

LATE SEASON WEED CONTROL IN FL 1922

Trial ID: P0310 Protocol ID: P0310
 Location: MRF Study Director:
 Project ID: Investigator: Wesley Everman

General Trial Information

Investigator: Wesley Everman

Personnel

Investigator: Wesley Everman

Crop Description

Crop 1: SOLTU Solanum tuberosum Potato
 Variety: FL1922
 BBCH Scale: BPOT Planting Date: May-17-10
 Rate, Unit: 1 S/FT
 Row Spacing, Unit: 34 IN

Pest Description

Pest 1 Type: W Code: ANGR
 Common Name: annual grass
 Pest 2 Type: W Code: CHEAL Chenopodium album L.
 Common Name: Lambsquarters, common
 Pest 3 Type: W Code: AMARE Amaranthus retroflexus L.
 Common Name: Pigweed, redroot

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD field
 Plot Length, Unit: 25 FT
 Plot Area, Unit: 250 FT2 Tillage Type: CONTIL conventional-till
 Replications: 4 Study Design: FACTOR Factorial

Trial Initiation Comments:

Spring Disk X3, Chisel, Field Cultivated. Cultivated on , Hilled on .

Field Prep./Maintenance:

Broadcast 200 lbs/A K-mag, 10 lbs/A Boron, 2 ton/A Chicken Manure. 5 gal/A 10-34-0, 23 gal/A 28%N at Plant, 100 lbs/A 46-0-0 Broadcast.

Soil Description

% OM: 1.5 Texture: SL sandy loam
 pH: 5.8

Application Description

| | A | B | C |
|-------------------------|----------|-----------|----------|
| Application Date: | Jun-1-10 | Jun-11-10 | Jul-6-10 |
| Time of Day: | 3:00 pm | 10:30 am | 11:30 am |
| Application Method: | SPRAY | SPRAY | SPRAY |
| Application Timing: | CRACK | EP | POST |
| Application Placement: | BROADC | BROADC | BROADC |
| Air Temperature, Unit: | 80 F | 73 F | 85 F |
| % Relative Humidity: | 36 | 72 | 58 |
| Wind Velocity, Unit: | 5 MPH | 2 MPH | 2 MPH |
| Wind Direction: | W | SE | W |
| Soil Temperature, Unit: | 75 F | 62 F | 80 F |
| Soil Moisture: | 2 | 3 | 3 |
| % Cloud Cover: | 5 | 85 | 5 |

Crop Stage At Each Application

| | A | B | C |
|--------------------------|------------|------------|------------|
| Crop 1 Code, BBCH Scale: | SOLTU BPOT | SOLTU BPOT | SOLTU BPOT |
| Stage Scale Used: | BBCH | | BBCH |
| Stage Majority, Percent: | CRACK | | FLOWER |
| Height, Unit: | | | 15 IN |
| Height Minimum, Maximum: | | | 14 19 |

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Pest Stage At Each Application

| | A | | B | | C | |
|----------------------------------|-------|----|-------|---|-------|----|
| Pest 1 Code, Type, Scale: | ANGR | W | ANGR | W | ANGR | W |
| Stage Majority, Percent: | COT | | | | L19 | |
| Stage Minimum, Percent: | | | | | L17 | |
| Stage Maximum, Percent: | | | | | L26 | |
| Height, Unit: | 0.25 | IN | | | 19 | IN |
| Height Minimum, Maximum: | | | | | 17 | 20 |
| Pest 2 Code, Type, Scale: | CHEAL | W | CHEAL | W | CHEAL | W |
| Stage Majority, Percent: | COT | | | | L20 | |
| Stage Minimum, Percent: | | | | | L18 | |
| Stage Maximum, Percent: | | | | | L24 | |
| Height, Unit: | 0.25 | IN | | | 26 | IN |
| Height Minimum, Maximum: | | | | | 17 | 32 |
| Pest 3 Code, Type, Scale: | AMARE | W | AMARE | W | AMARE | W |
| Stage Majority, Percent: | | | | | L21 | |
| Stage Minimum, Percent: | | | | | L21 | |
| Stage Maximum, Percent: | | | | | L25 | |
| Height, Unit: | | | | | 22 | IN |
| Height Minimum, Maximum: | | | | | 22 | 28 |

Application Equipment

| | B | | C | |
|----------------------------------|-------|--------|-------|--------|
| Equipment Type: | BKPK | BKPK | BKPK | |
| Operating Pressure, Unit: | 30 | PSI | 30 | PSI |
| Nozzle Type: | FF | FF | FF | |
| Nozzle Size: | 8003 | 8003 | 8003 | |
| Nozzle Spacing, Unit: | 20 | IN | 20 | IN |
| Boom Length, Unit: | 100 | IN | 100 | IN |
| Boom Height, Unit: | 18 | IN | 23 | IN |
| Ground Speed, Unit: | 3.5 | MPH | 3.5 | MPH |
| Carrier: | WATER | WATER | WATER | |
| Spray Volume, Unit: | 20 | gal/ac | 20 | gal/ac |
| Mix Size, Unit: | 3 | liters | 3 | liters |

MSU Weed Science Research Program

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| | | | | | | | | | |
|-------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| Pest Code | ANGR | CHEAL | ANGR | CHEAL | DIGSA | CHEAL | AMARE | | |
| Crop Code | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU |
| Rating Date | Jul-6-10 | Jul-6-10 | Aug-2-10 | Aug-2-10 | Aug-16-10 | Aug-16-10 | Aug-16-10 | Sep-17-10 | Sep-17-10 |
| Rating Type | control | control | control | control | control | control | control | < 1 7/8" | < 1 7/8" |
| Rating Unit | percent | percent | percent | percent | percent | percent | percent | kilogram | count |
| Trt-Eval Interval | 35 DALP | 35 DALP | 28 DALP | 28 DALP | 42 DALP | 42 DALP | 42 DALP | HARVEST | HARVEST |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---------|--------------------|-----------|-----------|------|-----------|--------------|------|------|------|------|------|------|------|-------|-------|
| 20 | No EPOST | | | | | EPOST | | | | | | | | | |
| 20 | No POST | | | | | POST | | | | | | | | | |
| 21 | Non-Treated | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.49 | 61 |
| | LSD (P=.05) | | | | | | 2.8 | 7.5 | 2.8 | 2.4 | 4.7 | 7.5 | 7.2 | 0.924 | 19.8 |
| | Standard Deviation | | | | | | 1.7 | 4.6 | 2.0 | 1.7 | 3.3 | 5.3 | 5.1 | 0.654 | 14.0 |
| | CV | | | | | | 1.78 | 5.01 | 2.12 | 1.79 | 3.59 | 5.84 | 5.53 | 26.45 | 27.19 |

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| | | | | | | | | | | | | |
|-------------------|--|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Pest Code | | | | | | | | | | | | |
| Crop Code | | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU | SOLTU |
| Rating Date | | Sep-17-10 | Sep-17-10 | Sep-17-10 | Sep-17-10 | Sep-17-10 | Sep-17-10 | Sep-17-10 | Sep-17-10 | Sep-17-10 | Sep-17-10 | Sep-17-10 |
| Rating Type | | PickOut | PickOut | Grade A | Grade A | SPEC. GRAV. | | HH | VD | | BC | |
| Rating Unit | | kilogram | count | kilogram | count | | | 0-10 | 0-10 | | 0-10 | |
| Trt-Eval Interval | | HARVEST | HARVEST | HARVEST | HARVEST | | | HARVEST | HARVEST | | HARVEST | |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate Rate | Rate Unit | Growth Stage | 10 | 11 | 12 | 13 | 16 | 17 | 18 | 19 |
|---------|--------------------|-----------|-----------|-----------|-----------|--------------|---------|-------|-------|-------|--------|----|-------|----|
| 20 | No EPOST | | | | | EPOST | | | | | | | | |
| 20 | No POST | | | | | POST | | | | | | | | |
| 21 | Non-Treated | | | | | | 1.0100 | 7.0 | 10.06 | 94.3 | 1.074 | | 1.7 | |
| | LSD (P=.05) | | | | | | 5.58720 | 52.77 | 3.215 | 27.18 | 0.0060 | . | 1.83 | . |
| | Standard Deviation | | | | | | 0.43973 | 4.15 | 2.274 | 19.22 | 0.0042 | . | 1.29 | . |
| | CV | | | | | | 73.26 | 89.32 | 16.79 | 17.06 | 0.39 | . | 64.73 | . |