

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH IMPACT, 2006

Trial ID: C1706  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Christy Sprague

**Date Planted:** 5/3/2006                      **Row Spacing:** 30 IN  
**Variety:** DKC42-95                            **No. of Reps:** 4  
**Population:** 30,000 S/A                      **% OM:** 2.7  
**Soil Type:** clay loam                         **pH:** 6.4  
**Plot Size:** 10 X 35 FT                       **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Fall Chisel, Spring Soil Finish x2  
**Fertilizer:** 285 lbs/A 46-0-0 broadcast. 125 lbs/A 19-19-19 in row at planting.

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1.	ANGR	Annual Grasses	
2.	CHEAL	Common lambsquarters	Chenopodium album L.
3.	AMARE	PIGWEEED, ROUGH	AMARANTHUS RETROFLEXUS L.
4.	AMBEL	RAGWEEED, COMMON	AMBROSIA ELATIOR L.
5.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

**Application Description**

	A	B	C
<b>Application Timing:</b>	PRE	EP	MP
<b>Date Treated:</b>	5/3/2006	5/29/2006	6/13/2006
<b>Time Treated:</b>	8:20 pm	6:05 pm	10:20 am
<b>% Cloud Cover:</b>	25	30	15
<b>Air Temp., Unit:</b>	70 F	90 F	73 F
<b>% Relative Humidity:</b>	2	38	55
<b>Wind Speed/Unit/Dir:</b>	2 mph	3 mph SW	2 mph E
<b>Soil Temp., Unit:</b>	65 F	85 F	66.2 F
<b>Soil/Leaf Surface M:</b>	4 4	5 5	5 5
<b>Soil Moist (1=w 5=d):</b>	3	5	5

**Crop Stage at Each Application**

	A	B	C
<b>Crop Name:</b>	ZEAMX	ZEAMX	ZEAMX
<b>Height (In.):</b>		3-5 (4)	10-20 (15)
<b>Stage (L):</b>		V2 4L	V5-6 (6) 8L

**Weed Stage at Each Application**

	A	B	C
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR
<b>Height (In.):</b>		.5-1.5 (1)	.25-1 (.5)
<b>Stage (L):</b>		cot-3 (2)	1-2 (2)
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL
<b>Height (In.):</b>		.5-1 (.5)	2
<b>Stage (L):</b>		cot-4 (2)	4
<b>Weed 3 Name:</b>	AMARE	AMARE	AMARE
<b>Height (In.):</b>		.5-.75 (.5)	
<b>Stage (L):</b>		cot-3 (cot)	
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL
<b>Height (In.):</b>		.5-1.5 (1)	.5-2 (1.5)
<b>Stage (L):</b>		cot-6 (2)	2-8 (4)
<b>Weed 5 Name:</b>	ABUTH	ABUTH	ABUTH
<b>Height (In.):</b>		.5-1 (.75)	1-2 (1)
<b>Stage (L):</b>		cot-1 (1)	2-3 (3)

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH IMPACT, 2006

Trial ID: C1706  
Conducted: CAMPUS

Study Dir.:  
Investigator: Christy Sprague

**Weed Density (plants/sq. ft.)**

	<b>1</b>	<b>2</b>
<b>Date:</b>	5/3/2006	5/29/2006
<b>Weed Name:</b>	ANGR	ANGR
<b>Density:</b>		60
<b>Date:</b>	5/3/2006	5/29/2006
<b>Weed Name:</b>	CHEAL	CHEAL
<b>Density:</b>		27
<b>Date:</b>	5/3/2006	5/29/2006
<b>Weed Name:</b>	AMARE	AMARE
<b>Density:</b>		2
<b>Date:</b>	5/3/2006	5/29/2006
<b>Weed Name:</b>	AMBEL	AMBEL
<b>Density:</b>		13
<b>Date:</b>	5/3/2006	5/29/2006
<b>Weed Name:</b>	ABUTH	ABUTH
<b>Density:</b>		1

**Application Equipment**

	<b>Appl</b>	<b>Sprayer</b>	<b>Speed</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Boom</b>			
	<b>Type</b>	<b>MPH</b>	<b>Type</b>	<b>Size</b>	<b>Height</b>	<b>Spacing</b>	<b>Width</b>	<b>GPA</b>	<b>Carrier</b>	<b>PSI</b>	
<b>A</b>	cub	3.5	FF	8003	18"	20"	100"	20	H2O	30	
<b>B</b>	cub	3.5	FF	8003	20"	20"	100"	20	H2O	30	
<b>C</b>	cub	3.5	FF	8003	24"	20"	100"	20	H2O	30	



MSU Weed Science Research Program

WEED CONTROL IN CORN WITH IMPACT, 2006

Trial ID: C1706  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Christy Sprague

Weed Code														
Crop Code														
Rating Data Type														
Rating Unit														
Rating Date														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	1	2	3	4	5	6	7	8
							0.0	3.7	0.6	11.8	7.1	0.0	0.0	6.1
							0.0	2.6	0.4	8.2	4.9	0.0	0.0	4.2
							0.0	2.91	0.43	10.08	6.33	0.0	0.0	4.99



MSU Weed Science Research Program

WEED CONTROL IN CORN WITH IMPACT, 2006

Trial ID: C1706  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Christy Sprague

Weed Code	CHEAL	AMARE	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMARE						
Crop Code														
Rating Data Type	control	control	control	control	injury	control	control	control						
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent						
Rating Date	6/27/2006	6/27/2006	6/27/2006	6/27/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006						
Trt-Eval Interval	14 DAMP	14 DAMP	14 DAMP	14 DAMP	28 DAMP	28 DAMP	28 DAMP	28 DAMP						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	9	10	11	12	13	14	15	16
LSD (P=.05)							2.1	0.4	7.0	5.4	0.0	6.0	1.5	0.0
Standard Deviation							1.5	0.3	4.8	3.8	0.0	4.2	1.0	0.0
CV							1.6	0.32	5.53	4.44	0.0	4.94	1.11	0.0



MSU Weed Science Research Program

WEED CONTROL IN CORN WITH IMPACT, 2006

Trial ID: C1706  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Christy Sprague

Weed Code	AMBEL	ABUTH	ANGR	CHEAL	AMARE	AMBEL	ABUTH	ZEAMX						
Crop Code														
Rating Data Type	control	control	control	control	control	control	control	yield						
Rating Unit	percent	percent	percent	percent	percent	percent	percent	bu/ac						
Rating Date	7/11/2006	7/11/2006	8/9/2006	8/9/2006	8/9/2006	8/9/2006	8/9/2006	10/29/2006						
Trt-Eval Interval	28 DAMP	28 DAMP	57 DAMP	57 DAMP	57 DAMP	57 DAMP	57 DAMP	HARVEST						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	17	18	19	20	21	22	23	24
LSD (P=.05)							6.5	7.4	8.9	1.8	0.0	9.1	6.7	22.8
Standard Deviation							4.5	5.1	6.2	1.2	0.0	6.3	4.6	15.8
CV							5.09	5.84	7.57	1.34	0.0	7.39	5.43	8.71