

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH ISOXADIFEN-ETHYL TANK-MIXES, 2007

Trial ID: C0407
 Conducted: CAMPUS

Study Dir.:
 Investigator: James Kells

Date Planted: 5/7/07 **Row Spacing:** 30 IN
Variety: Pioneer 38B86 **No. of Reps:** 3
Population: 29,500 S/A **% OM:** 3.3
Soil Type: Sandy Loam **pH:** 6.5
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel, Spring Field Cultivated 2X
Fertilizer: 300lbs/A 46-0-0 Broadcast. 125lbs/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, REDROOT | AMARANTHUS RETROFLEXUS L. |
| 4. | ABUTH | VELVETLEAF | ABUTILON THEOPHRASTI MEDIK. |
| Crop | Code | Common Name | |
| 1. | ZEAMX | CORN, FIELD | |

Application Description

| | A | B |
|------------------------------|--------|---------|
| Application Timing: | PRE | POST |
| Date Treated: | 5/7/07 | 5/24/07 |
| Time Treated: | 7:25PM | 9:48AM |
| % Cloud Cover: | 30 | 5 |
| Air Temp., Unit: | 74 F | 80 F |
| % Relative Humidity: | 37 | 39 |
| Wind Speed/Unit/Dir: | 4 SE | 6 WSW |
| Soil Temp., Unit: | 62 F | 66 F |
| Soil/Leaf Surface M: | 5 5 | 5 5 |
| Soil Moist (1=w 5=d): | 5 | 4 |

Crop Stage at Each Application

| | A | B |
|----------------------|-------|-----------|
| Crop Name: | ZEAMX | ZEAMX |
| Height (In.): | | 2-4(4) |
| Stage (L): | | V1-2(2)4L |

Weed Stage at Each Application

| | A | B |
|----------------------|-------|------------|
| Weed 1 Name: | ANGR | ANGR |
| Height (In.): | | .3-1.5(.8) |
| Stage (L): | | 1-3(2) |
| Weed 2 Name: | CHEAL | CHEAL |
| Height (In.): | | .25-1(.3) |
| Stage (L): | | Cot-4(Cot) |
| Weed 3 Name: | AMARE | AMARE |
| Height (In.): | | .25-1(.25) |
| Stage (L): | | Cot-4(2) |
| Weed 4 Name: | ABUTH | ABUTH |
| Height (In.): | | .5-1(.5) |
| Stage (L): | | Cot-1(1) |

Weed Density (plants/sq. ft.)

| | 1 | 2 |
|-------------------|--------|---------|
| Date: | 5/7/07 | 5/24/07 |
| Weed Name: | ANGR | ANGR |
| Density: | | 13 |
| Date: | 5/7/07 | 5/24/07 |
| Weed Name: | CHEAL | CHEAL |
| Density: | | 8 |
| Date: | 5/7/07 | 5/24/07 |
| Weed Name: | AMARE | AMARE |
| Density: | | 1 |
| Date: | 5/7/07 | 5/24/07 |
| Weed Name: | ABUTH | ABUTH |
| Density: | | 2 |

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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" | 100" | 20 | H2O | 30 | |
| B | CUB | 3.5 | FF | 8003 | 19" | 20" | 100" | 20 | H2O | 30 | |

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| Weed Code | Crop Code | Rating Data Type | Rating Unit | Rating Date | Trt-Eval Interval | ZEAMX injury percent 5/24/07 AT POST | ANGR control percent 5/24/07 AT POST | CHEAL control percent 5/24/07 AT POST | AMARE control percent 5/24/07 AT POST | ABUTH control percent 5/24/07 AT POST | ZEAMX injury percent 5/31/07 7 DAPO | ZEAMX injury percent 6/7/07 14 DAPO | ANGR control percent 6/7/07 14 DAPO | |
|--------------------|---------------------|------------------|-------------|-------------|-------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------|
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 0 | 97 | 57 | 100 | 27 | 0 | 0 | 98 |
| 8 | DPX-9636 | 25 | WG | 0.229 | oz ai/a | POST | | | | | | | | |
| 8 | Harmony GT 50 SG | 50 | SG | 0.05 | oz ai/a | POST | | | | | | | | |
| 8 | Isoxadifen-Ethyl | 50 | DF | 0.115 | oz ai/a | POST | | | | | | | | |
| 8 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | | | | | |
| 8 | Activator 90 | | L | 0.25 | % v/v | POST | | | | | | | | |
| 8 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | |
| 9 | DPX-9636 | 25 | WG | 0.19 | oz ai/a | POST | | | | | 0 | 0 | | 99 |
| 9 | Harmony GT 50 SG | 50 | SG | 0.041 | oz ai/a | POST | | | | | | | | |
| 9 | Isoxadifen-Ethyl | 50 | DF | 0.095 | oz ai/a | POST | | | | | | | | |
| 9 | Liberty | 1.67 | L | 6.68 | oz ai/a | POST | | | | | | | | |
| 9 | Atrazine 90 DF | 90 | DF | 12 | oz ai/a | POST | | | | | | | | |
| 9 | MSO | | L | 1 | % v/v | POST | | | | | | | | |
| 9 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | |
| 10 | DPX-9636 | 25 | WG | 0.25 | oz ai/a | POST | | | | | 0 | 0 | | 98 |
| 10 | Dicamba | 70 | DF | 1.93 | oz ai/a | POST | | | | | | | | |
| 10 | Isoxadifen-Ethyl | 50 | DF | 0.125 | oz ai/a | POST | | | | | | | | |
| 10 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | | | | | |
| 10 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | | | | | |
| 10 | MSO | | L | 1 | % v/v | POST | | | | | | | | |
| 10 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | |
| 11 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 0 | 97 | 64 | 100 | 30 | 0 | 0 | 100 |
| 11 | DPX-9636 | 25 | WG | 0.25 | oz ai/a | POST | | | | | | | | |
| 11 | Dicamba | 70 | DF | 1.93 | oz ai/a | POST | | | | | | | | |
| 11 | Isoxadifen-Ethyl | 50 | DF | 0.125 | oz ai/a | POST | | | | | | | | |
| 11 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | | | | | |
| 11 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | | | | | | | | |
| 11 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | |
| 12 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | | 0 | 0 | | 83 |
| 12 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | |
| 13 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 0 | 98 | 47 | 100 | 13 | 0 | 0 | 97 |
| 13 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | | | | | |
| 13 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | |
| 14 | Liberty | 1.67 | L | 6.68 | oz ai/a | POST | | | | | 0 | 0 | | 82 |
| 14 | Atrazine 90 DF | 90 | DF | 12 | oz ai/a | POST | | | | | | | | |
| 14 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | |
| 15 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 0 | 99 | 52 | 100 | 27 | 0 | 0 | 100 |
| 15 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | | | | | |
| 15 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | | | | | |
| 15 | MSO | | L | 1 | % v/v | POST | | | | | | | | |
| 15 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | |
| 16 | Untreated | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LSD (P=.05) | | | | | | | 0.0 | 5.5 | 24.9 | 0.0 | 23.0 | 0.0 | 0.0 | 6.9 |
| Standard Deviation | | | | | | | 0.0 | 3.1 | 14.2 | 0.0 | 13.1 | 0.0 | 0.0 | 4.1 |
| CV | | | | | | | 0.0 | 3.73 | 32.71 | 0.0 | 78.69 | 0.0 | 0.0 | 4.63 |

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| Weed Code | | | | | | | CHEAL | AMARE | ABUTH | | ANGR | CHEAL | AMARE | ABUTH | |
|--------------------|---------------------|-----------|-----------|-------|-----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Crop Code | | | | | | | | | | ZEAMX | | | | | |
| Rating Data Type | | | | | | | control | control | control | injury | control | control | control | control | control |
| Rating Unit | | | | | | | percent | percent | percent | percent | percent | percent | percent | percent | percent |
| Rating Date | | | | | | | 6/7/07 | 6/7/07 | 6/7/07 | 6/21/07 | 6/21/07 | 6/21/07 | 6/21/07 | 6/21/07 | 6/21/07 |
| Trt-Eval Interval | | | | | | | 14 DAPO | 14 DAPO | 14 DAPO | 28 DAPO | 28 DAPO | 28 DAPO | 28 DAPO | 28 DAPO | 28 DAPO |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| 8 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 99 | 100 | 95 | 0 | 95 | 94 | 100 | 83 | |
| 8 | DPX-9636 | 25 | WG | 0.229 | oz ai/a | POST | | | | | | | | | |
| 8 | Harmony GT 50 SG | 50 | SG | 0.05 | oz ai/a | POST | | | | | | | | | |
| 8 | Isoxadifen-Ethyl | 50 | DF | 0.115 | oz ai/a | POST | | | | | | | | | |
| 8 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | | | | | | |
| 8 | Activator 90 | | L | 0.25 | % v/v | POST | | | | | | | | | |
| 8 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | | |
| 9 | DPX-9636 | 25 | WG | 0.19 | oz ai/a | POST | 100 | 100 | 97 | 0 | 89 | 95 | 100 | 90 | |
| 9 | Harmony GT 50 SG | 50 | SG | 0.041 | oz ai/a | POST | | | | | | | | | |
| 9 | Isoxadifen-Ethyl | 50 | DF | 0.095 | oz ai/a | POST | | | | | | | | | |
| 9 | Liberty | 1.67 | L | 6.68 | oz ai/a | POST | | | | | | | | | |
| 9 | Atrazine 90 DF | 90 | DF | 12 | oz ai/a | POST | | | | | | | | | |
| 9 | MSO | | L | 1 | % v/v | POST | | | | | | | | | |
| 9 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | | |
| 10 | DPX-9636 | 25 | WG | 0.25 | oz ai/a | POST | 100 | 100 | 97 | 0 | 91 | 98 | 100 | 91 | |
| 10 | Dicamba | 70 | DF | 1.93 | oz ai/a | POST | | | | | | | | | |
| 10 | Isoxadifen-Ethyl | 50 | DF | 0.125 | oz ai/a | POST | | | | | | | | | |
| 10 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | | | | | | |
| 10 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | | | | | | |
| 10 | MSO | | L | 1 | % v/v | POST | | | | | | | | | |
| 10 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | | |
| 11 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 100 | 100 | 99 | 0 | 96 | 100 | 100 | 91 | |
| 11 | DPX-9636 | 25 | WG | 0.25 | oz ai/a | POST | | | | | | | | | |
| 11 | Dicamba | 70 | DF | 1.93 | oz ai/a | POST | | | | | | | | | |
| 11 | Isoxadifen-Ethyl | 50 | DF | 0.125 | oz ai/a | POST | | | | | | | | | |
| 11 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | | | | | | |
| 11 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | | | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | | | | | | | | | |
| 11 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | | |
| 12 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | 58 | 100 | 77 | 0 | 72 | 58 | 97 | 62 | |
| 12 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | | |
| 13 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 84 | 100 | 73 | 0 | 94 | 70 | 100 | 67 | |
| 13 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | | | | | | |
| 13 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | | |
| 14 | Liberty | 1.67 | L | 6.68 | oz ai/a | POST | 97 | 100 | 96 | 0 | 69 | 87 | 100 | 82 | |
| 14 | Atrazine 90 DF | 90 | DF | 12 | oz ai/a | POST | | | | | | | | | |
| 14 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | | |
| 15 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 100 | 100 | 92 | 0 | 95 | 100 | 100 | 84 | |
| 15 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | | | | | | |
| 15 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | | | | | | |
| 15 | MSO | | L | 1 | % v/v | POST | | | | | | | | | |
| 15 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | | | | | | |
| 16 | Untreated | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| LSD (P=.05) | | | | | | | 7.9 | 0.0 | 9.2 | 0.0 | 7.4 | 8.8 | 5.6 | 7.7 | |
| Standard Deviation | | | | | | | 4.7 | 0.0 | 5.5 | 0.0 | 4.4 | 5.3 | 3.3 | 4.6 | |
| CV | | | | | | | 5.28 | 0.0 | 6.51 | 0.0 | 5.44 | 6.18 | 3.57 | 6.02 | |

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Study Dir.:
 Investigator: James Kells

| Weed Code | ANGR | CHEAL | AMARE | ABUTH |
|-------------------|---------|---------|---------|---------|
| Crop Code | | | | |
| Rating Data Type | control | control | control | control |
| Rating Unit | percent | percent | percent | percent |
| Rating Date | 7/20/07 | 7/20/07 | 7/20/07 | 7/20/07 |
| Trt-Eval Interval | 57 DAPO | 57 DAPO | 57 DAPO | 57 DAPO |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | 17 | 18 | 19 | 20 |
|---------|---------------------|-----------|-----------|-------|-----------|----------|----|-----|-----|----|
| 1 | DPX-9636 | 25 | WG | 0.25 | oz ai/a | POST | 80 | 97 | 100 | 75 |
| 1 | Accent | 75 | DF | 0.375 | oz ai/a | POST | | | | |
| 1 | Isoxadifen-Ethyl | 50 | DF | 0.125 | oz ai/a | POST | | | | |
| 1 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | |
| 1 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | |
| 1 | MSO | | L | 1 | % v/v | POST | | | | |
| 1 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 2 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 92 | 98 | 100 | 97 |
| 2 | DPX-9636 | 25 | WG | 0.25 | oz ai/a | POST | | | | |
| 2 | Accent | 75 | DF | 0.375 | oz ai/a | POST | | | | |
| 2 | Isoxadifen-Ethyl | 50 | DF | 0.125 | oz ai/a | POST | | | | |
| 2 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | |
| 2 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | |
| 2 | MSO | | L | 1 | % v/v | POST | | | | |
| 2 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 3 | Accent | 75 | DF | 0.5 | oz ai/a | POST | 73 | 100 | 100 | 73 |
| 3 | Harmony GT 50 SG | 50 | SG | 0.06 | oz ai/a | POST | | | | |
| 3 | Isoxadifen-Ethyl | 50 | DF | 0.25 | oz ai/a | POST | | | | |
| 3 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | |
| 3 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | |
| 3 | MSO | | L | 1 | % v/v | POST | | | | |
| 3 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 4 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 86 | 100 | 100 | 90 |
| 4 | Accent | 75 | DF | 0.5 | oz ai/a | POST | | | | |
| 4 | Harmony GT 50 SG | 50 | SG | 0.06 | oz ai/a | POST | | | | |
| 4 | Isoxadifen-Ethyl | 50 | DF | 0.25 | oz ai/a | POST | | | | |
| 4 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | |
| 4 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | |
| 4 | MSO | | L | 1 | % v/v | POST | | | | |
| 4 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 5 | DPX-9636 | 25 | WG | 0.19 | oz ai/a | POST | 75 | 83 | 97 | 70 |
| 5 | Harmony GT 50 SG | 50 | SG | 0.041 | oz ai/a | POST | | | | |
| 5 | Isoxadifen-Ethyl | 50 | DF | 0.095 | oz ai/a | POST | | | | |
| 5 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | |
| 5 | Activator 90 | | L | 0.25 | % v/v | POST | | | | |
| 5 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 6 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 85 | 98 | 93 | 65 |
| 6 | DPX-9636 | 25 | WG | 0.19 | oz ai/a | POST | | | | |
| 6 | Harmony GT 50 SG | 50 | SG | 0.041 | oz ai/a | POST | | | | |
| 6 | Isoxadifen-Ethyl | 50 | DF | 0.095 | oz ai/a | POST | | | | |
| 6 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | |
| 6 | Activator 90 | | L | 0.25 | % v/v | POST | | | | |
| 6 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 7 | DPX-9636 | 25 | WG | 0.229 | oz ai/a | POST | 73 | 77 | 97 | 72 |
| 7 | Harmony GT 50 SG | 50 | SG | 0.05 | oz ai/a | POST | | | | |
| 7 | Isoxadifen-Ethyl | 50 | DF | 0.115 | oz ai/a | POST | | | | |
| 7 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | |
| 7 | Activator 90 | | L | 0.25 | % v/v | POST | | | | |
| 7 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |

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| Weed Code | | | | | | | ANGR | CHEAL | AMARE | ABUTH |
|--------------------|---------------------|-----------|-----------|-------|-----------|----------|---------|---------|---------|---------|
| Crop Code | | | | | | | | | | |
| Rating Data Type | | | | | | | control | control | control | control |
| Rating Unit | | | | | | | percent | percent | percent | percent |
| Rating Date | | | | | | | 7/20/07 | 7/20/07 | 7/20/07 | 7/20/07 |
| Trt-Eval Interval | | | | | | | 57 DAPO | 57 DAPO | 57 DAPO | 57 DAPO |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | 17 | 18 | 19 | 20 |
| 8 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 92 | 85 | 100 | 87 |
| 8 | DPX-9636 | 25 | WG | 0.229 | oz ai/a | POST | | | | |
| 8 | Harmony GT 50 SG | 50 | SG | 0.05 | oz ai/a | POST | | | | |
| 8 | Isoxadifen-Ethyl | 50 | DF | 0.115 | oz ai/a | POST | | | | |
| 8 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | |
| 8 | Activator 90 | | L | 0.25 | % v/v | POST | | | | |
| 8 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 9 | DPX-9636 | 25 | WG | 0.19 | oz ai/a | POST | 82 | 98 | 100 | 92 |
| 9 | Harmony GT 50 SG | 50 | SG | 0.041 | oz ai/a | POST | | | | |
| 9 | Isoxadifen-Ethyl | 50 | DF | 0.095 | oz ai/a | POST | | | | |
| 9 | Liberty | 1.67 | L | 6.68 | oz ai/a | POST | | | | |
| 9 | Atrazine 90 DF | 90 | DF | 12 | oz ai/a | POST | | | | |
| 9 | MSO | | L | 1 | % v/v | POST | | | | |
| 9 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 10 | DPX-9636 | 25 | WG | 0.25 | oz ai/a | POST | 78 | 98 | 100 | 87 |
| 10 | Dicamba | 70 | DF | 1.93 | oz ai/a | POST | | | | |
| 10 | Isoxadifen-Ethyl | 50 | DF | 0.125 | oz ai/a | POST | | | | |
| 10 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | |
| 10 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | |
| 10 | MSO | | L | 1 | % v/v | POST | | | | |
| 10 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 11 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 96 | 100 | 100 | 91 |
| 11 | DPX-9636 | 25 | WG | 0.25 | oz ai/a | POST | | | | |
| 11 | Dicamba | 70 | DF | 1.93 | oz ai/a | POST | | | | |
| 11 | Isoxadifen-Ethyl | 50 | DF | 0.125 | oz ai/a | POST | | | | |
| 11 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | |
| 11 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | |
| 11 | MSO | | L | 1 | % v/v | POST | | | | |
| 11 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 12 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | 65 | 25 | 90 | 70 |
| 12 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 13 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 93 | 55 | 100 | 57 |
| 13 | Roundup OriginalMax | 5.5 | L | 15.13 | oz ai/a | POST | | | | |
| 13 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 14 | Liberty | 1.67 | L | 6.68 | oz ai/a | POST | 65 | 88 | 100 | 80 |
| 14 | Atrazine 90 DF | 90 | DF | 12 | oz ai/a | POST | | | | |
| 14 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 15 | Dual II Magnum | 7.64 | L | 15.28 | oz ai/a | PRE | 90 | 100 | 100 | 78 |
| 15 | Impact | 2.8 | SC | 0.175 | oz ai/a | POST | | | | |
| 15 | Atrazine 90 DF | 90 | DF | 8 | oz ai/a | POST | | | | |
| 15 | MSO | | L | 1 | % v/v | POST | | | | |
| 15 | Ammonium Sulfate | 100 | DF | 32 | oz ai/a | POST | | | | |
| 16 | Untreated | | | | | | 0 | 0 | 0 | 0 |
| LSD (P=.05) | | | | | | | 11.6 | 14.9 | 7.2 | 15.4 |
| Standard Deviation | | | | | | | 6.9 | 8.9 | 4.3 | 9.2 |
| CV | | | | | | | 9.06 | 10.92 | 4.65 | 12.45 |