

MSU Weed Science Research Program

Valor interactions with chloroacetamide herbicides

Trial ID: SOY09-13
Conducted: Campus C-14

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

| | |
|------------------------------------|--|
| Date Planted: May/08/2013 | Row Spacing: 30 IN |
| Variety: AG2433RR | No. of Reps: 4 |
| Population: 155,000 seeds/A | % OM: 2.9 |
| Soil Type: Silt loam | pH: 7.0 |
| Plot Size: 10 X 30 FT | Design: RANDOMIZED COMPLETE BLOCK |

Tillage: Fall chisel, spring soil finish x2

Fertilizer: None

| | | |
|-------------|-------------|--------------------|
| Crop | Code | Common Name |
| 1. | GLXMA | SOYBEAN |

Application Description

| | |
|------------------------------|-------------|
| Application Timing: | A |
| Date Treated: | PRE |
| Time Treated: | May/08/2013 |
| % Cloud Cover: | 4:30 PM |
| Air Temp., Unit: | 60 |
| % Relative Humidity: | 80 F |
| Wind Speed/Unit/Dir: | 27 |
| Soil Temp., Unit: | 4 mph NE |
| Soil/Leaf Surface M: | 68 F |
| Soil Moist (1=w 5=d): | 3 - |
| | 3 |

Crop Stage at Each Application

| | |
|----------------------|-------|
| Crop Name: | A |
| Height (In.): | GLXMA |
| Stage (L): | - |

Application Equipment

| | | | | | | | | | | |
|-------------|----------------|--------------|---------------|---------------|---------------|---------------|-------------|----|-------|----|
| Appl | Sprayer | Speed | Nozzle | Nozzle | Nozzle | Nozzle | Boom | | | |
| A | Cub | 3.8 | AIXR | 11003 | 22" | 20" | 100" | 19 | water | 35 |

Comments: Broadcast application of Roundup PowerMax (22 fl oz/A)+ AMS (17 lb/100 gal) was made on 6/19/13.

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| | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Weed Code | | | | | |
| Crop Code | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA |
| Rating Data Type | injury | injury | injury | moisture | yield |
| Rating Unit | percent | percent | percent | percent | bu/acre |
| Rating Date | Jun/07/2013 | Jun/19/2013 | Jul/03/2013 | Oct/11/2013 | Oct/11/2013 |
| Trt-Eval Interval | 30 DA-A | 42 DA-A | 56 DA-A | 156 DA-A | at 13% M |
| # Subsamples, Dec. | 0 | 0 | 0 | 1 | 1 |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Form Unit | Grow Stg | Appl Code | GLXMA injury percent | GLXMA injury percent | GLXMA injury percent | GLXMA moisture percent | GLXMA yield bu/acre |
|-------------|-----------------|-----------|-----------|------|-----------|----------|-----------|----------------------|----------------------|----------------------|------------------------|---------------------|
| 1 | Valor | 51 | WG | 2.5 | oz/a | PRE | A | 30 | 3 | 0 | 10.6 | 60.7 |
| 2 | Fierce | 76 | WG | 3.75 | oz/a | PRE | A | 39 | 8 | 1 | 10.7 | 64.0 |
| 3 | Valor | 51 | WG | 2.5 | oz/a | PRE | A | 48 | 8 | 2 | 10.6 | 64.7 |
| | Duall II Magnum | 7.64 | L | 1.33 | pt/a | PRE | A | | | | | |
| 4 | Valor | 51 | WG | 2.5 | oz/a | PRE | A | 61 | 29 | 28 | 10.6 | 64.4 |
| | Harness | 7 | L | 1.29 | pt/a | PRE | A | | | | | |
| 5 | Valor | 51 | WG | 2.5 | oz/a | PRE | A | 55 | 21 | 18 | 10.6 | 59.2 |
| | Warrant | 3 | L | 3 | pt/a | PRE | A | | | | | |
| 6 | Untreated | | | | | | | 0 | 0 | 0 | 10.5 | 62.1 |
| 7 | Valor | 51 | WG | 2.5 | oz/a | PRE | A | 70 | 46 | 40 | 10.5 | 57.2 |
| | Harness | 7 | L | 2.58 | pt/a | PRE | A | | | | | |
| 8 | Valor | 51 | WG | 2.5 | oz/a | PRE | A | 69 | 46 | 34 | 10.8 | 59.7 |
| | Warrant | 3 | L | 6 | pt/a | PRE | A | | | | | |
| LSD (P=.05) | | | | | | | | 5.4 | 7.7 | 5.2 | 0.31 | 7.06 |
| CV | | | | | | | | 7.94 | 26.17 | 23.3 | 1.98 | 7.8 |

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