

**Soybean tolerance to soil-applied herbicides at cracking**

Trial ID: SOY03-25 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:** 2.7  
**Soil Type:** CL clay loam **pH:** 7.3  
**Plot Size:** 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plow 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         | CROOK       | POST        |
| <b>Date Treated:</b>                  | May-14-2025 | May-27-2025 | Jun-17-2025 |
| <b>Time Treated:</b>                  | 3:00 PM     | 9:00 AM     | 11:00 AM    |
| <b>% Cloud Cover:</b>                 | 77          | 100         | 0           |
| <b>Air Temp., Unit:</b>               | 70 F        | 53 F        | 75 F        |
| <b>% Relative Humidity:</b>           | 90          | 73          | 82          |
| <b>Wind Speed/Unit/Dir:</b>           | 7 MPH SSE   | 4 MPH ENE   | 3 MPH S     |
| <b>Soil Temp, Unit:</b>               | 78 F        | 56 F        | 75 F        |
| <b>Leaf Moist/Dew Presence (Y/N):</b> | N           | N           | N           |
| <b>Soil Moist:</b>                    | 5           | 5           | 5           |

**Crop Stage at Each Application**

|                     | A     | B     | C         |
|---------------------|-------|-------|-----------|
| <b>Crop 1 Name:</b> | GLXMA | GLXMA | GLXMA     |
| <b>Height:</b>      |       | 0.5 " | 4-6 " (5) |
| <b>Stage:</b>       |       | CROOK | V2        |

**Weed Stage at Each Application**

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

**Weed Density**

|                   | 1           | 2           | 3           | 4           | 5           |
|-------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Date:</b>      | Jun-17-2025 | Jun-17-2025 | Jun-17-2025 | Jun-17-2025 | Jun-17-2025 |
| <b>Weed Name:</b> | ANGR        | CHEAL       | AMBEL       |             |             |
| <b>Density:</b>   | 4 FT2       | 3 FT2       | 8 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       | 18.0 "        | 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:**

## Michigan State University

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Protocol ID: SOY03-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

| Rating Date              |                    |             |           | May-30-2025 | Jun-3-2025  | Jun-10-2025 | Jun-10-2025 | Jun-10-2025 | Jun-10-2025 |
|--------------------------|--------------------|-------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| Rating Type              |                    |             |           | injury      | injury      | injury      | control     | control     | control     |
| Rating Unit              |                    |             |           | %           | %           | %           | %           | %           | %           |
| Crop Type, Code          |                    |             |           | C, GLXMA    | C, GLXMA    | C, GLXMA    |             |             |             |
| Pest Code                |                    |             |           |             |             |             | ANGR        | CHEAL       | AMBEL       |
| Treatment Appl. Interval |                    |             |           | 3 DA-B      | 7 DA-B      | 14 DA-B     | 14 DA-B     | 14 DA-B     | 14 DA-B     |
| Number of Decimals       |                    |             |           | 0           | 0           | 0           | 0           | 0           | 0           |
| Trt No.                  | Treatment Name     | Rate        | Appl Unit | Appl Code   | Appl Timing |             |             |             |             |
| 1                        | Untreated          |             |           |             |             | 0           | 0           | 0           | 0           |
| 2                        | Sonic              | 8 oz/a      | A         | PRE         |             | 0           | 4           | 2           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A         | PRE         |             |             |             |             | 100         |
|                          | Enlist One         | 32 fl oz/a  | A         | PRE         |             |             |             |             | 92          |
|                          | MSO                | 0.5 % v/v   | A         | PRE         |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A         | PRE         |             |             |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         | POST        |             |             |             |             |             |
| 3                        | Zidua PLUS         | 6 fl oz/a   | A         | PRE         |             | 0           | 0           | 1           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A         | PRE         |             |             |             |             | 100         |
|                          | Enlist One         | 32 fl oz/a  | A         | PRE         |             |             |             |             | 92          |
|                          | MSO                | 0.5 % v/v   | A         | PRE         |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A         | PRE         |             |             |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         | POST        |             |             |             |             |             |
| 4                        | Fierce EZ          | 7.5 fl oz/a | A         | PRE         |             | 1           | 8           | 8           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A         | PRE         |             |             |             |             | 100         |
|                          | Enlist One         | 32 fl oz/a  | A         | PRE         |             |             |             |             | 94          |
|                          | MSO                | 0.5 % v/v   | A         | PRE         |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A         | PRE         |             |             |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         | POST        |             |             |             |             |             |
| 5                        | Tendovo            | 2.1 qt/a    | A         | PRE         |             | 1           | 6           | 1           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A         | PRE         |             |             |             |             | 100         |
|                          | Enlist One         | 32 fl oz/a  | A         | PRE         |             |             |             |             | 96          |
|                          | MSO                | 0.5 % v/v   | A         | PRE         |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A         | PRE         |             |             |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         | POST        |             |             |             |             |             |
| 6                        | Sonic              | 8 oz/a      | B         | VE (crook)  |             | 36          | 53          | 35          | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B         | VE (crook)  |             |             |             |             | 100         |
|                          | Enlist One         | 32 fl oz/a  | B         | VE (crook)  |             |             |             |             | 90          |
|                          | MSO                | 0.5 % v/v   | B         | VE (crook)  |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | B         | VE (crook)  |             |             |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         | POST        |             |             |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         | POST        |             |             |             |             |             |

Could not calculate LSD (% mean diff) or mean separation letters for columns 5,12,15,16,17,19,20 because error variance is 0.  
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## Michigan State University

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Investigator: Christy Sprague

| Rating Date              |                    |             |      | May-30-2025 | Jun-3-2025 | Jun-10-2025 | Jun-10-2025 | Jun-10-2025 | Jun-10-2025 |     |
|--------------------------|--------------------|-------------|------|-------------|------------|-------------|-------------|-------------|-------------|-----|
| Rating Type              |                    |             |      | injury      | injury     | injury      | control     | control     | control     |     |
| Rating Unit              |                    |             |      | %           | %          | %           | %           | %           | %           |     |
| Crop Type, Code          |                    |             |      | C, GLXMA    | C, GLXMA   | C, GLXMA    |             |             |             |     |
| Pest Code                |                    |             |      |             |            |             | ANGR        | CHEAL       | AMBEL       |     |
| Treatment Appl. Interval |                    |             |      | 3 DA-B      | 7 DA-B     | 14 DA-B     | 14 DA-B     | 14 DA-B     | 14 DA-B     |     |
| Number of Decimals       |                    |             |      | 0           | 0          | 0           | 0           | 0           | 0           |     |
| Trt                      | Treatment          | Rate        | Appl | Appl        |            |             |             |             |             |     |
| No.                      | Name               | Rate Unit   | Code | Timing      |            |             |             |             |             |     |
| 7                        | Zidua PLUS         | 6 fl oz/a   | B    | VE (crook)  | 1          | 10          | 4           | 100         | 100         | 81  |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | Enlist One         | 32 fl oz/a  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | MSO                | 0.5 % v/v   | B    | VE (crook)  |            |             |             |             |             |     |
|                          | AMS (liquid)       | 1.34 % v/v  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | Outlook            | 12 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | Liberty Ultra      | 24 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | AMS (liquid)       | 1.34 % v/v  | C    | POST        |            |             |             |             |             |     |
| 8                        | Fierce EZ          | 7.5 fl oz/a | B    | VE (crook)  | 34         | 66          | 69          | 100         | 100         | 100 |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | Enlist One         | 32 fl oz/a  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | MSO                | 0.5 % v/v   | B    | VE (crook)  |            |             |             |             |             |     |
|                          | AMS (liquid)       | 1.34 % v/v  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | Outlook            | 12 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | Liberty Ultra      | 24 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | AMS (liquid)       | 1.34 % v/v  | C    | POST        |            |             |             |             |             |     |
| 9                        | Tendovo            | 2.1 qt/a    | B    | VE (crook)  | 0          | 13          | 11          | 100         | 100         | 100 |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | Enlist One         | 32 fl oz/a  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | MSO                | 0.5 % v/v   | B    | VE (crook)  |            |             |             |             |             |     |
|                          | AMS (liquid)       | 1.34 % v/v  | B    | VE (crook)  |            |             |             |             |             |     |
|                          | Outlook            | 12 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | Liberty Ultra      | 24 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST        |            |             |             |             |             |     |
|                          | AMS (liquid)       | 1.34 % v/v  | C    | POST        |            |             |             |             |             |     |
| LSD P=.05                |                    |             |      | 3.4         | 8.8        | 7.6         | 0.5         | .           |             | 7.7 |
| Standard Deviation       |                    |             |      | 2.3         | 6.0        | 5.2         | 0.3         | 0.0         |             | 5.3 |
| CV                       |                    |             |      | 28.21       | 34.1       | 36.22       | 0.38        | 0.0         |             | 6.4 |

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| Rating Date              |                    |             |           |           | Jun-10-2025  | Jun-10-2025  | Jun-10-2025  | Jun-17-2025 | Jun-17-2025 | Jun-17-2025 |
|--------------------------|--------------------|-------------|-----------|-----------|--------------|--------------|--------------|-------------|-------------|-------------|
| Rating Type              |                    |             |           |           | RT stdnt cnt | LT stdnt cnt | av stdnt cnt | injury      | control     | control     |
| Rating Unit              |                    |             |           |           | per10 ft     | per10 ft     | per10 ft     | %           | %           | %           |
| Crop Type, Code          |                    |             |           |           | C, GLXMA     | C, GLXMA     | C, GLXMA     | C, GLXMA    |             |             |
| Pest Code                |                    |             |           |           |              |              |              |             | ANGR        | CHEAL       |
| Treatment Appl. Interval |                    |             |           |           | 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           |
| Trt No.                  | Treatment Name     | Rate        | Appl Unit | Appl Code | Timing       |              |              |             |             |             |
| 1                        | Untreated          |             |           |           |              | 51           | 51           | 51          | 0           | 0           |
| 2                        | Sonic              | 8 oz/a      | A         |           | PRE          | 51           | 51           | 51          | 3           | 99          |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A         |           | PRE          |              |              |             |             |             |
|                          | Enlist One         | 32 fl oz/a  | A         |           | PRE          |              |              |             |             |             |
|                          | MSO                | 0.5 % v/v   | A         |           | PRE          |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A         |           | PRE          |              |              |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         |           | POST         |              |              |             |             |             |
| 3                        | Zidua PLUS         | 6 fl oz/a   | A         |           | PRE          | 50           | 50           | 50          | 3           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A         |           | PRE          |              |              |             |             |             |
|                          | Enlist One         | 32 fl oz/a  | A         |           | PRE          |              |              |             |             |             |
|                          | MSO                | 0.5 % v/v   | A         |           | PRE          |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A         |           | PRE          |              |              |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         |           | POST         |              |              |             |             |             |
| 4                        | Fierce EZ          | 7.5 fl oz/a | A         |           | PRE          | 58           | 58           | 58          | 7           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A         |           | PRE          |              |              |             |             |             |
|                          | Enlist One         | 32 fl oz/a  | A         |           | PRE          |              |              |             |             |             |
|                          | MSO                | 0.5 % v/v   | A         |           | PRE          |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A         |           | PRE          |              |              |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         |           | POST         |              |              |             |             |             |
| 5                        | Tendovo            | 2.1 qt/a    | A         |           | PRE          | 55           | 55           | 55          | 11          | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A         |           | PRE          |              |              |             |             |             |
|                          | Enlist One         | 32 fl oz/a  | A         |           | PRE          |              |              |             |             |             |
|                          | MSO                | 0.5 % v/v   | A         |           | PRE          |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A         |           | PRE          |              |              |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         |           | POST         |              |              |             |             |             |
| 6                        | Sonic              | 8 oz/a      | B         |           | VE (crook)   | 50           | 50           | 50          | 20          | 97          |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B         |           | VE (crook)   |              |              |             |             |             |
|                          | Enlist One         | 32 fl oz/a  | B         |           | VE (crook)   |              |              |             |             |             |
|                          | MSO                | 0.5 % v/v   | B         |           | VE (crook)   |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | B         |           | VE (crook)   |              |              |             |             |             |
|                          | Outlook            | 12 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C         |           | POST         |              |              |             |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C         |           | POST         |              |              |             |             |             |

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| Rating Date              | Jun-10-2025        | Jun-10-2025 | Jun-10-2025 | Jun-17-2025 | Jun-17-2025 | Jun-17-2025 |    |       |    |      |     |
|--------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|----|-------|----|------|-----|
| Rating Type              | RT stnd cnt        | LT stnd cnt | av stnd cnt | injury      | control     | control     |    |       |    |      |     |
| Rating Unit              | per10 ft           | per10 ft    | per10 ft    | %           | %           | %           |    |       |    |      |     |
| Crop Type, Code          | C, GLXMA           | C, GLXMA    | C, GLXMA    | C, GLXMA    |             |             |    |       |    |      |     |
| Pest Code                |                    |             |             |             | ANGR        | CHEAL       |    |       |    |      |     |
| Treatment Appl. Interval | 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           |    |       |    |      |     |
| Trt No.                  | Treatment Name     | Rate        | Appl Unit   | Appl Code   | Appl Timing |             |    |       |    |      |     |
| 7                        | Zidua PLUS         | 6 fl oz/a   | B           | VE          | (crook)     | 52          | 52 | 52    | 6  | 99   | 100 |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | Enlist One         | 32 fl oz/a  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | MSO                | 0.5 % v/v   | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | AMS (liquid)       | 1.34 % v/v  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | Outlook            | 12 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | Liberty Ultra      | 24 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | AMS (liquid)       | 1.34 % v/v  | C           | POST        |             |             |    |       |    |      |     |
| 8                        | Fierce EZ          | 7.5 fl oz/a | B           | VE          | (crook)     | 34          | 34 | 34    | 61 | 100  | 100 |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | Enlist One         | 32 fl oz/a  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | MSO                | 0.5 % v/v   | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | AMS (liquid)       | 1.34 % v/v  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | Outlook            | 12 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | Liberty Ultra      | 24 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | AMS (liquid)       | 1.34 % v/v  | C           | POST        |             |             |    |       |    |      |     |
| 9                        | Tendovo            | 2.1 qt/a    | B           | VE          | (crook)     | 63          | 63 | 63    | 14 | 100  | 100 |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | Enlist One         | 32 fl oz/a  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | MSO                | 0.5 % v/v   | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | AMS (liquid)       | 1.34 % v/v  | B           | VE          | (crook)     |             |    |       |    |      |     |
|                          | Outlook            | 12 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | Liberty Ultra      | 24 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C           | POST        |             |             |    |       |    |      |     |
|                          | AMS (liquid)       | 1.34 % v/v  | C           | POST        |             |             |    |       |    |      |     |
| LSD P=.05                |                    | 12.4        |             | 12.4        |             | 12.4        |    | 7.2   |    | 3.2  | .   |
| Standard Deviation       |                    | 8.5         |             | 8.5         |             | 8.5         |    | 4.9   |    | 2.2  | 0.0 |
| CV                       |                    | 16.58       |             | 16.58       |             | 16.58       |    | 35.81 |    | 2.47 | 0.0 |

Could not calculate LSD (% mean diff) or mean separation letters for columns 5,12,15,16,17,19,20 because error variance is 0.  
Mean separation letters are 'na' (not applicable) when error variance is 0

## Michigan State University

Soybean tolerance to soil-applied herbicides at cracking

Trial ID: SOY03-25

Protocol ID: SOY03-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

| Rating Date              |                    |             |      |            | Jun-17-2025 | Jul-1-2025 | Jul-1-2025 | Jul-1-2025 | Jul-1-2025 | Jul-14-2025 | Jul-14-2025 |
|--------------------------|--------------------|-------------|------|------------|-------------|------------|------------|------------|------------|-------------|-------------|
| Rating Type              |                    |             |      |            | control     | injury     | control    | control    | control    | injury      | control     |
| Rating Unit              |                    |             |      |            | %           | %          | %          | %          | %          | %           | %           |
| Crop Type, Code          |                    |             |      |            | C, GLXMA    |            |            |            |            | C, GLXMA    |             |
| Pest Code                |                    |             |      |            | AMBEL       |            | ANGR       | CHEAL      | AMBEL      |             | ANGR        |
| Treatment Appl. Interval |                    |             |      |            | 21 DA-B     | 14 DA-C    | 14 DA-C    | 14 DA-C    | 14 DA-C    | 27 DA-C     | 27 DA-C     |
| 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              | 8 oz/a      | A    | PRE        |             | 88         | 0          | 100        | 100        | 100         | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A    | PRE        |             |            |            |            |            |             |             |
|                          | Enlist One         | 32 fl oz/a  | A    | PRE        |             |            |            |            |            |             |             |
|                          | MSO                | 0.5 % v/v   | A    | PRE        |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A    | PRE        |             |            |            |            |            |             |             |
|                          | Outlook            | 12 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |            |            |            |            |             |             |
| 3                        | Zidua PLUS         | 6 fl oz/a   | A    | PRE        | 85          | 0          | 100        | 100        | 100        | 0           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A    | PRE        |             |            |            |            |            |             |             |
|                          | Enlist One         | 32 fl oz/a  | A    | PRE        |             |            |            |            |            |             |             |
|                          | MSO                | 0.5 % v/v   | A    | PRE        |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A    | PRE        |             |            |            |            |            |             |             |
|                          | Outlook            | 12 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |            |            |            |            |             |             |
| 4                        | Fierce EZ          | 7.5 fl oz/a | A    | PRE        | 90          | 8          | 100        | 100        | 100        | 3           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A    | PRE        |             |            |            |            |            |             |             |
|                          | Enlist One         | 32 fl oz/a  | A    | PRE        |             |            |            |            |            |             |             |
|                          | MSO                | 0.5 % v/v   | A    | PRE        |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A    | PRE        |             |            |            |            |            |             |             |
|                          | Outlook            | 12 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |            |            |            |            |             |             |
| 5                        | Tendovo            | 2.1 qt/a    | A    | PRE        | 96          | 10         | 100        | 100        | 100        | 5           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | A    | PRE        |             |            |            |            |            |             |             |
|                          | Enlist One         | 32 fl oz/a  | A    | PRE        |             |            |            |            |            |             |             |
|                          | MSO                | 0.5 % v/v   | A    | PRE        |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | A    | PRE        |             |            |            |            |            |             |             |
|                          | Outlook            | 12 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |            |            |            |            |             |             |
| 6                        | Sonic              | 8 oz/a      | B    | VE (crook) | 88          | 20         | 100        | 100        | 100        | 6           | 100         |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | B    | VE (crook) |             |            |            |            |            |             |             |
|                          | Enlist One         | 32 fl oz/a  | B    | VE (crook) |             |            |            |            |            |             |             |
|                          | MSO                | 0.5 % v/v   | B    | VE (crook) |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | B    | VE (crook) |             |            |            |            |            |             |             |
|                          | Outlook            | 12 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |            |            |            |            |             |             |
|                          | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |            |            |            |            |             |             |

Could not calculate LSD (% mean diff) or mean separation letters for columns 5,12,15,16,17,19,20 because error variance is 0.  
Mean separation letters are 'na' (not applicable) when error variance is 0

## Michigan State University

Soybean tolerance to soil-applied herbicides at cracking

Trial ID: SOY03-25

Protocol ID: SOY03-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

| Rating Date              | Jun-17-2025 | Jul-1-2025 | Jul-1-2025 | Jul-1-2025 | Jul-1-2025 | Jul-14-2025 | Jul-14-2025 |
|--------------------------|-------------|------------|------------|------------|------------|-------------|-------------|
| Rating Type              | control     | injury     | control    | control    | control    | injury      | control     |
| Rating Unit              | %           | %          | %          | %          | %          | %           | %           |
| Crop Type, Code          | C, GLXMA    |            |            |            | C, GLXMA   |             |             |
| Pest Code                | AMBEL       |            | ANGR       | CHEAL      | AMBEL      |             | ANGR        |
| Treatment Appl. Interval | 21 DA-B     | 14 DA-C    | 14 DA-C    | 14 DA-C    | 14 DA-C    | 27 DA-C     | 27 DA-C     |
| Number of Decimals       | 0           | 0          | 0          | 0          | 0          | 0           | 0           |
| Trt Treatment            | Rate        | Appl       | Appl       |            |            |             |             |
| No. Name                 | Rate Unit   | Code       | Timing     |            |            |             |             |
| 7 Zidua PLUS             | 6 fl oz/a   | B          | VE (crook) | 76         | 3          | 100         | 100         |
| Roundup PowerMax 3       | 30 fl oz/a  | B          | VE (crook) |            |            | 100         |             |
| Enlist One               | 32 fl oz/a  | B          | VE (crook) |            |            |             |             |
| MSO                      | 0.5 % v/v   | B          | VE (crook) |            |            |             |             |
| AMS (liquid)             | 1.34 % v/v  | B          | VE (crook) |            |            |             |             |
| Outlook                  | 12 fl oz/a  | C          | POST       |            |            |             |             |
| Liberty Ultra            | 24 fl oz/a  | C          | POST       |            |            |             |             |
| Roundup PowerMax 3       | 30 fl oz/a  | C          | POST       |            |            |             |             |
| AMS (liquid)             | 1.34 % v/v  | C          | POST       |            |            |             |             |
| 8 Fierce EZ              | 7.5 fl oz/a | B          | VE (crook) | 98         | 63         | 100         | 100         |
| Roundup PowerMax 3       | 30 fl oz/a  | B          | VE (crook) |            |            | 100         |             |
| Enlist One               | 32 fl oz/a  | B          | VE (crook) |            |            |             |             |
| MSO                      | 0.5 % v/v   | B          | VE (crook) |            |            |             |             |
| AMS (liquid)             | 1.34 % v/v  | B          | VE (crook) |            |            |             |             |
| Outlook                  | 12 fl oz/a  | C          | POST       |            |            |             |             |
| Liberty Ultra            | 24 fl oz/a  | C          | POST       |            |            |             |             |
| Roundup PowerMax 3       | 30 fl oz/a  | C          | POST       |            |            |             |             |
| AMS (liquid)             | 1.34 % v/v  | C          | POST       |            |            |             |             |
| 9 Tendovo                | 2.1 qt/a    | B          | VE (crook) | 100        | 9          | 100         | 100         |
| Roundup PowerMax 3       | 30 fl oz/a  | B          | VE (crook) |            |            | 100         |             |
| Enlist One               | 32 fl oz/a  | B          | VE (crook) |            |            |             |             |
| MSO                      | 0.5 % v/v   | B          | VE (crook) |            |            |             |             |
| AMS (liquid)             | 1.34 % v/v  | B          | VE (crook) |            |            |             |             |
| Outlook                  | 12 fl oz/a  | C          | POST       |            |            |             |             |
| Liberty Ultra            | 24 fl oz/a  | C          | POST       |            |            |             |             |
| Roundup PowerMax 3       | 30 fl oz/a  | C          | POST       |            |            |             |             |
| AMS (liquid)             | 1.34 % v/v  | C          | POST       |            |            |             |             |
| LSD P=.05                | 6.1         | 10.1       | .          | .          | .          | 5.4         | .           |
| Standard Deviation       | 4.2         | 6.9        | 0.0        | 0.0        | 0.0        | 3.7         | 0.0         |
| CV                       | 5.23        | 56.2       | 0.0        | 0.0        | 0.0        | 44.5        | 0.0         |

Could not calculate LSD (% mean diff) or mean separation letters for columns 5,12,15,16,17,19,20 because error variance is 0.  
Mean separation letters are 'na' (not applicable) when error variance is 0

## Michigan State University

Soybean tolerance to soil-applied herbicides at cracking

Trial ID: SOY03-25

Protocol ID: SOY03-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

|                          |             |             |            |            |
|--------------------------|-------------|-------------|------------|------------|
| Rating Date              | Jul-14-2025 | Jul-14-2025 | Oct-2-2025 | Oct-2-2025 |
| Rating Type              | control     | control     | moisture   | yield      |
| Rating Unit              | %           | %           | %          | bu/A       |
| Crop Type, Code          |             |             | C, GLXMA   | C, GLXMA   |
| Pest Code                | CHEAL       | AMBEL       |            |            |
| Treatment Appl. Interval | 27 DA-C     | 27 DA-C     |            | '@13% M    |
| Number of Decimals       | 0           | 0           | 1          | 1          |

| Trt No. | Treatment Name     | Rate        | Unit | Appl Code  | Appl Timing |     |     |      |      |
|---------|--------------------|-------------|------|------------|-------------|-----|-----|------|------|
| 1       | Untreated          |             |      |            |             | 0   | 0   | 10.8 | 13.9 |
| 2       | Sonic              | 8 oz/a      | A    | PRE        |             | 100 | 98  | 10.7 | 52.1 |
|         | Roundup PowerMax 3 | 30 fl oz/a  | A    | PRE        |             |     |     |      |      |
|         | Enlist One         | 32 fl oz/a  | A    | PRE        |             |     |     |      |      |
|         | MSO                | 0.5 % v/v   | A    | PRE        |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | A    | PRE        |             |     |     |      |      |
|         | Outlook            | 12 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |     |     |      |      |
| 3       | Zidua PLUS         | 6 fl oz/a   | A    | PRE        |             | 100 | 99  | 10.9 | 52.3 |
|         | Roundup PowerMax 3 | 30 fl oz/a  | A    | PRE        |             |     |     |      |      |
|         | Enlist One         | 32 fl oz/a  | A    | PRE        |             |     |     |      |      |
|         | MSO                | 0.5 % v/v   | A    | PRE        |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | A    | PRE        |             |     |     |      |      |
|         | Outlook            | 12 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |     |     |      |      |
| 4       | Fierce EZ          | 7.5 fl oz/a | A    | PRE        |             | 100 | 100 | 10.8 | 48.7 |
|         | Roundup PowerMax 3 | 30 fl oz/a  | A    | PRE        |             |     |     |      |      |
|         | Enlist One         | 32 fl oz/a  | A    | PRE        |             |     |     |      |      |
|         | MSO                | 0.5 % v/v   | A    | PRE        |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | A    | PRE        |             |     |     |      |      |
|         | Outlook            | 12 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |     |     |      |      |
| 5       | Tendovo            | 2.1 qt/a    | A    | PRE        |             | 100 | 100 | 10.8 | 52.8 |
|         | Roundup PowerMax 3 | 30 fl oz/a  | A    | PRE        |             |     |     |      |      |
|         | Enlist One         | 32 fl oz/a  | A    | PRE        |             |     |     |      |      |
|         | MSO                | 0.5 % v/v   | A    | PRE        |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | A    | PRE        |             |     |     |      |      |
|         | Outlook            | 12 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |     |     |      |      |
| 6       | Sonic              | 8 oz/a      | B    | VE (crook) |             | 100 | 99  | 10.9 | 49.1 |
|         | Roundup PowerMax 3 | 30 fl oz/a  | B    | VE (crook) |             |     |     |      |      |
|         | Enlist One         | 32 fl oz/a  | B    | VE (crook) |             |     |     |      |      |
|         | MSO                | 0.5 % v/v   | B    | VE (crook) |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | B    | VE (crook) |             |     |     |      |      |
|         | Outlook            | 12 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Liberty Ultra      | 24 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | Roundup PowerMax 3 | 30 fl oz/a  | C    | POST       |             |     |     |      |      |
|         | AMS (liquid)       | 1.34 % v/v  | C    | POST       |             |     |     |      |      |

Could not calculate LSD (% mean diff) or mean separation letters for columns 5,12,15,16,17,19,20 because error variance is 0.  
Mean separation letters are 'na' (not applicable) when error variance is 0



## Michigan State University

Soybean tolerance to soil-applied herbicides at cracking

Trial ID: SOY03-25

Protocol ID: SOY03-25 Location: Campus, C-12 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

| Rating Date              | Jul-14-2025 | Jul-14-2025 | Oct-2-2025 | Oct-2-2025 |
|--------------------------|-------------|-------------|------------|------------|
| Rating Type              | control     | control     | moisture   | yield      |
| Rating Unit              | %           | %           | %          | bu/A       |
| Crop Type, Code          |             |             | C, GLXMA   | C, GLXMA   |
| Pest Code                | CHEAL       | AMBEL       |            |            |
| Treatment Appl. Interval | 27 DA-C     | 27 DA-C     | '@13% M    |            |
| Number of Decimals       | 0           | 0           | 1          | 1          |
| Trt Treatment            | Rate        | Appl        | Appl       |            |
| No. Name                 | Rate Unit   | Code        | Timing     |            |
| 7 Zidua PLUS             | 6 fl oz/a   | B           | VE (crook) | 100        |
| Roundup PowerMax 3       | 30 fl oz/a  | B           | VE (crook) | 99         |
| Enlist One               | 32 fl oz/a  | B           | VE (crook) | 10.8       |
| MSO                      | 0.5 % v/v   | B           | VE (crook) | 52.1       |
| AMS (liquid)             | 1.34 % v/v  | B           | VE (crook) |            |
| Outlook                  | 12 fl oz/a  | C           | POST       |            |
| Liberty Ultra            | 24 fl oz/a  | C           | POST       |            |
| Roundup PowerMax 3       | 30 fl oz/a  | C           | POST       |            |
| AMS (liquid)             | 1.34 % v/v  | C           | POST       |            |
| 8 Fierce EZ              | 7.5 fl oz/a | B           | VE (crook) | 100        |
| Roundup PowerMax 3       | 30 fl oz/a  | B           | VE (crook) | 100        |
| Enlist One               | 32 fl oz/a  | B           | VE (crook) | 10.8       |
| MSO                      | 0.5 % v/v   | B           | VE (crook) | 37.7       |
| AMS (liquid)             | 1.34 % v/v  | B           | VE (crook) |            |
| Outlook                  | 12 fl oz/a  | C           | POST       |            |
| Liberty Ultra            | 24 fl oz/a  | C           | POST       |            |
| Roundup PowerMax 3       | 30 fl oz/a  | C           | POST       |            |
| AMS (liquid)             | 1.34 % v/v  | C           | POST       |            |
| 9 Tendovo                | 2.1 qt/a    | B           | VE (crook) | 100        |
| Roundup PowerMax 3       | 30 fl oz/a  | B           | VE (crook) | 100        |
| Enlist One               | 32 fl oz/a  | B           | VE (crook) | 10.9       |
| MSO                      | 0.5 % v/v   | B           | VE (crook) | 48.2       |
| AMS (liquid)             | 1.34 % v/v  | B           | VE (crook) |            |
| Outlook                  | 12 fl oz/a  | C           | POST       |            |
| Liberty Ultra            | 24 fl oz/a  | C           | POST       |            |
| Roundup PowerMax 3       | 30 fl oz/a  | C           | POST       |            |
| AMS (liquid)             | 1.34 % v/v  | C           | POST       |            |
| LSD P=.05                | .           |             | 1.6        | 0.13       |
| Standard Deviation       | 0.0         |             | 1.1        | 0.09       |
| CV                       | 0.0         |             | 1.28       | 0.79       |

Could not calculate LSD (% mean diff) or mean separation letters for columns 5,12,15,16,17,19,20 because error variance is 0.  
Mean separation letters are 'na' (not applicable) when error variance is 0