

2008 Fall 2007 Burndown

Trial ID: 39 08 Fall 2007 BD Protocol ID: 08 Fall 2007 BD
 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: 156000 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: CAPBP Capsella bursa-Pastoris (L.) Med
 Common Name: Shepherdspurse
 Pest 4 Type: W Code: TAROF Taraxacum officinale Weber In Wi
 Common Name: Dandelion, common

Site and Design

Plot Width, Unit: 6 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.	06-16-08	Arrow	2	lbai/ga	EC	8	oz/A	n
2.	06-27-08	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
Application Date:	11-11-07
Time of Day:	2 pm
Application Method:	spray
Application Timing:	FALL
Application Placement:	surface
Applied By:	js
Air Temperature, Unit:	68 F
% Relative Humidity:	40
Wind Velocity, Unit:	3 mph
Wind Direction:	NW
Dew Presence (Y/N):	n
Soil Temperature, Unit:	46 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	ERICA W
Pest 2 Code, Disc., Scale:	THLAR W
Pest 3 Code, Disc., Scale:	CAPBP W
Pest 4 Code, Disc., Scale:	TAROF W

Application Equipment

	A
Appl. Equipment:	BACKPACK
Operating Pressure, Unit:	35 PSI
Nozzle Type:	TURBO TEE
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 IN
Boom Length, Unit:	6 FT
Boom Height, Unit:	12 IN
Ground Speed, Unit:	2.7 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA

Northeast Research & Extension Center

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Description	Marestail	Marestail	Field pennycress	Field pennycress	Shepherdspurse	Shepherdspurse	Dandelion	Dandelion		
Rating Date	05-09-08	05-21-08	05-09-08	05-21-08	05-09-08	05-21-08	05-09-08	05-21-08		
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control		
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
Days After First/Last Applic.	180 180	192 192	180 180	192 192	180 180	192 192	180 180	192 192		
Trt-Eval Interval	162 DA-A	192 DA-A	180 DA-A	192 DA-A	180 DA-A	192 DA-A	180 DA-A	192 DA-A		
Plant-Eval Interval	-32 DP-1	-20 DP-1	-32 DP-1	-20 DP-1	-32 DP-1	-20 DP-1	-32 DP-1	-20 DP-1		
Trt No.	Treatment Name	Rate	Unit	Growth Stage						
1	Rage D-Tech	12 oz/a		Fall	100.0 a	86.7 b	100.0 a	76.7 bc	100.0 a	100.0 a
	Roundup OriginalMAX	16 oz/a		Fall						
	Ammonium Sulfate	8.5 lb/100 gal		Fall						
2	Authority MTZ	10 oz/a		Fall	100.0 a	83.3 b	90.0 a	70.0 c	90.0 a	83.3 a
	2,4-D LV ester	16 oz/a		Fall						
	COC	1 % v/v		Fall						
	Ammonium Sulfate	8.5 lb/100 gal		Fall						
3	Basis	0.5 oz/a		Fall	98.3 a	80.0 b	100.0 a	96.7 ab	100.0 a	100.0 a
	2,4-D LV ester	16 oz/a		Fall						
	COC	1 % v/v		Fall						
	Ammonium Sulfate	8.5 lb/100 gal		Fall						
4	Canopy EX				100.0 a	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
	Classic	1 oz/a		Fall						
	Express	0.1 oz/a		Fall						
	2,4-D LV ester	16 oz/a		Fall						
	COC	1 % v/v		Fall						
	Ammonium Sulfate	8.5 lb/100 gal		Fall						
LSD (P=.05)		2.88			11.04			9.99		21.84
Standard Deviation		1.44			5.53			5.00		10.93
CV		1.45			6.32			5.13		12.73
Grand Mean		99.58			87.5			97.5		85.83
Replicate F		1.000			2.455			1.000		0.070
Replicate Prob(F)		0.4219			0.1664			0.4219		0.9334
Treatment F		1.000			7.545			3.000		5.465
Treatment Prob(F)		0.4547			0.0185			0.1170		0.0376

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
 LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]
 % V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z