

## MSU Weed Science Research Program

## Comparison of Valent Compounds for Quackgrass Control

Trial ID: SOY16-07  
 Conducted: K1-3 Soils

Study Dir.: Sprague, Powell  
 Investigator: Christy Sprague

|                      |            |                     |                           |    |
|----------------------|------------|---------------------|---------------------------|----|
| <b>Date Planted:</b> |            | <b>Row Spacing:</b> | -                         | IN |
| <b>Variety:</b>      | -          | <b>No. of Reps:</b> | 4                         |    |
| <b>Population:</b>   | -          | <b>% OM:</b>        | 1.3                       |    |
| <b>Soil Type:</b>    | Sandy Loam | <b>pH:</b>          | 5.8                       |    |
| <b>Plot Size:</b>    | 10 X 30 FT | <b>Design:</b>      | RANDOMIZED COMPLETE BLOCK |    |

**Tillage:** Fall Chisel Plowed, Spring Soil Finish 4/19/07  
**Fertilizer:** None

## Crop and Weed Description

| Weed | Code  | Common Name | Scientific Name                |
|------|-------|-------------|--------------------------------|
| 1.   | AGRRE | QUACKGRASS  | ELYTRIGIA REPENS (L.) P.BEAUV. |

## Application Description

**A**

**Application Timing:** POST  
**Date Treated:** 5/21/07  
**Time Treated:** 3:30 pm  
**% Cloud Cover:** 40  
**Air Temp., Unit:** 70 F  
**% Relative Humidity:** 25  
**Wind Speed/Unit/Dir:** 3 mph SE  
**Soil Temp., Unit:** 67 F  
**Soil/Leaf Surface M:** 5 5  
**Soil Moist (1=w 5=d):** 5

## Weed Stage at Each Application

**A**

**Weed 1 Name:** AGRRE  
**Height (In.):** 6-12"  
**Stage (L):** 1-5 leaf

## Weed Density (plants/sq. ft.)

**1**

**Date:** 7/9/07  
**Weed Name:** AGRRE  
**Density:** 20

## Application Equipment

| Appl | Sprayer | Speed | Nozzle | Nozzle | Nozzle | Nozzle  | Boom  |     |         |     |
|------|---------|-------|--------|--------|--------|---------|-------|-----|---------|-----|
|      | Type    | MPH   | Type   | Size   | Height | Spacing | Width | GPA | Carrier | PSI |
| A    | Cub     | 3.8   | AirMix | 11003  | 25"    | 20"     | 100"  | 19  | Water   | 27  |

**Comments:** 5/31/07- Applied LV4 2,4 D at 1 qt/Acre for broadleaf weed control  
 Non Crop Study

MSU Weed Science Research Program

Comparison of Valent Compounds for Quackgrass Control

Trial ID: SOY16-07  
 Conducted: K1-3 Soils

Study Dir.: Sprague, Powell  
 Investigator: Christy Sprague

|                   |         |         |         |         |
|-------------------|---------|---------|---------|---------|
| Weed Code         | AGRRE   | AGRRE   | AGRRE   | AGRRE   |
| Crop Code         |         |         |         |         |
| Rating Data Type  | control | control | control | control |
| Rating Unit       | percent | percent | percent | percent |
| Rating Date       | 5/28/07 | 6/7/07  | 6/18/07 | 7/2/07  |
| Trt-Eval Interval | 7 DA-A  | 17 DA-A | 28 DA-A | 42 DA-A |

| Trt No.            | Treatment Name      | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code |       |      |       |       |
|--------------------|---------------------|-----------|-----------|------|-----------|----------|-----------|-------|------|-------|-------|
| 1                  | Select Max          | 1         | EC        | 16   | fl oz/a   | POST     | A         | 40    | 89   | 87    | 79    |
| 1                  | AMS                 |           | WG        | 2.5  | lb/a      | POST     | A         |       |      |       |       |
| 2                  | V-10207             | 1.45      | EC        | 11   | fl oz/a   | POST     | A         | 48    | 85   | 83    | 73    |
| 2                  | AMS                 |           | WG        | 2.5  | lb/a      | POST     | A         |       |      |       |       |
| 3                  | Select Max          | 1         | EC        | 12   | fl oz/a   | POST     | A         | 50    | 86   | 80    | 70    |
| 3                  | AMS                 |           | WG        | 2.5  | lb/a      | POST     | A         |       |      |       |       |
| 4                  | V-10207             | 1.45      | EC        | 8.3  | fl oz/a   | POST     | A         | 48    | 85   | 71    | 64    |
| 4                  | AMS                 |           | WG        | 2.5  | lb/a      | POST     | A         |       |      |       |       |
| 5                  | Untreated           |           |           |      |           |          |           | 0     | 0    | 0     | 0     |
| 6                  | Select Max          | 1         | EC        | 9    | fl oz/a   | POST     | A         | 35    | 81   | 68    | 55    |
| 6                  | AMS                 |           | WG        | 2.5  | lb/a      | POST     | A         |       |      |       |       |
| 7                  | V-10207             | 1.45      | EC        | 6.2  | fl oz/a   | POST     | A         | 25    | 70   | 50    | 44    |
| 7                  | AMS                 |           | WG        | 2.5  | lb/a      | POST     | A         |       |      |       |       |
| 8                  | Select (High Flash) | 2         | EC        | 6    | fl oz/a   | POST     | A         | 10    | 10   | 4     | 0     |
| 8                  | AMS                 |           | WG        | 2.5  | lb/a      | POST     | A         |       |      |       |       |
| LSD (P=.05)        |                     |           |           |      |           |          |           | 14.6  | 5.6  | 12.9  | 15.4  |
| Standard Deviation |                     |           |           |      |           |          |           | 9.9   | 3.8  | 8.7   | 10.4  |
| CV                 |                     |           |           |      |           |          |           | 31.14 | 6.01 | 15.82 | 21.78 |