

**Protecting soybean yield with Liberty Ultra weed control programs**

Trial ID: SOY04-25 Study Dir.: Stiles, Sprague  
 Conducted: Campus, C-12 Investigator: Christy Sprague

**Planting Date:** May-14-2025 **Row Spacing:** 30 "  
**Variety:** P23Z82E **No. of Reps:** 4  
**Population:** 150000 S/A **% OM:** 2.9  
**Soil Type:** CL clay loam **pH:** 7.2  
**Plot Size:** 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel and soil finish; spring soil finish twice.

**Fertilizer:**

**Crop and Weed Description**

| Weed | Code  | Common Name          | Scientific Name                        |
|------|-------|----------------------|----------------------------------------|
| 1    | ANGR  | annual grass         | mainly giant foxtail and barnyardgrass |
| 2    | CHEAL | common lambsquarters | Chenopodium album                      |
| 3    | AMBEL | common ragweed       | Ambrosia artemisiifolia                |

| Crop | Code  | Common Name |
|------|-------|-------------|
| 1    | GLXMA | Soybean     |

**Application Description**

|                                       | A           | B           | C           |
|---------------------------------------|-------------|-------------|-------------|
| <b>Application Timing:</b>            | PRE         | EPOS        | POST        |
| <b>Date Treated:</b>                  | May-14-2025 | Jun-17-2025 | Jun-20-2025 |
| <b>Time Treated:</b>                  | 3:00 PM     | 9:30 AM     | 2:45 PM     |
| <b>% Cloud Cover:</b>                 | 77          | 0           | 76          |
| <b>Air Temp., Unit:</b>               | 70 F        | 74 F        | 77 F        |
| <b>% Relative Humidity:</b>           | 90          | 82          | 71          |
| <b>Wind Speed/Unit/Dir:</b>           | 7 MPH SSE   | 3 MPH S     | 4 MPH W     |
| <b>Soil Temp, Unit:</b>               | 78 F        | 75 F        | 79 F        |
| <b>Leaf Moist/Dew Presence (Y/N):</b> | N           | N           | N           |
| <b>Soil Moist:</b>                    | 5           | 5           | 2           |

**Crop Stage at Each Application**

|                     | A     | B         | C         |
|---------------------|-------|-----------|-----------|
| <b>Crop 1 Name:</b> | GLXMA | GLXMA     | GLXMA     |
| <b>Height:</b>      |       | 4-6 " (5) | 5-7 " (6) |
| <b>Stage:</b>       |       | V2        | V2        |

**Weed Stage at Each Application**

|                     | A     | B           | C               |
|---------------------|-------|-------------|-----------------|
| <b>Weed 1 Name:</b> | ANGR  | ANGR        | ANGR            |
| <b>Height:</b>      |       | 0.5-5 " (4) | 0.5-3 " (1.75)  |
| <b>Stage:</b>       |       | 2-8L        | 2-6L            |
| <b>Weed 2 Name:</b> | CHEAL | CHEAL       | CHEAL           |
| <b>Height:</b>      |       | 2-4 " (3)   | 0.5-2.5 " (1.5) |
| <b>Stage:</b>       |       | 2-18L       | 2-8L            |
| <b>Weed 3 Name:</b> | AMBEL | AMBEL       | AMBEL           |
| <b>Height:</b>      |       | 2-5 " (4)   | 1-3 " (2)       |
| <b>Stage:</b>       |       | 4-8L        | 4-8L            |

**Weed Density**

|                   | 1           | 2           | 3           |
|-------------------|-------------|-------------|-------------|
| <b>Date:</b>      | Jun-17-2025 | Jun-17-2025 | Jun-17-2025 |
| <b>Weed Name:</b> | ANGR        | CHEAL       | AMBEL       |
| <b>Density:</b>   | 4 FT2       | 3 FT2       | 7 FT2       |

**Application Equipment**

| Appl | Sprayer Type | Ground Speed | Nozzle Type | Nozzle Size | Nozzle Height | Nozzle Spacing | Boom Width | Spray Volume | Carrier | Operation Pressure |
|------|--------------|--------------|-------------|-------------|---------------|----------------|------------|--------------|---------|--------------------|
| A    | CUB          | 3.8 MPH      | AIXR        | 11003       | 18.0 "        | 20.0 "         | 100.0 "    | 19 GAL/AC    | WATER   | 30 PSI             |
| B    | CUB          | 3.8 MPH      | AIXR        | 11003       | 24.0 "        | 20.0 "         | 100.0 "    | 19 GAL/AC    | WATER   | 30 PSI             |
| C    | CUB          | 3.8 MPH      | AIXR        | 11003       | 24.0 "        | 20.0 "         | 100.0 "    | 19 GAL/AC    | WATER   | 30 PSI             |

**Comments:** Common ragweed at this location is Group 2 (ALS) resistant.

## Michigan State University

Protecting soybean yield with Liberty Ultra weed control programs

Trial ID: SOY04-25

Protocol ID: SOY04-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

| Rating Date              |                |              |      |           | Jun-17-2025 | Jun-17-2025 | Jun-17-2025 | Jun-17-2025 | Jun-24-2025 | Jun-24-2025 | Jun-24-2025 |
|--------------------------|----------------|--------------|------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Rating Type              |                |              |      |           | injury      | control     | control     | control     | injury      | control     | control     |
| Rating Unit              |                |              |      |           | %           | %           | %           | %           | %           | %           | %           |
| Crop Type, Code          |                |              |      |           | C, GLXMA    |             |             |             | C, GLXMA    |             |             |
| Pest Code                |                |              |      |           |             | ANGR        | CHEAL       | AMBEL       |             | ANGR        | CHEAL       |
| Treatment Appl. Interval |                |              |      |           | 34 DA-A     | 34 DA-A     | 34 DA-A     | 34 DA-A     | 7 DA-B      | 7 DA-B      | 7 DA-B      |
| Number of Decimals       |                |              |      |           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Trt No.                  | Treatment Name | Rate         | Unit | Appl Code | Appl Timing |             |             |             |             |             |             |
| 1                        | Untreated      |              |      |           |             | 0           | 0           | 0           | 0           | 0           | 0           |
| 2                        | Sonic          | 5 oz/a       | A    | PRE       |             | 3           | 99          | 100         | 79          | 0           | 87          |
| 3                        | Zidua PRO      | 6 fl oz/a    | A    | PRE       |             | 4           | 99          | 100         | 90          | 0           | 93          |
| 4                        | Surmise 5      | 18.4 fl oz/a | B    | EPOS      |             | 0           | 0           | 0           | 0           | 3           | 91          |
|                          | AMS            | 1.5 lb/a     | B    | EPOS      |             |             |             |             |             |             | 31          |
| 5                        | Liberty Ultra  | 24 fl oz/a   | B    | EPOS      |             | 0           | 0           | 0           | 0           | 1           | 96          |
|                          | AMS            | 1.5 lb/a     | B    | EPOS      |             |             |             |             |             |             | 94          |
| 6                        | Sonic          | 5 oz/a       | A    | PRE       |             | 3           | 96          | 100         | 80          | 5           | 98          |
|                          | Surmise 5      | 18.4 fl oz/a | C    | POST      |             |             |             |             |             |             | 100         |
|                          | AMS            | 1.5 lb/a     | C    | POST      |             |             |             |             |             |             |             |
| 7                        | Outlook        | 12 fl oz/a   | B    | EPOS      |             | 0           | 0           | 0           | 0           | 3           | 97          |
|                          | Liberty Ultra  | 24 fl oz/a   | B    | EPOS      |             |             |             |             |             |             | 98          |
|                          | AMS            | 1.5 lb/a     | B    | EPOS      |             |             |             |             |             |             |             |
| 8                        | Dual II Magnum | 16 fl oz/a   | B    | EPOS      |             | 0           | 0           | 0           | 0           | 11          | 99          |
|                          | Surmise 5      | 18.4 fl oz/a | B    | EPOS      |             |             |             |             |             |             | 89          |
|                          | AMS            | 1.5 lb/a     | B    | EPOS      |             |             |             |             |             |             |             |
| 9                        | Zidua PRO      | 6 fl oz/a    | A    | PRE       |             | 5           | 100         | 100         | 93          | 3           | 100         |
|                          | Liberty Ultra  | 24 fl oz/a   | C    | POST      |             |             |             |             |             |             |             |
|                          | AMS            | 1.5 lb/a     | C    | POST      |             |             |             |             |             |             |             |
| 10                       | Sonic          | 5 oz/a       | A    | PRE       |             | 1           | 99          | 100         | 78          | 3           | 100         |
|                          | Dual II Magnum | 16 fl oz/a   | C    | POST      |             |             |             |             |             |             |             |
|                          | Surmise 5      | 18.4 fl oz/a | C    | POST      |             |             |             |             |             |             |             |
|                          | AMS            | 1.5 lb/a     | C    | POST      |             |             |             |             |             |             |             |
| 11                       | Zidua PRO      | 6 fl oz/a    | A    | PRE       |             | 4           | 99          | 100         | 90          | 3           | 99          |
|                          | Outlook        | 12 fl oz/a   | C    | POST      |             |             |             |             |             |             | 100         |
|                          | Liberty Ultra  | 24 fl oz/a   | C    | POST      |             |             |             |             |             |             |             |
|                          | AMS            | 1.5 lb/a     | C    | POST      |             |             |             |             |             |             |             |
| LSD P=.05                |                |              |      |           |             | 2.0         | 2.6         | .           | 6.9         | 3.8         | 5.6         |
| Standard Deviation       |                |              |      |           |             | 1.4         | 1.8         | 0.0         | 4.8         | 2.6         | 3.9         |
| CV                       |                |              |      |           |             | 81.56       | 3.37        | 0.0         | 10.29       | 99.02       | 4.46        |
|                          |                |              |      |           |             |             |             |             |             |             | 2.84        |

Could not calculate LSD (% mean diff) or mean separation letters for columns 3,18,22 because error variance is 0.  
Mean separation letters are 'na' (not applicable) when error variance is 0

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Trial ID: SOY04-25

Protocol ID: SOY04-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

| Rating Date              |                |              |      | Jun-24-2025 | Jul-1-2025  | Jul-1-2025 | Jul-1-2025 | Jul-1-2025 | Jul-8-2025 | Jul-8-2025 | Jul-8-2025 |
|--------------------------|----------------|--------------|------|-------------|-------------|------------|------------|------------|------------|------------|------------|
| Rating Type              |                |              |      | control     | injury      | control    | control    | control    | injury     | control    | control    |
| Rating Unit              |                |              |      | %           | %           | %          | %          | %          | %          | %          | %          |
| Crop Type, Code          |                |              |      | C, GLXMA    |             |            |            | C, GLXMA   |            |            |            |
| Pest Code                |                |              |      | AMBEL       |             | ANGR       | CHEAL      | AMBEL      |            | ANGR       | CHEAL      |
| Treatment Appl. Interval |                |              |      | 7 DA-B      | 14 DA-B     | 14 DA-B    | 14 DA-B    | 14 DA-B    | 21 DA-B    | 21 DA-B    | 21 DA-B    |
| Number of Decimals       |                |              |      | 0           | 0           | 0          | 0          | 0          | 0          | 0          | 0          |
| Trt No.                  | Treatment Name | Rate         | Unit | Appl Code   | Appl Timing |            |            |            |            |            |            |
| 1                        | Untreated      |              |      |             |             | 0          | 0          | 0          | 0          | 0          | 0          |
| 2                        | Sonic          | 5 oz/a       | A    | PRE         |             | 53         | 0          | 82         | 100        | 48         | 79         |
| 3                        | Zidua PRO      | 6 fl oz/a    | A    | PRE         |             | 80         | 0          | 95         | 100        | 71         | 91         |
| 4                        | Surmise 5      | 18.4 fl oz/a | B    | EPOS        |             | 99         | 0          | 80         | 20         | 100        | 75         |
|                          | AMS            | 1.5 lb/a     | B    | EPOS        |             |            |            |            |            |            | 13         |
| 5                        | Liberty Ultra  | 24 fl oz/a   | B    | EPOS        |             | 99         | 0          | 93         | 76         | 95         | 85         |
|                          | AMS            | 1.5 lb/a     | B    | EPOS        |             |            |            |            |            |            | 73         |
| 6                        | Sonic          | 5 oz/a       | A    | PRE         |             | 92         | 0          | 97         | 100        | 99         | 95         |
|                          | Surmise 5      | 18.4 fl oz/a | C    | POST        |             |            |            |            |            |            | 100        |
|                          | AMS            | 1.5 lb/a     | C    | POST        |             |            |            |            |            |            |            |
| 7                        | Outlook        | 12 fl oz/a   | B    | EPOS        |             | 100        | 2          | 100        | 88         | 96         | 98         |
|                          | Liberty Ultra  | 24 fl oz/a   | B    | EPOS        |             |            |            |            |            |            | 85         |
|                          | AMS            | 1.5 lb/a     | B    | EPOS        |             |            |            |            |            |            |            |
| 8                        | Dual II Magnum | 16 fl oz/a   | B    | EPOS        |             | 100        | 6          | 99         | 69         | 99         | 94         |
|                          | Surmise 5      | 18.4 fl oz/a | B    | EPOS        |             |            |            |            |            | 3          | 65         |
|                          | AMS            | 1.5 lb/a     | B    | EPOS        |             |            |            |            |            |            |            |
| 9                        | Zidua PRO      | 6 fl oz/a    | A    | PRE         |             | 99         | 1          | 100        | 100        | 100        | 100        |
|                          | Liberty Ultra  | 24 fl oz/a   | C    | POST        |             |            |            |            |            | 0          | 100        |
|                          | AMS            | 1.5 lb/a     | C    | POST        |             |            |            |            |            |            | 100        |
| 10                       | Sonic          | 5 oz/a       | A    | PRE         |             | 89         | 5          | 100        | 100        | 100        | 100        |
|                          | Dual II Magnum | 16 fl oz/a   | C    | POST        |             |            |            |            |            | 0          | 100        |
|                          | Surmise 5      | 18.4 fl oz/a | C    | POST        |             |            |            |            |            |            | 100        |
|                          | AMS            | 1.5 lb/a     | C    | POST        |             |            |            |            |            |            |            |
| 11                       | Zidua PRO      | 6 fl oz/a    | A    | PRE         |             | 96         | 5          | 100        | 100        | 100        | 100        |
|                          | Outlook        | 12 fl oz/a   | C    | POST        |             |            |            |            |            | 0          | 100        |
|                          | Liberty Ultra  | 24 fl oz/a   | C    | POST        |             |            |            |            |            |            | 100        |
|                          | AMS            | 1.5 lb/a     | C    | POST        |             |            |            |            |            |            |            |
| LSD P=.05                |                |              |      |             |             | 5.9        | 2.7        | 10.5       | 5.4        | 6.3        | 2.2        |
| Standard Deviation       |                |              |      |             |             | 4.1        | 1.9        | 7.3        | 3.7        | 4.4        | 1.5        |
| CV                       |                |              |      |             |             | 4.94       | 115.88     | 8.48       | 4.83       | 5.3        | 663.33     |

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Mean separation letters are 'na' (not applicable) when error variance is 0

## Michigan State University

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Trial ID: SOY04-25

Protocol ID: SOY04-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

| Rating Date              | Jul-8-2025     | Jul-8-2025   | Jul-29-2025 | Jul-29-2025 | Jul-29-2025 | Jul-29-2025 | Jul-29-2025 | Aug-1-2025 | Aug-1-2025 |
|--------------------------|----------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| Rating Type              | control        | control      | injury      | control     | control     | control     | control     | injury     | control    |
| Rating Unit              | %              | %            | %           | %           | %           | %           | %           | %          | %          |
| Crop Type, Code          | C, GLXMA       |              |             |             |             |             |             |            |            |
| Pest Code                | AMBEL          | POROL        | C, GLXMA    |             | ANGR        | CHEAL       | AMBEL       | C, GLXMA   |            |
| Treatment Appl. Interval | 21 DA-B        | 21 DA-B      | 42 DA-B     | 42 DA-B     | 42 DA-B     | 42 DA-B     | 42 DA-B     | 42 DA-C    | 42 DA-C    |
| Number of Decimals       | 0              | 0            | 0           | 0           | 0           | 0           | 0           | 0          | 0          |
| Trt No.                  | Treatment Name | Rate         | Unit        | Appl Code   | Appl Timing |             |             |            |            |
| 1                        | Untreated      |              |             |             |             | 0           | 0           | 0          | 0          |
| 2                        | Sonic          | 5 oz/a       | A           | PRE         |             | 44          | 100         | 0          | 83         |
| 3                        | Zidua PRO      | 6 fl oz/a    | A           | PRE         |             | 70          | 100         | 0          | 93         |
| 4                        | Surmise 5      | 18.4 fl oz/a | B           | EPOS        |             | 87          | 84          | 0          | 79         |
|                          | AMS            | 1.5 lb/a     | B           | EPOS        |             |             |             | 10         | 91         |
| 5                        | Liberty Ultra  | 24 fl oz/a   | B           | EPOS        |             | 85          | 63          | 0          | 75         |
|                          | AMS            | 1.5 lb/a     | B           | EPOS        |             |             |             | 70         | 83         |
| 6                        | Sonic          | 5 oz/a       | A           | PRE         |             | 96          | 100         | 0          | 92         |
|                          | Surmise 5      | 18.4 fl oz/a | C           | POST        |             |             |             | 100        | 95         |
|                          | AMS            | 1.5 lb/a     | C           | POST        |             |             |             |            |            |
| 7                        | Outlook        | 12 fl oz/a   | B           | EPOS        |             | 90          | 99          | 0          | 96         |
|                          | Liberty Ultra  | 24 fl oz/a   | B           | EPOS        |             |             |             |            |            |
|                          | AMS            | 1.5 lb/a     | B           | EPOS        |             |             |             |            |            |
| 8                        | Dual II Magnum | 16 fl oz/a   | B           | EPOS        |             | 86          | 94          | 0          | 93         |
|                          | Surmise 5      | 18.4 fl oz/a | B           | EPOS        |             |             |             | 63         | 82         |
|                          | AMS            | 1.5 lb/a     | B           | EPOS        |             |             |             |            |            |
| 9                        | Zidua PRO      | 6 fl oz/a    | A           | PRE         |             | 99          | 100         | 0          | 100        |
|                          | Liberty Ultra  | 24 fl oz/a   | C           | POST        |             |             |             | 100        | 99         |
|                          | AMS            | 1.5 lb/a     | C           | POST        |             |             |             |            |            |
| 10                       | Sonic          | 5 oz/a       | A           | PRE         |             | 96          | 100         | 0          | 100        |
|                          | Dual II Magnum | 16 fl oz/a   | C           | POST        |             |             |             | 100        | 96         |
|                          | Surmise 5      | 18.4 fl oz/a | C           | POST        |             |             |             |            |            |
|                          | AMS            | 1.5 lb/a     | C           | POST        |             |             |             |            |            |
| 11                       | Zidua PRO      | 6 fl oz/a    | A           | PRE         |             | 100         | 100         | 0          | 100        |
|                          | Outlook        | 12 fl oz/a   | C           | POST        |             |             |             |            |            |
|                          | Liberty Ultra  | 24 fl oz/a   | C           | POST        |             |             |             |            |            |
|                          | AMS            | 1.5 lb/a     | C           | POST        |             |             |             |            |            |
| LSD P=.05                |                |              |             |             |             | 10.6        | 5.5         | .          | 9.4        |
| Standard Deviation       |                |              |             |             |             | 7.4         | 3.8         | 0.0        | 6.5        |
| CV                       |                |              |             |             |             | 9.52        | 4.46        | 0.0        | 7.87       |
|                          |                |              |             |             |             |             |             |            | 4.8        |
|                          |                |              |             |             |             |             |             |            | 3.3        |
|                          |                |              |             |             |             |             |             |            | 4.91       |
|                          |                |              |             |             |             |             |             |            | 0.0        |
|                          |                |              |             |             |             |             |             |            | 6.1        |
|                          |                |              |             |             |             |             |             |            | 4.2        |
|                          |                |              |             |             |             |             |             |            | 5.1        |

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Protecting soybean yield with Liberty Ultra weed control programs

Trial ID: SOY04-25

Protocol ID: SOY04-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

| Rating Date              | Aug-1-2025   | Aug-1-2025 | Oct-3-2025 | Oct-3-2025 | Oct-3-2025 | Oct-6-2025 | Oct-6-2025 |
|--------------------------|--------------|------------|------------|------------|------------|------------|------------|
| Rating Type              | control      | control    | control    | control    | control    | moisture   | yield      |
| Rating Unit              | %            | %          | %          | %          | %          | %          | bu/A       |
| Crop Type, Code          |              |            |            |            |            | C, GLXMA   | C, GLXMA   |
| Pest Code                | CHEAL        | AMBEL      | ANGR       | CHEAL      | AMBEL      |            |            |
| Treatment Appl. Interval | 42 DA-C      | 42 DA-C    | 105 DA-C   | 105 DA-C   | 105 DA-C   |            | @13% M     |
| Number of Decimals       | 0            | 0          | 0          | 0          | 0          | 1          | 1          |
| Trt Treatment            | Rate         | Appl       | Appl       |            |            |            |            |
| No. Name                 | Rate Unit    | Code       | Timing     |            |            |            |            |
| 1 Untreated              |              |            |            | 0          | 0          | 0          | 11.3       |
| 2 Sonic                  | 5 oz/a       | A          | PRE        | 100        | 8          | 85         | 11.3       |
| 3 Zidua PRO              | 6 fl oz/a    | A          | PRE        | 100        | 71         | 87         | 11.1       |
| 4 Surmise 5              | 18.4 fl oz/a | B          | EPOS       | 13         | 93         | 78         | 11.8       |
| AMS                      | 1.5 lb/a     | B          | EPOS       |            |            | 0          | 86         |
| 5 Liberty Ultra          | 24 fl oz/a   | B          | EPOS       | 72         | 80         | 77         | 10.8       |
| AMS                      | 1.5 lb/a     | B          | EPOS       |            |            | 72         | 78         |
| 6 Sonic                  | 5 oz/a       | A          | PRE        | 100        | 95         | 91         | 10.8       |
| Surmise 5                | 18.4 fl oz/a | C          | POST       |            |            | 100        | 93         |
| AMS                      | 1.5 lb/a     | C          | POST       |            |            |            |            |
| 7 Outlook                | 12 fl oz/a   | B          | EPOS       | 80         | 81         | 96         | 11.3       |
| Liberty Ultra            | 24 fl oz/a   | B          | EPOS       |            |            | 71         | 75         |
| AMS                      | 1.5 lb/a     | B          | EPOS       |            |            |            |            |
| 8 Dual II Magnum         | 16 fl oz/a   | B          | EPOS       | 61         | 76         | 90         | 11.4       |
| Surmise 5                | 18.4 fl oz/a | B          | EPOS       |            |            | 64         | 78         |
| AMS                      | 1.5 lb/a     | B          | EPOS       |            |            |            |            |
| 9 Zidua PRO              | 6 fl oz/a    | A          | PRE        | 100        | 98         | 100        | 10.6       |
| Liberty Ultra            | 24 fl oz/a   | C          | POST       |            |            | 100        | 97         |
| AMS                      | 1.5 lb/a     | C          | POST       |            |            |            |            |
| 10 Sonic                 | 5 oz/a       | A          | PRE        | 100        | 93         | 98         | 10.5       |
| Dual II Magnum           | 16 fl oz/a   | C          | POST       |            |            | 100        | 92         |
| Surmise 5                | 18.4 fl oz/a | C          | POST       |            |            |            |            |
| AMS                      | 1.5 lb/a     | C          | POST       |            |            |            |            |
| 11 Zidua PRO             | 6 fl oz/a    | A          | PRE        | 100        | 100        | 99         | 10.3       |
| Outlook                  | 12 fl oz/a   | C          | POST       |            |            | 100        | 100        |
| Liberty Ultra            | 24 fl oz/a   | C          | POST       |            |            |            |            |
| AMS                      | 1.5 lb/a     | C          | POST       |            |            |            |            |
| LSD P=.05                |              |            |            | 7.3        | 9.0        | 8.8        | 4.4        |
| Standard Deviation       |              |            |            | 5.0        | 6.2        | 6.1        | 3.0        |
| CV                       |              |            |            | 6.71       | 8.63       | 7.45       | 4.15       |
|                          |              |            |            |            |            | 8.3        | 5.7        |
|                          |              |            |            |            |            | 0.70       | 0.48       |
|                          |              |            |            |            |            | 9.19       | 6.37       |
|                          |              |            |            |            |            | 4.37       | 16.74      |

Could not calculate LSD (% mean diff) or mean separation letters for columns 3,18,22 because error variance is 0.  
Mean separation letters are 'na' (not applicable) when error variance is 0