

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final Updated: 11-22-06

Objective:

Evaluate weed management systems in Roundup Ready corn including preemergence followed by postemergence and total postemergence programs.

| Weed Code | Common Name | Scientific Name |
|-----------|-----------------------------|------------------------------|
| 1. | SETFA foxtail, giant | Setaria faberi Herrm. |
| 2. | XANST cocklebur, common | Xanthium strumarium L. |
| 3. | ABUTH velvetleaf | Abutilon theophrasti Medicus |
| 4. | IPOHE morningglory, ivyleaf | Ipomoea hederacea (L.) Jacq. |

Crop 1: ZEAMX corn, field Variety: 33K44
Planting Method: Seeded Planting Date: 5-20-06
Rate: 28000 S/A Depth: 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 25 FT Reps: 3
Tillage Type: Reduced-Till Study Design: Randomized complete block
Previous Crop, Year: GLXMA, 2005
Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 0 LB/A

Soil Name: Rushville % OM: 1.6 pH: 6.9 CEC: 8
Texture: Silt loam Fert. Level: P1: 89 LB/A, K: 467 LB/A

APPLICATION DESCRIPTION

| | A | B | C | D | E |
|----------------------|---------|----------|---------|---------|---------|
| Application Date: | 5-20-06 | 6-6-06 | 6-13-06 | 5-31-06 | 6-9-06 |
| Time of Day: | 12:00 | 9:30 | 13:00 | 9:00 | 11:00 |
| Application Method: | Spray | Spray | Spray | Spray | Spray |
| Application Timing: | PRE | 2-4"W-1 | 2-4"W-2 | 4"CN | 12"CN |
| Applic. Placement: | BROSOI | BROFOL | BROFOL | BROFOL | BROFOL |
| Air Temp., Unit: | 72 F | 70 F | 76 F | 76 F | 88 F |
| % Relative Humidity: | 60 | 70 | 54 | 90 | 64 |
| Wind Velocity, Unit: | 2-3 MPH | 8-10 MPH | 6-7 MPH | 2-3 MPH | 2-3 MPH |
| Soil Moisture: | NORMAL | NORMAL | NORMAL | NORMAL | NORMAL |

CROP STAGE AT EACH APPLICATION

| | A | B | C | D | E |
|---------------------|----------|----------|----------|----------|----------|
| Crop 1 Code, Stage: | ZEAMX NA | ZEAMX V4 | ZEAMX V4 | ZEAMX V2 | ZEAMX V4 |
| Height, Unit: | NA NA | 7 IN | 14 IN | 4-6 IN | 12 IN |

WEED STAGE AT EACH APPLICATION

| | A | B | C | D | E |
|------------------|--------|--------|--------|--------|--------|
| Weed 1 Code: | SETFA | SETFA | SETFA | SETFA | SETFA |
| Stage (leaves): | 3-4 | 3-4 | 2-3 | 2-3 | 2-3 |
| Height (inches): | 2-3 | 4-5 | 0-1 | 0-1 | 0-1 |
| Density: | Medium | Medium | Low | Low | Low |
| Weed 2 Code: | XANST | XANST | XANST | XANST | XANST |
| Stage (leaves): | 6-8 | 8-10 | 4-6 | 4-6 | 4-6 |
| Height (inches): | 2-4 | 4-5 | 1-2 | 1-3 | 1-3 |
| Density: | Medium | Medium | High | Medium | Medium |
| Weed 3 Code: | ABUTH | ABUTH | ABUTH | ABUTH | ABUTH |
| Stage (leaves): | 2-3 | 3-4 | 2-4 | 2-4 | 2-4 |
| Height (inches): | 2-3 | 3-4 | 0-1 | 0-2 | 0-2 |
| Density: | Low | Low | Medium | Low | Low |
| Weed 4 Code: | IPOHE | IPOHE | IPOHE | IPOHE | IPOHE |
| Stage (leaves): | 4-6 | 3-4 | 2-4 | 2-4 | 2-4 |
| Height (inches): | 1-2 | 2-3 | 0-1 | 0-2 | 0-2 |
| Density: | Low | Low | Low | Low | Low |

APPLICATION EQUIPMENT

| | A | B | C | D | E |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| Appl. Equipment: | CO2 sprayer | CO2 sprayer | CO2 sprayer | CO2 sprayer | CO2 sprayer |
| Operating Pressure: | 40 PSI | 40 PSI | 40 PSI | 40 PSI | 40 PSI |
| Nozzle Type: | Flat fan | Flat fan | Flat fan | Flat fan | Flat fan |
| Nozzle Size: | 8003 | 8002 | 8002 | 8002 | 8002 |
| Boom Length, Unit: | 7.5 FT | 7.5 FT | 7.5 FT | 7.5 FT | 7.5 FT |
| Spray Volume, Unit: | 20 GPA | 20 GPA | 20 GPA | 20 GPA | 20 GPA |

NOTES:

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | ZEAMX | ZEAMX | SETFA | SETFA | SETFA | SETFA |
|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|---------------------------|---------------------|------------------------|-------------------------|-------------------------|-------------------------|
| | | | | | | | | | | Moisture Percent 10-10-06 | Yield bu/A 10-10-06 | Control Percent 0 DAPO | Control Percent 14 DAPO | Control Percent 28 DAPO | Control Percent 56 DAPO |
| 1 | NONTREATED | | | | | | | | | 15.1 | 18 | 0 | 0 | 0 | 0 |
| 2 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | PRE | A | 16.0 | 144 | 99 | 99 | 99 | 99 |
| 2 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 2 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | | | |
| 3 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | 2-4"W-1 | B | 15.3 | 131 | | 99 | 99 | 99 |
| 3 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | | | |
| 3 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | | | |
| 4 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | PRE | A | 15.7 | 158 | 99 | 99 | 99 | 99 |
| 4 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 4 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | | | |
| 5 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | 2-4"W-1 | B | 15.6 | 108 | | 99 | 99 | 99 |
| 5 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | | | |
| 5 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | | | |
| 6 | KEYSTONE | 5.25 | L | 1.97 | lb ai/a | 1.5 | qt/a | PRE | A | 15.7 | 153 | 99 | 99 | 99 | 99 |
| 6 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 6 | AMS | 100 | DRY | 2.0 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | | | |
| 7 | GF-1834 | 4.07 | EW | 0.89 | lb ai/a | 1.75 | pt/a | PRE | A | 16.0 | 140 | 98 | 99 | 99 | 99 |
| 7 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 7 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | | | |
| 8 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | PRE | A | 15.8 | 147 | 88 | 94 | 95 | 97 |
| 8 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | | | |
| 8 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 8 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | | | |
| 9 | SURPASS | 6.4 | EC | 1.04 | lb ai/a | 1.3 | pt/a | PRE | A | 16.0 | 131 | 98 | 99 | 99 | 99 |
| 9 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 9 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | | | |
| 10 | FULTIME | 4 | SC | 1.65 | lb ai/a | 1.65 | qt/a | 2-4"W-1 | B | 15.5 | 122 | | 99 | 99 | 99 |
| 10 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | | | |
| 10 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | | | |
| 11 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | 2-4"W-1 | B | 15.7 | 134 | | 96 | 96 | 96 |
| 11 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | | | |
| 11 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | | | |
| 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 15.8 | 140 | 98 | 99 | 99 | 99 |
| 12 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | | | |
| 12 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | | | | | |
| 12 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | | | |
| 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | | | |
| 12 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | | | |
| 13 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | 15.5 | 129 | | 99 | 99 | 99 |
| 13 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | | | |
| 13 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | | | |
| 13 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | | | |
| 14 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | 15.6 | 132 | | 99 | 98 | 98 |
| 14 | PROWL H2O | 3.8 | CS | 1.19 | lb ai/a | 2.5 | pt/a | 4"CN | D | | | | | | |
| 14 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | | | |
| 15 | GUARDSMAN MAX | 5 | L | 1.25 | lb ai/a | 2 | pt/a | PRE | A | 15.7 | 131 | 98 | 99 | 99 | 99 |
| 15 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 12"CN | E | | | | | | |
| 15 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 12"CN | E | | | | | | |
| 15 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 12"CN | E | | | | | | |
| 15 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 12"CN | E | | | | | | |
| 16 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 16.1 | 137 | 98 | 98 | 98 | 99 |
| 16 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | | | |
| 16 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 16 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | | | |
| 16 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | | | |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

ZEAMX ZEAMX SETFA SETFA SETFA SETFA
 Moisture Yield Control Control Control Control
 Percent bu/A Percent Percent Percent Percent
 10-10-06 10-10-06
 0 DAPO 14 DAPO 28 DAPO 56 DAPO

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | ZEAMX Moisture Percent | ZEAMX Yield bu/A | SETFA Control Percent | SETFA Control Percent | SETFA Control Percent | SETFA Control Percent |
|-------------------|----------------|-----------|-----------|-------|-----------|-----------|-----------|----------|-----------|------------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 17 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 15.7 | 132 | 98 | 93 | 98 | 99 |
| 17 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | | | |
| 17 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 17 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 2-4"W-2 | C | | | | | | |
| 17 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | | | |
| 17 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | | | |
| 18 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 15.9 | 147 | 97 | 98 | 99 | 99 |
| 18 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | | | |
| 18 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 18 | CALLISTO | 4 | SC | 0.094 | lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | | | |
| 18 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | | | |
| 18 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | | | |
| LSD (P=.05) | | | | | | | | | | 0.86 | 47.6 | 1.7 | 3.2 | 2.4 | 2.2 |
| Replicate F | | | | | | | | | | 0.992 | 13.176 | 0.971 | 2.476 | 4.151 | 3.176 |
| Replicate Prob(F) | | | | | | | | | | 0.3813 | 0.0001 | 0.3942 | 0.0991 | 0.0244 | 0.0544 |
| Treatment F | | | | | | | | | | 0.701 | 3.335 | 2266.910 | 423.999 | 748.011 | 962.718 |
| Treatment Prob(F) | | | | | | | | | | 0.7796 | 0.0014 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

| | | | | |
|-------------------|---------|---------|---------|---------|
| Weed Code | XANST | XANST | XANST | XANST |
| Crop Code | | | | |
| Rating Data Type | Control | Control | Control | Control |
| Rating Unit | Percent | Percent | Percent | Percent |
| Rating Date | | | | |
| Trt-Eval Interval | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | | | | |
|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|----|----|----|----|
| 1 | NONTREATED | | | | | | | | | 0 | 0 | 0 | 0 |
| 2 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | PRE | A | 87 | 93 | 95 | 97 |
| 2 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | |
| 2 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 3 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | 2-4"W-1 | B | | 93 | 92 | 96 |
| 3 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | |
| 3 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | |
| 4 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | PRE | A | 92 | 90 | 97 | 98 |
| 4 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | |
| 4 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 5 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | 2-4"W-1 | B | | 98 | 95 | 97 |
| 5 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | |
| 5 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | |
| 6 | KEYSTONE | 5.25 | L | 1.97 | lb ai/a | 1.5 | qt/a | PRE | A | 85 | 93 | 94 | 96 |
| 6 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 6 | AMS | 100 | DRY | 2.0 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 7 | GF-1834 | 4.07 | EW | 0.89 | lb ai/a | 1.75 | pt/a | PRE | A | 85 | 93 | 92 | 95 |
| 7 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 7 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 8 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | PRE | A | 96 | 93 | 95 | 97 |
| 8 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 8 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 8 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 9 | SURPASS | 6.4 | EC | 1.04 | lb ai/a | 1.3 | pt/a | PRE | A | 7 | 92 | 94 | 94 |
| 9 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 9 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 10 | FULTIME | 4 | SC | 1.65 | lb ai/a | 1.65 | qt/a | 2-4"W-1 | B | | 97 | 85 | 90 |
| 10 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | |
| 10 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | |
| 11 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | 2-4"W-1 | B | | 99 | 96 | 96 |
| 11 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | |
| 11 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | |
| 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 77 | 95 | 77 | 83 |
| 12 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 12 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | | | |
| 12 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | |
| 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 12 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 13 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | 96 | 90 | 93 |
| 13 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | |
| 13 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 13 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 14 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | 94 | 85 | 88 |
| 14 | PROWL H2O | 3.8 | CS | 1.19 | lb ai/a | 2.5 | pt/a | 4"CN | D | | | | |
| 14 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 15 | GUARDSMAN MAX | 5 | L | 1.25 | lb ai/a | 2 | pt/a | PRE | A | 80 | 90 | 92 | 95 |
| 15 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 12"CN | E | | | | |
| 15 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 12"CN | E | | | | |
| 15 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 12"CN | E | | | | |
| 15 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 12"CN | E | | | | |
| 16 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 90 | 95 | 95 | 97 |
| 16 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 16 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 16 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 16 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

| | | | | |
|-------------------|---------|---------|---------|---------|
| Weed Code | XANST | XANST | XANST | XANST |
| Crop Code | | | | |
| Rating Data Type | Control | Control | Control | Control |
| Rating Unit | Percent | Percent | Percent | Percent |
| Rating Date | | | | |
| Trt-Eval Interval | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | | | | |
|-------------------|----------------|-----------|-----------|-------|-----------|-----------|-----------|----------|-----------|--------|---------|---------|---------|
| 17 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 92 | 94 | 97 | 98 |
| 17 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 17 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 17 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 2-4"W-2 | C | | | | |
| 17 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 17 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |
| 18 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 93 | 93 | 94 | 97 |
| 18 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 18 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 18 | CALLISTO | 4 | SC | 0.094 | lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | |
| 18 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 18 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |
| LSD (P=.05) | | | | | | | | | | 9.8 | 5.1 | 6.1 | 5.2 |
| Replicate F | | | | | | | | | | 1.036 | 1.264 | 3.481 | 0.974 |
| Replicate Prob(F) | | | | | | | | | | 0.3715 | 0.2954 | 0.0421 | 0.3879 |
| Treatment F | | | | | | | | | | 99.300 | 162.159 | 111.389 | 157.605 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | ABUTH | ABUTH | ABUTH | ABUTH |
|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | Control Percent | Control Percent | Control Percent | Control Percent |
| | | | | | | | | | | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |
| 1 | NONTREATED | | | | | | | | | 0 | 0 | 0 | 0 |
| 2 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | PRE | A | 94 | 92 | 96 | 98 |
| 2 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | |
| 2 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 3 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | 2-4"W-1 | B | | 99 | 95 | 98 |
| 3 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | |
| 3 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | |
| 4 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | PRE | A | 94 | 93 | 96 | 98 |
| 4 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | |
| 4 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 5 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | 2-4"W-1 | B | | 98 | 97 | 98 |
| 5 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | |
| 5 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | |
| 6 | KEYSTONE | 5.25 | L | 1.97 | lb ai/a | 1.5 | qt/a | PRE | A | 87 | 93 | 94 | 98 |
| 6 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 6 | AMS | 100 | DRY | 2.0 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 7 | GF-1834 | 4.07 | EW | 0.89 | lb ai/a | 1.75 | pt/a | PRE | A | 83 | 90 | 92 | 96 |
| 7 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 7 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 8 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | PRE | A | 98 | 92 | 94 | 95 |
| 8 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 8 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 8 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 9 | SURPASS | 6.4 | EC | 1.04 | lb ai/a | 1.3 | pt/a | PRE | A | 7 | 83 | 92 | 95 |
| 9 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 9 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 10 | FULTIME | 4 | SC | 1.65 | lb ai/a | 1.65 | qt/a | 2-4"W-1 | B | | 96 | 92 | 97 |
| 10 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | |
| 10 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | |
| 11 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | 2-4"W-1 | B | | 97 | 97 | 97 |
| 11 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | |
| 11 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | |
| 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 96 | 99 | 93 | 97 |
| 12 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 12 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | | | |
| 12 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | |
| 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 12 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 13 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | 99 | 90 | 93 |
| 13 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | |
| 13 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 13 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 14 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | 98 | 92 | 96 |
| 14 | PROWL H2O | 3.8 | CS | 1.19 | lb ai/a | 2.5 | pt/a | 4"CN | D | | | | |
| 14 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 15 | GUARDSMAN MAX | 5 | L | 1.25 | lb ai/a | 2 | pt/a | PRE | A | 96 | 92 | 93 | 97 |
| 15 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 12"CN | E | | | | |
| 15 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 12"CN | E | | | | |
| 15 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 12"CN | E | | | | |
| 15 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 12"CN | E | | | | |
| 16 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 96 | 93 | 95 | 97 |
| 16 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 16 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 16 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 16 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

| | | | | |
|-------------------|---------|---------|---------|---------|
| Weed Code | ABUTH | ABUTH | ABUTH | ABUTH |
| Crop Code | | | | |
| Rating Data Type | Control | Control | Control | Control |
| Rating Unit | Percent | Percent | Percent | Percent |
| Rating Date | | | | |
| Trt-Eval Interval | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |
|-------------------|----------------|-----------|-----------|-------|-----------|-----------|-----------|----------|-----------|---------|---------|---------|---------|
| 17 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 94 | 98 | 98 | 99 |
| 17 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 17 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 17 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 2-4"W-2 | C | | | | |
| 17 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 17 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |
| 18 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 92 | 98 | 98 | 99 |
| 18 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 18 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 18 | CALLISTO | 4 | SC | 0.094 | lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | |
| 18 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 18 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |
| LSD (P=.05) | | | | | | | | | | 8.0 | 5.4 | 4.7 | 3.1 |
| Replicate F | | | | | | | | | | 1.066 | 0.640 | 0.615 | 5.828 |
| Replicate Prob(F) | | | | | | | | | | 0.3615 | 0.5337 | 0.5464 | 0.0067 |
| Treatment F | | | | | | | | | | 168.468 | 147.822 | 192.667 | 469.395 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

| Weed Code | Crop Code | Rating Data Type | Rating Unit | Rating Date | Trt-Eval Interval | Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | IPOHE | IPOHE | IPOHE | IPOHE |
|-----------|-----------|------------------|-------------|-------------|-------------------|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | | | | | | | Control Percent | Control Percent | Control Percent | Control Percent |
| | | | | | | | | | | | | | | | | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |
| | | | | | | 1 | NONTREATED | | | | | | | | | 0 | 0 | 0 | 0 |
| | | | | | | 2 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | PRE | A | 96 | 93 | 94 | 96 |
| | | | | | | 2 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | |
| | | | | | | 2 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| | | | | | | 3 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | 2-4"W-1 | B | | 94 | 93 | 95 |
| | | | | | | 3 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | |
| | | | | | | 3 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | |
| | | | | | | 4 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | PRE | A | 97 | 94 | 97 | 98 |
| | | | | | | 4 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | |
| | | | | | | 4 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| | | | | | | 5 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | 2-4"W-1 | B | | 96 | 96 | 97 |
| | | | | | | 5 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | |
| | | | | | | 5 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | |
| | | | | | | 6 | KEYSTONE | 5.25 | L | 1.97 | lb ai/a | 1.5 | qt/a | PRE | A | 93 | 94 | 96 | 99 |
| | | | | | | 6 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| | | | | | | 6 | AMS | 100 | DRY | 2.0 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| | | | | | | 7 | GF-1834 | 4.07 | EW | 0.89 | lb ai/a | 1.75 | pt/a | PRE | A | 87 | 85 | 88 | 91 |
| | | | | | | 7 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| | | | | | | 7 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| | | | | | | 8 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | PRE | A | 96 | 95 | 95 | 97 |
| | | | | | | 8 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| | | | | | | 8 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| | | | | | | 8 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| | | | | | | 9 | SURPASS | 6.4 | EC | 1.04 | lb ai/a | 1.3 | pt/a | PRE | A | 32 | 80 | 87 | 90 |
| | | | | | | 9 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| | | | | | | 9 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| | | | | | | 10 | FULTIME | 4 | SC | 1.65 | lb ai/a | 1.65 | qt/a | 2-4"W-1 | B | | 93 | 90 | 95 |
| | | | | | | 10 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | |
| | | | | | | 10 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | |
| | | | | | | 11 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | 2-4"W-1 | B | | 92 | 93 | 93 |
| | | | | | | 11 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | |
| | | | | | | 11 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | |
| | | | | | | 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 98 | 98 | 94 | 95 |
| | | | | | | 12 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| | | | | | | 12 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | | | |
| | | | | | | 12 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | |
| | | | | | | 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| | | | | | | 12 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| | | | | | | 12 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| | | | | | | 13 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | 96 | 94 | 95 |
| | | | | | | 13 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | |
| | | | | | | 13 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| | | | | | | 13 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| | | | | | | 13 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| | | | | | | 14 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | 98 | 93 | 97 |
| | | | | | | 14 | PROWL H2O | 3.8 | CS | 1.19 | lb ai/a | 2.5 | pt/a | 4"CN | D | | | | |
| | | | | | | 14 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| | | | | | | 14 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| | | | | | | 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| | | | | | | 15 | GUARDSMAN MAX | 5 | L | 1.25 | lb ai/a | 2 | pt/a | PRE | A | 93 | 95 | 95 | 97 |
| | | | | | | 15 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 12"CN | E | | | | |
| | | | | | | 15 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 12"CN | E | | | | |
| | | | | | | 15 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 12"CN | E | | | | |
| | | | | | | 15 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 12"CN | E | | | | |
| | | | | | | 16 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 99 | 93 | 95 | 96 |
| | | | | | | 16 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| | | | | | | 16 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| | | | | | | 16 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| | | | | | | 16 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

| | | | | | | | | | IPOHE | IPOHE | IPOHE | IPOHE |
|-------------------|--------------|------|------|---------------|------|---------|---------|------|---------|---------|---------|---------|
| | | | | | | | | | Control | Control | Control | Control |
| | | | | | | | | | Percent | Percent | Percent | Percent |
| | | | | | | | | | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |
| Trt | Treatment | Form | Form | Rate | Prod | Prod | Grow | Appl | | | | |
| No. | Name | Conc | Type | Unit | Rate | Unit | Stg | Code | | | | |
| 17 | AATREX | 90 | WG | 1.0 lb ai/a | 1.11 | lb/a | PRE | A | 92 | 98 | 98 | 99 |
| 17 | PRINCEP | 90 | WG | 1.0 lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 17 | CORNERSTONE | 3 | SL | 0.56 lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 17 | AATREX | 90 | WG | 1.0 lb ai/a | 1.11 | lb/a | 2-4"W-2 | C | | | | |
| 17 | ACTIVATOR 90 | 100 | LIQ | 0.25 % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 17 | AMS | 100 | DRY | 2.5 lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |
| 18 | AATREX | 90 | WG | 1.0 lb ai/a | 1.11 | lb/a | PRE | A | 98 | 98 | 98 | 99 |
| 18 | PRINCEP | 90 | WG | 1.0 lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 18 | CORNERSTONE | 3 | SL | 0.56 lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 18 | CALLISTO | 4 | SC | 0.094 lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | |
| 18 | ACTIVATOR 90 | 100 | LIQ | 0.25 % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 18 | AMS | 100 | DRY | 2.5 lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |
| LSD (P=.05) | | | | | | | | | 4.7 | 8.1 | 7.2 | 5.9 |
| Replicate F | | | | | | | | | 2.363 | 0.101 | 1.325 | 3.840 |
| Replicate Prob(F) | | | | | | | | | 0.1176 | 0.9045 | 0.2793 | 0.0314 |
| Treatment F | | | | | | | | | 398.197 | 64.263 | 79.639 | 124.385 |
| Treatment Prob(F) | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX
 Injury Injury Injury Injury
 Percent Percent Percent Percent
 0 DAPO 14 DAPO 28 DAPO 56 DAPO

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |
|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|--------|---------|---------|---------|
| 1 | NONTREATED | | | | | | | | | 0 | 0 | 0 | 0 |
| 2 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | PRE | A | 0 | 0 | 0 | 0 |
| 2 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | |
| 2 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 3 | DEGREE XTRA | 4 | L | 2 | lb ai/a | 2 | qt/a | 2-4"W-1 | B | | 0 | 0 | 0 |
| 3 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | |
| 3 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | |
| 4 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | PRE | A | 0 | 0 | 0 | 0 |
| 4 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-2 | C | | | | |
| 4 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 5 | STALWART XTRA | 5.5 | L | 2.9 | lb ai/a | 2.1 | qt/a | 2-4"W-1 | B | | 0 | 0 | 0 |
| 5 | ROUNDUP ORIG MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 2-4"W-1 | B | | | | |
| 5 | AMS | 100 | DRY | 2 | % w/w | 17 | lb/100 gal | 2-4"W-1 | B | | | | |
| 6 | KEYSTONE | 5.25 | L | 1.97 | lb ai/a | 1.5 | qt/a | PRE | A | 0 | 0 | 0 | 0 |
| 6 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 6 | AMS | 100 | DRY | 2.0 | % w/w | 17 | lb/100 gal | 2-4"W-2 | C | | | | |
| 7 | GF-1834 | 4.07 | EW | 0.89 | lb ai/a | 1.75 | pt/a | PRE | A | 0 | 0 | 0 | 0 |
| 7 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 7 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 8 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | PRE | A | 0 | 0 | 0 | 0 |
| 8 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 8 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 8 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 9 | SURPASS | 6.4 | EC | 1.04 | lb ai/a | 1.3 | pt/a | PRE | A | 0 | 0 | 0 | 0 |
| 9 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 9 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-2 | C | | | | |
| 10 | FULTIME | 4 | SC | 1.65 | lb ai/a | 1.65 | qt/a | 2-4"W-1 | B | | 0 | 0 | 0 |
| 10 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | |
| 10 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | |
| 11 | HORNET | 68.5 | WG | 0.086 | lb ai/a | 2 | oz/a | 2-4"W-1 | B | | 0 | 0 | 0 |
| 11 | GLYPHOMAX XRT | 4 | SL | 0.75 | lb ae/a | 24 | fl oz/a | 2-4"W-1 | B | | | | |
| 11 | AMS | 100 | DRY | 2 | % w/w | 2 | % w/w | 2-4"W-1 | B | | | | |
| 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 0 | 0 | 0 | 0 |
| 12 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 12 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | | | |
| 12 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | |
| 12 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 12 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 13 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | 0 | 0 | 0 |
| 13 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 4"CN | D | | | | |
| 13 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 13 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 14 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 4"CN | D | | 0 | 0 | 0 |
| 14 | PROWL H2O | 3.8 | CS | 1.19 | lb ai/a | 2.5 | pt/a | 4"CN | D | | | | |
| 14 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 4"CN | D | | | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 4"CN | D | | | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 4"CN | D | | | | |
| 15 | GUARDSMAN MAX | 5 | L | 1.25 | lb ai/a | 2 | pt/a | PRE | A | 0 | 0 | 0 | 0 |
| 15 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 12"CN | E | | | | |
| 15 | DISTINCT | 70 | WG | 0.131 | lb ae/a | 3 | oz/a | 12"CN | E | | | | |
| 15 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 12"CN | E | | | | |
| 15 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 12"CN | E | | | | |
| 16 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 0 | 0 | 0 | 0 |
| 16 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 16 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 16 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 16 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |

Weed Management Systems in Roundup Ready Corn.

Project Code: 06-26C Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX
 Injury Injury Injury Injury
 Percent Percent Percent Percent
 0 DAPO 14 DAPO 28 DAPO 56 DAPO

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | 0 DAPO | 14 DAPO | 28 DAPO | 56 DAPO |
|-------------------|----------------|-----------|-----------|-------|-----------|-----------|-----------|----------|-----------|--------|---------|---------|---------|
| 17 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 0 | 0 | 0 | 0 |
| 17 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 17 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 17 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | 2-4"W-2 | C | | | | |
| 17 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 17 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |
| 18 | AATREX | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | 0 | 0 | 0 | 0 |
| 18 | PRINCEP | 90 | WG | 1.0 | lb ai/a | 1.11 | lb/a | PRE | A | | | | |
| 18 | CORNERSTONE | 3 | SL | 0.56 | lb ae/a | 24 | fl oz/a | 2-4"W-2 | C | | | | |
| 18 | CALLISTO | 4 | SC | 0.094 | lb ai/a | 3 | fl oz/a | 2-4"W-2 | C | | | | |
| 18 | ACTIVATOR 90 | 100 | LIQ | 0.25 | % v/v | 0.25 | % v/v | 2-4"W-2 | C | | | | |
| 18 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | 2-4"W-2 | C | | | | |
| LSD (P=.05) | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| Replicate F | | | | | | | | | | 0.000 | 0.000 | 0.000 | 0.000 |
| Replicate Prob(F) | | | | | | | | | | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| Treatment F | | | | | | | | | | 0.000 | 0.000 | 0.000 | 0.000 |
| Treatment Prob(F) | | | | | | | | | | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Trial Comments

1. Protocol: Monsanto, Sipcam, Dow AgroSciences, BASF.
2. Ratings: CI/WC prior to POST; CI/WC 14, 28 + 56 DA POST.
3. Yield if possible.
4. DAPO = Days after postemergence application.
 Ratings at 0 DAPO were just prior to each postemergence applications.
 Ratings at 14 DAPO were on 6-13-06, 6-20-06, 6-23-06, and 6-27-06 for applications "D", "B", "E", and "C", respectively.
 Ratings at 28 DAPO were on 6-28-06, 7-4-06, 7-7-06, and 7-11-06 for applications "D", "B", "E", and "C", respectively.
 Ratings at 56 DAPO were on 7-26-06, 8-1-06, 8-4-06, and 8-8-06 for applications "D", "B", "E", and "C", respectively.
5. Harvested 10-10-06, (2) 30 inch rows by 22 ft.