

MSU Weed Science Research Program

CORN RESPONSE TO DICAMBA-BASED HERBICIDES, 2006

Trial ID: C1606
 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 Code Common Name
 1. ZEAMX CORN, FIELD

Application Description

| | A | B |
|------------------------------|----------|----------|
| Application Timing: | PRE* | POST |
| Date Treated: | 5/3/2006 | 6/9/2006 |
| Time Treated: | 8:35 pm | 10:00 am |
| % Cloud Cover: | 25 | 75 |
| Air Temp., Unit: | 69 F | 63 F |
| % Relative Humidity: | 65 | 75 |
| Wind Speed/Unit/Dir: | 2 mph | 5 mph N |
| Soil Temp., Unit: | 65 F | 65.1 F |
| Soil/Leaf Surface M: | 4 4 | 5 5 |
| Soil Moist (1=w 5=d): | 3 | 5 |

Crop Stage at Each Application

| | A | B |
|----------------------|----------|------------|
| Crop Name: | ZEAMX | ZEAMX |
| Height (In.): | | 8-15(11) |
| Stage (L): | | V4-5(5) 8L |

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 | 18" | 20" | 120" | 20 | H2O | 30 |
| B | cub | 3.5 | FF | 8003 | 18" | 30" | 120" | 20 | H2O | 30 |

Comments: * Entire study received Bicep Lite II Magnum preemergence at 1.5 qt/a on May 3, 2006.

MSU Weed Science Research Program

CORN RESPONSE TO DICAMBA-BASED HERBICIDES, 2006

Trial ID: C1606
 Conducted: CAMPUS

Study Dir.:
 Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 injury injury injury injury injury
 percent percent percent percent percent
 6/16/2006 6/23/2006 7/6/2006 7/26/2006 10/23/2006
 7 DAT 14 DAT 27 DAT 47 DAT HARVEST

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | 1 | 2 | 3 | 4 | 5 |
|--------------------|------------------------|-----------|-----------|------|------------|----------|-------|--------|-------|------|------|
| 1 | Untreated | | | | | | 0 | 0 | 0 | 0 | 210 |
| 1 | Bicep Lite II Magnum 6 | | L | 1.5 | qt/a | PRE | | | | | |
| 1 | ENTIRE STUDY | | | | | | | | | | |
| 2 | BAS 799 | | DF | 5 | oz/a | 12" ZE | 1 | 0 | 6 | 11 | 205 |
| 2 | Activator 90 | | L | 0.25 | % v/v | 12" ZE | | | | | |
| 2 | Ammonium Sulfate | | DF | 17 | lb/100 gal | 12" ZE | | | | | |
| 3 | BAS 799 | | DF | 10 | oz/a | 12" ZE | 3 | 0 | 14 | 18 | 209 |
| 3 | Activator 90 | | L | 0.25 | % v/v | 12" ZE | | | | | |
| 3 | Ammonium Sulfate | | DF | 17 | lb/100 gal | 12" ZE | | | | | |
| 4 | Distinct | 70 | DF | 4 | oz/a | 12" ZE | 1 | 0 | 13 | 13 | 213 |
| 4 | Activator 90 | | L | 0.25 | % v/v | 12" ZE | | | | | |
| 4 | Ammonium Sulfate | | DF | 17 | lb/100 gal | 12" ZE | | | | | |
| 5 | Distinct | 70 | DF | 8 | oz/a | 12" ZE | 8 | 1 | 18 | 18 | 198 |
| 5 | Activator 90 | | L | 0.25 | % v/v | 12" ZE | | | | | |
| 5 | Ammonium Sulfate | | DF | 17 | lb/100 gal | 12" ZE | | | | | |
| 6 | Banvel | 4 | L | 4 | fl oz/a | 12" ZE | 0 | 0 | 14 | 15 | 203 |
| 6 | Activator 90 | | L | 0.25 | % v/v | 12" ZE | | | | | |
| 6 | Ammonium Sulfate | | DF | 17 | lb/100 gal | 12" ZE | | | | | |
| 7 | Banvel | 4 | L | 8 | fl oz/a | 12" ZE | 7 | 0 | 21 | 21 | 203 |
| 7 | Activator 90 | | L | 0.25 | % v/v | 12" ZE | | | | | |
| 7 | Ammonium Sulfate | | DF | 17 | lb/100 gal | 12" ZE | | | | | |
| LSD (P=.05) | | | | | | | 3.0 | 0.6 | 7.0 | 4.1 | 18.8 |
| Standard Deviation | | | | | | | 2.0 | 0.4 | 4.7 | 2.7 | 12.6 |
| CV | | | | | | | 76.94 | 529.15 | 38.87 | 20.1 | 6.14 |