LAMAM	LAMAM
Crop Code				
Rating Date	11-29-10	3-15-11	4-15-11	5-15-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing		Greenup		0 DA-PP
Trt-Eval Interval	28 DA-A	134 DA-A	165 DA-A	195 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
	Replicate F								
	Replicate Prob(F)								
	Treatment F								
	Treatment Prob(F)								

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

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

Pest Code										LAMPU	LAMPU	LAMPU	LAMPU
Crop Code													
Rating Date										11-29-10	3-15-11	4-15-11	5-15-11
Rating Data Type										Control	Control	Control	Control
Rating Unit										Percent	Percent	Percent	Percent
Rating Timing										Greenup			0 DA-PP
Trt-Eval Interval										28 DA-A	134 DA-A	165 DA-A	195 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 d	0 d	0 d	0 c
2	AUTUMN	10	WG	0.00188	lb ai/a	0.3	oz/a	FALL	A	94 a	94 bc	94 b	94 b
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A				
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A				
3	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	87 abc	98 a	98 a	98 ab
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
3	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A				
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5	SENCOR	75	WG	0.28	lb ai/a	6	oz/a	FALL	A				
5	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
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6	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	75 c	97 ab	97 ab	99 a
6	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A				
6	EXPRESS	50	SG	.007844	lb ai/a			FALL	A				
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A				
7	VALOR XLT	40.3	WG			5.0	oz/a	FALL	A	90 ab	99 a	98 a	99 a
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A				
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A				
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7	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
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11	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
11	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
12	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	87 abc	99 a	99 a	99 a
12	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
12	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
12	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
13	VALOR XLT	40.3	WG			3	oz/a	FALL	A	85 abc	99 a	99 a	99 a
13	VALOR SX	51	WG	0.056	lb ai/a			FALL	A				
13	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A				
13	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
13	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
13	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				
14	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	78 bc	99 a	99 a	99 a
14	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A				
14	EXPRESS	50	SG	.007844	lb ai/a			FALL	A				
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
14	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A				
14	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A				

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

Pest Code	LAMPU	LAMPU	LAMPU	LAMPU
Crop Code				
Rating Date	11-29-10	3-15-11	4-15-11	5-15-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing		Greenup		0 DA-PP
Trt-Eval Interval	28 DA-A	134 DA-A	165 DA-A	195 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
	Replicate F								
	Replicate Prob(F)								
	Treatment F								
	Treatment Prob(F)								

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

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

Pest Code									STEME	STEME	STEME	STEME	AMASS	AMASS
Crop Code									11-29-10	3-15-11	4-15-11	5-15-11	5-15-11	6-5-11
Rating Date									Control	Control	Control	Control	Control	Control
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit									Greenup	Greenup	Greenup	Greenup	Greenup	Greenup
Rating Timing									0 DA-PP	0 DA-PP	0 DA-PP	0 DA-PP	0 DA-PP	16 DAP
Trt-Eval Interval									28 DA-A	134 DA-A	165 DA-A	195 DA-A	195 DA-A	216 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 g	0 d	0 d	0 b	0 e 0 d
2	AUTUMN	10	WG	0.00188	lb ai/a	0.3	oz/a	FALL	A	93 cde	96 bc	94 ab	99 a	22 cde 60 a
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A					
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A					
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A					
3	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	73 f	97 ab	95 ab	99 a	10 de 37 ab
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
3	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A					
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A					
4	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	92 de	98 ab	93 ab	99 a	30 bcd 62 a
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A					
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A					
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A					
5	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	93 b-e	98 ab	96 ab	99 a	37 abc 60 a
5	SENCOR	75	WG	0.28	lb ai/a	6	oz/a	FALL	A					
5	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A					
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A					
6	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	90 e	98 a	98 a	99 a	10 de 0 d
6	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A					
6	EXPRESS	50	SG	.007844	lb ai/a			FALL	A					
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A					
7	VALOR XLT	40.3	WG			5.0	oz/a	FALL	A	98 a	99 a	99 a	99 a	57 a 22 bcd
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A					
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A					
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
7	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A					
7	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A					
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	FALL	A	93 de	94 c	83 c	99 a	17 cde 7 cd
8	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A					
8	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	FALL	A					
8	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A					
9	SHARPEN	2.85	SC	0.0445	lb ai/a	2	fl oz/a	FALL	A	93 de	97 ab	91 b	99 a	48 ab 27 bc
9	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A					
9	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	FALL	A					
9	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A					
10	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A	90 e	98 ab	94 ab	99 a	18 cde 20 bcd
10	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A					
11	AUTHORITY XL	70	WG	0.14	lb ai/a	3.2	oz/a	FALL	A	98 abc	99 a	99 a	99 a	18 cde 7 cd
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
11	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A					
11	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A					
12	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	98 abc	99 a	99 a	99 a	18 cde 0 d
12	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
12	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A					
12	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A					
13	VALOR XLT	40.3	WG			3	oz/a	FALL	A	98 ab	98 a	99 a	99 a	22 cde 7 cd
13	VALOR SX	51	WG	0.056	lb ai/a			FALL	A					
13	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A					
13	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
13	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A					
13	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A					
14	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	95 a-d	99 a	99 a	99 a	22 cde 7 cd
14	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A					
14	EXPRESS	50	SG	.007844	lb ai/a			FALL	A					
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
14	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A					
14	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A					

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

Pest Code					STEME	STEME	STEME	STEME	AMASS	AMASS
Crop Code										
Rating Date					11-29-10	3-15-11	4-15-11	5-15-11	5-15-11	6-5-11
Rating Data Type					Control	Control	Control	Control	Control	Control
Rating Unit					Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						Greenup		0 DA-PP	0 DA-PP	16 DAP
Trt-Eval Interval					28 DA-A	134 DA-A	165 DA-A	195 DA-A	195 DA-A	216 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
	Replicate F								
	Replicate Prob(F)								
	Treatment F								
	Treatment Prob(F)								

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

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

Pest Code	SETFA	SETFA
Crop Code		
Rating Date	5-15-11	6-5-11
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Timing	0 DA-PP	16 DAP
Trt-Eval Interval	195 DA-A	216 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED									0 d	0 f
2	AUTUMN	10	WG	0.00188	lb ai/a	0.3	oz/a	FALL	A	20 bcd	60 ab
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A		
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A		
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A		
3	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	30 bcd	50 a-d
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A		
3	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A		
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A		
4	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	38 abc	65 a
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A		
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A		
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A		
5	IMS+TCM	51	WG	0.016	lb ai/a	0.5	oz/a	FALL	A	37 abc	57 abc
5	SENCOR	75	WG	0.28	lb ai/a	6	oz/a	FALL	A		
5	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A		
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A		
6	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	30 bcd	37 d
6	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A		
6	EXPRESS	50	SG	.007844	lb ai/a			FALL	A		
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A		
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	FALL	A		
7	VALOR XLT	40.3	WG			5.0	oz/a	FALL	A	72 a	40 cd
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A		
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A		
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A		
7	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A		
7	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A		
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	FALL	A	13 cd	10 f
8	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A		
8	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	FALL	A		
8	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A		
9	SHARPEN	2.85	SC	0.0445	lb ai/a	2	fl oz/a	FALL	A	7 cd	17 ef
9	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A		
9	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	FALL	A		
9	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A		
10	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A	13 cd	33 de
10	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A		
11	AUTHORITY XL	70	WG	0.14	lb ai/a	3.2	oz/a	FALL	A	15 cd	0 f
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A		
11	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A		
11	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A		
12	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	30 bcd	42 bcd
12	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A		
12	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A		
12	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A		
13	VALOR XLT	40.3	WG			3	oz/a	FALL	A	20 bcd	13 f
13	VALOR SX	51	WG	0.056	lb ai/a			FALL	A		
13	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A		
13	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A		
13	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A		
13	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A		
14	CANOPY EX	29.5	WG			1.85	oz/a	FALL	A	53 ab	57 abc
14	CLASSIC	25	WG	0.02626	lb ai/a			FALL	A		
14	EXPRESS	50	SG	.007844	lb ai/a			FALL	A		
14	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A		
14	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	FALL	A		
14	AMS	100	SG	2.5	lb/a	17	lb/100 gal	FALL	A		

General Evaluation of Fall Applied Soybean Herbicides.

Trial ID: 11-YRC-GenFallSoy Location: Young Res. Center

Pest Code		SETFA	SETFA
Crop Code			
Rating Date		5-15-11	6-5-11
Rating Data Type		Control	Control
Rating Unit		Percent	Percent
Rating Timing		0 DA-PP	16 DAP
Trt-Eval Interval		195 DA-A	216 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
	Replicate F								
	Replicate Prob(F)								
	Treatment F								
	Treatment Prob(F)								

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

Trial Comments

1. Protocol: Bayer (DLU); Valent; BASF; FMC; DuPont.
2. Ratings: WC at 28 DA-A, Spring greenup (March 15), April 15, and May 15.
3. Target planting for May 15, planting was delayed until 5/20/11 due to wet soil conditions.
4. CI/WC at 21 DAP.
5. Blanket application of Roundup PowerMax (44 fl oz/A) to be applied at 28 DAP to entire area.
Blanket application and final ratings were made on 6/5/11 at 16 DAP due to delayed planting.
6. ERICA-HR = Herbicide-resistant marestail (glyphosate).
AMASS = Amaranth species including AMATA (common waterhemp) and AMARE (redroot pigweed).
0 DA-PP = at planned planting.
By 6-5-11 STEME was senescing naturally in the nontreated plots and could no longer be evaluated.
7. Not harvested.