

### SITE DESCRIPTION:

MATERIALS AND METHODS: THE RATE OF AGRAL 90 AND 28% UAM WAS 4/ Y/V, NOT KG AI/HA. CROP INJURY: GROWTH REDUCTION. SEVERITY = EXTENT OF INJURY PER PLANT, FREQUENCY = PERCENT OF PLANTS AFFECTED IN A GIVEN TREATMENT. BURCUCUMBER WERE DIVIDED INTO SMALL (4 OR FEWER LEAVES AT APPLICATION) AND LARGE (MORE THAN 4 LEAVES AT APPLICATION).

### EXTENT OF INJURY PER PLANT, FREQUENCY = PERCENT OF PLANTS AFFECTED IN A GIVEN TREATMENT. BURCUCUMBER WERE DIVIDED INTO SMALL (4 OR FEWER LEAVES AT APPLICATION) AND LARGE (MORE THAN 4 LEAVES AT APPLICATION).

### CONCLUSIONS: EXCELLENT SEASON-LONG CONTROL OF LARGE AND SMALL BURCUCUMBER WAS PROVIDED BY DICAMBA/ATRAZINE, ATRAZINE/2,4-D, BROMOXYNIL WITH ATRAZINE, IMAZETHAPYR/ATRAZINE WITH AGRAL 90 AND 28%, AND GLYPHOSATE. ATRAZINE ALONE HAD EXCELLENT INITIAL BUCCUMBER CONTROL, BUT THIS WEAKENED BY 56 DAYS AFTER TREATMENT. DICAMBA, PROSULFURON WITH DICAMBA AND AGRAL 90, AND GLYPHOSINATE PROVIDED GOOD TO EXCELLENT CONTROL OF SMALL BURCUCUMBER (4 OR FEWER LEAVES AT APPLICATION), BUT TENDED NOT TO CONTROL LARGE BURCUCUMBER AS WELL. NEITHER NAF-73 WITH AGRAL 90 NOR DPX 79406 WITH AGRAL 90 CONTROLLED BURCUCUMBER WELL AT 56 DAYS, EVEN THOUGH MID-SEASON CONTROL WAS EXCELLENT FOR BOTH LARGE AND SMALL BURCUCUMBER IN THE CASE OF DPX 79406. SECONDARY INDEX: CONTROL OF WEEDS IN CORN (FIELD AND SWEET). (COLLEGE OF AGRICULTURAL TECHNOLOGY, RIDGETOWN).
GIANT FOXTAIL CONTROL IN RIDGE-TILL CORN WITH EXP31130A

SITE: Ridge-Town, ON. WEATHER STN: Ridgetown, ON.


CONTROL OF WEEDS IN CORN (FIELD AND SWEET)

### Table: Weed Management

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### Table: Weed Density

| SITE DESCRIPTION: MATERIALS AND METHODS: 200 KG/HA OF ACTUAL N WAS APPLIED AS A SIDEDRESSING. THE "OTHER ASSESSMENT" IN COLUMN 7 IS CORN YIELD IN BU/ACRE. |

### Table: Meteorological Data

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### Table: Conclusions

CONTROL OF WEEDS IN CORN (FIELD AND SWEET)

CANADA FLEABANE CONTROL IN NO-TILL CORN WITH PREPLANT HERBICIDE APPLICATIONS ECW/EDI-2.2
SIMUMA P H, ELMES M J
EXPERIMENT ID: NC98A4

CROP: CORN, FIELD (PIG 3515). PLANTED: 98/05/08, 64200 SE/HA, 5 CM DEEP, 100 CM ROW WIDTH. PLANTING METHOD: PRECISION PLANTER. FERT BROADCAST ON 98/05/01 AT 224 KG/HA PROD WITH 00-00-60 FERT BROADCAST ON 98/05/01 AT 112 KG/HA PROD WITH 10-50-00 FERT WITH SEED ON 98/05/08 AT 112 KG/HA PROD WITH 18-32-00 PREV CROPS: SOYBEAN (97). FIELD EXPT. EXPT DESIGN: RANDOMIZED COMPLETE BLOCK.


CORN, FIELD (3515) EMERGED ON: 98/05/13.

SITE DESCRIPTION: SOIL TEXTURE: SANDY LOAM.

MATERIALS AND METHODS:

SITE DESCRIPTION: SOIL TEXTURE: SANDY LOAM.

CORN, FIELD (3515) EMERGED ON: 98/05/13.


CONTROL MARGINALLY. SECONDARY INDEX: CONSERVATION TILLAGE & WEED MANAGEMENT. (COLLEGE OF AGRICULTURAL TECHNOLOGY, RIDGETOWN).

CONTROL OF WEEDS IN CORN (FIELD AND SWEET)

CANADA FLEABANE CONTROL IN NO-TILL CORN WITH POSTEMERGENCE HERBICIDES

ECW/EDI-2.2

SIREVRA P H, ELMS M J

EXPERIMENT ID: NC98C4

CROP: CORN, FIELD (PIO 3515). PLANTED: 98/05/08, 64200 SE/HA, 5 CM DEEP, 100 CM ROW WIDTH. PLANTING METHOD: PRECISION PLANTER. FERT BROADCAST 98/05/01 AT 112 KG/HG/PROD WITH 10-50-00 FERT BROADCAST ON 98/05/01 AT 224 KG/HG/PROD WITH 00-00-60 FERT WITH SEED ON 98/05/08 AT 112 KG/HG/PROD WITH 18-32-00 PREV CROPS: SOYBEAN (97). FIELD EXPT. EXPT DESIGN: RANDOMIZED COMPLETE BLOCK.


CORN, FIELD (3515) EMERGED: ON 98/05/13.

SITE DESCRIPTION: SOIL TEXTURE: SANDY LOAM.

MATERIALS AND METHODS: 150 UNITS OF NITROGEN (AS ANHYDROUS) WAS SIDEDRESSED. THE RATE OF AGRAL 90 WAS % V/V, NOT KG AI/HA AND THE RATE OF 28-00-00 FERT WAS L/HA. THE "OTHER" ASSESSMENT IN COLUMN 10 IS CORN YIELD IN BU/ACRE.

### MATERIALS AND METHODS

150 UNITS OF NITROGEN (AS ANHYDROUS) WAS SIDEDRESSED. THE RATE OF AGRAL 90 WAS % V/V, NOT KG AI/HA.

### SITE DESCRIPTION

SOIL TEXTURE: SANDY LOAM.

### METHODS AND MATERIALS

- **Check:**
- **Atrazine:** 90 Wg
- **Dicamba:** 48 SN
- **F Dicamba:** 1.8 40.1 SU
- **P Atrazine:** SU
- **F Atrazine:** 5 SU
- **F 2,4-D Ester:** 28 EC
- **F Bromoxynil:** 0.2 28 EC
- **T Atrazine:** 1.5 90 Wg
- **T Prolsulfuron:** 0.01 75 Wg
- **T Dicamba:** 0.14 70 Wg
- **T Agral 90:** 0.2 100 D
- **T Naf-73:** 0.185 84 3 WG
- **T Agral 90:** 0.2 100 D
- **T Prolsulfuron:** 0.185 84.3 Wg
- **T Atrazine:** 1.5 90 Wg

### APPLICATION INFORMATION

- **GLUFOSINATE AMMONIUM -CAX:**
- **GLYPHOSATE -MOL:**
- **IMAZETHAPYR (AC 263,499) -CYC:**
- **NAF-73 -DWE:**
- **PROSULFURON (CGA-152005) -CGC:**
- **ATRAZINE -CYC (9:1):**
- **ATRAZINE -UAP (5:1):**
- **BROMOXYNIL -RPC:**
- **DICAMBA -BAZ (3:1):**
- **DICAMBA -BAZ (4:1):**
- **DICAMBA -CGC (7:1):**
- **2,4-D ESTER -UAP:**
- **28-00-00 FERT -OTH:**
- **AGRAL 90 -CHP:**
- **ATRAZINE -BAZ (4:1):**
- **ATRAZINE -CGC (2:1):**
- **ATRAZINE -CGC (6:1):**

### CONCLUSIONS

This trial was conducted in conventional corn, which explains the extremely high crop injury ratings for the glyphosate and glufosinate treatments. Dicamba and dicamba/atrazine provided excellent control of Canada fleabane; Bromoxynil plus atrazine and glyphosate and glufosinate provided good control. Atrazine/2,4-D, prosulfuron plus dicamba, and naf-73 provided fair control; and imazethapyr/atrazine provided poor control of Canada fleabane. Secondary index: conservation tillage 6 weed management. (College of agricultural technology, Ridgetown).
CONTROL OF WEEDS IN CORN (FIELD AND SWEET)

FIELD HORSETAIL CONTROL IN CORN

Materials and Methods: 180, 34, and 134 kg/ha of nitrogen, phosphorus and potash respectively were applied to the trial. The rate of AGRAL 90 was % V/V, not kg AI/ha.


Materials and Methods: 180, 34, and 134 kg/ha of nitrogen, phosphorus and potash respectively were applied to the trial. The rate of AGRAL 90 was % V/V, not kg AI/ha.

Crop: Corn, Field (PIO 3515). Planted: 98/05/15, 76600 SE/HA, 5 cm deep, 75 cm row width. Planting method: precision planter.

Site Description: Soil Texture: Sandy Loam.


Corn, Field (3515) Emerged on: 98/05/21.

Site Description: Soil Texture: Sandy Loam.

Materials and Methods: 180, 34, and 134 kg/ha of nitrogen, phosphorus and potash respectively were applied to the trial. The rate of AGRAL 90 was % V/V, not kg AI/ha.

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