

Northeast Research & Extension Center

2008 IGNITE Liberty Link Conventional Soybean Efficacy and Yield Weed Control Programs at Universities. (Not for sale or use - see note)  
 Trial ID: 28 08 BAY MRC LLSBConv Protocol ID: 08 BAY MRC LL SB Till  
 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: 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: CONVENTIONAL-TILL  
 Replications: 3 Study Design: Randomized Complete Block

Soil Description

% Sand: 14 % OM: 4.4 Texture: SILTY CLAY LOAM  
 % Silt: 54 pH: 6.4  
 % Clay: 32 CEC: 24.2 Fert. Level: FAIR  
 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:	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 By Notes  
06-12-08 J Allen 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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Description	Soybean	Soybean	Green foxtail	Green foxtail	Green foxtail	Waterhemp	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			
Rating Data Type	Injury	Injury	Control	Density	Control	Control	Density	Control			
Rating Unit	Percent	Percent	Percent	m2 RunCH	Percent	Percent	m2 RunCH	Percent			
Days After First/Last Applic.	47 26	75 26	47 26	47 26	75 26	47 26	47 26	75 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			
Trt No.	Treatment Name	Rate	Growth Stage								
Rate Unit											
1	Nontreated			0.0 a	0.0 a	0.0 b	11.7 a	0.0 b	0.0 b	1.0 a	0.0 b
2	Valor	2 oz/a	PRE	0.0 a	0.0 a	99.0 a	11.7 a	99.0 a	99.0 a	1.0 a	99.0 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			1.7 a	0.0 a	99.0 a	10.0 a	99.0 a	99.0 a	1.3 a	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	0.0 a	0.0 a	99.0 a	8.3 a	99.0 a	99.0 a	1.0 a	99.0 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	10.0 a	99.0 a	99.0 a	1.0 a	99.0 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	10.0 a	99.0 a	99.0 a	1.0 a	99.0 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	11.7 a	99.0 a	99.0 a	1.0 a	99.0 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)		1.94	0.00	0.00	4.55	0.00	0.00	0.39	0.00		0.00
Standard Deviation		1.09	0.00	0.00	2.56	0.00	0.00	0.22	0.00		0.00
CV		458.26	0.0	0.0	24.43	0.0	0.0	20.83	0.0		0.0
Grand Mean		0.24	0.0	84.86	10.48	84.86	84.86	1.05	84.86		84.86
Replicate F		1.000	0.000	0.000	6.727	0.000	0.000	1.000	0.000		0.000
Replicate Prob(F)		0.3966	1.0000	1.0000	0.0110	1.0000	1.0000	0.3966	1.0000		1.0000
Treatment F		1.000	0.000	0.000	0.727	0.000	0.000	1.000	0.000		0.000
Treatment Prob(F)		0.4682	1.0000	1.0000	0.6366	1.0000	1.0000	0.4682	1.0000		1.0000

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.

Additional Treatment Information  
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)]