

Evaluation of the Herbicide ET in Fall Burndown.

Trial ID: 08-5D-S100 Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 11-17-07

Objectives: Evaluate ET with herbicide tank-mix partners and acidifiers for fall burndown.

Crop 1: NONE non-crop

Pest 1 Type: W	Code: HORPU	Hordeum pusillum Nutt.	barley, little
Pest 2 Type: W	Code: LAMAM	Lamium amplexicaule L.	henbit
Pest 3 Type: W	Code: STEME	Stellaria media (L.) Vill.	chickweed, common
Pest 4 Type: W	Code: RANAB	Ranunculus abortivus L.	buttercup, smallflower

Plot Width, Unit: 10	FT	Site Type: FIELD
Plot Length, Unit: 28	FT	Tillage Type: NO-TILL
Replications: 3		Study Design: Randomized Complete Block

Prior Crops, Year

1. ZEAMD 2007

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 150 LB/A

% OM: 1.5	Texture: SILT LOAM
pH: 6.6	Soil Name: WINFIELD
CEC: 7	Fert. Level: P1 81 LB/A, K 313 LB/A

Application Description

A

Application Date:	11-17-07
Time of Day:	14:30
Application Method:	Spray
Application Timing:	FALL
Application Placement:	BROFOL
Applied By:	RFK
Air Temperature, Unit:	68 F
% Relative Humidity:	30
Wind Velocity, Unit:	4 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	50 F
Soil Moisture:	BELNOR

11-17-07

Crop stage at application: NA

Pest Stage At Each Application

Application Date:	11-17-07
Weed Code:	HORPU
Stage Majority (leaves):	3
Stage Min, Max:	2 3
Height Majority:	4 IN
Height Min, Max:	2 4
Density, Unit:	2 FT2
Weed Code:	LAMAM
Stage Majority (leaves):	8
Stage Min, Max:	2 10
Height Majority:	3 IN
Height Min, Max:	1 3
Density, Unit:	2 FT2
Weed Code:	STEME
Stage Majority (leaves):	8
Stage Min, Max:	4 10
Height Majority:	2 IN
Height Min, Max:	1 2
Density, Unit:	1 FT2
Weed Code:	RANAB
Stage Majority (leaves):	6
Stage Min, Max:	4 6
Height Majority:	4 IN
Height Min, Max:	2 4
Density, Unit:	1 FT2

Application Equipment

Appl. Equipment:	CO2 sprayer
Operating Pressure:	30 PSI
Nozzle Type:	Flat fan
Nozzle Size:	XR 8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	15 GPA

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Pest Code		HORPU HORPU HORPU LAMAM LAMAM LAMAM													
Crop Code		11-24-07 12-08-07 03-01-08 11-24-07 12-08-07 03-01-08													
Rating Date		Control Control Control Control Control Control													
Rating Data Type		Percent Percent Percent Percent Percent Percent													
Rating Unit		7 DA-A 21 DA-A 7 DA-A 21 DA-A													
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	50 a	99 a	0 a	50 a	99 a
1	ET	0.208	EC	0.00162	lb ai/a	1.0	fl oz/a	FALL	A						
1	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	A						
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	50 a	99 a	0 a	50 a	99 a
2	ET	0.208	EC	0.00162	lb ai/a	1.0	fl oz/a	FALL	A						
2	CT-301		L	0.8	fl oz/a	0.8	fl oz/a	FALL	A						
2	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	A						
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	50 a	99 a	0 a	50 a	99 a
3	ET	0.208	EC	0.00162	lb ai/a	1.0	fl oz/a	FALL	A						
3	2,4-D LV4	3.8	EC	0.38	lb ai/a	12.8	fl oz/a	FALL	A						
3	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	A						
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	50 a	99 a	0 a	50 a	99 a
4	ET	0.208	EC	0.00162	lb ai/a	1.0	fl oz/a	FALL	A						
4	2,4-D LV4	3.8	EC	0.38	lb ai/a	12.8	fl oz/a	FALL	A						
4	CT-301		L	0.8	fl oz/a	0.8	fl oz/a	FALL	A						
4	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	A						
5	NAI-1402		L	45.9	fl oz/a	45.9	fl oz/a	FALL	A	0 a	50 a	99 a	0 a	50 a	99 a
5	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	A						
6	NAI-1402		L	45.9	fl oz/a	45.9	fl oz/a	FALL	A	0 a	50 a	99 a	0 a	50 a	99 a
6	CT-301		L	0.8	fl oz/a	0.8	fl oz/a	FALL	A						
6	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	A						
7	NAI-1402		L	45.9	fl oz/a	45.9	fl oz/a	FALL	A	0 a	50 a	99 a	0 a	50 a	99 a
7	2,4-D LV4	3.8	EC	0.38	lb ai/a	12.8	fl oz/a	FALL	A						
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8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	FALL	A						
9	NONTREATED									0 a	0 b	0 b	0 a	0 b	0 b
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	50 a	99 a	0 a	50 a	99 a
10	2,4-D LV4	3.8	EC	0.38	lb ai/a	12.8	fl oz/a	FALL	A						
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

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								11-24-07	12-08-07	03-01-08	11-24-07	12-08-07	03-01-08		
								Control	Control	Control	Control	Control	Control		
								Percent	Percent	Percent	Percent	Percent	Percent		
								7 DA-A	21 DA-A		7 DA-A	21 DA-A			
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Trial Comments

1. Protocol: Nichino America.
2. Ratings: WC at 7 + 21 DAT and March 1.
3. Not harvested (non-crop).