

- Who We Are and What We Do
- IASPP / MUNBG Role
- MUNBG IAP List
- “Eyes Across the Province”
- How You Can Help!
- Questions??



# MUN Botanical Garden

- Welcoming the public for 30 years
- 110 acre
  - 4 acres formal gardens
  - Walking trails
- Education Programs
- Research Programs
- Community leader















# **Invasive Alien Species Partnership Program (IASPP)**

- MUNBG awarded \$40,000 to increase awareness of the problem of invasive plant species
- To assess and monitor MUNBG collections for invasiveness
- To establish a network of provincial reporters regarding invasive species



# Possible Roles for Public Gardens

## MUN Botanical Garden

- Invasive plant policy development for botanical gardens
- Remove; phase out; monitor species
- Initiate/publish/disseminate Weed Risk Assessment results for local area
- Phase out ‘no questions asked’ seed exchange
- Educate, explain to visitors, local industry, local government
  - Interpretive displays
  - Web sites
  - Talks and tours (e.g. pre-settlement flora)
  - “Neighbourhood watch” get people involved
- Suggest alternatives to problem plants – negative “thou shalt nots” are less successful than “why not try this”



**Job #1**

Awareness



# Getting the word out



10:35 PM

## Canadian Botanical Conservation Network's Newsletter (CBCN)

### Bulletin du Réseau canadien pour la conservation de la flore (RCCF)

#### Editorial

Dear readers,

We are happy to present the new edition of the Canadian Botanical Conservation Network Newsletter, a newly combined effort with the Canadian Botanical Gardens Educator's Network newsletter. This collaboration will offer a forum for exchange wherein the various issues regarding the conservation of plant biodiversity are addressed (scientific, applied and public awareness).



5/31/2007

#### 9. Stopping the Green Invasion! Memorial University of Newfoundland Botanical Garden Takes Aim at Invasive Alien Species, Costa Kasimos & Joy Barfoot, MUN Botanical Garden



If you've ever driven onto one of the ferries leaving Newfoundland, you've probably been pleasantly surprised by the complimentary car wash, until you see that they only cleaned the bottom of your car. This is but one of many programs across the country designed to prevent the spread of invasive alien species; in this case the Golden Nematode (a potato disease). Canada, as well as most other countries, has been forced to deal with the multi-billion dollar problems associated with alien species.

Invasive alien species are one of the world's most serious threats to biodiversity and they can have massive economic consequences as well. They include plants, animals and microbes that can enter natural habitats, become established, and out-compete native species. If they simply stayed in one area, they would be regarded as exotic species. It is when they start changing things, spreading around, squeezing out natives that they are considered an

unwanted pest (or alien invasive). > read more

#### 10. What's Coming Up at CITES CoP 14, Adrienne Sinclair, CITES Scientific Advisor for Plant Trade

The 14th meeting of the Conference of the Parties (CoP) to CITES (Convention on International Trade in Endangered Species) will take place from June 3 to 15, 2007, in the Hague, Netherlands. The CoP meets every three years to amend the list of species regulated under the Convention in Appendices I and II. Species listed in Appendix I are endangered because of international trade and those in Appendix II could become endangered if trade is not regulated. > read more

#### 11. Letter from Wuhan: A report on the Third Global Botanic Gardens Congress, David Galbraith, Royal Botanical Gardens

The background of the slide is a solid dark orange color, overlaid with a pattern of stylized, lighter orange and brown leaves. The leaves are of various shapes and sizes, some with prominent veins, creating a textured, autumnal effect.

# **Job #2**

**What's the Big Deal?**



# Common NL Attitudes

- Dramatic enthusiastic growth should be revered and congratulated...  
“where can I get some of that?”

Biggest problem:  
recognizing that we  
have a problem

Isn't more species a good  
thing?

What about all this  
diversity you keep on about?



The background of the slide is a solid dark orange color, overlaid with a pattern of lighter orange and brown leaves. The leaves are stylized, with prominent veins, and are scattered across the entire background, creating a textured, autumnal feel.

# Job #3

What Have We Got?  
AND Where Is It?



# “Eyes Across the Province”

- On line monitoring program
- Information on plants being watched
- Report “sightings”
- Suggest new plants

# Here, and Gaining Ground!



Purple loosestrife



# Why Not Blue Flags?



- Yellow iris

# One of the Most Common Weeds in St. John's

- Wild chervil





# Half of the Seeds will Germinate after 15 Years!



- St. John's  
wort



# A Common Garden Plant!



■ Goutweed





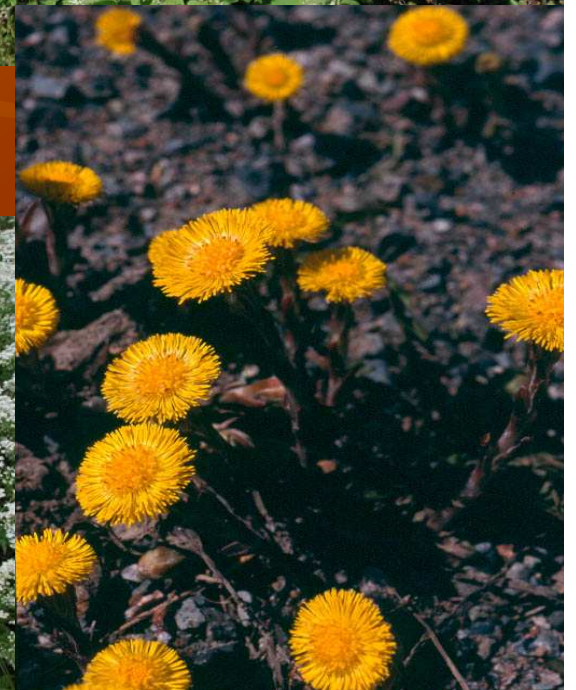
# Purple Fields and Paths!



- Black knapweed

# How Do I Report IAPs?

- [www.mun.ca/botgarden](http://www.mun.ca/botgarden)
- Online survey or print a survey
- Send it in!






[Home](#) | [About The Garden](#) | [Events](#) | [Biodiversity](#) | [Plant Atlantic](#) | [Gardening](#) | [Programs](#) | [Friends](#) | [Invasive Alien Species](#)

## Biodiversity

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[Plants](#)  
[Research](#)  
[Education](#)  
[PlantWatch](#)  
[Composting](#)  
[Gallery](#)  
[Invasive Alien Species](#)

*Investing  
in Nature*

A Partnership for Plants in Canada  
Un partenariat canadien pour les plantes

## The Origin of Newfoundland's Flora

By Dr. Peter Scott

The flora of Newfoundland is particularly fascinating, not because of its richness but because of its paucity and the odd assemblage of plants. Newfoundland pokes off the edge of the North American continent and gets the tail-end of many different floras. Many plants reach the extreme of their range or ecological tolerance here. In addition, many plants do not fill the same ecological niche here that they do elsewhere. All of this leads to many delightful discoveries for anyone studying the flora.

The island of Newfoundland has an area of about 109,000 sq. km. (42,000 sq. mi.). It is separated from Labrador by 18 km (11 mi.) and from Cape Breton Island by 114 km (70 mi.). The island consists of a tilted plateau of moderate to slight relief and rises gradually to the west where there are elevations of 760 m (2,500+ ft.). The whole island is quite hilly. Newfoundland has an interesting geological history since the western part of the island is an extension of North America and the eastern portion was once part of northern Africa. When the two parts collided, there was an upwelling of magma which gives us the mineral-rich deposits of central Newfoundland which are mined. This geology leads to a difference in the soils. The eastern portions have acidic bedrock and glacial till derived from it which produces an acidic soil and, consequently, difficult growing conditions for plants. In the west, there are



## NEWS / EVENTS

- ❖ [2008 PROGRAM REGISTRATION](#)
- ❖ [WINTER HOURS AT THE GARDEN](#)
- ❖ [THE TWINFLOWER - AUTUMN 2007 ISSUE](#)

## HIGHLIGHTS

- ❖ [CONFERENCE ROOM AVAILABLE FOR](#)





Botanical Garden | Eyes Across the Province - Windows Internet Explorer

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Alien\_Species/eyes.php

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Botanical Garden | Eyes Across the Province

Page Tools

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MEMORIAL UNIVERSITY

OF NEWFOUNDLAND



Home

About The Garden

Events

Biodiversity

Plant Atlantic

Gardening

Programs

Friends

Invasive Alien Species

Invasive Alien Species

Conservation

Plants

Research

Education

PlantWatch

Composting

Gallery

Invasive Alien Species

Investing in Nature

A Partnership for Plants in Canada

Un partenariat canadien pour les plantes

Introduction

Brochure

Invasives

Report Alien Plants


How You Can Help

FAQ

"Eyes Across the Province"

Overview:

Early detection of invasive alien plants provides the best opportunity for successful management and control. As part of the *Invasive Alien Plant Project*, MUN Botanical Garden is launching the "Eyes Across the Province" monitoring program. This program collects data provided by interested citizens and volunteers through a "sighting and reporting" system which will document the range of invasive alien plants throughout Newfoundland and Labrador.



Method:

Contributing to this program is easy. When one of these **alien species** is sighted, make a record of what you see. Fill out a separate monitoring form **online** or print and mail the **monitoring form** for each plant sighted. Record such information as plant name, abundance, development stage, and type of habitat surveyed. *It's that simple!*

Benefits to Participants and Research Staff:

The information gathered by the volunteers will be recorded by reasearch staff at MUN Botanical Garden. **Plant distribution**

NEWS / EVENTS

2008 PROGRAM REGISTRATION

WINTER HOURS AT THE GARDEN

THE TWINFLOWER - AUTUMN 2007 ISSUE

HIGHLIGHTS

CONFERENCE ROOM AVAILABLE FOR BOOKINGS

The MUN Botanical Garden conference room is available for business meetings, workshops and conferences. The room measures 27' X 2'... [More](#)

Internet 100%

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Alien\_Species/WANTED\_Purple\_Loosestrife.pdf - Windows Internet Explorer

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Alien\_Species/WANTED\_Purple\_Loosestrife.pdf

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Ali...

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# UNWANTED

## Purple Loosestrife

(a.k.a. *Lythrum salicaria*)



A native of Europe, this plant can be found spreading across Canada.

1 of 1

Unknown Zone



http://channels.mun.ca/survey/entry.jsp?id=1173964425562 - Windows Internet Explorer

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http://channels.mun.ca/survey/entry.jsp?id=117396...

Newfoundland and Labrador's Invasive Alien Plants: "Eyes Across the Province"

## Invasive Plant Survey

Name

Affiliation

Address

Phone

e-mail

Plant Name

Date Recorded (dd/mm/yyyy)

**Abundance of plants (please select one)**

☐ Abundant (carpet of plants)

☐ Scattered (widely spaced)

☐ Sparse (just a few plants)

☐ Single (just one plant)

**Plant development stage (check all that apply)**

☐ Immature

☐ Flowering

☐ Fruits

☐ Seeds

When were the plants first noticed (specific date, year, etc.)

Done Internet 100%

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Alien\_Species/Monitoring\_Form.pdf - Windows Internet Explorer

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Alien\_Species/Monitoring\_Form.pdf

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**MUN Botanical Garden**  
Memorial University of Newfoundland

**Newfoundland and Labrador's  
Invasive Alien Plants:  
"Eyes Across the Province"**

**Field Monitoring Form for Invasive Alien Plants**

Name \_\_\_\_\_ Affiliation \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ e-mail \_\_\_\_\_

Plant Name \_\_\_\_\_ Date Sited (dd/mm/yy) \_\_\_\_\_

See [www.mun.ca/botgarden](http://www.mun.ca/botgarden) for more information and a list of plants.

<b>Abundance of plants</b>	<b>Plant developmental stage(s)</b>
<input type="checkbox"/> Abundant (carpet of plants)	<input type="checkbox"/> Immature
<input type="checkbox"/> Scattered (widely spaced)	<input type="checkbox"/> Flowering
<input type="checkbox"/> Sparse (just a few plants)	<input type="checkbox"/> Fruits
<input type="checkbox"/> Single (just one plant)	<input type="checkbox"/> Seeds

When were the plants first noticed (specific date, year, etc.) \_\_\_\_\_

Name of area being surveyed \_\_\_\_\_

**GPS coordinates (if available)**

Latitude \_\_\_\_\_ N Longitude \_\_\_\_\_ W

1 of 1

Unknown Zone



# The Results Are In!

What do we do with the information  
collected?

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Alien\_Species/Reported\_Purple\_loosestrife.pdf - Windows Internet Explorer

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Alien\_Species/Reported\_Purple\_loosestrife.pdf

Google

http://www.mun.ca/botgarden/plant\_bio/Invasive\_Ali...

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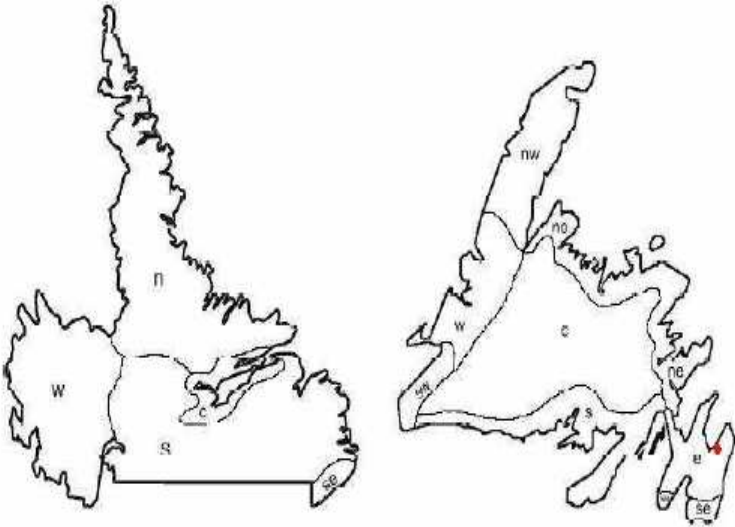
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Pages

Attachments

Comments



1 of 1

Unknown Zone





# **Program Challenges?**

# Attracting and Maintaining Volunteers

- Fear of “scientific terminology”
- Being creative
- Use of alien = fear mongering
- Animals get more attention
- Labrador not as well documented
- Province is vast



# Watchers

- Education and advocacy through involvement
  - Reporting on sightings from ‘the list’
  - Most Un-Wanted
  - Requires a ‘buy-in’ from public
  - Requires development of observational skills



# Future work...

- School visits
- Continue the monitoring program
- Working on experiments now in hope of future funding
- Future knowledge will entice people's curiosity







**Please Lend a Hand (or  
an eye)!**

[www.mun.ca/botgarden](http://www.mun.ca/botgarden)

**Thank You!**