

Impact Sequential Programs in Corn.

Trial ID: 08-1-MMW50 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: 06-15-08

Objectives: To compare performance of Impact to other postemergence products and in tank-mixes with glyphosate for resistance management in corn.

Crop 1: ZEAMD Dent corn Variety: P33K44
 Planting Method: SEEDED Planting Date: 06-15-08
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: PANDI Panicum dichotomiflorum Michx. panicum, fall
 Pest 2 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
 Pest 3 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 4 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
 Pest 5 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 28 FT Tillage Type: REDUCED-TILL
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2007

Field Prep./Maintenance: N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A

% OM: 1.6 Texture: SILT LOAM
 pH: 6.2 Soil Name: WINFIELD
 CEC: 8 Fert. Level: P1: 83 LB/A, K: 396 LB/A

Application Description

| | A | B | C | D |
|----------------------------|----------|----------|----------|----------|
| Application Date: | 06-15-08 | 07-02-08 | 07-02-08 | 07-07-08 |
| Time of Day: | 15:30 | 8:30 | 8:30 | 10:30 |
| Application Method: | Spray | Spray | Spray | Spray |
| Application Timing: | PRE | 2-4"W-1 | 2-4"W-2 | 4-6"W |
| Application Placement: | BROSOI | BROFOL | BROFOL | BROFOL |
| Applied By: | TGM | DKT | DKT | TGM |
| Air Temperature, Unit: | 86 F | 78 F | 78 F | 86 F |
| % Relative Humidity: | 60 | 80 | 80 | 92 |
| Wind Velocity, Unit: | 1 MPH | 5 MPH | 5 MPH | 1 MPH |
| Dew Presence (Y/N): | N | N | N | |
| Soil Temperature, Unit: | 80 F | 84 F | 84 F | 85 F |
| Soil Moisture: | ABONOR | NORMAL | NORMAL | ABONOR |
| % Cloud Cover: | 40 | | | 80 |
| Crop stage at application: | 06-15-08 | 07-02-08 | 07-02-08 | 07-07-08 |
| Height Min, Max (inch): | NA | V4 | V4 | V5 |
| | | 8 11 | 8 11 | 16 20 |

Pest Stage At Each Application

| | A | B | C | D |
|--------------------------|----------|----------|----------|----------|
| Application Date: | 06-15-08 | 07-02-08 | 07-02-08 | 07-07-08 |
| Weed Code: | PANDI | PANDI | PANDI | PANDI |
| Stage Majority (leaves): | NA | 3 | 3 | 4 |
| Stage Min, Max: | | 1 4 | 1 4 | 2 7 |
| Height Majority: | | 4 IN | 4 IN | 6 IN |
| Height Min, Max: | | 2 5 | 2 5 | 3 10 |
| Density, Unit: | | 1 FT2 | 1 FT2 | 6 FT2 |
| Weed Code: | SETFA | SETFA | SETFA | SETFA |
| Stage Majority (leaves): | NA | 3 | 3 | 4 |
| Stage Min, Max: | | 1 4 | 1 4 | 2 7 |
| Height Majority: | | 4 IN | 4 IN | 6 IN |
| Height Min, Max: | | 2 5 | 2 5 | 3 10 |
| Density, Unit: | | 1 FT2 | 1 FT2 | 1 FT2 |
| Weed Code: | AMBTR | AMBTR | AMBTR | AMBTR |
| Stage Majority (leaves): | NA | 4 | 4 | 6 |
| Stage Min, Max: | | 2 4 | 2 4 | 4 8 |
| Height Majority: | | 2 IN | 2 IN | 10 IN |
| Height Min, Max: | | 1 4 | 1 4 | 8 12 |
| Density, Unit: | | 1 FT2 | 1 FT2 | 1 FT2 |
| Weed Code: | ABUTH | ABUTH | ABUTH | ABUTH |
| Stage Majority (leaves): | NA | 3 | 3 | 4 |
| Stage Min, Max: | | 2 3 | 2 3 | 1 5 |
| Height Majority: | | 2.5 IN | 2.5 IN | 8 IN |
| Height Min, Max: | | 1 3 | 1 3 | 3 10 |
| Density, Unit: | | 1 FT2 | 1 FT2 | 1 FT2 |
| Weed Code: | AMATA | AMATA | AMATA | AMATA |
| Stage Majority (leaves): | NA | NA | NA | 4 |
| Stage Min, Max: | | | | 2 6 |
| Height Majority: | | | | 2 IN |
| Height Min, Max: | | | | 1 4 |
| Density, Unit: | | | | 3 FT2 |

Impact Sequential Programs in Corn.

Trial ID: 08-1-MMW50

Location: Belleville Res. Center

Application Equipment

| | | | | |
|----------------------------|-------------|-------------|-------------|-------------|
| Appl. Equipment: | CO2 sprayer | CO2 sprayer | CO2 sprayer | CO2 sprayer |
| Operating Pressure: | 30 PSI | 30 PSI | 30 PSI | 30 PSI |
| Nozzle Type: | Flat fan | Flat fan | Flat fan | Flat fan |
| Nozzle Size: | XR 8002 | XR 8002 | XR 8002 | XR 8002 |
| Boom Length, Unit: | 7.5 FT | 7.5 FT | 7.5 FT | 7.5 FT |
| Spray Volume, Unit: | 15 GPA | 15 GPA | 15 GPA | 15 GPA |

Impact Sequential Programs in Corn.

Trial ID: 08-1-MMW50 Location: Belleville Res. Center

| Pest Code | | | | | | | | | | | | | | |
|-------------------|----------------|-----------|-----------|----------------|------------|-----------------|--------------|-----------|---------------------------------|---------------------------|---|---|-----------------------------|-----------------------------|
| Crop Code | | | | | | | | | | | | | | |
| Rating Date | | | | | | | | | | | | | | |
| Rating Data Type | | | | | | | | | | | | | | |
| Rating Unit | | | | | | | | | | | | | | |
| Rating Timing | | | | | | | | | | | | | | |
| Trt-Eval Interval | | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Other Rate | Other Rate Unit | Growth Stage | Appl Code | ZEAMD 11-18-08 Moisture Percent | ZEAMD 11-18-08 Yield bu/A | ZEAMD 07-09-08 Injury Percent 2 DA-D 7 DA-B | ZEAMD 07-14-08 Injury Percent 7 DA-D 14 DAT | ZEAMD Injury Percent 28 DAT | ZEAMD Injury Percent 56 DAT |
| 1 | NONTREATED | | | | | | | | 19.6 a | 157 c | 0 b | 0 a | 0 a | 0 a |
| 2 | BICEP II MAG | 5.5 | SC | 1.44 lb ai/a | 2.1 | pt/a | PRE | A | 18.8 a | 200 b | 0 b | 0 a | 0 a | 0 a |
| 3 | BICEP II MAG | 5.5 | SC | 1.44 lb ai/a | 2.1 | pt/a | PRE | A | 19.2 a | 209 ab | 3 a | 0 a | 0 a | 0 a |
| 3 | IMPACT | 2.8 | SC | 0.0164 lb ai/a | 0.75 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 3 | AATREX | 4 | SC | 0.5 lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | |
| 3 | DESTINY MSO | 100 | SL | 1 % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | |
| 3 | 28% UAN | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | |
| 4 | BICEP II MAG | 5.5 | SC | 1.44 lb ai/a | 2.1 | pt/a | PRE | A | 19.1 a | 209 ab | 3 a | 0 a | 0 a | 0 a |
| 4 | CALLISTO | 4 | SC | 0.094 lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 4 | AATREX | 4 | SC | 0.5 lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | |
| 4 | PRIME OIL COC | 100 | SL | 1 % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | |
| 4 | 28% UAN | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | |
| 5 | BICEP II MAG | 5.5 | SC | 1.44 lb ai/a | 2.1 | pt/a | PRE | A | 19.1 a | 205 ab | 2 ab | 0 a | 0 a | 0 a |
| 5 | LAUDIS | 3.5 | SC | 0.082 lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 5 | AATREX | 4 | SC | 0.5 lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | |
| 5 | PRIME OIL COC | 100 | SL | 1 % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | |
| 5 | 28% UAN | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | |
| 6 | HARNES | 7 | EC | 0.875 lb ai/a | 1 | pt/a | PRE | A | 19.5 a | 213 ab | 0 b | 0 a | 0 a | 0 a |
| 6 | IMPACT | 2.8 | SC | 0.0109 lb ai/a | 0.5 | fl oz/a | 4-6"W | D | | | | | | |
| 6 | ROUNDUP P-MAX | 4.5 | SL | 0.77 lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | |
| 6 | AATREX | 4 | SC | 0.75 lb ai/a | 1.5 | pt/a | 4-6"W | D | | | | | | |
| 6 | N-PAK AMS | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | |
| 7 | HARNES | 7 | EC | 0.875 lb ai/a | 1 | pt/a | PRE | A | 19.1 a | 223 a | 0 b | 0 a | 0 a | 0 a |
| 7 | IMPACT | 2.8 | SC | 0.0109 lb ai/a | 0.5 | fl oz/a | 4-6"W | D | | | | | | |
| 7 | ROUNDUP P-MAX | 4.5 | SL | 0.77 lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | |
| 7 | N-PAK AMS | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | |
| 8 | HARNES | 7 | EC | 0.875 lb ai/a | 1 | pt/a | PRE | A | 19.5 a | 219 a | 0 b | 0 a | 0 a | 0 a |
| 8 | IMPACT | 2.8 | SC | 0.0219 lb ai/a | 1 | fl oz/a | 4-6"W | D | | | | | | |
| 8 | ROUNDUP P-MAX | 4.5 | SL | 0.56 lb ae/a | 16 | fl oz/a | 4-6"W | D | | | | | | |
| 8 | N-PAK AMS | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | |
| 9 | HARNES | 7 | EC | 0.875 lb ai/a | 1 | pt/a | PRE | A | 19.2 a | 217 ab | 0 b | 0 a | 0 a | 0 a |
| 9 | ROUNDUP P-MAX | 4.5 | SL | 0.77 lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | |
| 9 | N-PAK AMS | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | |
| 10 | IMPACT | 2.8 | SC | 0.0164 lb ai/a | 0.75 | fl oz/a | 2-4"W-1 | B | 19.5 a | 210 ab | 1 b | 0 a | 0 a | 0 a |
| 10 | AATREX | 4 | SC | 0.5 lb ai/a | 1 | pt/a | 2-4"W-1 | B | | | | | | |
| 10 | DESTINY MSO | 100 | SL | 1 % v/v | 1 | % v/v | 2-4"W-1 | B | | | | | | |
| 10 | 28% UAN | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 2-4"W-1 | B | | | | | | |
| 11 | LAUDIS | 3.5 | SC | 0.082 lb ai/a | 3 | fl oz/a | 2-4"W-1 | B | 19.4 a | 208 ab | 0 b | 0 a | 0 a | 0 a |
| 11 | AATREX | 4 | SC | 0.5 lb ai/a | 1 | pt/a | 2-4"W-1 | B | | | | | | |
| 11 | PRIME OIL COC | 100 | SL | 1 % v/v | 1 | % v/v | 2-4"W-1 | B | | | | | | |
| 11 | 28% UAN | 100 | SL | 2.5 % v/v | 2.5 | % v/v | 2-4"W-1 | B | | | | | | |
| LSD (P=.05) | | | | | | | | | 0.82 | 18.3 | 1.6 | 0.0 | 0.0 | 0.0 |
| Replicate F | | | | | | | | | 0.831 | 0.862 | 0.881 | 0.000 | 0.000 | 0.000 |
| Replicate Prob(F) | | | | | | | | | 0.4875 | 0.4713 | 0.4619 | 1.0000 | 1.0000 | 1.0000 |
| Treatment F | | | | | | | | | 0.732 | 7.624 | 3.950 | 0.000 | 0.000 | 0.000 |
| Treatment Prob(F) | | | | | | | | | 0.6891 | 0.0001 | 0.0017 | 1.0000 | 1.0000 | 1.0000 |

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

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Trial ID: 08-1-MMW50 Location: Belleville Res. Center

| Pest Code | | CROP CODE | | RATING DATE | | RATING DATA TYPE | | RATING UNIT | | RATING TIMING | | TRT-EVAL INTERVAL | | PANDI | PANDI | PANDI | SETFA | SETFA | SETFA | AMBTR | AMBTR | AMBTR |
|-------------------|----------------|-----------|-----------|-------------|-----------|------------------|-----------------|--------------|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------|
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | Control Percent 14 DAT | Control Percent 28 DAT | Control Percent 56 DAT | Control Percent 14 DAT | Control Percent 28 DAT | Control Percent 56 DAT | Control Percent 14 DAT | Control Percent 28 DAT | Control Percent 56 DAT | Control Percent 14 DAT | Control Percent 28 DAT | Control Percent 56 DAT | |
| 1 | NONTREATED | | | | | | | | | 0 e | 0 e | 0 e | 0 e | 0 f | 0 e | 0 c | 0 d | 0 d | | | | |
| 2 | BICEP II MAG | 5.5 | SC | 1.44 | lb ai/a | 2.1 | pt/a | PRE | A | 28 d | 23 d | 25 d | 97 cd | 95 e | 91 d | 43 b | 33 c | 33 c | | | | |
| 3 | BICEP II MAG | 5.5 | SC | 1.44 | lb ai/a | 2.1 | pt/a | PRE | A | 79 b | 74 b | 81 b | 99 ab | 97 bc | 98 ab | 98 a | 94 ab | 97 ab | | | | |
| 3 | IMPACT | 2.8 | SC | 0.0164 | lb ai/a | 0.75 | fl oz/a | 2-4"W-2 | C | | | | | | | | | | | | | |
| 3 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | | | | | | | | |
| 3 | DESTINY MSO | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | | | | | | | | |
| 3 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | | | | | | | | |
| 4 | BICEP II MAG | 5.5 | SC | 1.44 | lb ai/a | 2.1 | pt/a | PRE | A | 35 d | 35 cd | 38 cd | 97 cd | 97 cd | 97 bc | 99 a | 99 a | 99 a | | | | |
| 4 | CALLISTO | 4 | SC | 0.094 | lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | | | | | | | | | | |
| 4 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | | | | | | | | |
| 4 | PRIME OIL COC | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | | | | | | | | |
| 4 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | | | | | | | | |
| 5 | BICEP II MAG | 5.5 | SC | 1.44 | lb ai/a | 2.1 | pt/a | PRE | A | 50 c | 45 c | 40 c | 97 d | 95 de | 96 c | 99 a | 95 ab | 97 ab | | | | |
| 5 | LAUDIS | 3.5 | SC | 0.082 | lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | | | | | | | | | | |
| 5 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | | | | | | | | |
| 5 | PRIME OIL COC | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | | | | | | | | |
| 5 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | | | | | | | | |
| 6 | HARNES | 7 | EC | 0.875 | lb ai/a | 1 | pt/a | PRE | A | 97 a | 97 a | 97 a | 99 a | 99 ab | 99 a | 98 a | 96 ab | 97 ab | | | | |
| 6 | IMPACT | 2.8 | SC | 0.0109 | lb ai/a | 0.5 | fl oz/a | 4-6"W | D | | | | | | | | | | | | | |
| 6 | ROUNDUP P-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | | | | | | | | |
| 6 | AATREX | 4 | SC | 0.75 | lb ai/a | 1.5 | pt/a | 4-6"W | D | | | | | | | | | | | | | |
| 6 | N-PAK AMS | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | | | | | | | | |
| 7 | HARNES | 7 | EC | 0.875 | lb ai/a | 1 | pt/a | PRE | A | 97 a | 97 a | 98 a | 99 a | 99 a | 99 a | 97 a | 93 ab | 94 ab | | | | |
| 7 | IMPACT | 2.8 | SC | 0.0109 | lb ai/a | 0.5 | fl oz/a | 4-6"W | D | | | | | | | | | | | | | |
| 7 | ROUNDUP P-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | | | | | | | | |
| 7 | N-PAK AMS | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | | | | | | | | |
| 8 | HARNES | 7 | EC | 0.875 | lb ai/a | 1 | pt/a | PRE | A | 97 a | 97 a | 98 a | 99 a | 99 a | 99 a | 98 a | 96 ab | 97 ab | | | | |
| 8 | IMPACT | 2.8 | SC | 0.0219 | lb ai/a | 1 | fl oz/a | 4-6"W | D | | | | | | | | | | | | | |
| 8 | ROUNDUP P-MAX | 4.5 | SL | 0.56 | lb ae/a | 16 | fl oz/a | 4-6"W | D | | | | | | | | | | | | | |
| 8 | N-PAK AMS | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | | | | | | | | |
| 9 | HARNES | 7 | EC | 0.875 | lb ai/a | 1 | pt/a | PRE | A | 97 a | 98 a | 98 a | 99 a | 99 ab | 99 a | 98 a | 92 b | 93 ab | | | | |
| 9 | ROUNDUP P-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | | | | | | | | |
| 9 | N-PAK AMS | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | | | | | | | | |
| 10 | IMPACT | 2.8 | SC | 0.0164 | lb ai/a | 0.75 | fl oz/a | 2-4"W-1 | B | 58 c | 46 c | 45 c | 97 d | 94 e | 95 c | 99 a | 95 ab | 96 ab | | | | |
| 10 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-1 | B | | | | | | | | | | | | | |
| 10 | DESTINY MSO | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-1 | B | | | | | | | | | | | | | |
| 10 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-1 | B | | | | | | | | | | | | | |
| 11 | LAUDIS | 3.5 | SC | 0.082 | lb ai/a | 3 | fl oz/a | 2-4"W-1 | B | 23 d | 3 e | 3 e | 98 bc | 95 de | 96 c | 99 a | 99 a | 74 b | | | | |
| 11 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-1 | B | | | | | | | | | | | | | |
| 11 | PRIME OIL COC | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-1 | B | | | | | | | | | | | | | |
| 11 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-1 | B | | | | | | | | | | | | | |
| LSD (P=.05) | | | | | | | | | | 13.9 | 15.6 | 14.8 | 0.9 | 2.0 | 2.0 | 6.7 | 6.4 | 23.2 | | | | |
| Replicate F | | | | | | | | | | 1.060 | 1.365 | 1.908 | 0.399 | 0.045 | 0.726 | 0.702 | 2.888 | 0.350 | | | | |
| Replicate Prob(F) | | | | | | | | | | 0.3808 | 0.2722 | 0.1496 | 0.7546 | 0.9872 | 0.5442 | 0.5581 | 0.0518 | 0.7894 | | | | |
| Treatment F | | | | | | | | | | 54.652 | 50.672 | 57.751 | 9680.850 | 1830.779 | 1754.445 | 194.357 | 218.288 | 16.783 | | | | |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | | | | |

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

Impact Sequential Programs in Corn.

Trial ID: 08-1-MMW50 Location: Belleville Res. Center

| Pest Code | | ABUTH | | | | | | AMATA | | | | | | | |
|-------------------|----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|---------|----------|--------|---------|---------|---------|
| Crop Code | | ABUTH | | ABUTH | | AMATA | | AMATA | | AMATA | | | | | |
| Rating Date | | Control | | Control | | Control | | Control | | Control | | | | | |
| Rating Data Type | | Percent | | Percent | | Percent | | Percent | | Percent | | | | | |
| Rating Unit | | 14 DAT | | 28 DAT | | 56 DAT | | 14 DAT | | 28 DAT | | | | | |
| Rating Timing | | 14 DAT | | 28 DAT | | 56 DAT | | 14 DAT | | 28 DAT | | | | | |
| Trt-Eval Interval | | 14 DAT | | 28 DAT | | 56 DAT | | 14 DAT | | 28 DAT | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | | | | | | |
| 1 | NONTREATED | | | | | | | | | 0 d | 0 e | 0 c | 0 c | 0 c | 0 c |
| 2 | BICEP II MAG | 5.5 | SC | 1.44 | lb ai/a | 2.1 | pt/a | PRE | A | 8 c | 0 e | 0 c | 93 b | 92 b | 89 b |
| 3 | BICEP II MAG | 5.5 | SC | 1.44 | lb ai/a | 2.1 | pt/a | PRE | A | 98 ab | 91 c | 95 ab | 99 a | 97 a | 97 a |
| 3 | IMPACT | 2.8 | SC | 0.0164 | lb ai/a | 0.75 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 3 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | |
| 3 | DESTINY MSO | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | |
| 3 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | |
| 4 | BICEP II MAG | 5.5 | SC | 1.44 | lb ai/a | 2.1 | pt/a | PRE | A | 99 a | 99 a | 99 a | 99 a | 99 a | 99 a |
| 4 | CALLISTO | 4 | SC | 0.094 | lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 4 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | |
| 4 | PRIME OIL COC | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | |
| 4 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | |
| 5 | BICEP II MAG | 5.5 | SC | 1.44 | lb ai/a | 2.1 | pt/a | PRE | A | 99 a | 98 a | 98 a | 99 a | 99 a | 99 a |
| 5 | LAUDIS | 3.5 | SC | 0.082 | lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 5 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-2 | C | | | | | | |
| 5 | PRIME OIL COC | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-2 | C | | | | | | |
| 5 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-2 | C | | | | | | |
| 6 | HARNES | 7 | EC | 0.875 | lb ai/a | 1 | pt/a | PRE | A | 99 a | 99 a | 99 a | 99 a | 99 a | 99 a |
| 6 | IMPACT | 2.8 | SC | 0.0109 | lb ai/a | 0.5 | fl oz/a | 4-6"W | D | | | | | | |
| 6 | ROUNDUP P-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | |
| 6 | AATREX | 4 | SC | 0.75 | lb ai/a | 1.5 | pt/a | 4-6"W | D | | | | | | |
| 6 | N-PAK AMS | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | |
| 7 | HARNES | 7 | EC | 0.875 | lb ai/a | 1 | pt/a | PRE | A | 94 ab | 95 b | 98 a | 99 a | 99 a | 98 a |
| 7 | IMPACT | 2.8 | SC | 0.0109 | lb ai/a | 0.5 | fl oz/a | 4-6"W | D | | | | | | |
| 7 | ROUNDUP P-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | |
| 7 | N-PAK AMS | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | |
| 8 | HARNES | 7 | EC | 0.875 | lb ai/a | 1 | pt/a | PRE | A | 93 ab | 93 bc | 97 a | 99 a | 99 a | 99 a |
| 8 | IMPACT | 2.8 | SC | 0.0219 | lb ai/a | 1 | fl oz/a | 4-6"W | D | | | | | | |
| 8 | ROUNDUP P-MAX | 4.5 | SL | 0.56 | lb ae/a | 16 | fl oz/a | 4-6"W | D | | | | | | |
| 8 | N-PAK AMS | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | |
| 9 | HARNES | 7 | EC | 0.875 | lb ai/a | 1 | pt/a | PRE | A | 91 b | 89 d | 91 ab | 99 a | 99 a | 99 a |
| 9 | ROUNDUP P-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | D | | | | | | |
| 9 | N-PAK AMS | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 4-6"W | D | | | | | | |
| 10 | IMPACT | 2.8 | SC | 0.0164 | lb ai/a | 0.75 | fl oz/a | 2-4"W-1 | B | 99 a | 94 b | 96 a | 99 a | 98 a | 98 a |
| 10 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-1 | B | | | | | | |
| 10 | DESTINY MSO | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-1 | B | | | | | | |
| 10 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-1 | B | | | | | | |
| 11 | LAUDIS | 3.5 | SC | 0.082 | lb ai/a | 3 | fl oz/a | 2-4"W-1 | B | 99 a | 99 a | 74 b | 99 a | 99 a | 99 a |
| 11 | AATREX | 4 | SC | 0.5 | lb ai/a | 1 | pt/a | 2-4"W-1 | B | | | | | | |
| 11 | PRIME OIL COC | 100 | SL | 1 | % v/v | 1 | % v/v | 2-4"W-1 | B | | | | | | |
| 11 | 28% UAN | 100 | SL | 2.5 | % v/v | 2.5 | % v/v | 2-4"W-1 | B | | | | | | |
| LSD (P=.05) | | | | | | | | | | 7.1 | 2.4 | 21.7 | 2.8 | 3.0 | 3.0 |
| Replicate F | | | | | | | | | | 0.240 | 1.872 | 0.875 | 1.030 | 1.360 | 1.430 |
| Replicate Prob(F) | | | | | | | | | | 0.8679 | 0.1556 | 0.4651 | 0.3932 | 0.2738 | 0.2535 |
| Treatment F | | | | | | | | | | 239.086 | 2110.556 | 26.473 | 916.839 | 830.912 | 796.523 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

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

Trial Comments

1. Protocol: AMVAC.
2. Ratings: CI at 7 DA POST; CI/WC at 14, 28 + 56 DA POST.
3. Yield.
4. DA-B = Days after 2-4"W-1 and 2-4"W-2 applications (applied the same day). DA-D = Days after 4-6"W application.

Impact Sequential Programs in Corn.

Trial ID: 08-1-MMW50

Location: Belleville Res. Center

DAT = Days after the 2-4"W-1, 2-4"W-2, or 4-6"W application.

Ratings at 14 days after the 2-4"W-1 or 2-4"W-2, and 4-6"W application were on 7-16-08 and 7-21-08, respectively.

Ratings at 28 days after the 2-4"W-1 or 2-4"W-2, and 4-6"W application were on 7-30-08 and 8-4-08, respectively.

Ratings at 56 days after the 2-4"W-1 or 2-4"W-2, and 4-6"W application were on 8-27-08 and 9-1-08, respectively.

5. At the Belleville Research Center the above normal rainfall in spring 2008 (no more than four consecutive rain-free days between March 22 and June 15) delayed corn and soybean planting until mid-June.
6. Following the PRE application on June 15, rainfall was 0.29 inch 5 days later and 0.35 inch 12 days later.
7. Harvested 11-18-08, (2) 30 inch rows by 25 ft.