

## Fall Metolachlor Applications.

Trial ID: 09-5D-S80

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: 11-21-08

**Objectives:** Evaluate the efficacy of fall applications of metolachlor for control of summer annuals after spring planting as well as the potential for carryover to corn or soybean.

Crop 1: SEE COMMENTS  
 Planting Method: SEEDED

Planting Date: 06-27-09

Pest 1 Type: W	Code: HORPU	Hordeum pusillum Nutt.	barley, little
Pest 2 Type: W	Code: AMBTR	Ambrosia trifida L.	ragweed, giant
Pest 3 Type: W	Code: PANDI	Panicum dichotomiflorum Michx.	panicum, fall
Pest 4 Type: W	Code: AMATA	Amaranthus rudis Sauer	waterhemp, common

Plot Width, Unit: 10	FT	Site Type: FIELD
Plot Length, Unit: 28	FT	Tillage Type: NO-TILL
Replications: 4		Study Design: Randomized Complete Block

Prior Crops, Year  
 1. ZEAMD 2008

% 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

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Application Date:	11-21-08
Time of Day:	10:00
Application Method:	Spray
Application Timing:	FALL
Application Placement:	BROFOL
Applied By:	TGM
Air Temperature, Unit:	32 F
% Relative Humidity:	50
Wind Velocity, Unit:	2 MPH
Wind Direction:	NW
Dew Presence (Y/N):	N
Soil Temperature, Unit:	42 F
Soil Moisture:	NORMAL
% Cloud Cover:	0

11-21-08

Crop stage at application: NA

## Pest Stage At Each Application

Application Date:	11-21-08
Weed Code:	HORPU
Stage Majority (leaves):	2
Stage Min, Max:	1 2
Height Majority:	2 IN
Height Min, Max:	1 3
Density, Unit:	8 FT2
Weed Code:	AMBTR
Stage Majority (leaves):	NA
Weed Code:	PANDI
Stage Majority (leaves):	NA
Weed Code:	AMATA
Stage Majority (leaves):	NA

## 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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								GLXMA	ZEAMD	HORPU	HORPU	AMBTR	PANDI	PANDI	AMATA	AMATA
Pest Code								07-11-09	07-11-09	04-01-09	05-01-09	05-01-09	06-22-09	07-11-09	06-22-09	07-11-09
Crop Code								Injury	Injury	Control	Control	Control	Control	Control	Control	Control
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type										Spring						
Rating Unit								14 DAP	14 DAP	Greenup	0 DAPP	0 DAPP	42 DAPP	14 DAP	42 DAPP	14 DAP
Rating Timing																
Trt-Eval Interval																
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code								
1	NONTREATED								0 a	0 a	99 a	99 a	0 a	0 a	0 a	0 a
2	PARALLEL	7.8	EC	1.63 lb ai/a	1.67 pt/a		FALL	A	0 a	0 a	99 a	99 a	0 a	0 a	0 a	0 a
3	PARALLEL	7.8	EC	1.95 lb ai/a	2.0 pt/a		FALL	A	0 a	0 a	99 a	99 a	0 a	0 a	0 a	0 a
4	DUAL II MAG	7.64	EC	1.6 lb ai/a	1.67 pt/a		FALL	A	0 a	0 a	99 a	99 a	0 a	0 a	0 a	0 a
5	DUAL II MAG	7.64	EC	1.91 lb ai/a	2.0 pt/a		FALL	A	0 a	0 a	99 a	99 a	0 a	0 a	0 a	0 a
LSD (P=.05)									0.0	0.0	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	0.000	0.000
Replicate Prob(F)									1.0000	1.0000	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	0.000	0.000
Treatment Prob(F)									1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

## Trial Comments

1. Protocol: MANA (MANA-MET-1).
2. Ratings: CI at 14 and 28 DAP; WC at April 1, May 1 (at planting), and at 14, 28, 42, and 56 DAP.
3. Blanket application of Roundup PowerMax (22 fl oz/A) at FALL timing to all plots 10 ft wide including the nontreated.
4. Planted 2 rows corn (P33K44 RR/LL) and 2 rows soybean (AG 3905 RR) in each plot on 6-27-09.
5. DAPP = Days after planned planting date, planting was delayed until 6-27-09.
6. On 5-1-09 only HORPU and AMBTR were emerging in the nontreated areas, no summer annual grasses were emerged in nontreated areas.
7. By 14 days after planting on 7-11-09, there was no residual weed control in any plots, ratings were stopped.
8. Not harvested.