

MSU Weed Science Research Program

EVAULUATION OF FALL-APPLIED BURNDOWN TREATMENTS, 2006/07

Trial ID: C1707
 Conducted: Campus

Study Dir.:
 Investigator: James Kells

Date Planted: 5/14/07 **Row Spacing:** 30 IN
Variety: DKC 48-53 **No. of Reps:** 4
Population: 30,000 S/A **% OM:** 1.8
Soil Type: Sandy loam **pH:** 5.7
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: No-till
Fertilizer: 125 lbs/A 19-19-19 in row
 500 lbs/A 21-0-9 Broadcast

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.) VILL./CYR.
2.	LAMAM	HENBIT	LAMIUM AMPLEXICAULE L.
3.	ARBTH	MOUSEEARCRESS	ARABIDOPSIS THALIANA (L.) HEYNH.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

A
Application Timing: Fall
Date Treated: 11/6/06
Time Treated: 1:35PM
% Cloud Cover: 10
Air Temp., Unit: 62 F
% Relative Humidity: 42
Wind Speed/Unit/Dir: 6 mph S
Soil Temp., Unit: 47 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

A
Crop Name: ZEAMX

Weed Stage at Each Application

A
Weed 1 Name: STEME
Height (In.): 1-5(3)
Weed 2 Name: LAMAM
Height (In.): 1-3(1.5)
Weed 3 Name: ARBTH
Height (In.): .5
Stage (L): 9-15(12)

Weed Density (plants/sq. ft.)

1
Date: 11/6/06
Weed Name: STEME
Density: 4
Date: 11/6/06
Weed Name: LAMAM
Density: <1
Date: 11/6/06
Weed Name: ARBTH
Density: 8

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom				
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	Cub	3.5	ff	8003	22"	20"	100"	20	H20	30	

Comments: Entire study recieved .75lbae glyphosate and 17 lbs/100 gallon AMS on June 20, 2007

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Weed Code						STEME	LAMAM	ARBTH	STEME	LAMAM	ARBTH	STEME	
Crop Code													
Rating Data Type						control	control	control	control	control	control	control	
Rating Unit						percent	percent	percent	percent	percent	percent	percent	
Rating Date						3/26/07	3/26/07	3/26/07	4/30/07	4/30/07	4/30/07	5/14/07	
Trt-Eval Interval						140 DA-A	140 DA-A	140 DA-A	175 DA-A	175 DA-A	175 DA-A	189 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7
1	Basis	75	WG	0.5	oz/a	FALL	99	99	100	95	100	98	89
1	2,4-D Ester	3.8	L	16	fl oz/a	FALL							
1	Herbimax		L	16	fl oz/a	FALL							
2	Basis	75	WG	0.5	oz/a	FALL	99	100	99	96	100	100	89
2	Princep	4	L	0.9	lb ai/a	FALL							
2	2,4-D Ester	3.8	L	16	fl oz/a	FALL							
2	Herbimax		L	16	fl oz/a	FALL							
3	Autumn	10	WG	0.3	oz/a	FALL	94	71	95	75	80	94	73
3	2,4-D Ester	3.8	L	16	fl oz/a	FALL							
3	Herbimax		L	16	fl oz/a	FALL							
4	Roundup OriginalMax	4.5	L	0.75	lb ae/a	FALL	98	99	98	97	96	94	88
4	2,4-D Ester	3.8	L	16	fl oz/a	FALL							
4	Ammonium Sulfate		DF	17	lb/100 gal	FALL							
5	Valor	51	WG	2	oz/a	FALL	98	100	100	95	100	98	90
5	Roundup OriginalMax	4.5	L	0.75	lb ae/a	FALL							
5	2,4-D Ester	3.8	L	16	fl oz/a	FALL							
5	Ammonium Sulfate		DF	17	lb/100 gal	FALL							
6	Princep	4	L	0.9	lb ai/a	FALL	75	91	99	73	94	98	76
6	2,4-D Ester	3.8	L	16	fl oz/a	FALL							
7	Roundup OriginalMax	4.5	L	0.75	lb ae/a	FALL	98	95	79	96	96	63	90
7	Ammonium Sulfate		DF	17	lb/100 gal	FALL							
8	Untreated					FALL	0	0	0	0	0	0	0
LSD (P=.05)							7.5	12.7	8.3	20.5	9.2	10.7	14.8
Standard Deviation							5.1	8.6	5.6	13.9	6.3	7.3	10.0
CV							6.15	10.52	6.75	17.84	7.53	9.03	13.53

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Weed Code	LAMAM	ARBTH
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	5/14/07	5/14/07
Trt-Eval Interval	189 DA-A	189 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	8	9
1	Basis	75	WG	0.5	oz/a	FALL	96	85
1	2,4-D Ester	3.8	L	16	fl oz/a	FALL		
1	Herbimax		L	16	fl oz/a	FALL		
2	Basis	75	WG	0.5	oz/a	FALL	100	100
2	Princep	4	L	0.9	lb ai/a	FALL		
2	2,4-D Ester	3.8	L	16	fl oz/a	FALL		
2	Herbimax		L	16	fl oz/a	FALL		
3	Autumn	10	WG	0.3	oz/a	FALL	73	76
3	2,4-D Ester	3.8	L	16	fl oz/a	FALL		
3	Herbimax		L	16	fl oz/a	FALL		
4	Roundup OriginalMax	4.5	L	0.75	lb ae/a	FALL	90	91
4	2,4-D Ester	3.8	L	16	fl oz/a	FALL		
4	Ammonium Sulfate		DF	17	lb/100 gal	FALL		
5	Valor	51	WG	2	oz/a	FALL	98	88
5	Roundup OriginalMax	4.5	L	0.75	lb ae/a	FALL		
5	2,4-D Ester	3.8	L	16	fl oz/a	FALL		
5	Ammonium Sulfate		DF	17	lb/100 gal	FALL		
6	Princep	4	L	0.9	lb ai/a	FALL	93	100
6	2,4-D Ester	3.8	L	16	fl oz/a	FALL		
7	Roundup OriginalMax	4.5	L	0.75	lb ae/a	FALL	93	80
7	Ammonium Sulfate		DF	17	lb/100 gal	FALL		
8	Untreated					FALL	0	0
LSD (P=.05)							11.6	15.5
Standard Deviation							7.9	10.6
CV							9.88	13.63