

Weed Management for Conventional Soybean in Reduced-Till.

Trial ID: 08-11A-W90 Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu  
 City State Zip Country: Belleville IL 62221 USA  
 Trial Status: PRELIMINARY Initiation Date: 06-17-08

Objectives: Continue to support growers producing non-GMO soybeans by evaluating potential herbicide programs in conventional soyben.

Crop 1: GLXMA Soybean Variety: AG 4404 RR/STS  
 Planting Method: SEEDED Planting Date: 06-17-08  
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN  
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant  
 Pest 2 Type: W Code: CYPES Cyperus esculentus L. nutsedge, yellow  
 Pest 3 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant  
 Pest 4 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common  
 Pest 5 Type: W Code: IPOSS Ipomoea sp. morningglory, species

Plot Width, Unit: 10 FT Site Type: FIELD  
 Plot Length, Unit: 26 FT Tillage Type: REDUCED-TILL  
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year  
 1. ZEAMD 2007

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 150 LB/A

% OM: 2 Texture: SILT LOAM  
 pH: 5.6 Soil Name: PIERRON  
 CEC: 11 Fert. Level: P1 75 LB/A, K 348 LB/A

Application Description

|                            | A        | B        |
|----------------------------|----------|----------|
| Application Date:          | 06-17-08 | 07-04-08 |
| Time of Day:               | 13:00    | 10:00    |
| Application Method:        | Spray    | Spray    |
| Application Timing:        | PRE      | 4"W      |
| Application Placement:     | BROFOL   | BROFOL   |
| Applied By:                | DKT      | TGM      |
| Air Temperature, Unit:     | 76 F     | 69 F     |
| % Relative Humidity:       | 48       | 92       |
| Wind Velocity, Unit:       | 6 MPH    | 3 MPH    |
| Dew Presence (Y/N):        | N        | N        |
| Soil Temperature, Unit:    | 81 F     | 83 F     |
| Soil Moisture:             | NORMAL   | ABONOR   |
| % Cloud Cover:             | 0        | 90       |
|                            | 06-17-08 | 07-04-08 |
| Crop stage at application: | NA       | V1       |
| Height Min, Max (inch):    | 5        | 6        |

Pest Stage At Each Application

|                          | 06-17-08 | 07-04-08 |
|--------------------------|----------|----------|
| Application Date:        | 06-17-08 | 07-04-08 |
| Weed Code:               | SETFA    | SETFA    |
| Stage Majority (leaves): | NA       | 4        |
| Stage Min, Max:          |          | 3 5      |
| Height Majority:         |          | 4 IN     |
| Height Min, Max:         |          | 3 6      |
| Density, Unit:           |          | 7 FT2    |
| Weed Code:               | CYPES    | CYPES    |
| Stage Majority (leaves): | NA       | 6        |
| Stage Min, Max:          |          | 2 7      |
| Height Majority:         |          | 6 IN     |
| Height Min, Max:         |          | 4 7      |
| Density, Unit:           |          | 3 FT2    |
| Weed Code:               | AMBTR    | AMBTR    |
| Stage Majority (leaves): | NA       | 2        |
| Stage Min, Max:          |          | COTY 4   |
| Height Majority:         |          | 4 IN     |
| Height Min, Max:         |          | 1 6      |
| Density, Unit:           |          | 1 FT2    |
| Weed Code:               | AMATA    | AMATA    |
| Stage Majority (leaves): | NA       | 4        |
| Stage Min, Max:          |          | 2 5      |
| Height Majority:         |          | 3 IN     |
| Height Min, Max:         |          | 2 4      |
| Density, Unit:           |          | 4 FT2    |
| Weed Code:               | IPOSS    | IPOSS    |
| Stage Majority (leaves): | NA       | 2        |
| Stage Min, Max:          |          | COTY 5   |
| Height Majority:         |          | 3 IN     |
| Height Min, Max:         |          | 2 5      |
| Density, Unit:           |          | 3 FT2    |

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**Application Equipment**

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

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| Pest Code         |                  |           |           |                |           |            | GLXMA           | GLXMA        | GLXMA     | GLXMA    | GLXMA    |     |      |     |
|-------------------|------------------|-----------|-----------|----------------|-----------|------------|-----------------|--------------|-----------|----------|----------|-----|------|-----|
| Crop Code         |                  |           |           |                |           |            | 10-29-08        | 10-29-08     | 07-03-08  | 07-18-08 | 08-01-08 |     |      |     |
| Rating Date       |                  |           |           |                |           |            | Moisture        | Yield        | Injury    | Injury   | Injury   |     |      |     |
| Rating Data Type  |                  |           |           |                |           |            | Percent         | bu/A         | Percent   | Percent  | Percent  |     |      |     |
| Rating Unit       |                  |           |           |                |           |            |                 |              | 16 DA-A   | 14 DA-B  | 28 DA-B  |     |      |     |
| Rating Timing     |                  |           |           |                |           |            |                 |              | -1 DA-B   |          |          |     |      |     |
| Trt-Eval Interval |                  |           |           |                |           |            |                 |              |           |          |          |     |      |     |
| Trt No.           | Treatment Name   | Form Conc | Form Type | Rate           | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |          |          |     |      |     |
| 1                 | NONTREATED       |           |           |                |           |            |                 |              |           | 12.2 ab  | 11 d     | 0 b | 0 b  | 0 a |
| 2                 | NO RESIDUAL HERB |           |           |                |           |            |                 |              |           | 11.8 c   | 49 ab    | 0 b | 3 ab | 0 a |
| 2                 | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 2                 | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 2                 | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 2                 | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 3                 | SONIC            | 70 WG     |           | 0.14 lb ai/a   |           | 3.2 oz/a   |                 | PRE          | A         | 11.9 bc  | 48 abc   | 0 b | 3 ab | 0 a |
| 3                 | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 3                 | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 3                 | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 3                 | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 4                 | SONIC            | 70 WG     |           | 0.28 lb ai/a   |           | 6.4 oz/a   |                 | PRE          | A         | 12.2 ab  | 48 abc   | 2 a | 2 ab | 0 a |
| 4                 | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 4                 | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 4                 | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 4                 | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 5                 | CANOPY           | 75 WG     |           | 0.14 lb ai/a   |           | 3.0 oz/a   |                 | PRE          | A         | 11.8 c   | 48 abc   | 0 b | 3 ab | 0 a |
| 5                 | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 5                 | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 5                 | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 5                 | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 6                 | CANOPY           | 75 WG     |           | 0.28 lb ai/a   |           | 6.0 oz/a   |                 | PRE          | A         | 12.1 abc | 48 abc   | 0 b | 4 ab | 0 a |
| 6                 | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 6                 | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 6                 | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 6                 | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 7                 | PROWL H2O        | 3.8 CS    |           | 0.594 lb ai/a  |           | 1.25 pt/a  |                 | PRE          | A         | 12.0 abc | 48 abc   | 0 b | 2 ab | 0 a |
| 7                 | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 7                 | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 7                 | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 7                 | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 8                 | PROWL H2O        | 3.8 CS    |           | 1.19 lb ai/a   |           | 2.5 pt/a   |                 | PRE          | A         | 12.0 abc | 45 abc   | 0 b | 1 ab | 0 a |
| 8                 | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 8                 | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 8                 | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 8                 | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 9                 | VALOR XLT        | 40.3 WG   |           |                |           | 3.0 oz/a   |                 | PRE          | A         | 11.9 bc  | 45 bc    | 0 b | 4 a  | 0 a |
| 9                 | VALOR SX         | 51 WG     |           | 0.056 lb ai/a  |           |            |                 | PRE          | A         |          |          |     |      |     |
| 9                 | CLASSIC          | 25 WG     |           | 0.0194 lb ai/a |           |            |                 | PRE          | A         |          |          |     |      |     |
| 9                 | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 9                 | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 9                 | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 9                 | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 10                | VALOR XLT        | 40.3 WG   |           |                |           | 5.0 oz/a   |                 | PRE          | A         | 12.0 abc | 53 a     | 0 b | 3 ab | 0 a |
| 10                | VALOR SX         | 51 WG     |           | 0.093 lb ai/a  |           |            |                 | PRE          | A         |          |          |     |      |     |
| 10                | CLASSIC          | 25 WG     |           | 0.0322 lb ai/a |           |            |                 | PRE          | A         |          |          |     |      |     |
| 10                | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 10                | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 10                | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 10                | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |
| 11                | PROWL H2O        | 3.8 CS    |           | 1.19 lb ai/a   |           | 2.5 pt/a   |                 | PRE          | A         | 11.9 abc | 42 bc    | 0 b | 3 ab | 0 a |
| 11                | SCEPTER          | 70 WG     |           | 0.061 lb ai/a  |           | 1.4 oz/a   |                 | PRE          | A         |          |          |     |      |     |
| 11                | FLEXSTAR         | 1.88 EC   |           | 0.294 lb ai/a  |           | 20 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 11                | FUSION           | 2.56 EC   |           | 0.24 lb ai/a   |           | 12 fl oz/a |                 | 4"W          | B         |          |          |     |      |     |
| 11                | DESTINY MSO      | 100 SL    |           | 1.0 % v/v      |           | 1 % v/v    |                 | 4"W          | B         |          |          |     |      |     |
| 11                | 28% UAN          | 100 SL    |           | 2.5 % v/v      |           | 2.5 % v/v  |                 | 4"W          | B         |          |          |     |      |     |

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|                   |  |  |  |  |  |  |  |  |          |          |          |          |          |
|-------------------|--|--|--|--|--|--|--|--|----------|----------|----------|----------|----------|
| Pest Code         |  |  |  |  |  |  |  |  |          |          |          |          |          |
| Crop Code         |  |  |  |  |  |  |  |  |          |          |          |          |          |
| Rating Date       |  |  |  |  |  |  |  |  | GLXMA    | GLXMA    | GLXMA    | GLXMA    | GLXMA    |
| Rating Data Type  |  |  |  |  |  |  |  |  | 10-29-08 | 10-29-08 | 07-03-08 | 07-18-08 | 08-01-08 |
| Rating Unit       |  |  |  |  |  |  |  |  | Moisture | Yield    | Injury   | Injury   | Injury   |
| Rating Timing     |  |  |  |  |  |  |  |  | Percent  | bu/A     | Percent  | Percent  | Percent  |
| Trt-Eval Interval |  |  |  |  |  |  |  |  |          |          | 16 DA-A  | 14 DA-B  | 28 DA-B  |
|                   |  |  |  |  |  |  |  |  |          |          | -1 DA-B  |          |          |

| Trt No.           | Treatment Name | Form Conc | Form Type | Rate    | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |          |        |        |        |        |
|-------------------|----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|----------|--------|--------|--------|--------|
| 12                | PROWL H2O      | 3.8       | CS        | 1.19    | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 11.9 bc  | 40 c   | 0 b    | 4 ab   | 0 a    |
| 12                | SCEPTER        | 70        | WG        | 0.122   | lb ai/a   | 2.8        | oz/a            | PRE          | A         |          |        |        |        |        |
| 12                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 12                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 12                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |        |        |        |        |
| 12                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |        |        |        |        |
| 13                | PREFIX         | 5.29      | EC        | 0.66    | lb ai/a   | 1.0        | pt/a            | PRE          | A         | 12.3 a   | 47 abc | 0 b    | 3 ab   | 0 a    |
| 13                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 13                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 13                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |        |        |        |        |
| 13                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |        |        |        |        |
| 14                | PREFIX         | 5.29      | EC        | 1.32    | lb ai/a   | 2.0        | pt/a            | PRE          | A         | 12.0 abc | 43 bc  | 0 b    | 3 ab   | 0 a    |
| 14                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 14                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 14                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |        |        |        |        |
| 14                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |        |        |        |        |
| 15                | WEED FREE      |           |           |         |           |            |                 |              |           | 12.1 abc | 48 abc | 0 b    | 0 b    | 0 a    |
| 15                | DUAL MAGNUM    | 7.62      | EC        | 1.27    | lb ai/a   | 1.33       | pt/a            | PRE          | A         |          |        |        |        |        |
| 15                | FIRSTRATE      | 84        | WG        | 0.0315  | lb ai/a   | 0.6        | oz/a            | PRE          | A         |          |        |        |        |        |
| 15                | ROUNDUP O-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 15                | N-PAK AMS      | 100       | SL        | 5.0     | % v/v     | 5          | % v/v           | 4"W          | B         |          |        |        |        |        |
| 15                | HANDWEED       |           |           |         |           |            |                 |              |           |          |        |        |        |        |
| 16                | DPX-QER54      | 41.3      | WG        |         |           | 3.5        | oz/a            | PRE          | A         | 11.9 bc  | 46 abc | 0 b    | 3 ab   | 0 a    |
| 16                | CLASSIC        | 25        | WG        | 0.02    | lb ai/a   |            |                 | PRE          | A         |          |        |        |        |        |
| 16                | HARMONY GT XP  | 50        | SG        | 0.00643 | lb ai/a   |            |                 | PRE          | A         |          |        |        |        |        |
| 16                | VALOR SX       | 51        | WG        | 0.0635  | lb ai/a   |            |                 | PRE          | A         |          |        |        |        |        |
| 16                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 16                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |        |        |        |        |
| 16                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |        |        |        |        |
| 16                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |        |        |        |        |
| LSD (P=.05)       |                |           |           |         |           |            |                 |              |           | 0.35     | 7.9    | 1.2    | 3.9    | 0.0    |
| Replicate F       |                |           |           |         |           |            |                 |              |           | 0.846    | 1.683  | 1.000  | 0.229  | 0.000  |
| Replicate Prob(F) |                |           |           |         |           |            |                 |              |           | 0.4389   | 0.2029 | 0.3798 | 0.7963 | 1.0000 |
| Treatment F       |                |           |           |         |           |            |                 |              |           | 1.282    | 11.601 | 1.000  | 0.930  | 0.000  |
| Treatment Prob(F) |                |           |           |         |           |            |                 |              |           | 0.2722   | 0.0001 | 0.4801 | 0.5437 | 1.0000 |

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

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|         |                  |           |           |        |           |            |                 | SETFA        | SETFA     | SETFA    | SETFA    |      |      |
|---------|------------------|-----------|-----------|--------|-----------|------------|-----------------|--------------|-----------|----------|----------|------|------|
|         |                  |           |           |        |           |            |                 | 07-03-08     | 07-18-08  | 08-01-08 | 08-29-08 |      |      |
|         |                  |           |           |        |           |            |                 | Control      | Control   | Control  | Control  |      |      |
|         |                  |           |           |        |           |            |                 | Percent      | Percent   | Percent  | Percent  |      |      |
|         |                  |           |           |        |           |            |                 | 16 DA-A      | 14 DA-B   | 28 DA-B  | 56 DA-B  |      |      |
|         |                  |           |           |        |           |            |                 | -1 DA-B      |           |          |          |      |      |
| Trt No. | Treatment Name   | Form Conc | Form Type | Rate   | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |          |          |      |      |
| 1       | NONTREATED       |           |           |        |           |            |                 |              |           | 0 g      | 0 c      | 0 b  | 0 b  |
| 2       | NO RESIDUAL HERB |           |           |        |           |            |                 |              |           | 0 g      | 99 a     | 98 a | 98 a |
| 2       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 2       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 2       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 2       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 3       | SONIC            | 70        | WG        | 0.14   | lb ai/a   | 3.2        | oz/a            | PRE          | A         | 73 b-e   | 99 a     | 99 a | 99 a |
| 3       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 3       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 3       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 3       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 4       | SONIC            | 70        | WG        | 0.28   | lb ai/a   | 6.4        | oz/a            | PRE          | A         | 83 abc   | 99 a     | 99 a | 99 a |
| 4       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 4       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 4       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 4       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 5       | CANOPY           | 75        | WG        | 0.14   | lb ai/a   | 3.0        | oz/a            | PRE          | A         | 60 def   | 99 a     | 99 a | 99 a |
| 5       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 5       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 5       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 5       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 6       | CANOPY           | 75        | WG        | 0.28   | lb ai/a   | 6.0        | oz/a            | PRE          | A         | 57 ef    | 99 a     | 99 a | 99 a |
| 6       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 6       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 6       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 6       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 7       | PROWL H2O        | 3.8       | CS        | 0.594  | lb ai/a   | 1.25       | pt/a            | PRE          | A         | 78 a-e   | 99 a     | 98 a | 98 a |
| 7       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 7       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 7       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 7       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 8       | PROWL H2O        | 3.8       | CS        | 1.19   | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 93 ab    | 99 b     | 99 a | 99 a |
| 8       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 8       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 8       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 8       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 9       | VALOR XLT        | 40.3      | WG        |        |           | 3.0        | oz/a            | PRE          | A         | 78 a-e   | 99 a     | 99 a | 99 a |
| 9       | VALOR SX         | 51        | WG        | 0.056  | lb ai/a   |            |                 | PRE          | A         |          |          |      |      |
| 9       | CLASSIC          | 25        | WG        | 0.0194 | lb ai/a   |            |                 | PRE          | A         |          |          |      |      |
| 9       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 9       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 9       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 9       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 10      | VALOR XLT        | 40.3      | WG        |        |           | 5.0        | oz/a            | PRE          | A         | 82 a-d   | 99 a     | 99 a | 99 a |
| 10      | VALOR SX         | 51        | WG        | 0.093  | lb ai/a   |            |                 | PRE          | A         |          |          |      |      |
| 10      | CLASSIC          | 25        | WG        | 0.0322 | lb ai/a   |            |                 | PRE          | A         |          |          |      |      |
| 10      | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 10      | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 10      | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 10      | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |
| 11      | PROWL H2O        | 3.8       | CS        | 1.19   | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 96 a     | 99 a     | 99 a | 98 a |
| 11      | SCEPTER          | 70        | WG        | 0.061  | lb ai/a   | 1.4        | oz/a            | PRE          | A         |          |          |      |      |
| 11      | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 11      | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |      |      |
| 11      | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |      |      |
| 11      | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |      |      |

Weed Management for Conventional Soybean in Reduced-Till.

Trial ID: 08-11A-W90 Location: Belleville Res. Center

|                   |          |          |          |          |
|-------------------|----------|----------|----------|----------|
| Pest Code         | SETFA    | SETFA    | SETFA    | SETFA    |
| Crop Code         |          |          |          |          |
| Rating Date       | 07-03-08 | 07-18-08 | 08-01-08 | 08-29-08 |
| Rating Data Type  | Control  | Control  | Control  | Control  |
| Rating Unit       | Percent  | Percent  | Percent  | Percent  |
| Rating Timing     | 16 DA-A  |          |          |          |
| Trt-Eval Interval | -1 DA-B  | 14 DA-B  | 28 DA-B  | 56 DA-B  |

| Trt No.           | Treatment Name | Form Conc | Form Type | Rate    | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |        |           |          |          |
|-------------------|----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|--------|-----------|----------|----------|
| 12                | PROWL H2O      | 3.8       | CS        | 1.19    | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 98 a   | 99 a      | 99 a     | 99 a     |
| 12                | SCEPTER        | 70        | WG        | 0.122   | lb ai/a   | 2.8        | oz/a            | PRE          | A         |        |           |          |          |
| 12                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 12                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 12                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |        |           |          |          |
| 12                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |        |           |          |          |
| 13                | PREFIX         | 5.29      | EC        | 0.66    | lb ai/a   | 1.0        | pt/a            | PRE          | A         | 70 cde | 99 a      | 99 a     | 99 a     |
| 13                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 13                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 13                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |        |           |          |          |
| 13                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |        |           |          |          |
| 14                | PREFIX         | 5.29      | EC        | 1.32    | lb ai/a   | 2.0        | pt/a            | PRE          | A         | 93 ab  | 99 a      | 99 a     | 99 a     |
| 14                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 14                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 14                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |        |           |          |          |
| 14                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |        |           |          |          |
| 15                | WEED FREE      |           |           |         |           |            |                 |              |           | 93 ab  | 99 a      | 99 a     | 99 a     |
| 15                | DUAL MAGNUM    | 7.62      | EC        | 1.27    | lb ai/a   | 1.33       | pt/a            | PRE          | A         |        |           |          |          |
| 15                | FIRSTRATE      | 84        | WG        | 0.0315  | lb ai/a   | 0.6        | oz/a            | PRE          | A         |        |           |          |          |
| 15                | ROUNDUP O-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 15                | N-PAK AMS      | 100       | SL        | 5.0     | % v/v     | 5          | % v/v           | 4"W          | B         |        |           |          |          |
| 15                | HANDWEED       |           |           |         |           |            |                 |              |           |        |           |          |          |
| 16                | DPX-QER54      | 41.3      | WG        |         |           | 3.5        | oz/a            | PRE          | A         | 38 f   | 99 a      | 99 a     | 99 a     |
| 16                | CLASSIC        | 25        | WG        | 0.02    | lb ai/a   |            |                 | PRE          | A         |        |           |          |          |
| 16                | HARMONY GT XP  | 50        | SG        | 0.00643 | lb ai/a   |            |                 | PRE          | A         |        |           |          |          |
| 16                | VALOR SX       | 51        | WG        | 0.0635  | lb ai/a   |            |                 | PRE          | A         |        |           |          |          |
| 16                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 16                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |        |           |          |          |
| 16                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |        |           |          |          |
| 16                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |        |           |          |          |
| LSD (P=.05)       |                |           |           |         |           |            |                 |              |           | 21.8   | 0.2       | 1.4      | 1.5      |
| Replicate F       |                |           |           |         |           |            |                 |              |           | 1.000  | 1.000     | 1.935    | 1.364    |
| Replicate Prob(F) |                |           |           |         |           |            |                 |              |           | 0.3799 | 0.3798    | 0.1620   | 0.2711   |
| Treatment F       |                |           |           |         |           |            |                 |              |           | 17.062 | 88170.407 | 2655.323 | 2300.469 |
| Treatment Prob(F) |                |           |           |         |           |            |                 |              |           | 0.0001 | 0.0001    | 0.0001   | 0.0001   |

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

Weed Management for Conventional Soybean in Reduced-Till.

Trial ID: 08-11A-W90 Location: Belleville Res. Center

|         |                  |           |           |        |           |            |                 | CYPES        | CYPES     | CYPES    | CYPES    | AMBTR    | AMBTR    | AMBTR    | AMBTR    |       |      |
|---------|------------------|-----------|-----------|--------|-----------|------------|-----------------|--------------|-----------|----------|----------|----------|----------|----------|----------|-------|------|
|         |                  |           |           |        |           |            |                 | 07-03-08     | 07-18-08  | 08-01-08 | 08-29-08 | 07-03-08 | 07-18-08 | 08-01-08 | 08-29-08 |       |      |
|         |                  |           |           |        |           |            |                 | Control      | Control   | Control  | Control  | Control  | Control  | Control  | Control  |       |      |
|         |                  |           |           |        |           |            |                 | Percent      | Percent   | Percent  | Percent  | Percent  | Percent  | Percent  | Percent  |       |      |
|         |                  |           |           |        |           |            |                 | 16 DA-A      | 14 DA-B   | 28 DA-B  | 56 DA-B  | 16 DA-A  | 14 DA-B  | 28 DA-B  | 56 DA-B  |       |      |
|         |                  |           |           |        |           |            |                 | -1 DA-B      | 14 DA-B   | 28 DA-B  | 56 DA-B  | -1 DA-B  | 14 DA-B  | 28 DA-B  | 56 DA-B  |       |      |
| Trt No. | Treatment Name   | Form Conc | Form Type | Rate   | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |          |          |          |          |          |          |       |      |
| 1       | NONTREATED       |           |           |        |           |            |                 |              |           | 0 f      | 0 f      | 0 g      | 0 g      | 0 f      | 0 d      | 0 d   | 0 c  |
| 2       | NO RESIDUAL HERB |           |           |        |           |            |                 |              |           | 0 f      | 62 de    | 53 ef    | 50 e     | 0 f      | 92 c     | 88 c  | 93 b |
| 2       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 2       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 2       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 2       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 3       | SONIC            | 70        | WG        | 0.14   | lb ai/a   | 3.2        | oz/a            | PRE          | A         | 43 cd    | 81 abc   | 81 abc   | 83 abc   | 40 cde   | 99 a     | 99 a  | 99 a |
| 3       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 3       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 3       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 3       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 4       | SONIC            | 70        | WG        | 0.28   | lb ai/a   | 6.4        | oz/a            | PRE          | A         | 55 bc    | 88 a     | 88 ab    | 91 abc   | 83 a     | 97 ab    | 96 ab | 98 a |
| 4       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 4       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 4       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 4       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 5       | CANOPY           | 75        | WG        | 0.14   | lb ai/a   | 3.0        | oz/a            | PRE          | A         | 10 ef    | 87 ab    | 86 ab    | 87 abc   | 52 bcd   | 98 a     | 96 ab | 97 a |
| 5       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 5       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 5       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 5       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 6       | CANOPY           | 75        | WG        | 0.28   | lb ai/a   | 6.0        | oz/a            | PRE          | A         | 0 f      | 88 a     | 88 ab    | 93 ab    | 50 cd    | 97 ab    | 97 ab | 98 a |
| 6       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 6       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 6       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 6       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 7       | PROWL H2O        | 3.8       | CS        | 0.594  | lb ai/a   | 1.25       | pt/a            | PRE          | A         | 0 f      | 62 de    | 57 def   | 47 ef    | 13 ef    | 97 ab    | 96 ab | 97 a |
| 7       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 7       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 7       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 7       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 8       | PROWL H2O        | 3.8       | CS        | 1.19   | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 0 f      | 53 e     | 45 f     | 30 f     | 28 def   | 95 bc    | 93 bc | 93 b |
| 8       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 8       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 8       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 8       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 9       | VALOR XLT        | 40.3      | WG        |        |           | 3.0        | oz/a            | PRE          | A         | 62 abc   | 85 ab    | 85 ab    | 80 abc   | 52 bcd   | 98 a     | 98 ab | 98 a |
| 9       | VALOR SX         | 51        | WG        | 0.056  | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |       |      |
| 9       | CLASSIC          | 25        | WG        | 0.0194 | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |       |      |
| 9       | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 9       | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 9       | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 9       | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 10      | VALOR XLT        | 40.3      | WG        |        |           | 5.0        | oz/a            | PRE          | A         | 78 a     | 85 ab    | 84 ab    | 77 abc   | 83 a     | 99 a     | 98 ab | 98 a |
| 10      | VALOR SX         | 51        | WG        | 0.093  | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |       |      |
| 10      | CLASSIC          | 25        | WG        | 0.0322 | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |       |      |
| 10      | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 10      | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 10      | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 10      | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 11      | PROWL H2O        | 3.8       | CS        | 1.19   | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 57 abc   | 70 b-e   | 68 b-e   | 57 de    | 28 def   | 98 ab    | 97 ab | 97 a |
| 11      | SCEPTER          | 70        | WG        | 0.061  | lb ai/a   | 1.4        | oz/a            | PRE          | A         |          |          |          |          |          |          |       |      |
| 11      | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 11      | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |       |      |
| 11      | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |
| 11      | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |       |      |

Weed Management for Conventional Soybean in Reduced-Till.

Trial ID: 08-11A-W90 Location: Belleville Res. Center

|                   |                |           |           |         |           |            |                 | CYPES        | CYPES     | CYPES    | CYPES    | AMBTR    | AMBTR    | AMBTR    | AMBTR    |         |         |
|-------------------|----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|----------|----------|----------|----------|----------|----------|---------|---------|
|                   |                |           |           |         |           |            |                 | 07-03-08     | 07-18-08  | 08-01-08 | 08-29-08 | 07-03-08 | 07-18-08 | 08-01-08 | 08-29-08 |         |         |
|                   |                |           |           |         |           |            |                 | Control      | Control   | Control  | Control  | Control  | Control  | Control  | Control  |         |         |
|                   |                |           |           |         |           |            |                 | Percent      | Percent   | Percent  | Percent  | Percent  | Percent  | Percent  | Percent  |         |         |
|                   |                |           |           |         |           |            |                 | 16 DA-A      | 14 DA-B   | 28 DA-B  | 56 DA-B  | 16 DA-A  | 14 DA-B  | 28 DA-B  | 56 DA-B  |         |         |
|                   |                |           |           |         |           |            |                 | -1 DA-B      | 14 DA-B   | 28 DA-B  | 56 DA-B  | -1 DA-B  | 14 DA-B  | 28 DA-B  | 56 DA-B  |         |         |
| Trt No.           | Treatment Name | Form Conc | Form Type | Rate    | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |          |          |          |          |          |          |         |         |
| 12                | PROWL H2O      | 3.8       | CS        | 1.19    | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 68 ab    | 77 a-d   | 77 a-d   | 57 de    | 63 abc   | 97 ab    | 95 ab   | 97 a    |
| 12                | SCEPTER        | 70        | WG        | 0.122   | lb ai/a   | 2.8        | oz/a            | PRE          | A         |          |          |          |          |          |          |         |         |
| 12                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 12                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 12                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| 12                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| 13                | PREFIX         | 5.29      | EC        | 0.66    | lb ai/a   | 1.0        | pt/a            | PRE          | A         | 0 f      | 65 cde   | 63 c-f   | 72 cd    | 10 f     | 99 a     | 99 a    | 99 a    |
| 13                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 13                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 13                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| 13                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| 14                | PREFIX         | 5.29      | EC        | 1.32    | lb ai/a   | 2.0        | pt/a            | PRE          | A         | 0 f      | 83 ab    | 82 abc   | 88 abc   | 0 f      | 99 a     | 99 a    | 99 a    |
| 14                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 14                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 14                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| 14                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| 15                | WEED FREE      |           |           |         |           |            |                 |              |           | 20 ef    | 94 a     | 94 a     | 96 a     | 87 a     | 97 ab    | 95 ab   | 97 a    |
| 15                | DUAL MAGNUM    | 7.62      | EC        | 1.27    | lb ai/a   | 1.33       | pt/a            | PRE          | A         |          |          |          |          |          |          |         |         |
| 15                | FIRSTRATE      | 84        | WG        | 0.0315  | lb ai/a   | 0.6        | oz/a            | PRE          | A         |          |          |          |          |          |          |         |         |
| 15                | ROUNDUP O-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 15                | N-PAK AMS      | 100       | SL        | 5.0     | % v/v     | 5          | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| 15                | HANDWEED       |           |           |         |           |            |                 |              |           |          |          |          |          |          |          |         |         |
| 16                | DPX-QER54      | 41.3      | WG        |         |           | 3.5        | oz/a            | PRE          | A         | 23 de    | 79 abc   | 78 abc   | 75 bcd   | 80 ab    | 98 ab    | 95 ab   | 97 a    |
| 16                | CLASSIC        | 25        | WG        | 0.02    | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |         |         |
| 16                | HARMONY GT XP  | 50        | SG        | 0.00643 | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |         |         |
| 16                | VALOR SX       | 51        | WG        | 0.0635  | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |         |         |
| 16                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 16                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |         |         |
| 16                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| 16                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |         |         |
| LSD (P=.05)       |                |           |           |         |           |            |                 |              |           | 22.8     | 17.6     | 20.2     | 19.3     | 29.6     | 3.2      | 5.4     | 3.0     |
| Replicate F       |                |           |           |         |           |            |                 |              |           | 0.470    | 0.174    | 0.400    | 0.275    | 0.615    | 1.954    | 1.093   | 0.599   |
| Replicate Prob(F) |                |           |           |         |           |            |                 |              |           | 0.6298   | 0.8409   | 0.6741   | 0.7617   | 0.5473   | 0.1593   | 0.3483  | 0.5555  |
| Treatment F       |                |           |           |         |           |            |                 |              |           | 13.780   | 13.714   | 11.284   | 15.268   | 9.543    | 487.921  | 166.309 | 562.783 |
| Treatment Prob(F) |                |           |           |         |           |            |                 |              |           | 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)



Weed Management for Conventional Soybean in Reduced-Till.

Trial ID: 08-11A-W90 Location: Belleville Res. Center

| Pest Code         |                  |           |           |        |           |            |                 | AMATA        | AMATA     | AMATA    | AMATA    | IPOSS    | IPOSS    | IPOSS    | IPOSS    |
|-------------------|------------------|-----------|-----------|--------|-----------|------------|-----------------|--------------|-----------|----------|----------|----------|----------|----------|----------|
| Crop Code         |                  |           |           |        |           |            |                 | 07-03-08     | 07-18-08  | 08-01-08 | 08-29-08 | 07-03-08 | 07-18-08 | 08-01-08 | 08-29-08 |
| Rating Date       |                  |           |           |        |           |            |                 | Control      | Control   | Control  | Control  | Control  | Control  | Control  | Control  |
| Rating Data Type  |                  |           |           |        |           |            |                 | Percent      | Percent   | Percent  | Percent  | Percent  | Percent  | Percent  | Percent  |
| Rating Unit       |                  |           |           |        |           |            |                 | 16 DA-A      | 14 DA-B   | 28 DA-B  | 56 DA-B  | 16 DA-A  | 14 DA-B  | 28 DA-B  | 56 DA-B  |
| Rating Timing     |                  |           |           |        |           |            |                 | -1 DA-B      | 14 DA-B   | 28 DA-B  | 56 DA-B  | -1 DA-B  | 14 DA-B  | 28 DA-B  | 56 DA-B  |
| Trt-Eval Interval |                  |           |           |        |           |            |                 |              |           |          |          |          |          |          |          |
| 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 b      | 0 b      | 0 b      | 0 f      | 0 g      |
| 2                 | NO RESIDUAL HERB |           |           |        |           |            |                 |              |           | 0 d      | 99 a     | 99 a     | 99 a     | 0 f      | 89 f     |
| 2                 | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 83 f     |
| 2                 | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 78 d     |
| 2                 | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 2                 | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 3                 | SONIC            | 70        | WG        | 0.14   | lb ai/a   | 3.2        | oz/a            | PRE          | A         | 98 a     | 99 a     | 99 a     | 99 a     | 82 ab    | 97 abc   |
| 3                 | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 96 ab    |
| 3                 | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |
| 3                 | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 3                 | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 4                 | SONIC            | 70        | WG        | 0.28   | lb ai/a   | 6.4        | oz/a            | PRE          | A         | 97 abc   | 99 a     | 99 a     | 99 a     | 91 a     | 99 a     |
| 4                 | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 99 a     |
| 4                 | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |
| 4                 | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 4                 | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 5                 | CANOPY           | 75        | WG        | 0.14   | lb ai/a   | 3.0        | oz/a            | PRE          | A         | 93 c     | 99 a     | 99 a     | 99 a     | 55 bcd   | 97 ab    |
| 5                 | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 92 a-e   |
| 5                 | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 93 abc   |
| 5                 | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 5                 | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 6                 | CANOPY           | 75        | WG        | 0.28   | lb ai/a   | 6.0        | oz/a            | PRE          | A         | 98 a     | 99 a     | 99 a     | 99 a     | 50 d     | 94 a-e   |
| 6                 | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 90 b-e   |
| 6                 | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 93 abc   |
| 6                 | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 6                 | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 7                 | PROWL H2O        | 3.8       | CS        | 0.594  | lb ai/a   | 1.25       | pt/a            | PRE          | A         | 94 bc    | 99 a     | 99 a     | 99 a     | 20 ef    | 93 b-f   |
| 7                 | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 90 b-e   |
| 7                 | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 82 d     |
| 7                 | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 7                 | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 8                 | PROWL H2O        | 3.8       | CS        | 1.19   | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 99 a     | 99 a     | 99 a     | 99 a     | 40 de    | 92 def   |
| 8                 | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 87 def   |
| 8                 | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 83 d     |
| 8                 | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 8                 | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 9                 | VALOR XLT        | 40.3      | WG        |        |           | 3.0        | oz/a            | PRE          | A         | 99 a     | 99 a     | 99 a     | 99 a     | 67 a-d   | 97 a-d   |
| 9                 | VALOR SX         | 51        | WG        | 0.056  | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          | 94 abc   |
| 9                 | CLASSIC          | 25        | WG        | 0.0194 | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          | 93 abc   |
| 9                 | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |
| 9                 | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |
| 9                 | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 9                 | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 10                | VALOR XLT        | 40.3      | WG        |        |           | 5.0        | oz/a            | PRE          | A         | 99 a     | 99 a     | 99 a     | 99 a     | 81 abc   | 99 a     |
| 10                | VALOR SX         | 51        | WG        | 0.093  | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          | 94 abc   |
| 10                | CLASSIC          | 25        | WG        | 0.0322 | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          | 93 abc   |
| 10                | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |
| 10                | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |
| 10                | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 10                | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 11                | PROWL H2O        | 3.8       | CS        | 1.19   | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 98 a     | 99 a     | 99 a     | 99 a     | 52 cd    | 92 def   |
| 11                | SCEPTER          | 70        | WG        | 0.061  | lb ai/a   | 1.4        | oz/a            | PRE          | A         |          |          |          |          |          | 88 c-f   |
| 11                | FLEXSTAR         | 1.88      | EC        | 0.294  | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          | 87 bcd   |
| 11                | FUSION           | 2.56      | EC        | 0.24   | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |
| 11                | DESTINY MSO      | 100       | SL        | 1.0    | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |
| 11                | 28% UAN          | 100       | SL        | 2.5    | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |

## Weed Management for Conventional Soybean in Reduced-Till.

Trial ID: 08-11A-W90

Location: Belleville Res. Center

|                   |                |           |           |         |           |            |                 |              |           | AMATA    | AMATA    | AMATA    | AMATA    | IPOSS    | IPOSS    | IPOSS    | IPOSS    |
|-------------------|----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                   |                |           |           |         |           |            |                 |              |           | 07-03-08 | 07-18-08 | 08-01-08 | 08-29-08 | 07-03-08 | 07-18-08 | 08-01-08 | 08-29-08 |
|                   |                |           |           |         |           |            |                 |              |           | Control  | Control  | Control  | Control  | Control  | Control  | Control  | Control  |
|                   |                |           |           |         |           |            |                 |              |           | Percent  | Percent  | Percent  | Percent  | Percent  | Percent  | Percent  | Percent  |
|                   |                |           |           |         |           |            |                 |              |           | 16 DA-A  | 14 DA-B  | 28 DA-B  | 56 DA-B  | 16 DA-A  | 14 DA-B  | 28 DA-B  | 56 DA-B  |
|                   |                |           |           |         |           |            |                 |              |           | -1 DA-B  | 14 DA-B  | 28 DA-B  | 56 DA-B  | -1 DA-B  | 14 DA-B  | 28 DA-B  | 56 DA-B  |
| Trt No.           | Treatment Name | Form Conc | Form Type | Rate    | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |          |          |          |          |          |          |          |          |
| 12                | PROWL H2O      | 3.8       | CS        | 1.19    | lb ai/a   | 2.5        | pt/a            | PRE          | A         | 99 a     | 99 a     | 99 a     | 99 a     | 80 abc   | 97 ab    | 93 a-d   | 93 abc   |
| 12                | SCEPTER        | 70        | WG        | 0.122   | lb ai/a   | 2.8        | oz/a            | PRE          | A         |          |          |          |          |          |          |          |          |
| 12                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 12                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 12                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| 12                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| 13                | PREFIX         | 5.29      | EC        | 0.66    | lb ai/a   | 1.0        | pt/a            | PRE          | A         | 95 abc   | 99 a     | 99 a     | 99 a     | 7 f      | 91 ef    | 86 ef    | 87 bcd   |
| 13                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 13                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 13                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| 13                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| 14                | PREFIX         | 5.29      | EC        | 1.32    | lb ai/a   | 2.0        | pt/a            | PRE          | A         | 98 ab    | 99 a     | 99 a     | 99 a     | 0 f      | 92 c-f   | 89 c-f   | 85 cd    |
| 14                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 14                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 14                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| 14                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| 15                | WEED FREE      |           |           |         |           |            |                 |              |           | 96 abc   | 99 a     | 99 a     | 99 a     | 86 a     | 96 a-d   | 96 ab    | 96 ab    |
| 15                | DUAL MAGNUM    | 7.62      | EC        | 1.27    | lb ai/a   | 1.33       | pt/a            | PRE          | A         |          |          |          |          |          |          |          |          |
| 15                | FIRSTRATE      | 84        | WG        | 0.0315  | lb ai/a   | 0.6        | oz/a            | PRE          | A         |          |          |          |          |          |          |          |          |
| 15                | ROUNDUP O-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 15                | N-PAK AMS      | 100       | SL        | 5.0     | % v/v     | 5          | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| 15                | HANDWEED       |           |           |         |           |            |                 |              |           |          |          |          |          |          |          |          |          |
| 16                | DPX-QER54      | 41.3      | WG        |         |           | 3.5        | oz/a            | PRE          | A         | 99 a     | 99 a     | 99 a     | 99 a     | 85 a     | 98 ab    | 97 a     | 97 a     |
| 16                | CLASSIC        | 25        | WG        | 0.02    | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |          |          |
| 16                | HARMONY GT XP  | 50        | SG        | 0.00643 | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |          |          |
| 16                | VALOR SX       | 51        | WG        | 0.0635  | lb ai/a   |            |                 | PRE          | A         |          |          |          |          |          |          |          |          |
| 16                | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 16                | FUSION         | 2.56      | EC        | 0.24    | lb ai/a   | 12         | fl oz/a         | 4"W          | B         |          |          |          |          |          |          |          |          |
| 16                | DESTINY MSO    | 100       | SL        | 1.0     | % v/v     | 1          | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| 16                | 28% UAN        | 100       | SL        | 2.5     | % v/v     | 2.5        | % v/v           | 4"W          | B         |          |          |          |          |          |          |          |          |
| LSD (P=.05)       |                |           |           |         |           |            |                 |              |           | 4.5      | 0.0      | 0.0      | 0.0      | 29.4     | 5.1      | 6.6      | 9.9      |
| Replicate F       |                |           |           |         |           |            |                 |              |           | 0.903    | 0.000    | 0.000    | 0.000    | 1.387    | 1.143    | 2.512    | 1.089    |
| Replicate Prob(F) |                |           |           |         |           |            |                 |              |           | 0.4163   | 1.0000   | 1.0000   | 1.0000   | 0.2654   | 0.3323   | 0.0980   | 0.3493   |
| Treatment F       |                |           |           |         |           |            |                 |              |           | 456.079  | 0.000    | 0.000    | 0.000    | 11.377   | 184.181  | 103.981  | 46.096   |
| Treatment Prob(F) |                |           |           |         |           |            |                 |              |           | 0.0001   | 1.0000   | 1.0000   | 1.0000   | 0.0001   | 0.0001   | 0.0001   | 0.0001   |

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

## Trial Comments

1. Protocol: ISA.
2. Ratings: CI/WC prior to POST; CI/WC 14, 28 + 56 DA POST.
3. Yield.
4. DA-A = Days after PRE application. DA-B = Days after 4"W application.
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.  
Following the PRE application on June 17, rainfall was 0.29 inch 3 days later and 0.35 inch 10 days later.
6. IPOSS = Morningglory species including IPOHE and IPOLA.
7. Harvested 10-29-08, (2) 30 inch rows by 23 ft.