

## ISA POST Tank-Mix Study.

Trial ID: 09-DeSoto-ISA-TM      Location: De Soto, IL

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu  
 City State Zip Country: De Soto IL 62924 USA  
 Trial Status: FINAL      Initiation Date: 05-23-09

**Objectives:** Identify any positive or negative interactions when tank-mixing other broadleaf herbicides with glyphosate to achieve consistent and broad-spectrum weed control.

Crop 1: GLXMA Soybean      Variety: AG 4404      Description: RR/STS  
 Planting Method: SEED      Planting Date: 05-23-09  
 Rate, Unit: 180000 S/A      Depth, Unit: 1.25 IN  
 Row Spacing, Unit: 30 IN  
 Soil Moisture: ABOVE NORMAL

Pest 1 Type: W      Code: AMATA      Amaranthus rudis Sauer      waterhemp, common  
 Pest Description: glyphosate-resistant waterhemp

Plot Width, Unit: 10 FT      Site Type: FIELD  
 Plot Length, Unit: 30 FT      Tillage Type: NO-TILL  
 Replications: 3      Study Design: Randomized Complete Block

Prior Crops, Year  
 1. GLXMA 2008

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

% OM: 2.5      Texture: SILT LOAM  
 pH: 6.8      Soil Name: OKAW  
 CEC: 12      Fert. Level: P1 88 LB/A, K 207 LB/A

|                         | Application Description |          |          |          |
|-------------------------|-------------------------|----------|----------|----------|
|                         | A                       | B        | C        | D        |
| Application Date:       | 05-23-09                | 06-22-09 | 06-26-09 | 06-30-09 |
| Time of Day:            | 8:45                    | 12:45    | 10:00    | 8:15     |
| Application Method:     | Spray                   | Spray    | Spray    | Spray    |
| Application Timing:     | PRE                     | MPOST    | LPOST    | 4"W      |
| Application Placement:  | BROFOL                  | BROFOL   | BROFOL   | BROFOL   |
| Applied By:             | NRJ                     | DKP      | DKT      | DKT      |
| Air Temperature, Unit:  | 73 F                    | 99 F     | 92 F     | 84 F     |
| % Relative Humidity:    | 87                      | 41       | 34       | 34       |
| Wind Velocity, Unit:    | 1 MPH                   | 1 MPH    | 2 MPH    | 1 MPH    |
| Wind Direction:         | NW                      | NW       | N        | SE       |
| Dew Presence (Y/N):     | N                       | N        | N        | N        |
| Soil Temperature, Unit: | 70 F                    | 80 F     | 88 F     | 80 F     |
| Soil Moisture:          | NORMAL                  | NORMAL   | NORMAL   | NORMAL   |
| % Cloud Cover:          | 90                      | 50       | 75       | 20       |

|                            | 05-23-09 | 06-22-09 | 06-26-09 | 06-30-09 |
|----------------------------|----------|----------|----------|----------|
| Crop stage at application: | NA       | V3       | V5       | V5       |
| Height Min, Max (inch):    |          | 10 12    | 10 12    | 10 12    |

|                          | Pest Stage At Each Application |          |          |          |
|--------------------------|--------------------------------|----------|----------|----------|
|                          | 05-23-09                       | 06-22-09 | 06-26-09 | 06-30-09 |
| Application Date:        | 05-23-09                       | 06-22-09 | 06-26-09 | 06-30-09 |
| Weed Code:               | AMATA                          | AMATA    | AMATA    | AMATA    |
| Stage Majority (leaves): | NA                             | 6        | 18       | 8        |
| Stage Min, Max:          |                                | COTY 14  | 4 26     | 2 12     |
| Height Majority:         |                                | 6 IN     | 10 IN    | 4 IN     |
| Height Min, Max:         |                                | 0.25 14  | 3 14     | 2 8      |
| Density, Unit:           |                                | 20 FT2   | 20 FT2   | 4 FT2    |

## Application Equipment

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

## ISA POST Tank-Mix Study.

Trial ID: 09-DeSoto-ISA-TM      Location: De Soto, IL

| Pest Code<br>Crop Code<br>Rating Date<br>Rating Data Type<br>Rating Unit<br>Rating Timing<br>Trt-Eval Interval |                |           |           |         |           |            |                 |              |           | GLXMA<br>11-06-09<br>Moisture<br>Percent |     | GLXMA<br>11-06-09<br>Test wt.<br>lb/bu |     | GLXMA<br>11-06-09<br>Yield<br>bu/A |     | GLXMA<br>Injury<br>Percent | GLXMA<br>Injury<br>Percent | GLXMA<br>Injury<br>Percent |     |   |   |
|----------------------------------------------------------------------------------------------------------------|----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|------------------------------------------|-----|----------------------------------------|-----|------------------------------------|-----|----------------------------|----------------------------|----------------------------|-----|---|---|
|                                                                                                                |                |           |           |         |           |            |                 |              |           | 7 DAT                                    |     | 14 DAT                                 |     | 28 DAT                             |     |                            |                            |                            |     |   |   |
| Trt No.                                                                                                        | Treatment Name | Form Conc | Form Type | Rate    | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 1                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.2                                     | a-e | 53.1                                   | a-e | 38                                 | ghi | 0                          | i                          | 0                          | g   | 0 | d |
| 1                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 2                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 1.13    | lb ae/a   | 32         | fl oz/a         | MPOST        | B         | 11.0                                     | de  | 53.4                                   | a-d | 45                                 | a-f | 0                          | i                          | 0                          | g   | 0 | d |
| 2                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 3                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 1.55    | lb ae/a   | 44         | fl oz/a         | MPOST        | B         | 10.7                                     | e   | 52.8                                   | a-e | 42                                 | c-h | 1                          | hi                         | 0                          | g   | 0 | d |
| 3                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 4                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.0                                     | de  | 53.3                                   | a-e | 47                                 | abc | 0                          | i                          | 0                          | g   | 0 | d |
| 4                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 4                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 4                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 5                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 1.13    | lb ae/a   | 32         | fl oz/a         | MPOST        | B         | 11.5                                     | a-e | 53.3                                   | a-e | 46                                 | a-d | 0                          | i                          | 0                          | g   | 0 | d |
| 5                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 5                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 1.13    | lb ae/a   | 32         | fl oz/a         | LPOST        | C         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 5                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 6                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 12.2                                     | abc | 53.0                                   | a-e | 44                                 | a-f | 32                         | b                          | 15                         | ab  | 3 | c |
| 6                                                                                                              | COBRA          | 2         | EC        | 0.094   | lb ai/a   | 6          | fl oz/a         | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 6                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 7                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.7                                     | a-e | 52.0                                   | de  | 40                                 | e-h | 38                         | a                          | 18                         | a   | 5 | b |
| 7                                                                                                              | COBRA          | 2         | EC        | 0.188   | lb ai/a   | 12         | fl oz/a         | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 7                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 8                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.5                                     | a-e | 53.6                                   | a-d | 47                                 | a-d | 2                          | ghi                        | 1                          | fg  | 0 | d |
| 8                                                                                                              | FLEXSTAR       | 1.88      | EC        | 0.147   | lb ai/a   | 10         | fl oz/a         | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 8                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 9                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.1                                     | b-e | 53.5                                   | a-d | 49                                 | a   | 11                         | de                         | 4                          | def | 0 | d |
| 9                                                                                                              | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 9                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 10                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.6                                     | a-e | 53.5                                   | a-d | 38                                 | hi  | 0                          | i                          | 0                          | g   | 0 | d |
| 10                                                                                                             | FIRSTRATE      | 84        | WG        | 0.0158  | lb ai/a   | 0.3        | oz/a            | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 10                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 11                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.8                                     | a-e | 52.8                                   | a-e | 46                                 | a-e | 5                          | fg                         | 3                          | efg | 0 | d |
| 11                                                                                                             | RESOURCE       | 0.86      | EC        | 0.027   | lb ai/a   | 4          | fl oz/a         | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 11                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 12                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 12.3                                     | a   | 52.2                                   | b-e | 45                                 | a-f | 4                          | fgh                        | 1                          | fg  | 0 | d |
| 12                                                                                                             | RESOURCE       | 0.86      | EC        | 0.054   | lb ai/a   | 8          | fl oz/a         | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 12                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 13                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 12.3                                     | ab  | 51.8                                   | e   | 44                                 | a-h | 9                          | de                         | 4                          | de  | 0 | d |
| 13                                                                                                             | CADET          | 0.91      | EC        | 0.00427 | lb ai/a   | 0.6        | fl oz/a         | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 13                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 14                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.7                                     | a-e | 52.5                                   | a-e | 39                                 | f-i | 0                          | i                          | 0                          | g   | 0 | d |
| 14                                                                                                             | PURSUIT        | 2         | SL        | 0.0625  | lb ai/a   | 4          | fl oz/a         | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 14                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 15                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         | 11.4                                     | a-e | 52.4                                   | a-e | 46                                 | a-d | 0                          | i                          | 0                          | g   | 0 | d |
| 15                                                                                                             | SYNCHRONY XP   | 28.4      | WG        |         |           | 0.375      | oz/a            | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 15                                                                                                             | CLASSIC        | 25        | WG        | 0.00504 | lb ai/a   |            |                 | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 15                                                                                                             | HARMONY SG     | 50        | SG        | 0.00162 | lb ai/a   |            |                 | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 15                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 16                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         | 11.4                                     | a-e | 53.7                                   | abc | 47                                 | a-d | 0                          | i                          | 0                          | g   | 0 | d |
| 16                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 17                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 1.13    | lb ae/a   | 32         | fl oz/a         | LPOST        | C         | 11.5                                     | a-e | 53.9                                   | a   | 42                                 | b-h | 0                          | i                          | 0                          | g   | 0 | d |
| 17                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |
| 18                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 1.55    | lb ae/a   | 44         | fl oz/a         | LPOST        | C         | 12.1                                     | a-d | 52.4                                   | a-e | 42                                 | c-h | 0                          | i                          | 0                          | g   | 0 | d |
| 18                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                          |     |                                        |     |                                    |     |                            |                            |                            |     |   |   |

## ISA POST Tank-Mix Study.

Trial ID: 09-DeSoto-ISA-TM Location: De Soto, IL

| Pest Code         |                 |      |      |         |         |       |         |        |      | GLXMA               | GLXMA    | GLXMA    | GLXMA   | GLXMA   | GLXMA   |        |     |        |    |        |    |
|-------------------|-----------------|------|------|---------|---------|-------|---------|--------|------|---------------------|----------|----------|---------|---------|---------|--------|-----|--------|----|--------|----|
| Crop Code         |                 |      |      |         |         |       |         |        |      | 11-06-09            | 11-06-09 | 11-06-09 |         |         |         |        |     |        |    |        |    |
| Rating Date       |                 |      |      |         |         |       |         |        |      | Moisture            | Test wt. | Yield    | Injury  | Injury  | Injury  |        |     |        |    |        |    |
| Rating Data Type  |                 |      |      |         |         |       |         |        |      | Percent             | lb/bu    | bu/A     | Percent | Percent | Percent |        |     |        |    |        |    |
| Rating Unit       |                 |      |      |         |         |       |         |        |      |                     |          |          |         |         |         |        |     |        |    |        |    |
| Rating Timing     |                 |      |      |         |         |       |         |        |      |                     |          |          |         |         |         |        |     |        |    |        |    |
| Trt-Eval Interval |                 |      |      |         |         |       |         |        |      | 7 DAT 14 DAT 28 DAT |          |          |         |         |         |        |     |        |    |        |    |
| Trt               | Treatment       | Form | Form |         | Rate    | Other | Other   | Growth | Appl |                     |          |          |         |         |         |        |     |        |    |        |    |
| No.               | Name            | Conc | Type | Rate    | Unit    | Rate  | Rate    | Stage  | Code |                     |          |          |         |         |         |        |     |        |    |        |    |
| 19                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 10.9                | e        | 53.7     | abc     | 45      | a-f     | 30     | b   | 12     | c  | 7      | a  |
| 19                | COBRA           | 2    | EC   | 0.094   | lb ai/a | 6     | fl oz/a | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 19                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 20                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 11.5                | a-e      | 53.5     | a-d     | 46      | a-d     | 38     | a   | 13     | bc | 4      | bc |
| 20                | COBRA           | 2    | EC   | 0.188   | lb ai/a | 12    | fl oz/a | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 20                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 21                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 11.5                | a-e      | 53.5     | a-d     | 47      | abc     | 8      | ef  | 3      | ef | 0      | d  |
| 21                | FLEXSTAR        | 1.88 | EC   | 0.147   | lb ai/a | 10    | fl oz/a | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 21                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 22                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 11.4                | a-e      | 53.3     | a-e     | 45      | a-f     | 13     | cd  | 6      | de | 0      | d  |
| 22                | FLEXSTAR        | 1.88 | EC   | 0.294   | lb ai/a | 20    | fl oz/a | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 22                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 23                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 11.5                | a-e      | 53.5     | a-d     | 45      | a-f     | 0      | i   | 0      | g  | 0      | d  |
| 23                | FIRSTRATE       | 84   | WG   | 0.0158  | lb ai/a | 0.3   | oz/a    | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 23                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 24                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 11.4                | a-e      | 52.1     | cde     | 41      | d-h     | 4      | fgh | 1      | fg | 0      | d  |
| 24                | RESOURCE        | 0.86 | EC   | 0.027   | lb ai/a | 4     | fl oz/a | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 24                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 25                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 11.1                | cde      | 53.8     | ab      | 48      | ab      | 12     | cd  | 5      | de | 0      | d  |
| 25                | RESOURCE        | 0.86 | EC   | 0.054   | lb ai/a | 8     | fl oz/a | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 25                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 26                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 11.2                | a-e      | 53.5     | a-d     | 44      | a-g     | 15     | c   | 7      | d  | 0      | d  |
| 26                | CADET           | 0.91 | EC   | 0.00427 | lb ai/a | 0.6   | fl oz/a | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 26                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 27                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 12.1                | a-d      | 52.4     | a-e     | 44      | a-h     | 0      | i   | 0      | g  | 0      | d  |
| 27                | PURSUIT         | 2    | SL   | 0.0625  | lb ai/a | 4     | fl oz/a | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 27                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 28                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | LPOST  | C    | 11.5                | a-e      | 53.0     | a-e     | 45      | a-f     | 0      | i   | 0      | g  | 0      | d  |
| 28                | SYNCHRONY XP    | 28.4 | WG   |         |         | 0.375 | oz/a    | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 28                | CLASSIC         | 25   | WG   | 0.00504 | lb ai/a |       |         | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 28                | HARMONY SG      | 50   | SG   | 0.00162 | lb ai/a |       |         | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 28                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | LPOST  | C    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 29                | AUTHORITY FIRST | 70   | WG   | 0.131   | lb ai/a | 3     | oz/a    | PRE    | A    | 10.9                | e        | 52.5     | a-e     | 46      | a-d     | 0      | i   | 0      | g  | 0      | d  |
| 29                | ROUNDUP P-MAX   | 4.5  | SL   | 0.77    | lb ae/a | 22    | fl oz/a | 4"W    | D    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 29                | N-PAK AMS       | 100  | SL   | 5       | % v/v   | 5     | % v/v   | 4"W    | D    |                     |          |          |         |         |         |        |     |        |    |        |    |
| 30                | NONTREATED      |      |      |         |         |       |         |        |      | 11.4                | a-e      | 53.7     | abc     | 34      | i       | 0      | i   | 0      | g  | 0      | d  |
| LSD (P=.05)       |                 |      |      |         |         |       |         |        |      | 1.15                |          | 1.66     |         | 6.0     |         | 3.4    |     | 3.1    |    | 1.2    |    |
| Replicate F       |                 |      |      |         |         |       |         |        |      | 1.128               |          | 1.911    |         | 0.528   |         | 4.756  |     | 1.761  |    | 0.554  |    |
| Replicate Prob(F) |                 |      |      |         |         |       |         |        |      | 0.3306              |          | 0.1572   |         | 0.5928  |         | 0.0122 |     | 0.1810 |    | 0.5776 |    |
| Treatment F       |                 |      |      |         |         |       |         |        |      | 1.038               |          | 1.074    |         | 2.658   |         | 97.225 |     | 20.193 |    | 18.217 |    |
| Treatment Prob(F) |                 |      |      |         |         |       |         |        |      | 0.4397              |          | 0.3981   |         | 0.0008  |         | 0.0001 |     | 0.0001 |    | 0.0001 |    |

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

## ISA POST Tank-Mix Study.

Trial ID: 09-DeSoto-ISA-TM Location: De Soto, IL

|                                                                                                                |                |           |           |         |           |            |                 |              |           | AMATA-HR                                | AMATA-HR                     | AMATA-HR                     | AMATA-HR                     |
|----------------------------------------------------------------------------------------------------------------|----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|-----------------------------------------|------------------------------|------------------------------|------------------------------|
| Pest Code<br>Crop Code<br>Rating Date<br>Rating Data Type<br>Rating Unit<br>Rating Timing<br>Trt-Eval Interval |                |           |           |         |           |            |                 |              |           | Control<br>Percent<br>30 DA-A<br>0 DA-B | Control<br>Percent<br>14 DAT | Control<br>Percent<br>28 DAT | Control<br>Percent<br>56 DAT |
| Trt No.                                                                                                        | Treatment Name | Form Conc | Form Type | Rate    | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |                                         |                              |                              |                              |
| 1                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 43 j                         | 35 i                         | 25 jk                        |
| 1                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 2                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 1.13    | lb ae/a   | 32         | fl oz/a         | MPOST        | B         |                                         | 55 g-j                       | 53 f-i                       | 37 ij                        |
| 2                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 3                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 1.55    | lb ae/a   | 44         | fl oz/a         | MPOST        | B         |                                         | 48 hij                       | 47 ghi                       | 38 hij                       |
| 3                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 4                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 80 a-f                       | 78 a-e                       | 73 a-e                       |
| 4                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 4                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |                                         |                              |                              |                              |
| 4                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                         |                              |                              |                              |
| 5                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 1.13    | lb ae/a   | 32         | fl oz/a         | MPOST        | B         |                                         | 88 a-d                       | 87 ab                        | 85 a-d                       |
| 5                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 5                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 1.13    | lb ae/a   | 32         | fl oz/a         | LPOST        | C         |                                         |                              |                              |                              |
| 5                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                         |                              |                              |                              |
| 6                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 96 a                         | 94 a                         | 89 ab                        |
| 6                                                                                                              | COBRA          | 2         | EC        | 0.094   | lb ai/a   | 6          | fl oz/a         | MPOST        | B         |                                         |                              |                              |                              |
| 6                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 7                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 94 ab                        | 93 a                         | 87 abc                       |
| 7                                                                                                              | COBRA          | 2         | EC        | 0.188   | lb ai/a   | 12         | fl oz/a         | MPOST        | B         |                                         |                              |                              |                              |
| 7                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 8                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 75 a-g                       | 71 a-f                       | 67 a-g                       |
| 8                                                                                                              | FLEXSTAR       | 1.88      | EC        | 0.147   | lb ai/a   | 10         | fl oz/a         | MPOST        | B         |                                         |                              |                              |                              |
| 8                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 9                                                                                                              | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 92 abc                       | 88 ab                        | 85 a-d                       |
| 9                                                                                                              | FLEXSTAR       | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | MPOST        | B         |                                         |                              |                              |                              |
| 9                                                                                                              | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 10                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 62 f-j                       | 56 e-i                       | 39 f-j                       |
| 10                                                                                                             | FIRSTRATE      | 84        | WG        | 0.0158  | lb ai/a   | 0.3        | oz/a            | MPOST        | B         |                                         |                              |                              |                              |
| 10                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 11                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 45 ij                        | 42 hi                        | 39 g-j                       |
| 11                                                                                                             | RESOURCE       | 0.86      | EC        | 0.027   | lb ai/a   | 4          | fl oz/a         | MPOST        | B         |                                         |                              |                              |                              |
| 11                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 12                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 76 a-g                       | 71 a-f                       | 59 c-i                       |
| 12                                                                                                             | RESOURCE       | 0.86      | EC        | 0.054   | lb ai/a   | 8          | fl oz/a         | MPOST        | B         |                                         |                              |                              |                              |
| 12                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 13                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 65 d-j                       | 63 c-h                       | 42 f-j                       |
| 13                                                                                                             | CADET          | 0.91      | EC        | 0.00427 | lb ai/a   | 0.6        | fl oz/a         | MPOST        | B         |                                         |                              |                              |                              |
| 13                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 14                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 60 f-j                       | 55 e-i                       | 40 f-j                       |
| 14                                                                                                             | PURSUIT        | 2         | SL        | 0.0625  | lb ai/a   | 4          | fl oz/a         | MPOST        | B         |                                         |                              |                              |                              |
| 14                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 15                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | MPOST        | B         |                                         | 78 a-g                       | 80 a-d                       | 68 a-f                       |
| 15                                                                                                             | SYNCHRONY XP   | 28.4      | WG        |         |           | 0.375      | oz/a            | MPOST        | B         |                                         |                              |                              |                              |
| 15                                                                                                             | CLASSIC        | 25        | WG        | 0.00504 | lb ai/a   |            |                 | MPOST        | B         |                                         |                              |                              |                              |
| 15                                                                                                             | HARMONY SG     | 50        | SG        | 0.00162 | lb ai/a   |            |                 | MPOST        | B         |                                         |                              |                              |                              |
| 15                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | MPOST        | B         |                                         |                              |                              |                              |
| 16                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |                                         | 69 c-i                       | 66 b-g                       | 61 c-i                       |
| 16                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                         |                              |                              |                              |
| 17                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 1.13    | lb ae/a   | 32         | fl oz/a         | LPOST        | C         |                                         | 67 d-j                       | 66 b-g                       | 58 d-i                       |
| 17                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                         |                              |                              |                              |
| 18                                                                                                             | ROUNDUP P-MAX  | 4.5       | SL        | 1.55    | lb ae/a   | 44         | fl oz/a         | LPOST        | C         |                                         | 65 d-j                       | 65 b-h                       | 63 b-i                       |
| 18                                                                                                             | N-PAK AMS      | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |                                         |                              |                              |                              |

## ISA POST Tank-Mix Study.

Trial ID: 09-DeSoto-ISA-TM      Location: De Soto, IL

|                   |  |          |          |          |          |
|-------------------|--|----------|----------|----------|----------|
| Pest Code         |  | AMATA-HR | AMATA-HR | AMATA-HR | AMATA-HR |
| Crop Code         |  |          |          |          |          |
| Rating Date       |  |          |          |          |          |
| Rating Data Type  |  |          |          |          |          |
| Rating Unit       |  | Control  | Control  | Control  | Control  |
| Rating Timing     |  | Percent  | Percent  | Percent  | Percent  |
| Trt-Eval Interval |  | 30 DA-A  | 14 DAT   | 28 DAT   | 56 DAT   |
|                   |  | 0 DA-B   |          |          |          |

| Trt No.           | Treatment Name  | Form Conc | Form Type | Rate    | Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code |           |        |        |        |
|-------------------|-----------------|-----------|-----------|---------|-----------|------------|-----------------|--------------|-----------|-----------|--------|--------|--------|
| 19                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 86     | a-e    | 74 a-e |
| 19                | COBRA           | 2         | EC        | 0.094   | lb ai/a   | 6          | fl oz/a         | LPOST        | C         |           |        |        |        |
| 19                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 20                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 78     | a-g    | 72 a-e |
| 20                | COBRA           | 2         | EC        | 0.188   | lb ai/a   | 12         | fl oz/a         | LPOST        | C         |           |        |        |        |
| 20                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 21                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 83     | a-f    | 79 a-e |
| 21                | FLEXSTAR        | 1.88      | EC        | 0.147   | lb ai/a   | 10         | fl oz/a         | LPOST        | C         |           |        |        |        |
| 21                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 22                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 87     | a-e    | 85 a-d |
| 22                | FLEXSTAR        | 1.88      | EC        | 0.294   | lb ai/a   | 20         | fl oz/a         | LPOST        | C         |           |        |        |        |
| 22                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 23                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 68     | c-i    | 55 e-i |
| 23                | FIRSTRATE       | 84        | WG        | 0.0158  | lb ai/a   | 0.3        | oz/a            | LPOST        | C         |           |        |        |        |
| 23                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 24                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 70     | b-h    | 60 c-i |
| 24                | RESOURCE        | 0.86      | EC        | 0.027   | lb ai/a   | 4          | fl oz/a         | LPOST        | C         |           |        |        |        |
| 24                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 25                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 67     | d-j    | 65 a-h |
| 25                | RESOURCE        | 0.86      | EC        | 0.054   | lb ai/a   | 8          | fl oz/a         | LPOST        | C         |           |        |        |        |
| 25                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 26                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 63     | e-j    | 57 e-i |
| 26                | CADET           | 0.91      | EC        | 0.00427 | lb ai/a   | 0.6        | fl oz/a         | LPOST        | C         |           |        |        |        |
| 26                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 27                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 68     | c-i    | 63 b-i |
| 27                | PURSUIT         | 2         | SL        | 0.0625  | lb ai/a   | 4          | fl oz/a         | LPOST        | C         |           |        |        |        |
| 27                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 28                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | LPOST        | C         |           | 83     | a-f    | 77 a-e |
| 28                | SYNCHRONY XP    | 28.4      | WG        |         |           | 0.375      | oz/a            | LPOST        | C         |           |        |        |        |
| 28                | CLASSIC         | 25        | WG        | 0.00504 | lb ai/a   |            |                 | LPOST        | C         |           |        |        |        |
| 28                | HARMONY SG      | 50        | SG        | 0.00162 | lb ai/a   |            |                 | LPOST        | C         |           |        |        |        |
| 28                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | LPOST        | C         |           |        |        |        |
| 29                | AUTHORITY FIRST | 70        | WG        | 0.131   | lb ai/a   | 3          | oz/a            | PRE          | A         | 94        | a      | 95 a   | 93 a   |
| 29                | ROUNDUP P-MAX   | 4.5       | SL        | 0.77    | lb ae/a   | 22         | fl oz/a         | 4"W          | D         |           |        |        |        |
| 29                | N-PAK AMS       | 100       | SL        | 5       | % v/v     | 5          | % v/v           | 4"W          | D         |           |        |        |        |
| 30                | NONTREATED      |           |           |         |           |            |                 |              |           | 0         | b      | 0 k    | 0 k    |
| LSD (P=.05)       |                 |           |           |         |           |            |                 |              |           | 2.9       | 24.3   | 23.9   | 28.3   |
| Replicate F       |                 |           |           |         |           |            |                 |              |           | 1.000     | 16.972 | 16.648 | 10.910 |
| Replicate Prob(F) |                 |           |           |         |           |            |                 |              |           | 0.5000    | 0.0001 | 0.0001 | 0.0001 |
| Treatment F       |                 |           |           |         |           |            |                 |              |           | 20022.252 | 5.135  | 5.477  | 4.566  |
| Treatment Prob(F) |                 |           |           |         |           |            |                 |              |           | 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: Visual crop response estimates at 7, 14, and 28 DAT.  
Visual estimates of control, by species, at 14 and 28 DAT (rate all plots at 28 days after the LPOST timing); late-season rating of all plots at 56 DAT or at crop harvest.  
Evaluate the PRE/POST treatment prior to the POST application and again based on DAT from the respective POST timing in that treatment.
3. MPOST = 3-5"W; LPOST = 6-10"W.

ISA POST Tank-Mix Study.

Trial ID: 09-DeSoto-ISA-TM      Location: De Soto, IL

4. Take weed counts in nontreated at the "B" application timing (No./0.5 m<sup>2</sup>).
5. Yield.
6. Blanket burndown application of Roundup PowerMax (32 fl oz/A) + 2,4-D (1 pt/A) + AMS (1% w/w) was applied on 4-26-09.
7. AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
8. AMATA-HR plants per 0.5 square meter in the nontreated plots on 6-22-09 at the MPOST (B) application were 142, 158, and 74 in plots 130, 209, and 316, respectively.
9. DAT = Days after various POST applications. For treatments 4 and 5 ratings are after the last application.  
Ratings at 30 DA-A were on 6-22-09.  
Ratings at 7 days after the MPOST, LPOST and 4"W applications were on 6-29-09, 7-3-09, and 7-7-09, respectively.  
Ratings at 14 days after the MPOST, LPOST and 4"W applications were on 7-6-09, 7-10-09, and 7-14-09, respectively.  
Ratings at 28 days after the MPOST, LPOST and 4"W applications were on 7-20-09, 7-24-09, and 7-28-09, respectively.  
Ratings at 56 days after the MPOST, LPOST and 4"W applications were on 8-17-09, 8-21-09, and 8-25-09, respectively.
10. Harvested 11-6-09, (2) 30 inch rows by 26.7 ft.