

2008 Soybean Herbicide Programs Study 1

Trial ID: 29 08 SB Herb Study1 Protocol ID: 08 Soybean Herb Study1
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
Variety: Asgrow DKB 27-52
BBCH Scale: BSOY Planting Date: 06-10-08
Planting Method: seeded Rate, Unit: 196000 s/a
Depth, Unit: 1 in
Row Spacing, Unit: 30 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: CONVENTIONAL-TILL
Replications: 3 Study Design: Randomized Complete Block

Field Prep./Maintenance:

Fall 2007 V-rip, Spring disc, Field cultivate 5-6-08, Field cultivate 6-10-08

Soil Description

Description Name: 08SBHF23
% Sand: 14 % OM: 4.4 Texture: SILTY CLAY LOAM
% Silt: 54 pH: 6.4
% Clay: 32 CEC: 24.2 Fert. Level: FAIR

Application Description

Table with 5 columns (Application Date, Time of Day, Application Method, Application Timing, Application Placement, Applied By, Air Temperature, % Relative Humidity, Wind Velocity, Wind Direction, Dew Presence, Soil Temperature, Soil Moisture, % Cloud Cover) and 4 rows (A, B, C, D).

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH	BBCH	BBCH
Stage Majority, Percent:		2T 50	3T	R2
Stage Minimum, Percent:		1T 50		v6
Stage Maximum, Percent:				v10
Height, Unit:		4 in	10 in	18 in

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W	SETVI W
Stage Majority, Percent:				regrow
Height, Unit:		2 in	4 in	6 in
Density, Unit:		5 m2	5 m2	5 m2
Pest 2 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:				regrow
Height, Unit:		2 in	4 in	6 in
Density, Unit:		5 m2	5 m2	5 m2
Pest 3 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W	AMATU W
Stage Majority, Percent:				regrow
Height, Unit:		2 in	4 in	6 in
Density, Unit:		5 m2	5 m2	5 m2

Application Equipment

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

Northeast Research & Extension Center

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Description	Green foxtial	Green foxtial	Green foxtial	Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp					
Rating Date	07-14-08	07-30-08	08-25-08	07-14-08	07-30-08	08-25-08	07-14-08	07-30-08	08-25-08					
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control	Control					
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
Days After First/Last Applic.	34 3	50 0	76 26	34 3	50 0	76 26	34 3	50 0	76 26					
Plant-Eval Interval	34 DP-1	50 DP-1	76 DP-1	34 DP-1	50 DP-1	76 DP-1	34 DP-1	50 DP-1	76 DP-1					
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage									
1	Sonic	3 oz/a			PRE	10.0 d	99.0 a	99.0 a	10.0 d	99.0 a	96.7 a	15.0 d	97.7 a	99.0 a
	Durango DMA	24 oz/a			POST									
	AMS	2 % w/w			POST									
2	Sonic	4.5 oz/a			PRE	18.3 bcd	99.0 a	99.0 a	20.0 cd	97.7 a	95.3 a	25.0 cd	99.0 a	99.0 a
	Durango DMA	24 oz/a			POST									
	AMS	2 % w/w			POST									
3	Firstrate	0.3 oz/a			EPOST	97.7 a	86.7 b	99.0 a	99.0 a	99.0 a	97.7 a	99.0 a	99.0 a	99.0 a
	Durango DMA	24 oz/a			EPOST									
	AMS	2 % w/w			EPOST									
	Durango DMA	24 oz/a			LPOST									
	AMS	2 % w/w			LPOST									
4	Prefix	2.03 pt/a	1500 g a/ha		PRE	36.7 b	99.0 a	99.0 a	31.7 bc	99.0 a	98.3 a	56.7 b	99.0 a	99.0 a
	Touchdown Total	24 oz/a	880 g a/ha		POST									
	AMS	2 % w/w			POST									
5	Boundary	1.5 pt/a	1360 g a/ha		PRE	20.0 bcd	99.0 a	99.0 a	13.3 d	96.0 a	95.7 a	15.0 d	97.0 a	99.0 a
	Touchdown Total	24 oz/a	880 g a/ha		POST									
	AMS	2 % w/w			POST									
6	Touchdown Total	24 oz/a	880 g a/ha		EPOST	93.0 a	81.7 b	99.0 a	93.3 a	96.0 a	94.0 a	99.0 a	99.0 a	99.0 a
	AMS	2 % w/w			EPOST									
	Touchdown Total	24 oz/a	880 g a/ha		LPOST									
	AMS	2 % w/w			LPOST									
7	Valor	2 oz/a			PRE	13.3 cd	99.0 a	99.0 a	10.0 d	99.0 a	99.0 a	10.0 d	97.0 a	99.0 a
	Touchdown Total	24 oz/a	880 g a/ha		POST									
	AMS	17 lb/100 gal			POST									
8	Gangster V	2 oz/a			PRE	31.7 bc	99.0 a	99.0 a	35.0 b	99.0 a	97.7 a	35.0 c	99.0 a	99.0 a
	Gangster FR	0.4 oz/a			PRE									
	Touchdown Total	24 oz/a	880 g a/ha		POST									
	AMS	17 lb/100 gal			POST									
LSD (P=.05)		19.41	5.85	0.00		13.93	4.86	6.28	16.94	2.73	0.00			
Standard Deviation		11.08	3.34	0.00		7.95	2.77	3.58	9.42	1.52	0.00			
CV		27.65	3.51	0.0		20.37	2.83	3.7	21.26	1.54	0.0			
Grand Mean		40.08	95.29	99.0		39.04	98.08	96.79	44.33	98.33	99.0			
Replicate F		0.045	1.213	0.000		2.882	0.721	1.015	1.067	0.289	0.000			
Replicate Prob(F)		0.9560	0.3266	1.0000		0.0895	0.5034	0.3876	0.3771	0.7542	1.0000			
Treatment F		30.329	13.154	0.000		63.181	0.728	0.667	45.786	1.158	0.000			
Treatment Prob(F)		0.0001	0.0001	1.0000		0.0001	0.6518	0.6970	0.0001	0.3971	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
 % W/W = Percent, Weight Product per Weight Mix Basis (Metric=same)O
 PT/A = Pints Product per Acre (Metric=L/HA)P
 % W/V = Percent, Weight Product per Volume Mix Basis (Metric=same)I
 LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)J
Other Rate Unit
 G A/HA = Grams Active Ingredient per Hectare