

Northeast Research & Extension Center

2008 Soybean Herbicide Programs Study 3 Cadet and Resource treatments

Trial ID: 31 08 SB Herb Study3 Protocol ID: 08 Soybean Herb Study3
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

Objectives:

To determine soybean crop tolerance. This trial had very light weed pressure.

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

Soil Description

% Sand: 14 % OM: 4.4 Texture: SILTY CLAY LOAM
% Silt: 54 pH: 6.1
% Clay: 32 CEC: 24.2 Fert. Level: FAIR
Analyzed By:
Midwest Labs

Application Description

Table with 4 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 3 sub-columns (A, B, C).

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W
Pest 2 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W
Pest 3 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W

Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure, Unit:	40 PSI	40 PSI	40 PSI
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	11002	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

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Description	Soybean	Soybean	Soybean	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf			
Rating Date	07-18-08	07-30-08	08-25-08	07-14-08	07-18-08	07-30-08	08-25-08			
Rating Data Type	Injury	Injury	Injury	Density	Control	Control	Control			
Rating Unit	Percent	Percent	Percent	#/m2	Percent	Percent	Percent			
Days After First/Last Applic.	16 3	28 0	54 26	12 12	16 3	28 0	54 26			
Trt-Eval Interval	3 DA-B	15 DA-B	41 DA-B	-1 DA-B	3 DA-B	15 DA-B	41 DA-B			
Plant-Eval Interval	38 DP-1	50 DP-1	76 DP-1	34 DP-1	38 DP-1	50 DP-1	76 DP-1			
Trt No.	Treatment Name	Rate	Unit	Growth Stage						
1	Cadet	0.4 oz/a	POST	2.3 d	0.0 a	0.0 a	1.0 a	63.5 b	50.0 b	65.0 a
	COC	1 % v/v	POST							
	Arrow	8 oz/a	POST							
	Ammonium Sulfate	17 lb/100 gal	POST							
2	Cadet	0.6 oz/a	POST	5.3 c	0.0 a	0.0 a	0.3 a	90.0 a	95.0 a	95.0 a
	COC	1 % v/v	POST							
	Arrow	8 oz/a	POST							
	Ammonium Sulfate	17 lb/100 gal	POST							
3	Resource	4 oz/a	POST	16.7 a	0.0 a	0.0 a	1.0 a	90.0 a	80.0 a	79.3 a
	COC	1 % v/v	POST							
	Arrow	8 oz/a	POST							
	Ammonium Sulfate	17 lb/100 gal	POST							
4	Cadet	0.2 oz/a	POST	0.0 d	0.0 a	0.0 a	1.0 a	64.0 b	91.7 a	80.0 a
	Credit	24 oz/a	POST							
	Ammonium Sulfate	17 lb/100 gal	POST							
5	Cadet	0.4 oz/a	POST	0.7 d	0.0 a	0.0 a	0.3 a	67.5 b	99.0 a	95.0 a
	Credit	24 oz/a	POST							
	Ammonium Sulfate	17 lb/100 gal	POST							
6	Resource	3 oz/a	POST	9.0 b	0.0 a	0.0 a	0.7 a	86.7 a	99.0 a	99.0 a
	Credit	24 oz/a	POST							
	Ammonium Sulfate	17 lb/100 gal	POST							
7	Credit	24 oz/a	POST	0.0 d	0.0 a	0.0 a	0.7 a	15.0 c	99.0 a	97.0 a
	Ammonium Sulfate	17 lb/100 gal	POST							
8	Resource	2 oz/a	EPOST	0.0 d	0.0 a	0.0 a	0.0 a	90.0 a	85.0 a	
	Credit	24 oz/a	EPOST							
	Ammonium Sulfate	17 lb/100 gal	EPOST							
	Resource	2 oz/a	LPOST							
	Credit	24 oz/a	LPOST							
	Ammonium Sulfate	17 lb/100 gal	LPOST							
LSD (P=.05)		2.52	0.00	0.00	0.76	16.54	21.22	42.10		
Standard Deviation		1.44	0.00	0.00	0.44	8.79	10.62	21.07		
CV		33.82	0.0	0.0	69.83	12.4	12.16	24.17		
Grand Mean		4.25	0.0	0.0	0.63	70.83	87.33	87.19		
Replicate F		0.424	0.000	0.000	0.000	0.402	0.618	0.467		
Replicate Prob(F)		0.6628	1.0000	1.0000	1.0000	0.6820	0.5699	0.6477		
Treatment F		51.585	0.000	0.000	2.219	25.433	7.364	1.085		
Treatment Prob(F)		0.0001	1.0000	1.0000	0.0968	0.0001	0.0134	0.4618		

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**  
 Treatment Name  
 Ammonium Sulfate = |  
 Rate Unit  
 OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O  
 % V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z  
 LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]