

MSU Weed Science Research Program

Weed control programs with Zidua in soybean

Trial ID: SOY02-11 Study Dir.: Sprague, Powell
Conducted: C-12E Crops Investigator: Christy Sprague

Date Planted: 5/10/2011 Row Spacing: 30 IN
Variety: Pioneer 92M61 No. of Reps: 4
Population: 155,000 seeds/A % OM: 3.4
Soil Type: Silt Loam pH: 7.5
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fallow 2010- Installed tile drainage, spring soil finish.
Fertilizer: None at planting

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists weeds 1-6 and crop 1 (GLXMA SOYBEAN).

Application Description

Table with 3 columns: Application Timing, A, B. Lists application details like Date Treated, Time Treated, etc.

Crop Stage at Each Application

Table with 3 columns: Crop Name, A, B. Shows crop stages for GLXMA at applications A and B.

Weed Stage at Each Application

Table with 3 columns: Weed Name, A, B. Shows weed stages for weeds 1-6 at applications A and B.

Weed Density (plants/sq. ft.)

Table with 7 columns: Weed Name, 1, 2, 3, 4, 5, 6. Shows density values for weeds ANGR, AMBEL, ABUTH, POROL, CHEAL, AMAPO.

Application Equipment

Table with 11 columns: Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Nozzle, Boom, Width, GPA, Carrier, PSI. Lists equipment for applications A and B.

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Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., ANGR, CHEAL, AMAPO, AMBEL, ABUTH, POROL, Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, and injury/control percent data for various treatments like Zidua, Roundup PowerMax, AMS, Sharpen, Verdict, Valor, and AMS.

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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| | | | | | | | | | ANGR | CHEAL | AMAPO | AMBEL | ABUTH | |
|--------------------|------------------|-----------|-----------|------|------------|----------|-----------|----|-----------|-----------|-----------|-----------|-----------|------|
| | | | | | | | | | GLXMA | | | | | |
| | | | | | | | | | injury | control | control | control | control | |
| | | | | | | | | | percent | percent | percent | percent | percent | |
| | | | | | | | | | 7/13/2011 | 7/13/2011 | 7/13/2011 | 7/13/2011 | 7/13/2011 | |
| | | | | | | | | | 28 DA-B | 28 DA-B | 28 DA-B | 28 DA-B | 28 DA-B | |
| | | | | | | | | | 0 | 0 | 0 | 0 | 0 | |
| # Subsamples, Dec. | | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | | | | | | |
| 1 | Zidua | 85 | WG | 2 | oz/a | PRE | A | 6 | 98 | 99 | 99 | 98 | 98 | |
| 1 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | | | | | | |
| 1 | AMS | | WG | 17 | lb/100 gal | POST | B | | | | | | | |
| 2 | Sharpen | 2.85 | L | 1 | fl oz/a | PRE | A | 4 | 98 | 99 | 99 | 98 | 99 | |
| 2 | Zidua | 85 | WG | 2 | oz/a | PRE | A | | | | | | | |
| 2 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | | | | | | |
| 2 | AMS | | WG | 17 | lb/100 gal | POST | B | | | | | | | |
| 3 | Sharpen | 2.85 | L | 1 | fl oz/a | PRE | A | 8 | 99 | 99 | 99 | 96 | 99 | |
| 3 | Zidua | 85 | WG | 2.5 | oz/a | PRE | A | | | | | | | |
| 3 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | | | | | | |
| 3 | AMS | | WG | 17 | lb/100 gal | POST | B | | | | | | | |
| 4 | Untreated | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5 | Verdict | 5.57 | L | 5 | fl oz/a | PRE | A | 7 | 98 | 99 | 99 | 97 | 99 | |
| 5 | Zidua | 85 | WG | 2 | oz/a | PRE | A | | | | | | | |
| 5 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | | | | | | |
| 5 | AMS | | WG | 17 | lb/100 gal | POST | B | | | | | | | |
| 6 | Valor | 51 | WG | 2 | oz/a | PRE | A | 2 | 98 | 99 | 99 | 97 | 99 | |
| 6 | Zidua | 85 | WG | 1.5 | oz/a | PRE | A | | | | | | | |
| 6 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | | | | | | |
| 6 | AMS | | WG | 17 | lb/100 gal | POST | B | | | | | | | |
| 7 | Valor | 51 | WG | 2 | oz/a | PRE | A | 0 | 98 | 99 | 99 | 98 | 99 | |
| 7 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | | | | | | |
| 7 | AMS | | WG | 17 | lb/100 gal | POST | B | | | | | | | |
| 8 | Valor XLT | 40.3 | WG | 3 | oz/a | PRE | A | 11 | 96 | 99 | 99 | 98 | 99 | |
| 8 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | | | | | | |
| 8 | AMS | | WG | 17 | lb/100 gal | POST | B | | | | | | | |
| 9 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | 3 | 97 | 98 | 99 | 97 | 96 | |
| 9 | AMS | | WG | 17 | lb/100 gal | POST | B | | | | | | | |
| LSD (P=.05) | | | | | | | | | 4.2 | 1.5 | 0.5 | 0.0 | 1.8 | 1.6 |
| Standard Deviation | | | | | | | | | 2.9 | 1.0 | 0.4 | 0.0 | 1.2 | 1.1 |
| CV | | | | | | | | | 65.72 | 1.16 | 0.42 | 0.0 | 1.38 | 1.26 |

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Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval
Subsamples, Dec. GLXMA moisture yield
11/1/2011 11/1/2011
139 DA-B at 13% M
1 1

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | | |
|--------------------|------------------|-----------|-----------|------|------------|----------|-----------|------|------|
| 1 | Zidua | 85 | WG | 2 | oz/a | PRE | A | 14.5 | 64.3 |
| 1 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | |
| 1 | AMS | | WG | 17 | lb/100 gal | POST | B | | |
| 2 | Sharpen | 2.85 | L | 1 | fl oz/a | PRE | A | 14.5 | 68.3 |
| 2 | Zidua | 85 | WG | 2 | oz/a | PRE | A | | |
| 2 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | |
| 2 | AMS | | WG | 17 | lb/100 gal | POST | B | | |
| 3 | Sharpen | 2.85 | L | 1 | fl oz/a | PRE | A | 14.5 | 63.7 |
| 3 | Zidua | 85 | WG | 2.5 | oz/a | PRE | A | | |
| 3 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | |
| 3 | AMS | | WG | 17 | lb/100 gal | POST | B | | |
| 4 | Untreated | | | | | | | 14.6 | 7.3 |
| 5 | Verdict | 5.57 | L | 5 | fl oz/a | PRE | A | 14.8 | 63.1 |
| 5 | Zidua | 85 | WG | 2 | oz/a | PRE | A | | |
| 5 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | |
| 5 | AMS | | WG | 17 | lb/100 gal | POST | B | | |
| 6 | Valor | 51 | WG | 2 | oz/a | PRE | A | 14.3 | 67.6 |
| 6 | Zidua | 85 | WG | 1.5 | oz/a | PRE | A | | |
| 6 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | |
| 6 | AMS | | WG | 17 | lb/100 gal | POST | B | | |
| 7 | Valor | 51 | WG | 2 | oz/a | PRE | A | 14.2 | 72.9 |
| 7 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | |
| 7 | AMS | | WG | 17 | lb/100 gal | POST | B | | |
| 8 | Valor XLT | 40.3 | WG | 3 | oz/a | PRE | A | 14.2 | 62.7 |
| 8 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | | |
| 8 | AMS | | WG | 17 | lb/100 gal | POST | B | | |
| 9 | Roundup PowerMax | 4.5 | SL | 22 | fl oz/a | POST | B | 14.2 | 65.8 |
| 9 | AMS | | WG | 17 | lb/100 gal | POST | B | | |
| LSD (P=.05) | | | | | | | | 0.62 | 5.44 |
| Standard Deviation | | | | | | | | 0.42 | 3.73 |
| CV | | | | | | | | 2.93 | 6.26 |

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