

## Table of Contents - GTI 1998 Annual Research Report

Contents	Page number
<b>Foreword and Acknowledgements</b>	
Rob Witherspoon .....	i
<b>DEVELOPMENT AND EVALUATION OF TURFGRASS SPECIES AND CULTIVARS</b>	
<b>Guelph Turfgrass Institute 1998 Bentgrass Cultivar Trials</b>	
<b>USGA Putting Green Turf</b>	
Guelph Turfgrass Institute .....	1
<b>Screening Turfgrass Species And Mixtures For Tolerance to Road Salt</b>	
Pam Charbonneau and Jill Dupuis .....	3
<b>GTI Turf Management Software - Turfgrass Identification Module</b>	
K. Carey and R. Tschanz .....	7
<b>TURFGRASS MANAGEMENT</b>	
<b>Guelph Turfgrass Institute 1998 Fertilizer Performance Trial: Performance of Fertilizers on Penncross Creeping Bentgrass USGA Putting Green Turf</b>	
K. Carey and E. Gunn .....	9
<b>Guelph Turfgrass Institute 1998 Fertilizer Performance Trial: Performance of Fertilizers on Kentucky Bluegrass Turf</b>	
K. Carey and E. Gunn .....	19
<b>Evaluation of the Colour Performance of Iron Containing Turfgrass Fertilizers</b>	
K. Carey and E. Gunn .....	27
<b>Compost as an Amendment for Sand Rootzones for Turfgrass. I. Greenhouse Trial.</b>	
K. Carey and E. Gunn .....	33
<b>Compost as an Amendment for Sand Rootzones for Turfgrass. II. Construction of USGA Rootzones.</b>	
K. Carey and E. Gunn .....	37
<b>Compost as an Amendment for Topdressing Creeping Bentgrass Putting Green Turf.</b>	
K. Carey and E. Gunn .....	45
<b>Field Evaluation of Primer Granular Formulation - 1998 Season</b>	
K. Carey and E. Gunn .....	51
<b>ENVIRONMENTAL RESEARCH</b>	
<b>Summary of Activities: Lysimeters at GTI ERC, Summer 1998.</b>	
Lisa Martel and Gary Parkin .....	57

**Field and Laboratory Studies of Pesticide Mixture Toxicity to Non-target Organisms Using Probabilistic Risk Assessment**

Mark J. Chappel, Tara K. George, P.K. Sibley, K.R. Solomon, and K. Liber . . . . . 61

**Field and Laboratory Assessments of the Environmental Fate and Biological Effects of Individual and Mixture Exposures of Trichloroacetic Acid (TCA), Trifluoroacetic Acid (TFA), and Related Haloacetic Acid Compounds**

M. Hanson, P.K. Sibley, K.R. Solomon, D.C.G. Muir, and S. Mabury . . . . . 67

**TURFGRASS PATHOLOGY**

**Chemical Trials for Snow Mould Disease Control. December 1997 - April 1998**

S. Cook and T. Hsiang . . . . . 73

**Control of Grey Snow Mould with *Typhula phacorrhiza*. Summary for 1998**

Tom Hsiang, Sandra Cook and Guiying Zhao . . . . . 77

**Chemical Trials For Snow Mould Disease Control, Quebec, 1997-1998.**

Yves Desjardin and Tom Hsiang . . . . . 79

**Epidemiology and Disease Forecasting of Dollar Spot on Creeping Bentgrass - 1998**

Brenda Walsh and Greg J. Boland . . . . . 81

**Chemical Trials for Dollar Spot Disease Control. Summer 1998**

S. Cook and T. Hsiang . . . . . 85

**Control of Dollar Spot in Turf - 1998 [ICAR: 61006536]**

R. E. Pitblado and M. Gladstone . . . . . 89

**Effect of Corn Cultivars and Tissue Type on Sclerotial Production of *Typhula phacorrhiza***

Tom Hsiang and Guiying Zhao . . . . . 91

**Leaf Rust Control in Turf - 1998 [ICAR: 61006536]**

R. E. Pitblado and M. Gladstone . . . . . 95

**WEED CONTROL**

**Evaluation of PBI/Gordon's Weed & Feed Formulations for Broadleaf Weed Control and Cool Season Turfgrass Safety.**

K. Carey and E. Gunn . . . . . 97

**Chemical Trials For Moss Control. Summer 1998**

S. Cook and T. Hsiang . . . . . 107

**TURFGRASS EXTENSION**

**1998 Turfgrass Extension Seasonal Summary**

Pam Charbonneau . . . . . 111

## NURSERY PRODUCTION

### **Tree Growth and Quality in Response to Different Rates of Soil Injected Slow Release Fertilizers.**

Ligita Taurins and Glen Lumis ..... 113