

MSU Weed Science Research Program

EVALUATION OF SPRING APPLIED BROADLEAF WEED CONTROL HERBICIDES IN WHEAT, 2006

Trial ID: W0106
Conducted: CAMPUS

Study Dir.:
Investigator: Christy Sprague

Date Planted: 9/24/2005
Variety: P25R47
Population: 3 bu/A
Soil Type: loam
Plot Size: 10 X 30 FT
Row Spacing: 7.5 IN
No. of Reps: 4
% OM: 2.3
pH: 6.0
Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel, soil finished with cultipacker.
Fertilizer: 150 lbs/A 46-0-0 applied in spring 2006.

Crop and Weed Description

| Weed | Code | Common Name | Scientific Name |
|------|-------|-------------------|---------------------------------|
| 1. | STEME | CHICKWEED, COMMON | STELLARIA MEDIA (L.) VILL./CYR. |
| 2. | THLAR | PENNYCRESS, FIELD | THLASPI ARVENSE L. |
| Crop | Code | Common Name | |
| 1. | TRZAW | WHEAT, WINTER | |

Application Description

A

Application Timing: POST
Date Treated: 4/24/2006
Time Treated: 2:40 pm
% Cloud Cover: 50
Air Temp., Unit: 61 F
% Relative Humidity: 50
Wind Speed/Unit/Dir: 3 mph nw
Soil Temp., Unit: 54 F
Soil/Leaf Surface M: 5
Soil Moist (1=w 5=d): 4

Crop Stage at Each Application

A

Crop Name: TRZAW
Height (In.): 12
Stage (L): fks6

Weed Stage at Each Application

A

Weed 1 Name: STEME
Height (In.): 2-12 (6)
Weed 2 Name: THLAR
Height (In.): 5-11 (8)

Weed Density (plants/sq. ft.)

1

Date: 4/24/2006
Weed Name: STEME
Density: 13
Date: 4/24/2006
Weed Name: THLAR
Density: 1

Application Equipment

| Appl | Sprayer | Speed | Nozzle | Nozzle | Nozzle | Nozzle | Boom | | | |
|------|---------|-------|--------|--------|---------|--------|------|---------|-------|----|
| Type | MPH | Type | Size | Height | Spacing | Width | GPA | Carrier | PSI | |
| A | CUB | 3.5 | FF | 8003 | 28" | 20" | 100" | 20 | WATER | 30 |

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| Weed Code | | | | | | | STEME | THLAR | STEME | | | | | | | THLAR |
|--------------------|----------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|--|-------|
| Crop Code | | | | | | | TRZAW | | TRZAW | | | | | | | |
| Rating Data Type | | | | | | | injury | control | control | injury | control | control | control | control | | |
| Rating Unit | | | | | | | percent | percent | percent | percent | percent | percent | percent | percent | | |
| Rating Date | | | | | | | 5/9/2006 | 5/9/2006 | 5/9/2006 | 5/22/2006 | 5/22/2006 | 5/22/2006 | 6/8/2006 | 6/8/2006 | | |
| Trt-Eval Interval | | | | | | | 15 DAT | 15 DAT | 15 DAT | 28 DAT | 28 DAT | 28 DAT | 45 DAT | 45 DAT | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Form Rate | Rate Unit | Grow Stg | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| 1 | Untreated | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2 | Harmony GT 50% | 50 | SG | 0.1875 | oz ai/a | POST | 0 | 53 | 35 | 0 | 94 | 98 | 100 | 100 | | |
| 2 | Express 50% | 50 | SG | 0.1875 | oz ai/a | POST | | | | | | | | | | |
| 2 | Activator 90 | | L | 0.25 | % v/v | POST | | | | | | | | | | |
| 3 | Harmony GT 50% | 50 | SG | 0.25 | oz ai/a | POST | 0 | 53 | 23 | 0 | 95 | 98 | 100 | 100 | | |
| 3 | Express 50% | 50 | SG | 0.125 | oz ai/a | POST | | | | | | | | | | |
| 3 | Activator 90 | | L | 0.25 | % v/v | POST | | | | | | | | | | |
| 4 | Express 50% | 50 | SG | 0.25 | oz ai/a | POST | 0 | 60 | 33 | 0 | 96 | 98 | 100 | 100 | | |
| 4 | Activator 90 | | L | 0.25 | % v/v | POST | | | | | | | | | | |
| 5 | 2,4-D Amine | 3.8 | L | 0.5 | lb ai/a | POST | 0 | 35 | 10 | 0 | 53 | 66 | 25 | 93 | | |
| 6 | 2,4-D Ester | 3.8 | L | 0.38 | lb ai/a | POST | 0 | 23 | 9 | 0 | 29 | 39 | 8 | 55 | | |
| 7 | Buctril | 2 | EC | 0.35 | lb ai/a | POST | 0 | 30 | 31 | 0 | 50 | 45 | 75 | 95 | | |
| 8 | Clarity | 4 | L | 0.125 | lb ai/a | POST | 0 | 14 | 10 | 0 | 36 | 46 | 5 | 49 | | |
| 9 | Curtail | 2.38 | L | 2 | pt/a | POST | 0 | 25 | 11 | 0 | 59 | 59 | 48 | 95 | | |
| 10 | Stinger | 3 | L | 0.094 | lb ai/a | POST | 0 | 25 | 4 | 0 | 24 | 12 | 66 | 65 | | |
| 11 | Starane | 1.5 | L | 0.1238 | lb ai/a | POST | 0 | 28 | 9 | 0 | 64 | 58 | 39 | 78 | | |
| 12 | Harmony GT 50% | 50 | SG | 0.125 | oz ai/a | POST | 0 | 50 | 40 | 0 | 93 | 95 | 100 | 100 | | |
| 12 | Express 50% | 50 | SG | 0.0625 | oz ai/a | POST | | | | | | | | | | |
| 12 | 2,4-D Amine | 3.8 | L | 0.25 | lb ai/a | POST | | | | | | | | | | |
| 12 | Activator 90 | | L | 0.25 | % v/v | POST | | | | | | | | | | |
| LSD (P=.05) | | | | | | | 0.0 | 13.9 | 18.8 | 0.0 | 17.7 | 29.0 | 28.8 | 35.1 | | |
| Standard Deviation | | | | | | | 0.0 | 9.6 | 13.0 | 0.0 | 12.3 | 20.1 | 20.0 | 24.3 | | |
| CV | | | | | | | 0.0 | 29.39 | 73.03 | 0.0 | 21.27 | 33.82 | 36.0 | 31.4 | | |