

Spring weed control in canola

Trial ID: CAN01-24
 Conducted: Springport (Hasenick Farms)

Study Dir.: Sprague, Stiles
 Investigator: Christy Sprague

Planting Date:
Variety: Clearfield
Population:
Soil Type:
Plot Size: 10 X 25 FT
Row Spacing:
No. of Reps: 4
% OM:
pH:
Study Design: Randomized Complete Block (RCB)

Tillage/Previous Crops:
Fertilizer:

Crop and Weed Description

| Weed | Code | Common Name | Scientific Name |
|------|-------|------------------------|---------------------|
| 1 | DARBA | whitlow grass | Darba verna |
| 2 | CARHI | hairy bittercress | Cardamine hirsuta |
| 3 | STEME | common chickweed | Stellaria media |
| 4 | ERICA | horseweed (marestail) | Erigeron canadensis |
| 5 | ANGR | mostly foxtail species | annual grasses |
| Crop | Code | Common Name | |
| 1 | BRSRC | Canola | |

Application Description

Application Timing: A
 POST
Date Treated: Apr-8-2024
Time Treated: 1:20 PM
% Cloud Cover: 10
Air Temp., Unit: 72 F
% Relative Humidity: 30
Wind Speed/Unit/Dir: 8 , WSW
Soil Temp, Unit: 58 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 5

Crop Stage at Each Application

Crop 1 Name: A
 BRSRC
Height: 3-4 " (3.5)
Stage: 8-10L

Weed Stage at Each Application

Weed 1 Name: A
 DARBA
Height: 1-3 " (2)
Stage: flower
Weed 2 Name: CARHI
Height: 3-6 " (4.5)
Stage: flower
Weed 3 Name: STEME
Height: 2 "
Stage: flower
Weed 4 Name: ERICA
Height: 1 "
Stage: rosett
Weed 5 Name: ANGR
Height:
Stage:

Application Equipment

| Appl | Sprayer Type | Ground Speed | Nozzle Type | Nozzle Size | Nozzle Height | Nozzle Spacing | Boom Width | Spray Volume | Carrier | Operation Pressure |
|------|--------------|--------------|-------------|-------------|---------------|----------------|------------|--------------|---------|--------------------|
| A | CUB | 3.8 MPH | AIXR | 11003 | 19.0 " | 20.0 " | 100.0 " | 19 GAL/AC | WATER | 30 PSI |

Comments:

Michigan State University

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Protocol ID: CAN01-24 Hasenick Farms Location: Springport (Hasenick Farms) Trial Year: 2024

Study Director: Sprague, Stiles Sponsor Contact:

Investigator: Christy Sprague

| Rating Date | Apr-23-2024 | Apr-23-2024 | Apr-23-2024 | May-2-2024 | May-2-2024 | May-2-2024 | May-2-2024 |
|--------------------|-------------|-------------|-------------|------------|------------|------------|------------|
| Rating Type | injury | control | control | injury | control | control | control |
| Rating Unit | % | % | % | % | % | % | % |
| Crop Type, Code | C, BRSRC | | | C, BRSRC | | | |
| Pest Code | | CARHI | DARBA | | CARHI | DARBA | STEME |
| Trt-Eval Interval | 15 DA-A | 15 DA-A | 15 DA-A | 24 DA-A | 24 DA-A | 24 DA-A | 24 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | Appl Timing | 0 | 0 | 0 | 0 | 0 | 0 |
|---------|----------------------|---------------|------|-----------|-------------|--------|------|------|-----|-------|-----|
| 1 | Untreated | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Elevore | 1 fl oz/a | | A | POST | 2 | 59 | 65 | 0 | 18 | 0 |
| 3 | Stinger | 6 fl oz/a | | A | POST | 4 | 48 | 51 | 0 | 5 | 0 |
| 4 | Tordon 22K | 1.34 fl oz/a | | A | POST | 0 | 49 | 49 | 0 | 0 | 0 |
| 5 | Elevore | 1 fl oz/a | | A | POST | 0 | 41 | 49 | 0 | 18 | 0 |
| | Stinger | 6 fl oz/a | | A | POST | | | | | | |
| 6 | Elevore | 1 fl oz/a | | A | POST | 2 | 68 | 73 | 0 | 25 | 0 |
| | Tordon 22K | 1.34 fl oz/a | | A | POST | | | | | | |
| 7 | Elevore | 1 fl oz/a | | A | POST | 2 | 60 | 73 | 0 | 18 | 0 |
| | Surfactant | 0.25 % v/v | | A | POST | | | | | | |
| 8 | Beyond (Raptor) | 4 fl oz/a | | A | POST | 1 | 96 | 88 | 0 | 98 | 100 |
| | Crop oil concentrate | 1 % v/v | | A | POST | | | | | | |
| | AMS | 12 lb/100 gal | | A | POST | | | | | | |
| | LSD P=.05 | | | | | 2.4 | 5.3 | 8.2 | . | 12.9 | . |
| | Standard Deviation | | | | | 1.6 | 3.6 | 5.6 | 0.0 | 8.7 | 0.0 |
| | CV | | | | | 128.29 | 6.93 | 10.0 | 0.0 | 38.87 | 0.0 |

Could not calculate LSD (% mean diff) or mean separation letters for columns 4,6,8,9 because error variance is 0. Mean separation letters are 'na' (not applicable) when error variance is 0

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Investigator: Christy Sprague

| Rating Date | May-2-2024 | Jun-21-2024 | Jun-21-2024 | Jun-21-2024 |
|--------------------|------------|-------------|-------------|-------------|
| Rating Type | control | injury | control | control |
| Rating Unit | % | % | % | % |
| Crop Type, Code | C, BRSRC | | | |
| Pest Code | ERICA | | ANGR | ERICA |
| Trt-Eval Interval | 24 DA-A | 74 DA-A | 74 DA-A | 74 DA-A |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Unit | Appl Code | Appl Timing | May-2-2024 control % | Jun-21-2024 injury % | Jun-21-2024 control % | Jun-21-2024 control % |
|---------|----------------------|---------------|------|-----------|-------------|----------------------|----------------------|-----------------------|-----------------------|
| 1 | Untreated | | | | | 0 | 0 | 0 | 0 |
| 2 | Elevore | 1 fl oz/a | A | POST | | 100 | 0 | 50 | 98 |
| 3 | Stinger | 6 fl oz/a | A | POST | | 100 | 0 | 45 | 100 |
| 4 | Tordon 22K | 1.34 fl oz/a | A | POST | | 100 | 0 | 45 | 99 |
| 5 | Elevore | 1 fl oz/a | A | POST | | 100 | 0 | 40 | 100 |
| | Stinger | 6 fl oz/a | A | POST | | | | | |
| 6 | Elevore | 1 fl oz/a | A | POST | | 100 | 0 | 45 | 100 |
| | Tordon 22K | 1.34 fl oz/a | A | POST | | | | | |
| 7 | Elevore | 1 fl oz/a | A | POST | | 100 | 0 | 40 | 100 |
| | Surfactant | 0.25 % v/v | A | POST | | | | | |
| 8 | Beyond (Raptor) | 4 fl oz/a | A | POST | | 0 | 0 | 35 | 0 |
| | Crop oil concentrate | 1 % v/v | A | POST | | | | | |
| | AMS | 12 lb/100 gal | A | POST | | | | | |
| | LSD P=.05 | | | | | . | . | 18.1 | 2.6 |
| | Standard Deviation | | | | | 0.0 | 0.0 | 12.3 | 1.8 |
| | CV | | | | | 0.0 | 0.0 | 32.79 | 2.37 |

Could not calculate LSD (% mean diff) or mean separation letters for columns 4,6,8,9 because error variance is 0. Mean separation letters are 'na' (not applicable) when error variance is 0