

Northeast Research & Extension Center

2008 BAS 800H Soybean Preplant burndown efficacy and tolerance

Trial ID: 32 08 BASD91A SB Bdown Protocol ID: 08 BAS D91A SB Bdown
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: Kruger K245 RR SCN LINO Description: Rows 1 2 3 odd 4 5 6 on even
BBCH Scale: BSOY Planting Date: 06-01-08
Planting Method: seeded Rate, Unit: 196000 s/a
Depth, Unit: 1.25 in
Row Spacing, Unit: 30 in
Crop 2: GLXMA Glycine max Soybean
Variety: Asgrow DKB 27-52 RR Description: Rows 4 5 6 odd 1 2 3 on even
BBCH Scale: BSOY Planting Date: 06-01-08
Planting Method: seeded Rate, Unit: 196000 s/a
Depth, Unit: 1.25 in
Row Spacing, Unit: 30 in

Pest Description

Pest 1 Type: W Code: ERICA Erigeron canadensis L.
Common Name: Horseweed
Pest 2 Type: W Code: THLAR Thlaspi arvense L.
Common Name: Pennycress, field
Pest 3 Type: W Code: LACSE Lactuca serriola L./Torn.
Common Name: Lettuce, prickly

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

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
Application Date:	05-20-08
Time of Day:	11 am
Application Method:	spray
Application Timing:	BURNDOWN
Application Placement:	foliar
Applied By:	RR,JS
Air Temperature, Unit:	61 F
% Relative Humidity:	44
Wind Velocity, Unit:	5 mph
Wind Direction:	NNW
Dew Presence (Y/N):	n
Soil Temperature, Unit:	52 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Crop 2 Code, BBCH Scale:	GLXMA BSOY

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	ERICA W
Diameter, Unit:	4 in
Height, Unit:	2.5 in
Height Minimum, Maximum:	2 3
Density, Unit:	25 m2
Pest 2 Code, Disc., Scale:	THLAR W
Height, Unit:	12 in
Density, Unit:	3 m2
Pest 3 Code, Disc., Scale:	LACSE W
Diameter, Unit:	8 in
Height, Unit:	6 in
Density, Unit:	0.07 m2

Application Equipment

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

Trt No Treatment Application Comment

4 It appeared as if there was a mixing error with trt 4. data deleted.

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 Location: Concord, NE Study Director: Stevan Knezevic
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Description				Marestail	Marestail	Field Pennycress	Field Pennycress	Prickley Lettuce	Prickley Lettuce		
Rating Date				06-03-08	07-01-08	06-03-08	07-01-08	06-03-08	07-01-08		
Rating Data Type				Control	Control	Control	Control	Control	Control		
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent		
Days After First/Last Applic.				14 14	42 42	14 14	42 42	14 14	42 42		
Trt-Eval Interval				14 DA-A	42 DA-A	14 DA-A	42 DA-A	14 DA-A	42 DA-A		
Plant-Eval Interval				2 DP-1		2 DP-1		2 DP-1			
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage						
1	Nontreated Check					0.0 f	0.0 d	0.0 e	0.0 d	0.0 f	0.0 d
2	BAS 80004H	0.5 oz/a	12.5 g a/ha		Burndown	68.3 e	53.3 c	78.3 d	80.0 c	75.0 e	80.0 c
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
3	BAS 80004H	1 oz/a	25 g a/ha		Burndown	90.0 bc	90.0 a	91.7 abc	90.0 b	91.7 bcd	90.0 b
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
4	BAS 80003H	2.85 oz/a	25 g a/ha		Burndown						
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
5	BAS 80001H	0.51 oz/a	25 g a/ha		Burndown	83.3 cd	70.0 b	88.3 bc	88.3 b	93.3 abc	88.3 b
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
6	Roundup Original	32 oz/a	840 g a/ha		Burndown	83.3 cd	88.3 a	85.0 cd	95.0 ab	88.3 cd	95.0 ab
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
7	Roundup Original	32 oz/a	840 g a/ha		Burndown	80.0 d	88.3 a	83.3 cd	88.3 b	85.0 d	88.3 b
	2,4-D LV Ester	16 oz/a	526 g a/ha		Burndown						
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
8	BAS 80004H	1 oz/a	25 g a/ha		Burndown	96.7 ab	93.3 a	100.0 a	100.0 a	100.0 a	100.0 a
	Roundup Original	32 oz/a	840 g a/ha		Burndown						
	2,4-D LV Ester	16 oz/a	526 g a/ha		Burndown						
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
9	BAS 80004H	0.5 oz/a	12.5 g a/ha		Burndown	93.3 ab	90.0 a	96.7 ab	98.3 a	98.3 ab	98.3 a
	Roundup Original	32 oz/a	840 g a/ha		Burndown						
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
10	BAS 80004H	1 oz/a	25 g a/ha		Burndown	96.7 ab	90.0 a	100.0 a	100.0 a	100.0 a	100.0 a
	Roundup Original	32 oz/a	840 g a/ha		Burndown						
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
11	BAS 80004H	1 oz/a	25 g a/ha		Burndown	98.3 a	93.3 a	100.0 a	100.0 a	100.0 a	100.0 a
	Roundup Original	16 oz/a	420 g a/ha		Burndown						
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
12	BAS 80004H	1 oz/a	25 g a/ha		Burndown	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
	Pursuit	4 oz/a	70 g a/ha		Burndown						
	Roundup Original	32 oz/a	840 g a/ha		Burndown						
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
13	BAS 80004H	1 oz/a	25 g a/ha		Burndown	100.0 a	98.3 a	100.0 a	100.0 a	100.0 a	100.0 a
	Prowl H2O	48 oz/a	1600 g a/ha		Burndown						
	Roundup Original	32 oz/a	840 g a/ha		Burndown						
	Agridex	1 % v/v	1 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						
14	Valor	2 oz/a	71.4 g a/ha		Burndown	83.3 cd	90.0 a	88.3 bc	98.3 a	93.3 abc	98.3 a
	Roundup Original	32 oz/a	840 g a/ha		Burndown						
	NIS	0.25 % v/v	0.25 % v/v		Burndown						
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown						

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Rating Date	06-03-08	07-01-08	06-03-08	07-01-08	06-03-08	07-01-08
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.	14 14	42 42	14 14	42 42	14 14	42 42
Trt-Eval Interval	14 DA-A	42 DA-A	14 DA-A	42 DA-A	14 DA-A	42 DA-A
Plant-Eval Interval	2 DP-1		2 DP-1		2 DP-1	
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	
15	BAS 80400 H (Pur/800 premix)	2 oz/a	95 g a/ha		Burndown	100.0 a
	Roundup Original	32 oz/a	840 g a/ha		Burndown	
	Agridex	1 % v/v	1 % v/v		Burndown	
	Ammonium Sulfate	17 lb/100 gal	17 lb/100 gal		Burndown	
LSD (P=.05)						
Standard Deviation						
CV						
Grand Mean						
Replicate F						
Replicate Prob(F)						
Treatment F						
Treatment Prob(F)						

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.

<u>Additional Treatment Information</u>	
<u>Treatment Name</u>	
Ammonium Sulfate =	
<u>Rate Unit</u>	
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)]	
<u>Other Rate Unit</u>	
G A/HA = Grams Active Ingredient per Hectare	
% V/V = Percent, Volume Product per Volume Mix Basis	
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix	