

(04GRHW4)

Ohio State University
Horticulture and Crop Science

GLYPHOSATE RESISTANT HORSEWEED BURNDOWN IV

Trial ID: 04GRHW4 Study Dir.: Anthony F. Dobbels
Location: Montgomery County Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

| Weed Code | Common Name | Scientific Name |
|-----------|-----------------------|-------------------------|
| 1. | ERICA Horseweed | Conyza canadensis |
| 2. | AMBEL Ragweed, common | Ambrosia artemisiifolia |

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

A
Application Date: 5-21-04
Time of Day: 10:00 A.M.
Application Method: SPRAY
Application Timing: 4-6"
Applic. Placement: BROADCAST
Air Temp., Unit: 77 F
% Relative Humidity: 68
Wind Velocity, Unit: 5 W
Soil Temp., Unit: 74 F
Soil Moisture: WET/WET
% Cloud Cover: 100

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code, Stage: ERICA 8-16"
Stage Scale: >12 LVS
Weed 2 Code, Stage: AMBEL 2-4"
Stage Scale: 8-10 LVS

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 50
Nozzle Type: DG
Nozzle Size: 11002
Nozzle Spacing, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 20 GPA
Propellant: CO2

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| Weed Code | | | | | ERICA | ERICA | AMBEL | ERICA | ERICA | AMBEL | |
|--------------------|--------------------|--------------|-------------------|----------|-----------|---------|---------|-----------|---------|---------|----------|
| Crop Code | | | | | fall | spring | | fall | spring | | |
| Rating Data Type | | | | | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | |
| Rating Unit | | | | | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | |
| Rating Date | | | | | 6-4-04 | 6-4-04 | 6-4-04 | 6-18-04 | 6-18-04 | 6-18-04 | |
| Trt-Eval Interval | | | | | 14 DA-A | 14 DA-A | 14 DA-A | 28 DA-A | 28 DA-A | 28 DA-A | |
| # Subsamples, Dec. | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Trt No. | Treatment Name | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | VALOR SX | 2 oz/a | 4" | A | | 66 | 63 | 99 | 76 | 79 | 100 |
| 1 | 2,4-D | 1 qt/a | 4" | | | | | | | | |
| 1 | NIS | 6.4 oz/a | 4" | | | | | | | | |
| 2 | VALOR SX | 2 oz/a | 4" | A | | 71 | 75 | 100 | 78 | 83 | 100 |
| 2 | FIRSTRATE | 0.4 oz/a | 4" | | | | | | | | |
| 2 | 2,4-D | 1 qt/a | 4" | | | | | | | | |
| 2 | NIS | 6.4 oz/a | 4" | | | | | | | | |
| 3 | ROUNDUP WEATHERMAX | 22 oz/a | 4" | A | | 72 | 78 | 99 | 88 | 89 | 98 |
| 3 | 2,4-D | 1 qt/a | 4" | | | | | | | | |
| 3 | AMS | 4 qt/a | 4" | | | | | | | | |
| 4 | ROUNDUP WEATHERMAX | 22 oz/a | 4" | A | | 62 | 72 | 99 | 77 | 79 | 100 |
| 4 | AMS | 4 qt/a | 4" | | | | | | | | |
| 5 | ROUNDUP WEATHERMAX | 22 oz/a | 4" | A | | 71 | 76 | 99 | 83 | 83 | 98 |
| 5 | STARANE | 0.66 pt/a | 4" | | | | | | | | |
| 5 | AMS | 4 qt/a | 4" | | | | | | | | |
| 6 | UTC | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LSD (P=.05) | | | | | | 21.9 | 16.4 | 1.0 | 10.1 | 10.2 | 3.9 |
| Standard Deviation | | | | | | 11.8 | 9.0 | 0.5 | 5.6 | 5.6 | 2.1 |
| CV | | | | | | 20.76 | 14.86 | 0.66 | 8.31 | 8.15 | 2.57 |
| Replicate F | | | | | | 2.419 | 0.197 | 5.000 | 9.456 | 0.419 | 0.481 |
| Replicate Prob(F) | | | | | | 0.1443 | 0.8241 | 0.0313 | 0.0050 | 0.6688 | 0.6315 |
| Treatment F | | | | | | 17.052 | 33.625 | 16468.336 | 106.286 | 109.691 | 1094.074 |
| Treatment Prob(F) | | | | | | 0.0002 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |