

Northeast Research & Extension Center

2008 IGNITE Liberty Link No Till Soybean Efficacy and Yield Weed Control Programs at Universities. (Not for sale or use - see note)
 Trial ID: 27 08 BAY MRC LL SB NT Protocol ID: 08 BAY MRC LL SB NTtil
 Location: Concord, NE Study Director: Stevan Knezevic
 Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

City: Concord
State/Prov.: NE
Postal Code: 68728
Country: USA

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory Country: USA
 Organization: University of Nebraska Phone No: 402-584-2261
 Address 1: 57905 866 RD Fax No: 402-584-3859
 City: Concord
 State/Prov: NE
 Postal Code: 68728

Crop Description

Crop 1: GLXMA Glycine max Soybean
 BBCH Scale: BSOY Planting Date: 06-10-08
 Planting Method: seeded Rate, Unit: 160000 s/a
 Depth, Unit: 1 in
 Row Spacing, Unit: 15 in

Pest Description

Pest 1 Type: W Code: SETVI *Setaria viridis* (L.) P.Beauv.
 Common Name: Foxtail, green
 Pest 2 Type: W Code: ABUTH *Abutilon theophrasti* Medik.
 Common Name: Velvetleaf
 Pest 3 Type: W Code: AMATU *Amaranthus tuberculatos* (Moq.) J
 Common Name: Waterhemp, tall

Site and Design

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

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	06-01-08	glyphosate	5.4	lbai/ga	SL	44	oz/A	n

Soil Description

% Sand: 16 % OM: 2.7 Texture: SILT LOAM
 % Silt: 58 pH: 6.1
 % Clay: 26 CEC: 18.8 Fert. Level: EXCELLENT
 Analyzed By:
 Midwest Labs

Application Description

	A	B	C
Application Date:	06-11-08	07-02-08	07-30-08
Time of Day:	8:00 am	7:30 am	2:30 pm
Application Method:	spray	spray	spray
Application Timing:	PRE	EPOST	LPOST
Application Placement:	surface	foliar	foliar
Applied By:	js rr	js rr	js ff
Air Temperature, Unit:	73 F	71 F	88 F
% Relative Humidity:	95	74	70
Wind Velocity, Unit:	7 mph	2 mph	5 mph
Wind Direction:	S	S	SE
Dew Presence (Y/N):		Y	n
Soil Temperature, Unit:	62 F		82 F
Soil Moisture:		ADEQUATE	DRY
% Cloud Cover:	100	50	5

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		2T	R2 V10
Height, Unit:		6 in	15 in
Height Minimum, Maximum:			12 18

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W
Height, Unit:		3.5 in	
Height Minimum, Maximum:		3 4	
Density, Unit:		2 m2	0 m2
Pest 2 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W
Height, Unit:		3 in	
Density, Unit:		1 m2	0 m2
Pest 3 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W
Stage Minimum, Percent:			regrow
Height, Unit:		1.5 in	6 in
Height Minimum, Maximum:		1 2	3 9
Density, Unit:		1 m2	1 m2

Application Equipment

	A	B	C
Appl. Equipment:	backpack	BACKPACK	BACKPACK
Operating Pressure, Unit:	20 psi	40 PSI	40 PSI
Nozzle Type:	Turbo Tee	TURBO TEE	TURBO TEE
Nozzle Size:	11003	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	12 IN	12 IN	12 IN
Ground Speed, Unit:	2.7 MPH	2.7 MPH	2.7 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA
Mix Size, Unit:	1.8 Liters	1.8 Liters	1.8 Liters
Propellant:	co2	co2	co2

Date 06-12-08 By J Allen Notes This product is not approved or available for sale or use, and Bayer CropScience LP does not promote or authorize promotion of sale or use.

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 Location: Concord, NE Study Director: Stevan Knezevic
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Description	Soybean	Soybean	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp			
Rating Date	07-28-08	08-25-08	07-28-08	07-28-08	08-25-08	07-28-08	07-28-08	08-25-08	07-28-08	07-28-08			
Rating Data Type	Injury	Injury	Control	Density	Control	Control	Density	Control	Control	Density			
Rating Unit	Percent	Percent	Percent	m2 RunCH	Percent	Percent	m2 RunCH	Percent	Percent	m2 RunCH			
Days After First/Last Applic.	47 26	75 26	47 26	47 26	75 26	47 26	47 26	75 26	47 26	47 26			
Plant-Eval Interval	48 DP-1	76 DP-1	48 DP-1	48 DP-1	76 DP-1	48 DP-1	48 DP-1	76 DP-1	48 DP-1	48 DP-1			
Trt No.	Treatment	Rate	Growth										
	Name	Rate Unit	Stage										
1	Nontreated			0.0 a	0.0 a	0.0 b	4.7 a	0.0 b	0.0 b	1.7 a	0.0 b	0.0 b	5.7 a
2	Valor	2 oz/a	PRE	0.0 a	0.0 a	99.0 a	2.0 a	99.0 a	99.0 a	1.0 a	99.0 a	83.3 a	5.0 a
	Ignite 280	22 oz/a	EPOST 22										
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22										
	Ignite 280	22 oz/a	MPOST 44										
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44										
3	Valor XLT			0.0 a	0.0 a	99.0 a	2.0 a	99.0 a	99.0 a	1.3 a	99.0 a	88.3 a	8.3 a
	Valor	1.75 oz/a	PRE										
	chlorimuron	1.25 oz/a	PRE										
	Ignite 280	22 oz/a	EPOST 22										
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22										
	Ignite 280	22 oz/a	MPOST 44										
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44										
4	Gangster FR	0.3 oz/a	PRE	0.0 a	0.0 a	99.0 a	2.0 a	99.0 a	99.0 a	1.3 a	99.0 a	90.0 a	5.0 a
	Gangster V	1.5 oz/a	PRE										
	IGNITE 280	22 oz/a	EPOST 22										
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22										
	IGNITE 280	22 oz/a	MPOST 44										
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44										
5	Valor	2 oz/a	PRE	0.0 a	0.0 a	99.0 a	1.7 a	99.0 a	99.0 a	0.7 a	99.0 a	90.0 a	6.7 a
	Sencor	4.6 oz/a	PRE										
	IGNITE 280	22 oz/a	EPOST 22										
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22										
	IGNITE 280	22 oz/a	MPOST 44										
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44										
6	Authority Assist	5 oz/a	PRE	0.0 a	0.0 a	99.0 a	2.0 a	99.0 a	99.0 a	1.7 a	99.0 a	90.0 a	6.0 a
	Ignite 280	22 oz/a	EPOST 22										
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22										
	Ignite 280	22 oz/a	MPOST 44										
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44										
7	Ignite 280	22 oz/a	EPOST 22	0.0 a	0.0 a	99.0 a	2.0 a	99.0 a	99.0 a	0.7 a	99.0 a	83.3 a	6.7 a
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22										
	Ignite 280	22 oz/a	MPOST 44										
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44										
LSD (P=.05)				0.00	0.00	0.00	3.10	0.00	0.00	1.01	0.00	7.89	5.27
Standard Deviation				0.00	0.00	0.00	1.74	0.00	0.00	0.57	0.00	4.43	2.96
CV				0.0	0.0	0.0	74.62	0.0	0.0	47.92	0.0	5.91	47.82
Grand Mean				0.0	0.0	84.86	2.33	84.86	84.86	1.19	84.86	75.0	6.19
Replicate F				0.000	0.000	0.000	1.147	0.000	0.000	0.146	0.000	6.727	0.201
Replicate Prob(F)				1.0000	1.0000	1.0000	0.3502	1.0000	1.0000	0.8654	1.0000	0.0110	0.8205
Treatment F				0.000	0.000	0.000	1.063	0.000	0.000	1.659	0.000	168.424	0.467
Treatment Prob(F)				1.0000	1.0000	1.0000	0.4350	1.0000	1.0000	0.2145	1.0000	0.0001	0.8197

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.

Description			Waterhemp
Rating Date			08-25-08
Rating Data Type			Control
Rating Unit			Percent
Days After First/Last Applic.			75 26
Plant-Eval Interval			76 DP-1
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage
1	Nontreated		0.0 b
2	Valor	2 oz/a	PRE
	Ignite 280	22 oz/a	EPOST 22
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22
	Ignite 280	22 oz/a	MPOST 44
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44
3	Valor XLT		99.0 a
	Valor	1.75 oz/a	PRE
	chlorimuron	1.25 oz/a	PRE
	Ignite 280	22 oz/a	EPOST 22
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22
	Ignite 280	22 oz/a	MPOST 44
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44
4	Gangster FR	0.3 oz/a	PRE
	Gangster V	1.5 oz/a	PRE
	IGNITE 280	22 oz/a	EPOST 22
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22
	IGNITE 280	22 oz/a	MPOST 44
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44
5	Valor	2 oz/a	PRE
	Sencor	4.6 oz/a	PRE
	IGNITE 280	22 oz/a	EPOST 22
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22
	IGNITE 280	22 oz/a	MPOST 44
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44
6	Authority Assist	5 oz/a	PRE
	Ignite 280	22 oz/a	EPOST 22
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22
	Ignite 280	22 oz/a	MPOST 44
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44
7	Ignite 280	22 oz/a	EPOST 22
	Ammonium Sulfate	8.5 lb/100 gal	EPOST 22
	Ignite 280	22 oz/a	MPOST 44
	Ammonium Sulfate	8.5 lb/100 gal	MPOST 44
LSD (P=.05)			0.00
Standard Deviation			0.00
CV			0.0
Grand Mean			84.86
Replicate F			0.000
Replicate Prob(F)			1.0000
Treatment F			0.000
Treatment Prob(F)			1.0000

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

<u>Additional Treatment Information</u>
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)[O
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]