

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 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:** 11-03-05

Objective:

Evaluate Gramoxone Inteon with various tank mixtures for burndown followed by subsequent glyphosate applications.

| Weed Code | Common Name | Scientific Name |
|-----------|------------------------------|-------------------------------|
| 1. | HORFU barley, little | Hordeum pusillum Nutt. |
| 2. | SETFA foxtail, giant | Setaria faberi Herrm. |
| 3. | CERVU chickweed, mouseear | Cerastium vulgatum L. |
| 4. | RANAB buttercup, smallflower | Ranunculus abortivus L. |
| 5. | ALOCA foxtail, Carolina | Alopecurus carolinianus Walt. |
| 6. | SENGL groundsel, cressleaf | Senecio glabellus Poir. |
| 7. | POAAN bluegrass, annual | Poa annua L. |
| 8. | ABUTH velvetleaf | Abutilon theophrasti Medicus |
| 9. | ERICA horseweed | Conyza canadensis (L.) Crong. |
| 10. | AMATA waterhemp, common | Amaranthus rudis Sauer |

Crop 1: GLXMA soybean **Variety:** Asgrow 4403 RR
Planting Method: Seeded **Planting Date:** 5-12-05
Rate: 75 lb/A **Depth:** 1.0 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 31 FT **Reps:** 3
Tillage Type: No-Till **Study Design:** Randomized complete block
Previous Crop, Year: ZEAMX, 2004

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir **% OM:** 1.6 **pH:** 6.2 **CEC:** 8
Texture: Silt loam **Fert. Level:** P1: 83 LB/A, K: 396 LB/A

APPLICATION DESCRIPTION

| | A | B | C |
|-----------------------------|----------|----------|----------|
| Application Date: | 05-05-05 | 06-20-05 | 06-08-05 |
| Time of Day: | 9:00 | 9:30 | 9:30 |
| Application Method: | Spray | Spray | Spray |
| Application Timing: | 7DBP | V3 | 4-6"W |
| Applic. Placement: | BROFOL | BROFOL | BROFOL |
| Air Temp., Unit: | 54 F | 64 F | 76 F |
| % Relative Humidity: | 50 | 92 | 72 |
| Wind Velocity, Unit: | 0 MPH | 2 MPH | 6-7 MPH |
| Soil Moisture: | NORMAL | NORMAL | NORMAL |

CROP STAGE AT EACH APPLICATION

| | A | B | C |
|----------------------------|----------|----------|----------|
| Crop 1 Code, Stage: | GLXMA NA | GLXMA V3 | GLXMA V1 |
| Height, Unit: | NA NA | 8-9 IN | 3-4 IN |

WEED STAGE AT EACH APPLICATION

| | A | B | C |
|-------------------------|--------|-------|--------|
| Weed 1 Code: | HORFU | | |
| Stage (leaves): | 10+ | | |
| Height (inches): | 4-6 | | |
| Density: | Medium | | |
| Weed 2 Code: | SETFA | SETFA | SETFA |
| Stage (leaves): | 2-3 | 5-8 | 5-6 |
| Height (inches): | 1-2 | 7-8 | 4-6 |
| Density: | Low | High | Medium |
| Weed 3 Code: | CERVU | | |
| Stage (leaves): | 10+ | | |
| Height (inches): | 4-5 | | |
| Density: | Medium | | |
| Weed 4 Code: | RANAB | | |
| Stage (leaves): | 10+ | | |
| Height (inches): | 6-12 | | |
| Density: | Medium | | |
| Weed 5 Code: | ALOCA | | |
| Stage (leaves): | 10+ | | |
| Height (inches): | 4-6 | | |
| Density: | Medium | | |
| Weed 6 Code: | SENGL | | |
| Stage (leaves): | 10+ | | |
| Height (inches): | 10-30 | | |
| Density: | Medium | | |

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| | | | |
|-------------------------|-------|-------|-------|
| Weed 7 Code: | POAAN | | |
| Stage (leaves): | 10+ | | |
| Height (inches): | 4-6 | | |
| Density: | High | | |
| Weed 8 Code: | ERICA | ERICA | ERICA |
| Stage (leaves): | 10+ | 20-30 | 20-30 |
| Height (inches): | 4-6 | 5-7 | 5-7 |
| Density: | Low | Low | Low |
| Weed 9 Code: | | ABUTH | ABUTH |
| Stage (leaves): | | 6-10 | 4-6 |
| Height (inches): | | 8-15 | 2-4 |
| Density: | | Low | Low |
| Weed10 Code: | | AMATA | AMATA |
| Stage (leaves): | | 10-12 | 4-6 |
| Height (inches): | | 7-11 | 3-5 |
| Density: | | Low | Low |

APPLICATION EQUIPMENT

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

NOTES:

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
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| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | GLXMA | HORPU | HORPU | CERU | CERU | RANAB | RANAB |
|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | Yield bu/A | Control Percent | Control Percent | Control Percent | Control Percent | Control Percent | Control Percent |
| | | | | | | | | | | 10-05-05 | 05-12-05 | 05-26-05 | 05-12-05 | 05-26-05 | 05-12-05 | 05-26-05 |
| | | | | | | | | | | | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A |
| 1 | NONTREATED | | | | | | | | | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 42 | 80 | 99 | 98 | 99 | 99 | 99 |
| 2 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 2 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 2 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 3 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 41 | 90 | 99 | 98 | 99 | 99 | 99 |
| 3 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 3 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 3 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 4 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 35 | 88 | 99 | 98 | 99 | 99 | 99 |
| 4 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 4 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 4 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 5 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 48 | 82 | 99 | 97 | 99 | 99 | 99 |
| 5 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | | |
| 5 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 5 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 5 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 6 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 42 | 92 | 99 | 98 | 99 | 99 | 99 |
| 6 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | | |
| 6 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 6 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 6 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 7 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 45 | 90 | 99 | 98 | 99 | 99 | 99 |
| 7 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | | |
| 7 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 7 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 7 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 8 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 45 | 83 | 99 | 94 | 99 | 99 | 99 |
| 8 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 8 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 8 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 8 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 9 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 52 | 87 | 99 | 98 | 99 | 99 | 98 |
| 9 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 9 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 9 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 9 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 10 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 39 | 88 | 99 | 96 | 99 | 99 | 98 |
| 10 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 10 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 10 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 10 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 11 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 48 | 88 | 99 | 97 | 99 | 99 | 99 |
| 11 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 11 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 11 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 11 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 12 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 45 | 88 | 99 | 98 | 99 | 99 | 99 |
| 12 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 12 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 12 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 13 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 46 | 90 | 99 | 95 | 99 | 99 | 99 |
| 13 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 13 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 13 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
 Investigator: Bryan Young

| Weed Code | | Crop Code | | Rating Data Type | | Rating Unit | | Rating Date | | Trt-Eval Interval | | GLXMA | HORPU | HORPU | CERVU | CERVU | RANAB | RANAB |
|-------------------|------------------|-----------|-----------|------------------|-----------|-------------|------------|-------------|-----------|-------------------|---------|----------|----------|----------|----------|----------|----------|----------|
| Yield | Control | Control | Control | Control | Control | Control | Control | Control | Control | Control | Control | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| bu/A | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | 05-12-05 | 05-26-05 | 05-12-05 | 05-26-05 | 05-12-05 | 05-26-05 | 05-12-05 |
| 10-05-05 | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | | | | | | | | | |
| 14 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 53 | 87 | 99 | 95 | 99 | 99 | 99 | 99 | 99 |
| 14 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | | | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | | | |
| 14 | SEQUENCE | 5.25 | EW | 1.64 | lb ai/a | 2.5 | pt/a | V3 | B | | | | | | | | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | V3 | B | | | | | | | | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 7DBP | A | 44 | 88 | 99 | 55 | 99 | 33 | 98 | | |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 7DBP | A | | | | | | | | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | C | | | | | | | | | |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | | | |
| LSD (P=.05) | | | | | | | | | | 15.4 | 8.6 | 0.0 | 18.0 | 0.0 | 4.6 | 1.2 | | |
| Replicate F | | | | | | | | | | 3.441 | 0.521 | 0.000 | 0.900 | 0.000 | 0.683 | 1.604 | | |
| Replicate Prob(F) | | | | | | | | | | 0.0461 | 0.5995 | 1.0000 | 0.4181 | 1.0000 | 0.5131 | 0.2191 | | |
| Treatment F | | | | | | | | | | 4.017 | 58.363 | 0.000 | 18.444 | 0.000 | 353.508 | 3798.341 | | |
| Treatment Prob(F) | | | | | | | | | | 0.0009 | 0.0001 | 1.0000 | 0.0001 | 1.0000 | 0.0001 | 0.0001 | | |

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| | | | | | | | | | ALOCA | ALOCA | SENGL | SENGL | POAAN | POAAN | |
|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|----------|----------|----------|----------|----------|----|
| | | | | | | | | | Control | Control | Control | Control | Control | Control | |
| | | | | | | | | | Percent | Percent | Percent | Percent | Percent | Percent | |
| | | | | | | | | | 05-12-05 | 05-26-05 | 05-12-05 | 05-26-05 | 05-12-05 | 05-26-05 | |
| | | | | | | | | | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | |
| 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 | 0 | 0 |
| 2 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 94 | 98 | 98 | 99 | 99 | 99 |
| 2 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 2 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 2 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 3 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 96 | 98 | 96 | 99 | 99 | 99 |
| 3 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 3 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 3 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 4 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 97 | 98 | 99 | 99 | 99 | 99 |
| 4 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 4 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 4 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 5 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 96 | 99 | 98 | 99 | 98 | 99 |
| 5 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | |
| 5 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 5 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 5 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 6 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 96 | 99 | 99 | 99 | 99 | 99 |
| 6 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | |
| 6 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 6 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 6 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 7 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 98 | 99 | 99 | 99 | 99 | 99 |
| 7 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | |
| 7 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 7 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 7 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 8 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 97 | 98 | 98 | 99 | 96 | 99 |
| 8 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | |
| 8 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 8 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 8 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 9 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 98 | 99 | 99 | 99 | 99 | 99 |
| 9 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | |
| 9 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 9 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 9 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 10 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 97 | 99 | 98 | 99 | 99 | 99 |
| 10 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | |
| 10 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 10 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 10 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 11 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 97 | 99 | 96 | 99 | 99 | 99 |
| 11 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | |
| 11 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 11 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 11 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 12 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 98 | 98 | 90 | 99 | 98 | 99 |
| 12 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 12 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 12 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |
| 13 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 97 | 99 | 98 | 99 | 99 | 99 |
| 13 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | |
| 13 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | |
| 13 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | |

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
 Investigator: Bryan Young

| | | | | | | | | ALOCA | ALOCA | SENGL | SENGL | POAAN | POAAN | |
|-------------------|------------------|------|------|-------|---------|-------|------------|----------|----------|----------|----------|----------|----------|--------|
| | | | | | | | | Control | Control | Control | Control | Control | Control | |
| | | | | | | | | Percent | Percent | Percent | Percent | Percent | Percent | |
| | | | | | | | | 05-12-05 | 05-26-05 | 05-12-05 | 05-26-05 | 05-12-05 | 05-26-05 | |
| | | | | | | | | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | 7 DA-A | 21 DA-A | |
| Trt | Treatment | Form | Form | Rate | Prod | Prod | Grow | Appl | | | | | | |
| No. | Name | Conc | Type | Unit | Rate | Unit | Stg | Code | | | | | | |
| 14 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 95 | 98 | 90 | 99 | 99 |
| 14 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | |
| 14 | SEQUENCE | 5.25 | EW | 1.64 | lb ai/a | 2.5 | pt/a | V3 | B | | | | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | V3 | B | | | | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 7DBP | A | 72 | 99 | 20 | 99 | 76 |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 7DBP | A | | | | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | C | | | | | |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | |
| LSD (P=.05) | | | | | | | | | 10.9 | 0.8 | 10.0 | 0.0 | 15.6 | 0.0 |
| Replicate F | | | | | | | | | 0.486 | 2.042 | 1.383 | 0.000 | 0.913 | 0.000 |
| Replicate Prob(F) | | | | | | | | | 0.6203 | 0.1487 | 0.2673 | 1.0000 | 0.4128 | 1.0000 |
| Treatment F | | | | | | | | | 45.817 | 8503.334 | 79.995 | 0.000 | 22.758 | 0.000 |
| Treatment Prob(F) | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 0.0001 | 1.0000 |

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
 Investigator: Bryan Young

| Weed Code | | Crop Code | | Rating Data Type | | Rating Unit | | Rating Date | | Tri-Eval Interval | | GLXMA | GLXMA | GLXMA | ERICA | ERICA | ERICA |
|-----------|------------------|-----------|------|------------------|----------------|-------------|-------|-------------|----------|-------------------|----------|---------|---------|---------|----------|----------|----------|
| Tri | Treatment | Form | Form | Rate | Prod | Prod | Grow | Appl | | | | Injury | Injury | Injury | Control | Control | Control |
| No. | Name | Conc | Type | Unit | Rate | Unit | Stg | Code | 06-22-05 | 06-27-05 | 07-20-05 | Percent | Percent | Percent | Percent | Percent | Percent |
| | | | | | | | | | 14 DA-C | 7 DA-B | 42 DA-C | | | | 05-12-05 | 06-22-05 | 07-20-05 |
| | | | | | | | | | | | | | | | 7 DA-A | 14 DA-C | 42 DA-C |
| 1 | NONTREATED | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | GRAMOXONE INTEON | 2 | SL | 0.625 lb ai/a | 2.5 pt/a | | 7DBP | A | | | | 1 | 0 | 0 | 78 | 99 | 99 |
| 2 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 2 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 2 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 3 | GRAMOXONE INTEON | 2 | SL | 0.75 lb ai/a | 3 pt/a | | 7DBP | A | | | | 1 | 0 | 0 | 75 | 99 | 99 |
| 3 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 3 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 3 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 4 | GRAMOXONE INTEON | 2 | SL | 1 lb ai/a | 4 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 78 | 99 | 99 |
| 4 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 4 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 4 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 5 | GRAMOXONE INTEON | 2 | SL | 0.625 lb ai/a | 2.5 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 90 | 99 | 99 |
| 5 | 2,4-D LV4 | 3.8 | EC | 0.475 lb ai/a | 1 pt/a | | 7DBP | A | | | | | | | | | |
| 5 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 5 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 5 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 6 | GRAMOXONE INTEON | 2 | SL | 0.75 lb ai/a | 3 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 94 | 99 | 99 |
| 6 | 2,4-D LV4 | 3.8 | EC | 0.475 lb ai/a | 1 pt/a | | 7DBP | A | | | | | | | | | |
| 6 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 6 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 6 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 7 | GRAMOXONE INTEON | 2 | SL | 1 lb ai/a | 4 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 85 | 99 | 99 |
| 7 | 2,4-D LV4 | 3.8 | EC | 0.475 lb ai/a | 1 pt/a | | 7DBP | A | | | | | | | | | |
| 7 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 7 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 7 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 8 | GRAMOXONE INTEON | 2 | SL | 0.625 lb ai/a | 2.5 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 68 | 99 | 99 |
| 8 | A14972A | 5.3 | EW | 1.33 lb ai/a | 2 pt/a | | 7DBP | A | | | | | | | | | |
| 8 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 8 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 8 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 9 | GRAMOXONE INTEON | 2 | SL | 0.75 lb ai/a | 3 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 68 | 99 | 99 |
| 9 | A14972A | 5.3 | EW | 1.33 lb ai/a | 2 pt/a | | 7DBP | A | | | | | | | | | |
| 9 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 9 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 9 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 10 | GRAMOXONE INTEON | 2 | SL | 1 lb ai/a | 4 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 78 | 99 | 99 |
| 10 | A14972A | 5.3 | EW | 1.33 lb ai/a | 2 pt/a | | 7DBP | A | | | | | | | | | |
| 10 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 10 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 10 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 11 | GRAMOXONE INTEON | 2 | SL | 0.625 lb ai/a | 2.5 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 89 | 99 | 99 |
| 11 | BOUNDARY | 6.5 | EC | 1.63 lb ai/a | 2 pt/a | | 7DBP | A | | | | | | | | | |
| 11 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 11 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 11 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 12 | GRAMOXONE INTEON | 2 | SL | 0.75 lb ai/a | 3 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 93 | 99 | 99 |
| 12 | BOUNDARY | 6.5 | EC | 1.63 lb ai/a | 2 pt/a | | 7DBP | A | | | | | | | | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 12 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 12 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |
| 13 | GRAMOXONE INTEON | 2 | SL | 1 lb ai/a | 4 pt/a | | 7DBP | A | | | | 0 | 0 | 0 | 93 | 99 | 99 |
| 13 | BOUNDARY | 6.5 | EC | 1.63 lb ai/a | 2 pt/a | | 7DBP | A | | | | | | | | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.125 % v/v | 0.125 % v/v | | 7DBP | A | | | | | | | | | |
| 13 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 lb ae/a | 24 fl oz/a | | 4-6"W | C | | | | | | | | | |
| 13 | AMS | 100 | DRY | 1.0 % w/w | 8.5 lb/100 gal | | 4-6"W | C | | | | | | | | | |

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
 Investigator: Bryan Young

| Weed Code | | Crop Code | | Rating Data Type | | Rating Unit | | Rating Date | | Trt-Eval Interval | | GLXMA | GLXMA | GLXMA | ERICA | ERICA | ERICA |
|-------------------|------------------|-----------|-----------|------------------|-----------|-------------|----------------|-------------|-----------|-------------------|--------|----------|----------|-----------|----------|----------|----------|
| | | | | | | | | | | | | Injury | Injury | Injury | Control | Control | Control |
| | | | | | | | | | | | | Percent | Percent | Percent | Percent | Percent | Percent |
| | | | | | | | | | | | | 06-22-05 | 06-27-05 | 07-20-05 | 05-12-05 | 06-22-05 | 07-20-05 |
| | | | | | | | | | | | | 14 DA-C | 7 DA-B | 42 DA-C | 7 DA-A | 14 DA-C | 42 DA-C |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | | | | | | | | |
| 14 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | | 3 pt/a | 7DBP | A | 1 | 4 | 0 | 90 | 98 | 99 | | |
| 14 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | | 1 pt/a | 7DBP | A | | | | | | | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | | |
| 14 | SEQUENCE | 5.25 | EW | 1.64 | lb ai/a | | 2.5 pt/a | V3 | B | | | | | | | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | | 2.5 lb/a | V3 | B | | | | | | | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | | 22 fl oz/a | 7DBP | A | 0 | 0 | 0 | 50 | 99 | 99 | | |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | | 8.5 lb/100 gal | 7DBP | A | | | | | | | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | | 22 fl oz/a | 4-6"W | C | | | | | | | | |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | | 8.5 lb/100 gal | 4-6"W | C | | | | | | | | |
| LSD (P=.05) | | | | | | | | | | 0.8 | 0.5 | 0.0 | 17.2 | 0.5 | 0.0 | | |
| Replicate F | | | | | | | | | | 2.031 | 1.000 | 0.000 | 0.754 | 1.000 | 0.000 | | |
| Replicate Prob(F) | | | | | | | | | | 0.1501 | 0.3806 | 1.0000 | 0.4876 | 0.3806 | 1.0000 | | |
| Treatment F | | | | | | | | | | 2.397 | 30.250 | 0.000 | 17.743 | 22032.037 | 0.000 | | |
| Treatment Prob(F) | | | | | | | | | | 0.0238 | 0.0001 | 1.0000 | 0.0001 | 0.0001 | 1.0000 | | |

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
 Investigator: Bryan Young

| | | | | | | | |
|-------------------|----------|----------|----------|----------|----------|----------|----------|
| Weed Code | SETFA | SETFA | SETFA | SETFA | SETFA | ABUTH | ABUTH |
| Crop Code | | | | | | | |
| Rating Data Type | Control | Control | Control | Control | Control | Control | Control |
| Rating Unit | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| Rating Date | 05-12-05 | 05-26-05 | 06-07-05 | 06-22-05 | 07-20-05 | 06-22-05 | 07-20-05 |
| Trt-Eval Interval | 7 DA-A | 21 DA-A | -1 DA-C | 14 DA-C | 42 DA-C | 14 DA-C | 42 DA-C |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | Control Percent | Control Percent | Control Percent | Control Percent | Control Percent | Control Percent | Control Percent |
|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1 | NONTREATED | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 99 | 98 | 0 | 98 | 87 | 98 | 91 |
| 2 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 2 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 2 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 3 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 91 | 97 | 0 | 98 | 75 | 97 | 90 |
| 3 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 3 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 3 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 4 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 91 | 97 | 0 | 97 | 45 | 98 | 88 |
| 4 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 4 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 4 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 5 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 96 | 97 | 0 | 97 | 75 | 97 | 93 |
| 5 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | | |
| 5 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 5 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 5 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 6 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 97 | 98 | 0 | 97 | 73 | 98 | 91 |
| 6 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | | |
| 6 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 6 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 6 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 7 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 98 | 98 | 0 | 97 | 93 | 97 | 90 |
| 7 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | | |
| 7 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 7 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 7 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 8 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 99 | 98 | 60 | 98 | 93 | 97 | 96 |
| 8 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 8 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 8 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 8 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 9 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 99 | 98 | 87 | 98 | 92 | 97 | 93 |
| 9 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 9 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 9 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 9 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 10 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 99 | 98 | 73 | 98 | 88 | 99 | 90 |
| 10 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 10 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 10 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 10 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 11 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 99 | 98 | 91 | 98 | 93 | 99 | 96 |
| 11 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 11 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 11 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 11 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 12 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 99 | 98 | 88 | 98 | 91 | 98 | 93 |
| 12 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 12 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 12 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| 13 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 99 | 98 | 89 | 97 | 87 | 97 | 92 |
| 13 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | | | | | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 13 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | | | | | | |
| 13 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
 Investigator: Bryan Young

| Weed Code | SETFA | SETFA | SETFA | SETFA | SETFA | ABUTH | ABUTH |
|-------------------|----------|----------|----------|----------|----------|----------|----------|
| Crop Code | Control | Control | Control | Control | Control | Control | Control |
| Rating Data Type | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| Rating Unit | 05-12-05 | 05-26-05 | 06-07-05 | 06-22-05 | 07-20-05 | 06-22-05 | 07-20-05 |
| Rating Date | 7 DA-A | 21 DA-A | -1 DA-C | 14 DA-C | 42 DA-C | 14 DA-C | 42 DA-C |
| Trt-Eval Interval | | | | | | | |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | SETFA | SETFA | SETFA | SETFA | SETFA | ABUTH | ABUTH |
|-------------------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|--------|----------|--------|----------|--------|----------|---------|
| 14 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 99 | 98 | 0 | 0 | 99 | 0 | 99 |
| 14 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | | | | | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | | | | | | |
| 14 | SEQUENCE | 5.25 | EW | 1.64 | lb ai/a | 2.5 | pt/a | V3 | B | | | | | | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | V3 | B | | | | | | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 7DBP | A | 99 | 98 | 0 | 98 | 87 | 98 | 90 |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 7DBP | A | | | | | | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | C | | | | | | | |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | | | | | | |
| LSD (P=.05) | | | | | | | | | | 8.1 | 1.0 | 16.6 | 1.5 | 26.3 | 2.0 | 6.0 |
| Replicate F | | | | | | | | | | 3.790 | 10.083 | 1.715 | 5.444 | 0.424 | 3.750 | 0.904 |
| Replicate Prob(F) | | | | | | | | | | 0.0349 | 0.0005 | 0.1983 | 0.0101 | 0.6583 | 0.0361 | 0.4165 |
| Treatment F | | | | | | | | | | 81.030 | 5506.303 | 53.541 | 4595.926 | 7.798 | 2443.135 | 134.470 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
Investigator: Bryan Young

| | | |
|-------------------|----------|----------|
| Weed Code | AMATA | AMATA |
| Crop Code | | |
| Rating Data Type | Control | Control |
| Rating Unit | Percent | Percent |
| Rating Date | 06-22-05 | 07-20-05 |
| Trt-Eval Interval | 14 DA-C | 42 DA-C |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | | |
|---------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|----|----|
| 1 | NONTREATED | | | | | | | | | 0 | 0 |
| 2 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 97 | 92 |
| 2 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 2 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 2 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 3 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 99 | 88 |
| 3 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 3 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 3 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 4 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 98 | 91 |
| 4 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 4 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 4 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 5 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 98 | 93 |
| 5 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | |
| 5 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 5 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 5 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 6 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 98 | 92 |
| 6 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | |
| 6 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 6 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 6 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 7 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 99 | 91 |
| 7 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | |
| 7 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 7 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 7 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 8 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 99 | 98 |
| 8 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | |
| 8 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 8 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 8 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 9 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 99 | 98 |
| 9 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | |
| 9 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 9 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 9 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 10 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 98 | 96 |
| 10 | A14972A | 5.3 | EW | 1.33 | lb ai/a | 2 | pt/a | 7DBP | A | | |
| 10 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 10 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 10 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 11 | GRAMOXONE INTEON | 2 | SL | 0.625 | lb ai/a | 2.5 | pt/a | 7DBP | A | 99 | 96 |
| 11 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | |
| 11 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 11 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 11 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 12 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 98 | 95 |
| 12 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | |
| 12 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 12 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 12 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| 13 | GRAMOXONE INTEON | 2 | SL | 1 | lb ai/a | 4 | pt/a | 7DBP | A | 97 | 95 |
| 13 | BOUNDARY | 6.5 | EC | 1.63 | lb ai/a | 2 | pt/a | 7DBP | A | | |
| 13 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 13 | TOUCHDOWN TOTAL | 4.17 | SC | 0.78 | lb ae/a | 24 | fl oz/a | 4-6"W | C | | |
| 13 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |

Gramoxone Inteon in No-Till Soybean.

Project Code: 05-1-EE70 Location: Belleville Research Center
 Investigator: Bryan Young

| | | |
|-------------------|----------|----------|
| Weed Code | AMATA | AMATA |
| Crop Code | | |
| Rating Data Type | Control | Control |
| Rating Unit | Percent | Percent |
| Rating Date | 06-22-05 | 07-20-05 |
| Trt-Eval Interval | 14 DA-C | 42 DA-C |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Prod Rate | Prod Unit | Grow Stg | Appl Code | | |
|-------------------|------------------|-----------|-----------|-------|-----------|-----------|------------|----------|-----------|----------|--------|
| 14 | GRAMOXONE INTEON | 2 | SL | 0.75 | lb ai/a | 3 | pt/a | 7DBP | A | 0 | 99 |
| 14 | 2,4-D LV4 | 3.8 | EC | 0.475 | lb ai/a | 1 | pt/a | 7DBP | A | | |
| 14 | ACTIVATOR 90 | 100 | LIQ | 0.125 | % v/v | 0.125 | % v/v | 7DBP | A | | |
| 14 | SEQUENCE | 5.25 | EW | 1.64 | lb ai/a | 2.5 | pt/a | V3 | B | | |
| 14 | AMS | 100 | DRY | 2.5 | lb/a | 2.5 | lb/a | V3 | B | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 7DBP | A | 99 | 95 |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 7DBP | A | | |
| 15 | ROUNDUP W-MAX | 4.5 | SL | 0.77 | lb ae/a | 22 | fl oz/a | 4-6"W | C | | |
| 15 | AMS | 100 | DRY | 1.0 | % w/w | 8.5 | lb/100 gal | 4-6"W | C | | |
| LSD (P=.05) | | | | | | | | | | 1.7 | 7.6 |
| Replicate F | | | | | | | | | | 1.374 | 0.010 |
| Replicate Prob(F) | | | | | | | | | | 0.2697 | 0.9904 |
| Treatment F | | | | | | | | | | 3523.729 | 86.665 |
| Treatment Prob(F) | | | | | | | | | | 0.0001 | 0.0001 |

Trial Comments

1. Protocol: Syngenta.
2. Ratings: Burndown WC at 7 and 21 DA application "A" and at POST; CI 7 DA application "B"; CI/WC 14 and 42 DA application "C".
3. Application "C" is when weeds in residual herbicide treatments reach 4-6".
4. Yield.
5. Photos are desired.
6. By 5-26-05 all other winter annual weeds are dead.
7. DA-A = Days after 7DBP application. DA-B = Days after V3 application. DA-C = Days after 4-6"W application. Ratings at -1 DA-C are at 4-6"W application.
8. Harvested 10-5-05, (2) 30 inch rows by 28 ft.