

INVASIVE SPECIES EDUCATION & OUTREACH: 2013 COMPENDIUM OF RESOURCES



Invasive Species Centre
Technical Report Series



Catalyst for research and response

**Ontario Federation of Anglers and Hunters.
Invasive Species Education and Outreach Compendium:
Materials & Resources in Ontario. Peterborough, ON.**

This document was prepared for the Canada/Ontario Invasive Species Centre by the Ontario Federation of Anglers and Hunters.
Support for the production and publication of this document has been provided by the:
Canada/Ontario Invasive Species Centre | Ontario Ministry of Natural Resources

Inquiries regarding this document can be directed to the Invading Species Awareness Program
c/o Ontario Federation of Anglers and Hunters
PO Box 2800, 4601 Guthrie Drive
Peterborough, ON
K9J 8L5
Phone: (705) 748-6324
1-800-563-7711
Email: info@invadingspecies.com

For more information on invasive species education and outreach, visit
www.ontario.ca/invasivespecies, www.invasivespeciescentre.ca,
www.invadingspecies.com, or www.ontarioinvasiveplants.ca

Cover Photo Credits (top left to bottom right):

Round goby – David Copplestone, MNR
Asian long-horned beetle – Melody Keena, USDA Forest Service, Bugwood.org
Rusty crayfish – Doug Watkinson, DFO, Winnipeg
Butternut canker – Robert L. Anderson, USDA Forest Service, Bugwood.org
Viral hemorrhagic septicemia – Wikimedia Commons
Eurasian water-milfoil – OFAH
Dog strangling vine – Andrea Hicks, OFAH

March 2013





Invasive Species Centre

Protecting Ontario's Natural Resources

The Invasive Species Centre provides a forum for sharing information and coordinates the research necessary to implement the Invasive Alien Species Strategy for Canada and the draft Ontario Invasive Species Strategic Plan. It facilitates interactions among the diverse governmental and non-governmental organizations and members of the Canadian public that are committed to these strategies, helping to prevent the introduction of new invasive species and managing existing ones.

Alien Invasive Species continue to be introduced into Canada. These species have the potential to significantly harm Canada's ecosystems and economy. As global trade, international and domestic travel, and industrial and natural resource development increases, so too does the risk of introduction and spread of invasive species. Climate change, pollution, and urban growth further stress ecosystems, making them more susceptible to threats from invasive species.

There is a history of invasive species in Ontario. Zebra mussels, sea lamprey, Dutch elm and Butternut canker diseases are some of the better known culprits. These species have caused significant ecological damage by destroying natural resources, outcompeting native species for food, and destroying native species habitat. The economic cost of invasive species is tens of billions of dollars, and those costs are growing.

Recently, the Ontario Ministry of Natural Resources (OMNR), the Canadian Food Inspection Agency (CFIA), Fisheries and Oceans Canada (DFO), and the Canadian Forest Services branch of Natural Resources Canada (CFS, NR Can) collaborated to improve Canada's and Ontario's response to terrestrial and aquatic invasive species issues. To support this federal-provincial collaboration, the Canada-Ontario Invasive Species Centre (ISC) was established in April 2011 to enhance coordination of research and management actions.

The ISC is a not-for-profit organization based in Sault Ste. Marie. The new ISC facility, which is co-located with the CFS Insect Production and Quarantine Laboratory, was constructed with federal and provincial government funding. By serving as the hub of a network comprised of federal and provincial government agencies, academia, municipalities, First Nations, industry, and non-government organizations, the ISC plays an important role in concerted efforts to mitigate the threat of invasive species.

The *Invasive Species Centre Technical Report Series* aims to promote and share knowledge related to invasive species in Ontario. Making these reports widely available online and to new audiences will encourage collaboration, sharing and transfer of information, and a better understanding of the challenges and opportunities in dealing with invasive species in Ontario.

For more information please visit www.invasivespeciescentre.ca.



Catalyst for research and response

CONTENTS

Acknowledgements.....	1
Introduction.....	2
Invasive Species Education and Outreach	3
Education and Outreach Questions and Responses	3
Area of Focus	4
Audience	4
Types of Materials Produced	5
Educational Materials By Species.....	6
Inventory of Invasive Species Education & Outreach Efforts in Ontario.....	10
Materials and Resources by Species.....	11
Fish.....	11
Forest Pests	22
Invertebrates.....	44
Pathogens – Aquatic.....	48
Pathogens – Terrestrial	53
Plants – Aquatic.....	58
Plants – Terrestrial	70
Pathways of Introduction and Spread.....	107
Aquarium/Water Garden Plants & Animals.....	107
Horticulture.....	111
Industry.....	121
Live Food Fish.....	125
Recreational – Aquatic.....	126
Recreational – Terrestrial	135
General Information on Invasive Species.....	143

ACKNOWLEDGEMENTS

The Invasive Species Education and Outreach Survey and Compendium was a cooperative effort with contributions from a number of individuals and agencies across Ontario.

Sophie Monfette, Ontario Federation of Anglers and Hunters, was instrumental in developing and writing this Compendium.

Funding and leadership for this project was provided by the Invasive Species Centre, Ontario Ministry of Natural Resources, Ontario Federation of Anglers and Hunters and the Ontario Invasive Plant Council.

This project would not have been possible without the many professionals who responded to the Invasive Species Education, Outreach and Plant Management Survey. Without them this project would not have been possible.

INTRODUCTION

The Invasive Species Centre (ISC) in partnership with the Ontario Ministry of Natural Resources (OMNR), Ontario Federation of Anglers and Hunters (OFAH), and the Ontario Invasive Plant Council (OIPC) conducted a web-based Invasive Species Education, Outreach and Plant Management Survey from December 2011 – January 2012. The objective of this survey was to gather information about education and outreach materials and methods for invasive plant management across the province.

The survey results were organized into two compendiums both released in 2012; one on invasive species education and outreach and the second on invasive plant management activities. These compendiums were designed to help provide a better understanding of the status of work happening across the province. The information gathered will help ISC and OMNR set future priorities for invasive species communications and invasive plant management.

The 2012 Compendium was shared broadly to agencies, organizations and individuals involved in invasive species education and outreach programs who participated in an Invasive Species Education and Outreach Workshop hosted by the ISC and OMNR in March 2012. Workshop participants were excited about the development of the Compendium and recommended that it be regularly updated.

Given the overwhelming support for the Compendium, additional education and outreach resources were incorporated into an updated and expanded *Invasive Species Education and Outreach: 2013 Compendium of Resources*.

The updated 2013 Compendium provides information about invasive species communications materials currently available in Ontario. The resources listed are organized by species and by pathway of spread to make the Compendium easy to use. Included in the Compendium is a table that summarizes the types of resources available by species and provides at a glance useful information for everyone involved in invasive species education and outreach.

Agencies, organizations and individuals with invasive species education and outreach programs are encouraged to add these materials to their communications plans, coordinate with others doing similar education and outreach work, and use the messages contained in the materials for their own purposes.

INVASIVE SPECIES EDUCATION AND OUTREACH

Invasive species are species introduced outside of their normal range that threaten the environment, the economy and society. Ontarians can play an important role in preventing the spread of invasive species. Education and outreach materials can help people to identify invasive species in their communities, learn about the threats they pose, and provide information on the tips and techniques to fight them.

Existing communication programs in Ontario cover many aspects of invasive species prevention and management. These programs can help raise awareness about invasive species if the materials are widely and easily available. Effective communication starts with knowing the audience and developing materials targeted to Ontario's diverse population.

This Compendium lists many of the existing education and outreach materials used in Ontario, and there are areas for which more/new effective initiatives are needed.

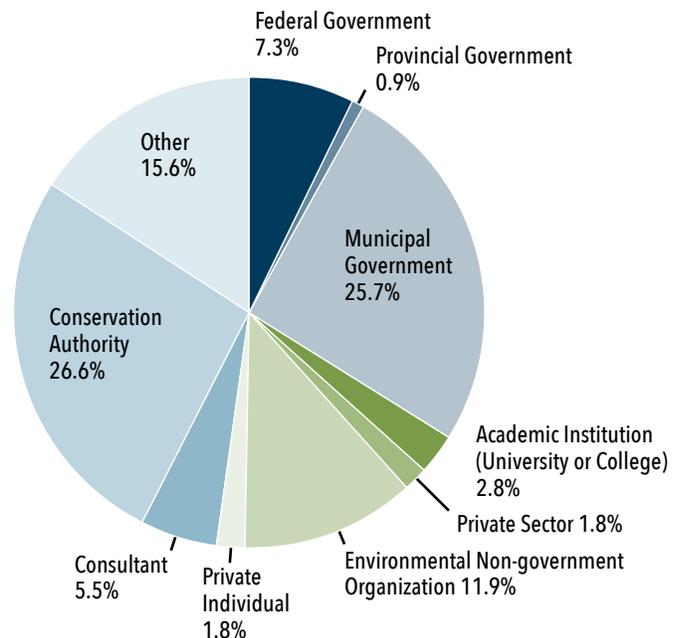
EDUCATION AND OUTREACH QUESTIONS AND RESPONSES

The survey was sent to agencies, organizations and individuals engaged in invasive species education, outreach and/or plant management in Ontario. It included eight questions about education and outreach materials produced or used by survey respondents. The questions asked what organization the respondent represents, if they produce their own educational materials/resources for invasive species, the types of materials/resources they produce, species focus, area of focus (regional, provincial, national), target audience, and how the materials/resources can be obtained.

The invasive species education and outreach survey questions were answered by 109 respondents representing a variety of interests. The majority of respondents identified themselves as representing either conservation authorities (26.6%) or municipal government (25.7%). Figure 1 shows the breakdown, by percent, of survey respondents.

Not all respondents answered every question in the survey. OMNR was not included in this survey, however, invasive species education and outreach materials produced by OMNR are included in the Compendium. Representation in the category called "Other" includes a collaborative working group, charitable organization, umbrella organization, not-for-profit organization, and naturalist club.

FIGURE 1 Affiliations of survey respondents by percent.
Results based on 109 responses.

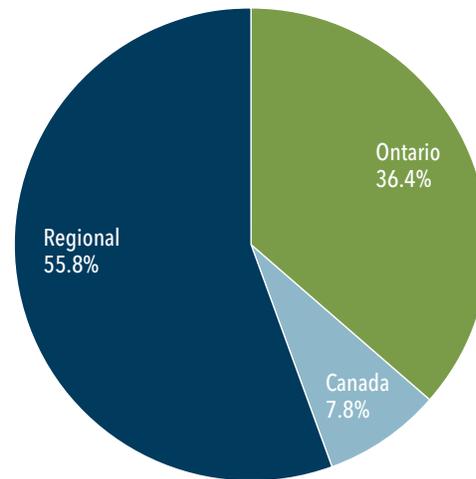


AREA OF FOCUS

Survey respondents were asked if the materials they produced had a Canadian, Ontario or regional focus.

The majority of survey respondents produced education materials that had a regional (55.8%) or Ontario (36.4%) focus (Figure 2). Some materials do have a Canadian focus (7.8%).

FIGURE 2 Breakdown, by percent, of the geographic focus for education and outreach materials *Results based on 77 responses.*

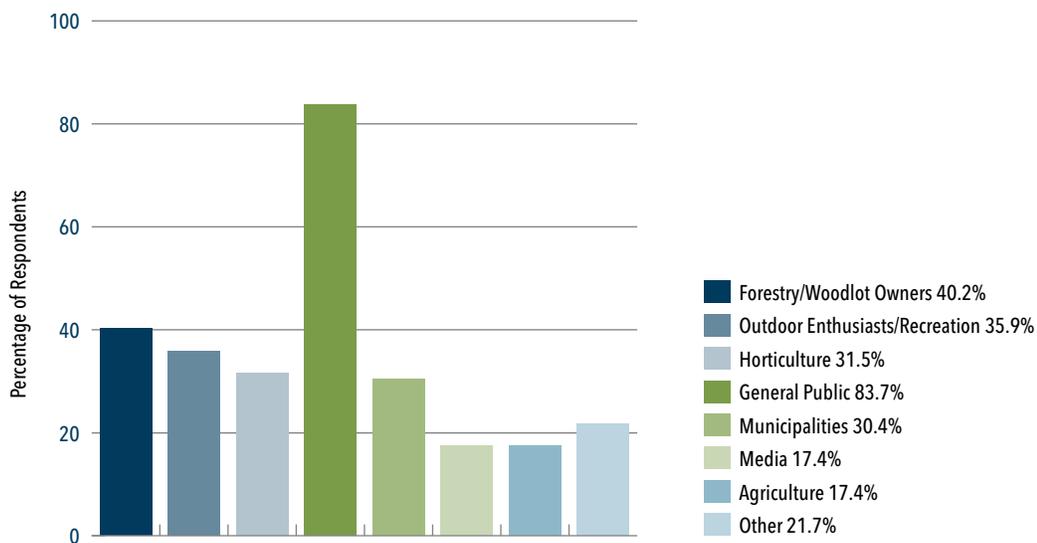


AUDIENCE

Survey respondents were asked to identify the target audience(s) for their invasive species education and outreach materials. Figure 3 shows the breakdown of survey responses.

The top five audiences being targeted by survey respondents were the general public (83.7%), forestry/woodlot owners (40.2%), outdoor enthusiasts/recreationalists (35.9%), horticulturalists (31.5%), and municipalities (30.4%).

FIGURE 3 Percent of respondents that target each audience when developing or distributing education and outreach material. *Results based on 95 responses.*



In addition to the audiences shown in the chart above, the following groups are identified by 21.7% of survey respondents as “other” audiences for which education and outreach materials are targeted:

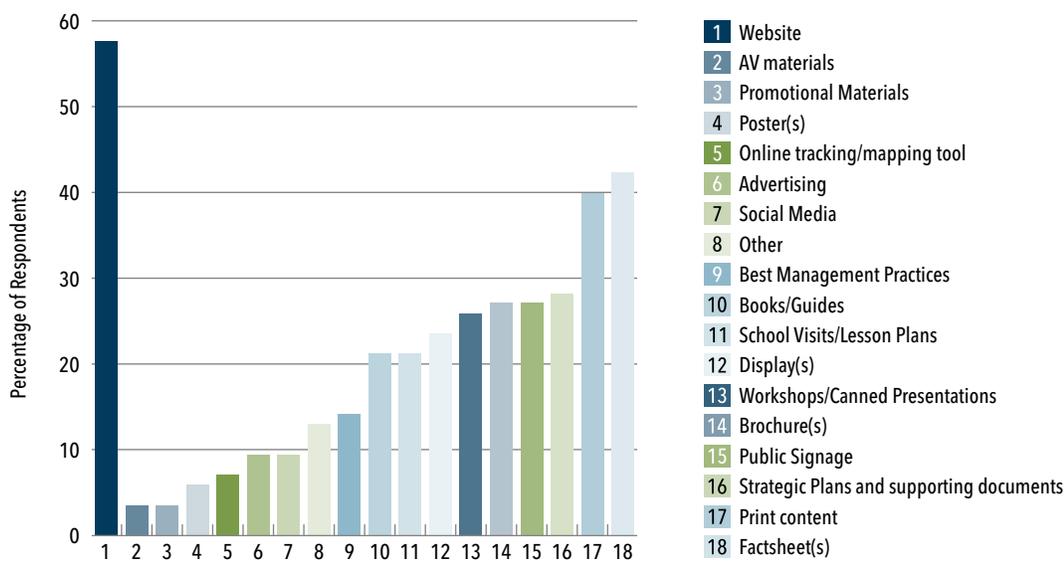
- academic community
- First Nations and Métis organizations
- Government agencies on a project specific basis
- invasive plant councils
- local councilors
- members of the beach/lake associations
- natural history organizations
- North American Invasive Species Network

TYPES OF MATERIALS PRODUCED

The types of educational materials and resources being produced were varied, ranging from advertising and social media messages to best management practices and strategic plans. Examples of other resources/materials being produced included educational games for youth, site visits, lectures, and consultation.

Based on the survey responses, the top five education and outreach materials organizations are producing are websites (57.6%), fact sheets (42.2%), print content (40%), strategic plans (28.2%), brochures and public signage (both had 27.1%) (Figure 4). Posters, audio visual (AV) materials, online tracking/mapping tools and promotional materials, such as key chains, were infrequently produced by survey respondents.

FIGURE 4 Types of education and outreach materials being produced in Ontario. Results based on 85 responses.



EDUCATIONAL MATERIALS BY SPECIES

Most education and outreach materials produced are not specific to a single invasive species, however more than half (57.6%) of survey respondents do produce materials that are species specific (result based on 99 responses). Fact sheets are most commonly used to share information on particular species. The products available for specific invasive species have been summarized in the table below. The table includes material produced on invasive fish, forest pests, invertebrates, pathogens (aquatic and terrestrial), and plants (aquatic and terrestrial).

Invasive species education, outreach and management programs are encouraged to make use of these materials:

INVASIVE SPECIES	FACT SHEET	BROCHURE	DISPLAY	BMP DOCUMENT	POSTER	AUDIO VISUAL	STRATEGIC PLAN	WEB/INTERNET	STICKER	WATCH CARD	SIGNAGE	OTHER
FISH												
Asian Carp	•	•								•		
Eurasian Ruffe										•		
Goldfish	•											
Northern Snakehead	•											
Rainbow Smelt	•											
Round Goby	•					•			•	•	•	
Rudd	•											
Sea Lamprey	•	•				•		•				
Tench	•											
Tube-nose Goby	•											
FOREST PESTS												
Apple Ermine Moth								•				
Apple Maggot								•				
Asian Long-horned Beetle	•							•				
Black Pine Bark Beetle								•				
Blueberry Maggot								•				
Brown Spruce Longhorn Beetle								•				
Citrus Long-horned Beetle								•				
Emerald Ash Borer	•	•	•				•	•				•
European Grapevine Moth								•				

	FACT SHEET	BROCHURE	DISPLAY	BMP DOCUMENT	POSTER	AUDIO VISUAL	STRATEGIC PLAN	WEB/INTERNET	STICKER	WATCH CARD	SIGNAGE	OTHER
INVASIVE SPECIES												
European Spruce Bark Beetle								•				
European Spruce Long-horn Beetle								•				
Gypsy Moth								•				
Hemlock Woolly Adelgid								•				
Jack Pine Budworm	•											
Japanese Beetle								•				
Khapra Beetle								•				
Leek Moth								•				
Light Brown Apple Moth								•				
Nun Moth								•				
Oriental Fruit Moth								•				
Pine Shoot Beetle								•				
Red-haired Pine Bark Beetle								•				
Sirex Wood Wasp								•				
Swede Midge								•				
Tomato Leafminer								•				
INVERTEBRATES												
Bloody Red Shrimp	•											
New Zealand Mud Snail										•		
Rusty Crayfish	•									•		
Spiny and Fishhook Waterflea	•									•		
PATHOGENS - AQUATIC												
Koi Herpesvirus	•							•				
Viral Hemorrhagic Septicemia	•							•	•			

INVASIVE SPECIES	FACT SHEET	BROCHURE	DISPLAY	BMP DOCUMENT	POSTER	AUDIO VISUAL	STRATEGIC PLAN	WEB/INTERNET	STICKER	WATCH CARD	SIGNAGE	OTHER
PATHOGENS - TERRESTRIAL												
Asian Soybean Rust								•				
Butternut Canker	•											
Chronic Wasting Disease	•							•				
Oak Wilt								•				
Scleroderris Canker								•				
White Nose Syndrome	•							•				
PLANTS - AQUATIC												
Eurasian Water-milfoil	•									•		
European Frog-bit	•									•		
Fanwort	•											
Invasive Phragmites	•	•		•								
Purple Loosestrife	•	•				•				•		
Water Chestnut	•									•		
Water Lettuce	•											
Water Soldier	•									•	•	
Yellow Iris	•											
PLANTS - TERRESTRIAL												
African Rue	•											
Bittersweet Nightshade	•											
Black Locust	•											
Buckthorn (Common, Glossy)	•			•								
Chinese Yam	•											
Common Crupina	•											
Dallis Grass	•											
Devil's-tail Tearthumb	•											
Dog-strangling Vine	•			•				•			•	
English or One Seeded Hawthorn	•											

INVASIVE SPECIES	FACT SHEET	BROCHURE	DISPLAY	BMP DOCUMENT	POSTER	AUDIO VISUAL	STRATEGIC PLAN	WEB/INTERNET	STICKER	WATCH CARD	SIGNAGE	OTHER
European Lily of the Valley	•											
European White Poplar	•											
False Spirea	•											
Field Bindweed	•											
Garlic Mustard	•			•								
Giant Hogweed	•			•				•				
Greater Celandine	•											
Iberian Starthistle	•											
Japanese Barberry	•											
Japanese Stiltgrass	•											
Jointed Goatgrass	•											
Kudzu	•											
Madagascar Ragwort and South African Ragwort	•											
Manitoba Maple	•											
Norway Maple	•											
Paterson's Curse	•											
Periwinkle	•											
Serrated Tussock	•											
Sessile Joyweed	•											
Silverleaf Nightshade	•											
Slender Foxtail	•											
Syrian Bean-caper	•											
Tartarian Honeysuckle	•											
Wild Chervil	•											
Woolly Cup Grass	•											
Yellow Archangel	•											
Yellow Bluestem	•											
Yellow Starthistle	•											

Based on the survey responses, the top five invasive species for which organizations produce materials are: Giant Hogweed (61.3%), Garlic Mustard (48.4%), Emerald Ash Borer (48.4%), Buckthorn spp. (45.2%), and Dog-strangling Vine (41.9%) (results based on 62 responses). The greatest variety of materials is available for the Emerald Ash Borer and the Round Goby. Information about these materials and resources is provided in this Compendium.

INVENTORY OF INVASIVE SPECIES EDUCATION & OUTREACH EFFORTS IN ONTARIO

This Compendium lists invasive species education and outreach materials available for Ontario. It is intended to encourage invasive species education and outreach by providing specific details on the resources available and how to obtain them.

The contents have been organized into three sections: i) Materials and Resources by Species, ii) Invasive Species Pathways, and iii) General Information. The first section lists the invasive species in alphabetical order and is organized into plants (aquatic, terrestrial), fish, forest pests, invertebrates and pathogens. Existing materials are listed for each species. The second section, Invasive Species Pathways, describes materials/resources about the spread of invasive species. Users can find products for the following pathways: aquariums, general public, horticulture, industry, live food fish, and recreational (aquatic, terrestrial). The final section of the Compendium, General Information, lists general materials/resources.

All of the materials described in this Compendium are available in English. Many of the materials are also available in French and one (a Round Goby Watch sign) is available in Cantonese. Everyone is encouraged to use these materials in their own programs. Information on how to obtain these materials is provided.

MATERIALS AND RESOURCES BY SPECIES

FISH



Photo: David Copplestone, MNR

This section provides information on the education and outreach materials/resources available for particular invasive fish species in Ontario. More information on some of the species listed below can be found in the materials/resources listed in the Aquarium, Recreational – Aquatic, and Live Food Fish pathway sections.

Asian Carp: Know the facts and learn how you can help

Type of Material:	Brochure	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Brochure outlining how Asian Carp are spreading towards the Great Lakes. It provides information on Asian Carp, including species characteristics and identification features (both adult and juvenile), how to prevent introduction and spread, how to report a sighting, and what Ontario is doing to prevent the introduction of Asian Carp to the Great Lakes.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.ontario.ca/invasivespecies Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Asian Carps: Threatening Ontario's Native Fishes

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Asian Carp and the threat posed to the Great Lakes. It includes information on identification characteristics of Asian Carp, what Ontario is doing to prevent introduction and spread, and what anglers and the public can do to prevent introduction and spread. It includes information on who to contact to report a sighting of Asian Carp.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@biodiversity/documents/document/stdprod_088924.pdf Phone: 1-800-563-7711 Email: info@invasingspecies.com	

Bighead and Silver Carp Watch

Type of Material:	Watch Card	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Wallet sized watch card providing general information on both Bighead and Silver Carp, identification features, information on how to prevent spread, and how to report a sighting of these species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invasingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invasingspecies.com	

Ruffe Watch

Type of Material:	Watch Card
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Wallet sized watch card providing general information on Eurasian Ruffe, identification features, information on how to prevent spread, and how to report a sighting of this species.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Goldfish

Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet providing general information on Goldfish and the threat posed to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/invaders/fish/goldfish/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Northern Snakehead

Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet providing general information on Northern Snakehead and its threat to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent the introduction and spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/invaders/fish/northern-snakehead/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Rainbow Smelt

Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet providing general information on Rainbow Smelt and its threat to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/invaders/fish/rainbow-smelt/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Round Goby

Type of Material:	Public Service Announcement
Area of Focus:	Ontario
Language:	Available in English and French
Description:	This video public service announcement profiles the threat invasive species pose to the environment with an emphasis on the Round Goby, control efforts, and how to prevent the spread of invasive species.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.youtube.com/invspecies Phone: 1-800-563-7711 Email: info@invadingspecies.com



Round Goby

Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet providing general information on Round Goby and its threat to Ontario waters. It includes information on introduced distribution range, significant impacts, identification features, how to prevent spread, and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/invaders/fish/round-goby/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Round Goby Watch

Type of Material:	Watch Card
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Wallet sized watch card providing general information on Round Goby, identification features, information on how to prevent spread, and how to report a sighting of this species.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Round Goby Watch

Type of Material:	Signage
Area of Focus:	Ontario
Language:	Available in English, French, and Cantonese
Description:	Signage cautioning the public on the impact of the Round Goby and how to prevent spread. This resource includes the Invading Species Hotline telephone number and website.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/live-bait/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Stop! It's Illegal

Type of Material:	Sticker
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Sticker outlining that it is illegal to use Round Goby as bait or to possess live. This sticker encourages the public to be responsible and never release live bait. It includes the Invading Species Hotline and website.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/live-bait/ Phone: 1-800-563-7711 Email: info@invadingspecies.com

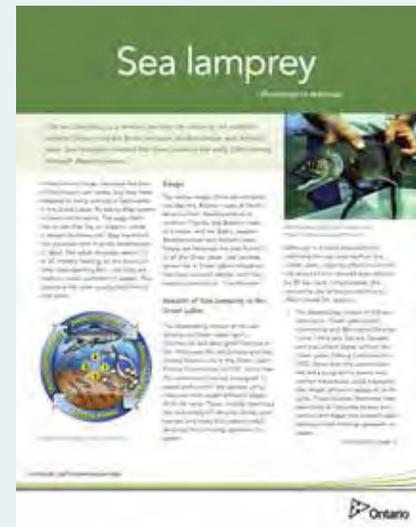


Rudd		
Type of Material:	Fact Sheet	 <p>The image shows a fact sheet titled 'Rudd' with a large photo of a rudd at the top. Below the title, there are several sections of text and smaller photos. One photo shows a rudd in a tank, another shows a rudd in a natural setting. The text discusses the species' characteristics, its threat to Ontario waters, and provides information on how to report sightings and prevent spread. The Ontario logo is visible in the bottom right corner.</p>
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Rudd and its threat to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/fish/rudd/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Sea Lamprey		
Type of Material:	Public Service Announcement	 <p>The image shows a video player interface displaying a close-up of a sea lamprey's head and mouthparts. The video player has a progress bar at the bottom and standard playback controls.</p>
Area of Focus:	Ontario	
Language:	Available in English	
Description:	This video public service announcement profiles the threat invasive species pose to the environment with an emphasis on the Sea Lamprey, control efforts, and how to prevent the spread of invasive species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.youtube.com/invspecies Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Sea Lamprey

Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet providing general information on Sea Lamprey and its threat to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/invaders/fish/sea-lamprey/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Sea Lamprey: A Great Lakes Invader

Type of Material:	On-line Resource
Area of Focus:	Ontario/Great Lakes
Language:	Available in English and French
Description:	Resource providing information on Sea Lamprey and its threat to the Great Lakes. Includes background information on life cycle, impacts and what you can do.
Producer:	Great Lakes Fishery Commission
Available at:	Web: www.glfc.org/sealamp/ Email: info@glfc.org



Sea Lamprey: The Battle Continues...

Type of Material:	Brochure	
Area of Focus:	Ontario/Great Lakes	
Language:	Available in English and French	
Description:	Brochure outlining how the Great Lakes are a valuable resource constantly under pressure from habitat loss, pollution, and invasive species. It provides information on the Sea Lamprey, including identification features, life cycle, distribution, impacts, control, and successes to date.	
Producer:	Great Lakes Fishery Commission	
Available at:	Web: www.glfc.org/js_includes/colorbox/brochure.html Email: info@glfc.org	

Tench

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Tench and its threat to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/fish/tench/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Tubenose Goby

Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet providing general information on Tubenose Goby and its threat to Ontario waters. It includes information and introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/invaders/fish/tubenose-goby/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



FOREST PESTS

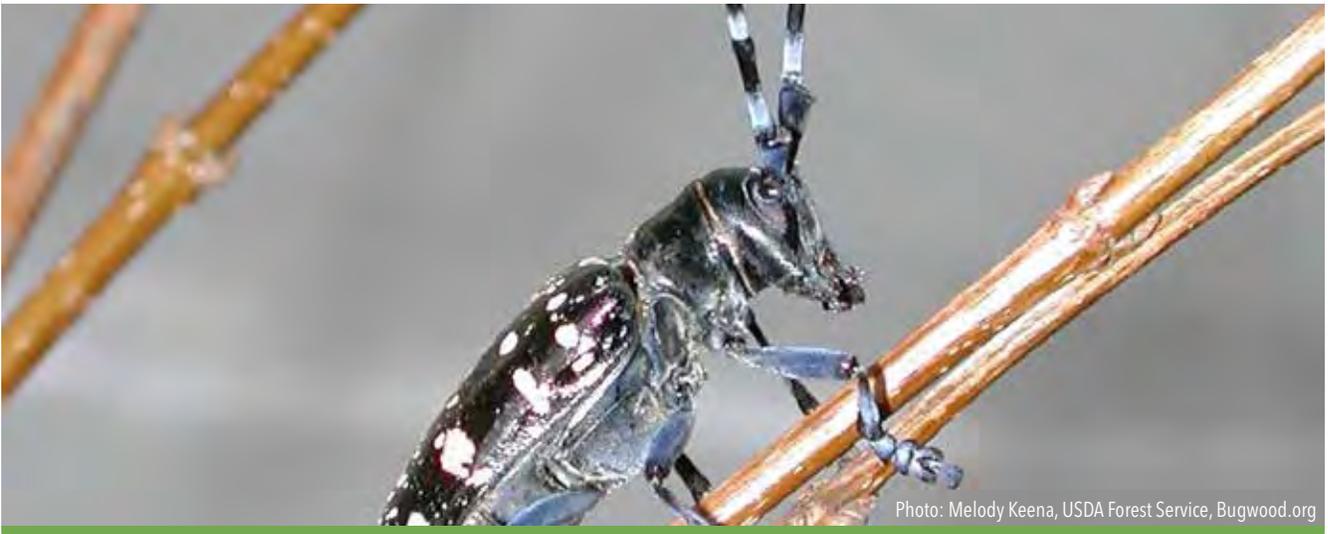


Photo: Melody Keena, USDA Forest Service, Bugwood.org

This section provides information on the education and outreach materials/resources available for particular invasive forest pest species in Ontario. More information on some of the species listed below can be found in the materials/resources listed in the Industry and Recreational – Terrestrial pathway sections.

Apple Ermine Moth (*Yponomeuta malinellus*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Apple Ermine Moth. It includes background information, host species, distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/apple-ermine-moth/fact-sheet/eng/1329158426213/1329159045124	

Apple Maggot (*Rhagoletis Pomonella*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Apple Maggot. It includes background information, host species, distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/apple-maggot/fact-sheet/eng/1330366145611/1330366375524	

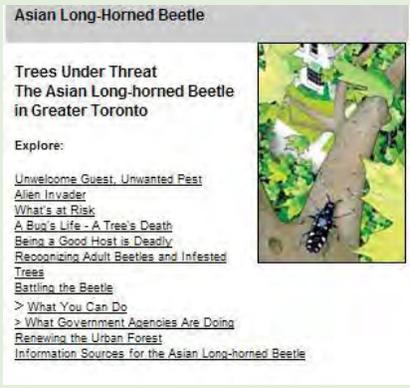
Asian Long-horned Beetle

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on Asian Long-horned Beetle. It includes information on the threat it poses to Ontario, identification features in all life stages, similar species, what to look for, impacts, life cycle, and host species. It also provides information on the history of infested areas, quarantine zones, what is being done, and how the public can help prevent introduction and spread.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/en/Business/Forests/2ColumnSubPage/STEL02_166979.html Web: www.ontario.ca	

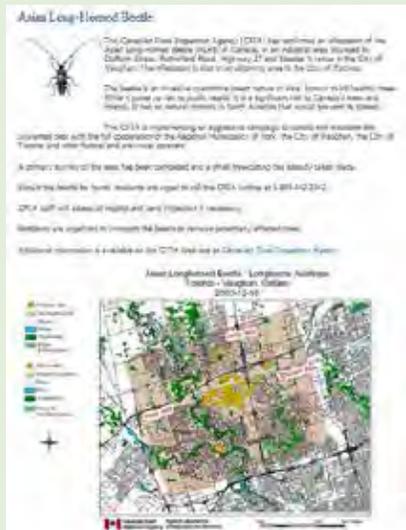
Asian Long-horned Beetle

Type of Material:	Fact Sheet	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Asian Long-horned Beetle. It includes a description, signs of infestation, preferred trees and where to report any sightings.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/pestrava_anogla_index_pdf_1337791531166_fra.pdf Phone: 1-800-442-2342	

Asian Long-horned Beetle

Type of Material:	On-line Resource	
Area of Focus:	Regional: Greater Toronto Area	
Language:	Available in English	
Description:	Resource providing information on the Asian Long-horned Beetle including how the beetle got to Canada, impact of its invasion, susceptible trees, identification features, what can be done to prevent spread, and what government agencies in Canada are doing to combat the beetle.	
Producer:	City of Toronto Urban Forestry	
Available at:	Web: www.toronto.ca/trees/asian-long-horn-beetle.htm	

Asian Long-horned Beetle

Type of Material:	On-line Resource	
Area of Focus:	Regional: York Region	
Language:	Available in English	
Description:	Resource providing information on Asian Long-horned Beetle including identification features, the threat posed, damage caused, and links to resources for more information.	
Producer:	York Region	
Available at:	Web: www.york.ca/Services/Environmental+Services/Forestry/Asian+Long-Horned+Beetle.htm Email: forestry@york.ca	

Black Pine Bark Beetle (*Hylastes ater*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Black Pine Bark Beetle. It includes background information, host trees, location of infestation, distribution, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/black-pine-bark-beetle/fact-sheet/eng/1326432690089/1326432862364	

Blueberry Maggot (*Rhagoletis Mendax*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Blueberry Maggot. It includes background information, host species, distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/blueberry-maggot/fact-sheet/eng/1328330175586/1328330543631	

Brown Spruce Longhorn Beetle (*Tetropium Fuscum*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Brown Spruce Longhorn Beetle. It includes information on identification, host trees, location of infestation, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/brown-spruce-longhorn-beetle/fact-sheet/eng/1332271932616/1332272399544	

Citrus Long-horned Beetle

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Citrus Long-horned Beetle. It includes background information, biology, detection, identification, host species and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/citrus-long-horned-beetle/fact-sheet/eng/1326132014538/1326132291047	

PEST ALERT- Emerald Ash Borer Information for Woodlot Owners

Type of Material:	Fact Sheet	
Area of Focus:	Eastern Ontario	
Language:	Available in English	
Description:	This fact sheet provides general information on Emerald Ash Borer and management guidelines for woodlot owners near an area confirmed to have Emerald Ash Borer.	
Producer:	Eastern Ontario Model Forest Network	
Available at:	Web: www.eomf.on.ca/media/k2/attachments/RFHN_EAB_Woodlot_Owner_Fact_Sheet_FINAL.pdf Phone: (613) 258-8241 Email: modelforest@eomf.on.ca	

Emerald Ash Borer (*Agrilus planipennis*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Emerald Ash Borer. It includes information on identification, host trees, location of infestation, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/emerald-ash-borer/fact-sheet/eng/1337368130250/1337368224454	

Emerald Ash Borer (*Agrilus planipennis*)

Type of Material:	Fact Sheet	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on the Emerald Ash Borer. It includes background information, how it is spread, signs of infestation and who to contact if you see suspected signs of infestation.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/pestrava_agrpla_alert_pdf_1337369655573_eng.pdf	

Emerald Ash Borer

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on the Emerald Ash Borer. It includes information on the threat it poses to Ontario, identification features in all life stages, similar species, what to look for, impacts, life cycle, and host species. It also provides information on the history of infested areas, quarantine zones, research, what is being done, and how the public can help prevent introduction and spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.mnr.gov.on.ca/en/Business/Forests/2ColumnSubPage/STEL02_166994.html Web: www.ontario.ca	

Emerald Ash Borer

Type of Material:	On-line Resource	
Area of Focus:	Regional	
Language:	Available in English	
Description:	Resource providing information on Emerald Ash Borer including identification features, impacts, and other frequently asked questions.	
Producer:	City of Hamilton Public Works Department	
Available at:	Web: www.hamilton.ca/CityDepartments/PublicWorks/Parks/Forestry/EAB+Home.htm Phone: 905-546-CITY (2489)	

Emerald Ash Borer

Type of Material:	On-line Resource	
Area of Focus:	Regional: Greater Toronto Area	
Language:	Available in English	
Description:	Resource providing information on the Emerald Ash Borer including general information on this invasive species, and its impact on trees in Toronto.	
Producer:	City of Toronto Urban Forestry	
Available at:	Web: www.toronto.ca/trees/eab.htm	

Emerald Ash Borer Task Force: Help Protect Northwestern Ontario

Type of Material:	Brochure	
Area of Focus:	Northwestern Ontario	
Language:	Available in English	
Description:	Brochure outlining Northwestern Ontario's efforts to prevent the introduction of Emerald Ash Borer (EAB). It provides information on the Emerald Ash Borer, its impacts on trees, public awareness campaigns, members of the EAB task force, and identification features of an EAB invasion.	
Producer:	Emerald Ash Borer Task Force	
Available at:	Email: SVescio@thunderbay.ca	

Emerald Ash Borer Display

Type of Material:	Display	
Area of Focus:	Regional: Durham	
Language:	Available in English	
Description:	Display provides an overview of Emerald Ash Borer lifecycle, with samples and wood pieces.	
Producer:	Central Lake Ontario Conservation Authority	
Available at:	Phone: (905) 579-0411 Email: mail@cloca.com	

Emerald Ash Borer

Type of Material:	Display	
Area of Focus:	Regional	
Language:	Available in English	
Description:	Brief overview of Emerald Ash Borer in the Region of Waterloo, including essential partnerships to slow the spread of this invasive species in the Region of Waterloo.	
Producer:	Region of Waterloo	
Available at:	Web: www.regionofwaterloo.ca/en/abouttheenvironment/forests.asp	

Emerald Ash Borer Information Sheet

Type of Material:	Fact Sheet	
Area of Focus:	Regional	
Language:	Available in English	
Description:	Fact sheet providing information on the Emerald Ash Borer, including the life cycle of this species, how it affects trees, signs of infection, how it is spread, what is being done, and how to prevent spread.	
Producer:	Halton Region	
Available at:	Web: www.halton.ca/common/pages/UserFile.aspx?fileId=19815 Phone: 905-825-6000	

Emerald Ash Borer Management Plan

Type of Material:	Strategic Document	
Area of Focus:	Regional: York Region	
Language:	Available in English	
Description:	A document providing a summary of the status of the Emerald Ash Borer in North America and its anticipated impacts on York Region.	
Producer:	Region of Waterloo	
Available at:	Web: http://tinyurl.com/8f4ez0q	

Emerald Ash Borer: Don't Move Firewood

Type of Material:	Business Card	
Area of Focus:	Northwestern Ontario	
Language:	Available in English	
Description:	Business card providing information on how the Emerald Ash Borer hitchhikes on wood. It encourages the public to help protect forests and trees and not to move wood. This product includes the link to the Emerald Ash Borer webpage put together by the City of Thunder Bay.	
Producer:	Emerald Ash Borer Task Force	
Available at:	Email: SVescio@thunderbay.ca	

European Grapevine Moth (*Lobesia Botrana*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on European Grapevine Moth. It includes background information, host species, distribution, biology, identification and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/european-grapevine-moth/factsheet/eng/1326832076174/1326832179736	

European Spruce Bark Beetle (*Ips Typographus*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on European Spruce Bark Beetle. It includes information on identification, host trees, location of infestation, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/european-spruce-bark-beetle/fact-sheet/eng/1327356236249/1327365288030	

European Spruce Longhorn Beetle (*Tetropium Castaneum*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on European Spruce Longhorn Beetle. It includes information on identification, host trees, location of infestation, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/european-spruce-longhorn-beetle/fact-sheet/eng/1328124395186/1328124873587	

Gypsy Moth (*Lymantria dispar*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Gypsy Moth. It includes information on identification, host trees, location of infestation, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/gypsy-moth/fact-sheet/eng/1330355335187/1335975909100	

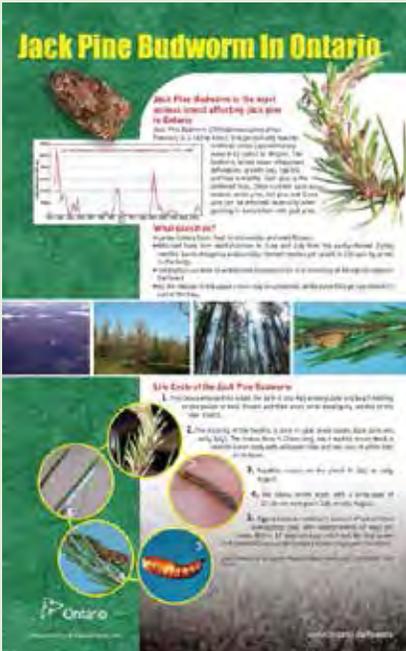
Hemlock Woolly Adelgid (*Adelges tsugae* (Annand))

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Hemlock Woolly Adelgid. It includes background information, host species, distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/hemlock-woolly-adelgid/fact-sheet/eng/1325616708296/1325618964954	

A Safe Way to Control Jack Pine Budworm

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing effective ways to control Jack Pine Budworm. Includes control methods, and the effect on the environment.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@forests/documents/document/263908.pdf	

Jack Pine Budworm in Ontario

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing information on the Jack Pine Budworm. It includes background information, how it impacts Jack Pine in Ontario and its life cycle.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@forests/documents/document/263907.pdf	

Japanese Beetle (*Popilla Japonica*)

Type of Material:	On-line Resource
Area of Focus:	Ontario, Canada
Language:	Available in English and French
Description:	Resource providing information on Japanese Beetle. It includes background information, host species, distribution, biology, detection and identification.
Producer:	Canadian Food Inspection Agency
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/japanese-beetle/fact-sheet/eng/1328165101975/1328165185309

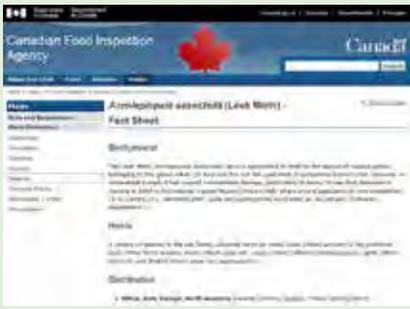


Khapra Beetle (*Trogoderma Granarium*)

Type of Material:	On-line Resource
Area of Focus:	Ontario, Canada
Language:	Available in English and French
Description:	Resource providing information on Khapra Beetle. It includes background information, distribution, spread and life cycle.
Producer:	Canadian Food Inspection Agency
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/khapra-beetle/fact-sheet/eng/1328541793480/1328541924086



Leek Moth (*Acrolepiopsis assectella*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Leek Moth. It includes background information, host species, distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/leek-moth/fact-sheet/eng/1325613450432/1325613809987	

Q&A Regulatory controls to prevent the entry of Light Brown Apple Moth

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing commonly ask questions and answers of regulatory controls to prevent the entry of Light Brown Apple Moth.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/light-brown-apple-moth/questions-and-answers/eng/1326469087595/1326469201322	

Nun Moth (*Lymantria Monacha*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	It includes information on identification, host trees, location of infestation, distribution and signs." So again removing highlighted text and adding comma's to make proper sentence.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/nun-moth/factsheet/eng/1326997694487/1326997828028	

Oriental Fruit Moth (*Grapholita Molesta*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Oriental Fruit Moth. It includes background information, host species, distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/oriental-fruit-moth/fact-sheet/eng/1326379318439/1326379457330	

Pine Shoot Beetle (*Tomicus Piniperda*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Pine Shoot Beetle. It includes information on identification, host trees, location of infestation, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/pine-shoot-beetle/fact-sheet/eng/1328284339837/1328284475680	

Pine Shoot Beetle

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on the threat posed by the Pine Shoot Beetle including identification features, what it does, and life cycle. It also provides information on the history of infested areas, quarantine zones, what is being done, and how the public can help prevent the introduction and spread.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/en/Business/Forests/2ColumnSubPage/STEL02_166995.html	

Red-haired Pine Bark Beetle (*Hylurgus ligniperda*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Red-haired Pine Bark Beetle. It includes information on identification, host trees, location of infestation, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/red-haired-pine-bark-beetle/fact-sheet/eng/1343670504653/1343670612696	

Sirex Woodwasp (*Sirex Noctilio*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on Sirex Woodwasp. It includes information on identification, host trees, location of infestation, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/sirex-wasp/fact-sheet/eng/1327690769701/1327690933257	

Sirex Woodwasp

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on the Sirex Woodwasp. It includes information on the threat it poses to Ontario, host species, the current situation, identification features, life cycle, signs, management and control.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/en/Business/Forests/2ColumnSubPage/STEL02_166996.html Web: www.ontario.ca	

Swede Midge (*Contarinia Nasturtii*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on Swede Midge. It includes background information, host species, distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/swede-midge/fact-sheet/eng/1326212430732/1326212527789	

Tomato Leafminer (*Tuta Absoluta*)

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on Tomato Leafminer. It includes background information, host species, movement and dispersal, biology and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/insects/tomato-leafminer/fact-sheet/eng/1328634442933/1328887251933	



INVERTEBRATES



Photo: Doug Watkinson, DFO, Winnipeg

This section provides information on the education and outreach materials and resources available for particular invasive invertebrate species in Ontario. More information on some of the species listed below can be found in the materials/resources listed in the Aquarium and Recreational – Aquatic pathway sections.

Bloody Red Shrimp

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Bloody Red Shrimp and its threat to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/invertebrates/bloody-red-shrimp/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

New Zealand Mud Snail Watch

Type of Material:	Watch Card
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Wallet sized watch card providing general information on New Zealand Mud Snail, identification features, information on how to prevent spread, and how to report a sighting of this species.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Rusty Crayfish

Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet providing general information on Rusty Crayfish and its threat to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/invaders/invertebrates/rusty-crayfish/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Rusty Crayfish Watch

Type of Material:	Watch Card	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Wallet sized watch card providing general information on Rusty Crayfish, identification features, information on how to prevent spread, and how to report a sighting of this species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Spiny and Fishhook Waterflea

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Spiny and Fishhook Waterfleas and the threat posed to Ontario waters. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/invertebrates/spiny-and-fishhook-waterflea/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Spiny and Fishhook Waterflea Watch

Type of Material:	Watch Card	 The image shows a 'Spiny and Fishhook Waterflea WATCH' card. It features a blue background with illustrations of a spiny waterflea and a fishhook waterflea. Text on the card includes 'Spiny', 'Fishhook', and 'Always stop on downrigger cable'. There are also small circular icons and a logo in the top right corner.
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Wallet sized watch card providing general information on both Spiny and Fishhook Waterfleas, identification features, information on how to prevent spread, and how to report a sighting of these species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	



PATHOGENS – AQUATIC



Photo: David Copplestone, MNR

This section provides information on the education and outreach materials/resources available for specific aquatic invasive pathogens in Ontario. More information on some of the species listed below can be found in the materials/resources listed in the Industry and Recreational – Aquatic pathway sections.

Koi Herpesvirus (KHV)

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Koi Herpesvirus (KHV) and its threat to Ontario's biodiversity. It includes information on what fish are susceptible, where it has been found, signs of disease, and how to prevent disease outbreaks.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.ontario.ca/fishhealth Web: www.ontario.ca/santedespoissons	

Koi Herpesvirus (KHV)

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on Koi Herpesvirus (KHV). It includes information the impacts to fish, where it has been found, and what to do if dead or dying fish are found.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.ontario.ca/fishhealth Web: www.ontario.ca/santedespoissons	

Protect Ontario Waters from Fish Disease: Don't Dump Your Bait!

Type of Material:	Sticker	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Sticker generating awareness on how fish diseases could be transferred to a lake via bait buckets. This sticker encourages the public to help stop the spread of fish disease by always disposing of bait and water on land or in the trash.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/live-bait/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Anglers Can Help Slow the Spread of Fish Disease, Viral Hemorrhagic Septicemia (VHS)

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Viral Hemorrhagic Septicemia (VHS) and its threat to Ontario's biodiversity. It includes information on the disease, fish impacts, where it has been found, images of fish with VHS, how the disease spreads, and how anglers can help limit spread.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.ontario.ca/fishhealth Phone: 1-800-667-1940	

Aquarium Owners and Water Gardeners Can Help Slow the Spread of Fish Disease, Viral Hemorrhagic Septicemia (VHS)

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Viral Hemorrhagic Septicemia (VHS) and its threat to Ontario's biodiversity. It includes information on the disease, fish impacts, where it has been found, images of fish with VHS, how the disease spreads, and how aquarium and water gardeners can help limit spread.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.ontario.ca/fishhealth Phone: 1-800-667-1940	

Fish Farmers Can Help Slow the Spread of Fish Disease, Viral Hemorrhagic Septicemia (VHS)

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Viral Hemorrhagic Septicemia (VHS) and its threat to Ontario's biodiversity. It includes information on the disease, fish impacts, where it has been found, images of fish with VHS, how the disease spreads, and how fish farmers can help limit spread.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.ontario.ca/fishhealth Phone: 1-800-667-1940	

Ontario Government Actions to Slow the Spread of Fish Disease, Viral Hemorrhagic Septicemia (VHS)

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Viral Hemorrhagic Septicemia (VHS) and its threat to Ontario's biodiversity. It includes information on the disease, fish impacts, where it has been found, images of fish with VHS, how the disease spreads, and what actions have been taken to slow spread.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.ontario.ca/fishhealth Phone: 1-800-667-1940	

Property Owners Can Help Slow the Spread of Fish Disease, Viral Hemorrhagic Septicemia (VHS)

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Viral Hemorrhagic Septicemia (VHS) and its threat to Ontario's biodiversity. It includes information on the disease, fish impacts, where it has been found, images of fish with VHS, how the disease spreads, and how property owners can help limit spread.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.ontario.ca/fishhealth Phone: 1-800-667-1940	

Viral Hemorrhagic Septicemia

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on Viral Hemorrhagic Septicemia (VHS). It includes information on where it has been found, Ontario's VHS management zones and what to do if dead or dying fish are found.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/en/Business/LetsFish/2ColumnSubPage/STEL02_166029.html Web: www.ontario.ca	

PATHOGENS – TERRESTRIAL



Photo: Robert L. Anderson, USDA Forest Service, Bugwood.org

This section provides information on the education and outreach materials/resources available for specific terrestrial invasive pathogens in Ontario.

Asian Soybean Rust

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Asian Soybean Rust. It includes background information, pest distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/diseases/fact-sheet/eng/1327501711301/1327501824978	

Butternut Canker

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Butternut Canker and its threat to Ontario forests. It includes information on introduced distribution range, impacts, key characteristics and identification features, how to prevent spread and how to report a sighting. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/pathogens/butternut-canker/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Attention Hunters: New Rules to Protect Ontario from Chronic Wasting Disease

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing information on the new rules in place to protect Ontario's deer, moose, elk and caribou populations from Chronic Wasting Disease.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@fw/documents/abstract/stdprod_068528.pdf	

Chronic Wasting Disease

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on Chronic Wasting Disease (CWD). It includes information on causes and symptoms, CWD and human health, testing in Ontario, test results, suggestions for deer and elk hunters, and check station locations. It also provides information on what to do if you suspect a deer or elk has CWD, Ontario's CWD surveillance and response plan, and the regulation to minimize the risk of CWD entering Ontario.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/en/Business/FW/2ColumnSubPage/STEL02_168742.html	

Oak Wilt

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Oak Wilt. It includes background information, host range, distribution, biology, vectors, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/diseases/oak-wilt/fact-sheet/eng/1325629194844/1325632464641	

Scleroderris Canker

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing information on Scleroderris Canker. It includes background information, host species, distribution, biology, detection and identification.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/diseases/scleroderris-canker/factsheet/eng/1326229068400/1326229220399	

White Nose Syndrome

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on White Nose Syndrome. It includes information on where it is found, its status in Ontario, monitoring initiatives, and reducing spread. It also features a video on White Nose Syndrome in Ontario.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/en/Business/FW/2ColumnSubPage/278166.html	

White Nose Syndrome – Threatening Ontario’s Bats

Type of Material:	Fact Sheet	 <p><i>Natural Values Protected</i></p> <h3>White Nose Syndrome – Threatening Ontario's bats</h3> <p>What is white nose syndrome?</p> <p>White nose syndrome is a condition that has killed more than a million bats in the northeastern United States. It is called "white nose syndrome" because infected bats often have white fungus on their faces.</p> <p>The fungus grows on bats while they hibernate in caves and abandoned mines. It seems to irritate and cause bats to awaken so they use their winter fat stores more quickly. They may leave hibernation sites and fly around outside, often in the daytime, when it's still winter and there are no food sources available.</p> <p>White nose syndrome was first identified in bats in a cave in New York State in 2006. It has since been found in bats in 14 American states. In 2010, it was detected in central and north-eastern Ontario and in Quebec. In 2011, white nose syndrome was confirmed in New Brunswick and Nova Scotia.</p> <p>There are no recorded cases of human health issues associated with white nose syndrome. But the syndrome has the potential to devastate Ontario bat populations as it has done in the north-eastern U.S. So far, there is no cure or treatment for the syndrome.</p> <p>Why are bats important?</p> <p>Bats are a unique and important part of Ontario's biodiversity. They also play a vital role in pest control, eating thousands of insects a night.</p> <p>Eight species of bats are found in the province. Some those affected by white nose syndrome hibernate in caves, while others fly as far as the Gulf of Mexico for our winter.</p> <p>Bats are the only mammal that can fly – at 100 to 30 kilometers an hour.</p> <p>Some Ontario bats can live for 30 years, though most have much shorter lives. They usually have one or two offspring a year.</p> <p><i>Little brown bats hibernate in natural caves and abandoned mines. The cave at center shows signs of white nose syndrome.</i></p> <p><i>This bat, from a cave in the Battlement area, shows signs of white nose syndrome on its muzzle.</i></p>
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on White Nose Syndrome and its impacts on Ontario's biodiversity. It provides information on the fungus, including where it is found and its impacts on humans and bats. It outlines the importance of bats to Ontario's biodiversity, what the Ministry of Natural Resources is doing, and what the public can do to prevent spread of the fungus.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@fw/documents/document/278529.pdf	



PLANTS - AQUATIC



Photo: OFAH*

This section provides information on the education and outreach materials and resources available for particular invasive aquatic plant species in Ontario. More information on some of the species listed below can be found in the materials/resources listed in the Aquarium, Horticulture, and Recreational – Aquatic pathway sections.

Eurasian Water-Milfoil

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Eurasian Water-milfoil and its threat to Ontario waterways. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/plants-aquatic/eurasian-water-milfoil/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Eurasian Water-milfoil Watch

Type of Material:	Watch Card	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Wallet sized watch card providing general information on Eurasian Water-milfoil, identification features, information on how to prevent spread, and how to report a sighting of this species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

European Frog-bit

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on European Frog-bit and its threat to Ontario waterways. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/plants-aquatic/european-frog-bit/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

European Frog-bit Watch

Type of Material:	Watch Card	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Wallet sized watch card providing general information on European Frog-bit, identification features, information on how to prevent spread, and how to report a sighting of this species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Fanwort

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Fanwort and its threat to Ontario waterways. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/plants-aquatic/fanwort/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Invasive Phragmites - Best Management Practices

Type of Material:	Best Management Practices Guide	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Guide to the distribution, biology, habitat and control of Phragmites in Ontario.	
Producer:	Ontario Ministry of Natural Resources, Ontario Invasive Plant Council	
Available at:	Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@biodiversity/documents/document/stdprod_089643.pdf Web: www.ontarioinvasiveplants.ca/files/Phragmites_BMP_July_132.pdf Email: info@ontarioinvasiveplants.ca	

Invasive Common Reed Threatens Lake Huron's Coastal Environments

Type of Material:	Brochure	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Brochure on Phragmites along Lake Huron's beaches and the effects it has on the beach environment. Provides general information including habitat preferences, methods of dispersal, threats to the lakeshore and ways to successfully control Phragmites.	
Producer:	The Lake Huron Centre for Coastal Conservation	
Available at:	Web: www.lakehuron.ca/uploads/pdf/Phragmites_australis_-_LHCCC_2006.pdf Phone: 519-523-4478 Email: coastalcentre@lakehuron.on.ca	

Invasive Common Reed Threatens Lake Huron's Coastal Environments

Type of Material:	Brochure	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Brochure outlining the impacts of invasive Common Reed along the shores of Lake Huron, including background information, methods of controlling Common Reed, and what you can do to help.	
Producer:	The Lake Huron Centre for Coastal Conservation	
Available at:	Phone: 519-523-4478 Email: coastalcentre@lakehuron.on.ca	

Invasive Phragmites

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on invasive Phragmites and its threat to Ontario's biodiversity. It includes information on its impacts, identification characteristics, and what can be done to prevent the introduction and spread. It includes information on who to contact for more information or to report a sighting of invasive Phragmites.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.web2.mnr.gov.on.ca/mnr/Biodiversity/Invasive_Species/Phragmites_Fact_Sheet.pdf Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Purple Loosestrife

Type of Material:	Public Service Announcement	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	This video public service announcement profiles the threat invasive species pose to the environment with an emphasis on the Purple Loosestrife, control efforts, and how to prevent the spread of invasive species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com Web: www.youtube.com/invspecies Phone: 1-800-563-7711 Email: info@invadingspecies.com	

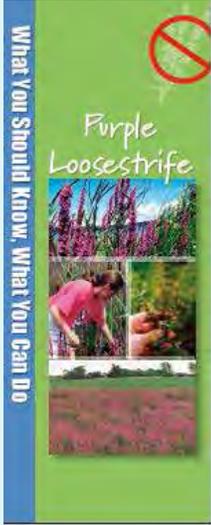
Purple Loosestrife

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on purple loosestrife and its threats to Ontario waterways. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resource, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/plants-terrestrial/purple-loosestrife/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Purple Loosestrife Watch

Type of Material:	Watch Card	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Wallet sized watch card providing general information on Purple Loosestrife, identification features, information on how to prevent spread, and how to report a sighting of this species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Purple Loosestrife: What You Should Know, What You Can Do

Type of Material:	Brochure	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Brochure providing information on Purple Loosestrife, including its origin, how it was introduced to Ontario, impacts, identification features, and native look-a-likes. This brochure also outlines methods of control, including information on the biological control used for Purple Loosestrife.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/water-gardens/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Purple Loosestrife (*Lythrum salicaria*)

Type of Material:	Fact Sheet	 <p>Purple Loosestrife (<i>Lythrum salicaria</i>)</p> <p>Distinct Physical Features:</p> <ul style="list-style-type: none"> • Lance shaped leaves that the stem and grow opposite in pairs or threes of three • 2-gate shaped stem • Purple flowers arranged in a dense spike <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Swamps and wet meadows <p>Species Significance:</p> <ul style="list-style-type: none"> • Invades wetlands and spreads significantly to the exclusion of native species • The introduction of a species of weeds that naturally feeds on Purple Loosestrife in its native range has reduced populations significantly
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information on Purple Loosestrife, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	



European Water Chestnut

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Water Chestnut and its threat to Ontario waterways. It includes information on range, impacts, identification features, how to prevent spread and how to report a sighting to the Invasive Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	<p>Web: www.web2.mnr.gov.on.ca/mnr/Biodiversity/Invasive_Species/Eur_Water_Chestnut_fact_sheet3.pdf</p> <p>Web: www.invadingspecies.com/invaders/plants-aquatic/european-water-chestnut/</p> <p>Web: www.invadingspecies.com/product/fact-sheets/</p> <p>Web: www.ontarioinvasiveplants.ca/files/Eur_Water_Chestnut_fact_sheet3.pdf</p> <p>Web: www.invasivespeciescentre.ca</p> <p>Phone: 1-800-563-7711</p> <p>Email: info@invadingspecies.com</p>	



Water Chestnut Watch

Type of Material:	Watch Card	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Wallet sized watch card providing general information on Water Chestnut, identification features, information on how to prevent spread, and how to report a sighting of this species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

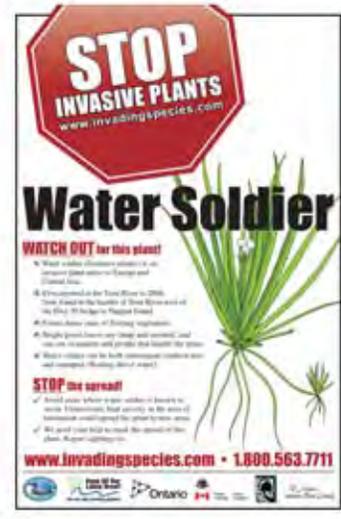
Water Lettuce

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Water Lettuce and its threat to Ontario waterways. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/plants-aquatic/water-lettuce/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Water Soldier

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Water Soldier and its threat to Ontario waterways. It includes information on the impacts of Water Soldier, identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	<p>Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@biodiversity/documents/document/stdprod_091455.pdf</p> <p>Web: www.ontario.ca/invasivespecies</p> <p>Web: www.invasivespeciescentre.ca</p> <p>Phone: 1-800-563-7711</p> <p>Email: info@invadingspecies.com</p>	

Stop Invasive Plants: Water Soldier

Type of Material:	Signage	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Boat launch sign notifying boaters of Water Soldier and to keep out of infested areas to prevent the spread of this invasive plant. Provides contact information for the Invading Species Hotline.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	<p>Phone: 1-800-563-7711</p> <p>Email: info@invadingspecies.com</p>	

Water Soldier Watch

Type of Material:	Watch Card	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Wallet sized watch card providing general information on Water Soldier, identification features, information on how to prevent spread, and how to report a sighting of this species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/watch-cards/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Yellow Iris

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Yellow Iris and its threat to Ontario waterways. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/plants-aquatic/yellow-iris/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

PLANTS - TERRESTRIAL



Photo: Andrea Hicks, OFAH

This section provides information on the education and outreach materials and resources available for particular invasive terrestrial plant species in Ontario. More information on some of the species listed below can be found in the materials/resources listed in the Recreational – Terrestrial pathway section.

African Rue

Type of Material:	Fact Sheet	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on African Rue and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_peganum_1331665641711_eng.pdf	

Bittersweet Nightshade (*Solanum dulcamara*)

Type of Material:	Fact Sheet	 <p>Bittersweet Nightshade (<i>Solanum dulcamara</i>)</p> <p>Distinct Physical Features:</p> <ul style="list-style-type: none"> • Climbing vine that can reach up to 2m in length • Leaves alternate and have lobes - when touched have a milky latex • Small purple flowers that bloom in bunches at the end of the stem <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Fields, forest edges, roadsides, open forests, disturbed areas <p>Species Significance:</p> <ul style="list-style-type: none"> • Escapes in logs and spreads rapidly through seed dispersal • All parts of the plant are toxic if ingested
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@brucetrail.org	

Black Locust (*Robinia pseudoacacia*)

Type of Material:	Fact Sheet	 <p>Black Locust (<i>Robinia pseudoacacia</i>)</p> <p>Distinct Physical Features:</p> <ul style="list-style-type: none"> • Large tree of 10-30m • Compound leaves with 7-24 small leaflets • Tree bark more white to light tan • Clusters of flowers white to yellow (over 40 petals) • Small seed pods (8-15cm) • Grey to brown-colored, shiny, flattened bark <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Open fields, meadows, woodlands, moist woodlands • Inland of lakes <p>Species Significance:</p> <p>Although not typically an aggressive species, Black Locust can become invasive in certain situations. It's native range is in the southeastern United States, but it is now common to the Atlantic in Ontario province of its accidental introduction over 100 years ago. Species can spread to meet its needs to survive and assess the level of competition it provides for other species.</p>
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@brucetrail.org	

Common Buckthorn

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Common Buckthorn and its threat to Ontario's biodiversity. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/plants-terrestrial/common-buckthorn/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	



Invasive Common (European) Buckthorn Best Management Practices in Ontario

Type of Material:	Best Management Practices Guide	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Guide to the distribution, biology, habitat and control of Buckthorn in Ontario.	
Producer:	Ontario Ministry of Natural Resources, Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca/files/OIPC_BMP_Buckthorn_May042012_D6.pdf Web: www.ontario.ca/invasivespecies Web: www.invasivespeciescentre.ca Email: info@ontarioinvasiveplants.ca	



Common Buckthorn: One of Ontario's Most Un-Wanted Invasive Plant Species

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Common Buckthorn and its threat to forest health. It includes information on its range, description, distribution and habitat, ecological impacts, management and control.	
Producer:	Ontario Invasive Plant Council, Ontario Federation of Anglers & Hunters	
Available at:	<p>Web: www.ontarioinvasiveplants.ca/files/unwantedlettersBuckthornFINAL3.pdf</p> <p>Web: www.invadingspecies.com/product/forest-pests/</p> <p>Phone: 1-800-563-7711</p> <p>Email: info@ontarioinvasiveplants.ca info@invadingspecies.com</p>	

Buckthorn Control Methods

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Upper Thames Watershed	
Language:	Available in English	
Description:	Fact sheet providing information on Common and European Buckthorn, including a description, historical information, and methods of control.	
Producer:	Upper Thames River Conservation Authority	
Available at:	<p>Web: www.thamesriver.on.ca/Invasive_species/Images/Buckthorn_factsheet.pdf</p>	

Chinese Yam	
Type of Material:	Fact Sheet
Area of Focus:	Ontario, Canada
Language:	Available in English and French
Description:	Fact sheet providing information on Chinese Yam and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.
Producer:	Canadian Food Inspection Agency
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_dioscorea_1331665687693_eng.pdf



Common Crupina	
Type of Material:	Fact Sheet
Area of Focus:	Ontario, Canada
Language:	Available in English and French
Description:	Fact sheet providing information on Common Crupina and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.
Producer:	Canadian Food Inspection Agency
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_crupina_1331665722745_eng.pdf



Dallis Grass

Type of Material:	Fact Sheet	 <p>The fact sheet for Dallis Grass features a header with the Canadian flag and the text 'Inspection of Food Inspection Agency'. Below this is a row of seven circular images showing different stages or parts of the grass. The main title 'Dallis Grass' is followed by its scientific name 'Paspalum distichum L.'. The content includes several sections with sub-headers and bullet points, accompanied by photographs of the grass in various settings. At the bottom right, the 'Canada' logo is visible.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Dallis Grass and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_paspalum_1331665769610_eng.pdf	

Devil's-tail Tearthumb

Type of Material:	Fact Sheet	 <p>The fact sheet for Devil's-tail Tearthumb features a header with the Canadian flag and the text 'Inspection of Food Inspection Agency'. Below this is a row of seven circular images showing different stages or parts of the plant. The main title 'Devil's-tail Tearthumb' is followed by its scientific name 'Panicum polyanthemum L.'. The content includes several sections with sub-headers and bullet points, accompanied by photographs of the plant in various settings. At the bottom right, the 'Canada' logo is visible.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Devil's-tail Tearthumb and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_panicaria_1331665815397_eng.pdf	

Dog-strangling Vine

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Dog-strangling Vine and its threat to Ontario's biodiversity. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invading Species Hotline. Links to other resources and partners are also provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/invaders/plants-terrestrial/dog-strangling-vine/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Dog-strangling Vine

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing general information on Dog-strangling Vine and its threat to forest health. It includes background information, as well as information on range, description, distribution and habitat, ecological impacts, management and control.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/en/Business/Forests/2ColumnSubPage/260821.html Web: www.ontario.ca	

Dog-strangling Vine

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Dog-strangling Vine and its threat to forest health. It includes background information on Dog-strangling Vine, as well as information on its range, description, distribution and habitat, ecological impacts, management and control.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@forests/documents/document/260834.pdf	



Dog-strangling Vine - An Invasive Species Creeping Into Agricultural Fields

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Description of the reproduction methods of Dog-strangling vine, including statistics on growth trials from the University of Guelph. Also includes detailed information about control options (both chemical and non-chemical). Provides information on where to ask questions about control.	
Producer:	Ontario Ministry of Agriculture and Rural Affairs	
Available at:	Web: www.omafra.gov.on.ca/english/crops/field/news/croptalk/2006/ct_0306a7.htm Phone: 519-824-4120 ext. 52580	

Have You Seen This Plant? Dog-strangling Vine

Type of Material:	On-line Resource	
Area of Focus:	Regional	
Language:	Available in English	
Description:	On-line resource providing background information on Dog-strangling Vine in Ontario including, impacts and control methods. Also provides helpful links to a photo gallery and other resources.	
Producer:	City of Toronto	
Available at:	Web: www.toronto.ca/don/dsv/index.htm	

Dog-strangling Vine: One of Ontario's Most Un-Wanted Invasive Plant Species

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Dog-strangling Vine and its threat to forest health. It includes information on its range, description, distribution and habitat, ecological impacts, management and control.	
Producer:	Ontario Invasive Plant Council, Ontario Federation of Anglers & Hunters	
Available at:	<p>Web: www.ontarioinvasiveplants.ca/files/unwantedlettersDSVFINAL2.pdf Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca info@invadingspecies.com</p>	



Dog-strangling Vine Best Management Practices

Type of Material:	Best Management Practices Guide	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Guide to the distribution, biology, habitat and control of Dog-strangling Vine in Ontario.	
Producer:	Ontario Ministry of Natural Resources, Ontario Invasive Plant Council	
Available at:	<p>Web: www.invadingspecies.com/download/publications/OIPC_BMP_DogStranglingVine_May042012_D7.pdf</p> <p>Web: www.ontarioinvasiveplants.ca/files/OIPC_BMP_DogStranglingVine_May042012_D7.pdf</p> <p>Email: info@ontarioinvasiveplants.ca</p>	

Dog-strangling Vine Trailhead Sign

Type of Material:	Signage	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Signage cautioning the public on the impact of the Dog-strangling Vine and how to prevent spread. This resource includes the Invading Species Hotline telephone number and website.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	<p>Phone: 1-800-563-7711</p> <p>Email: info@invadingspecies.com</p>	

Dog-strangling Vine (*Vincetoxicum rossicum*)

Type of Material:	Fact Sheet	 <p>Dog-strangling Vine (<i>Vincetoxicum rossicum</i>)</p> <p>Photos: John W. Krasinski, The Nature Conservancy, United States</p> <p>Distinct Physical Features:</p> <ul style="list-style-type: none"> • Lance-shaped leaves arranged oppositely along stem • Small pink-purple flowers occur at leaf axils • They turn green to yellowish seed pods in late summer • Other winding up vegetation <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Roadways, waste places, woodlands, forests, trail edges <p>Species Significance:</p> <ul style="list-style-type: none"> • A highly invasive non-native plant. Dog-strangling Vine spreads rapidly, displacing indigenous vegetation
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information, including images, identification features, typical habitat, and impact on environments and is part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

English or One Seeded Hawthorn (*Crataegus monogyna*)

Type of Material:	Fact Sheet	 <p>English or One Seeded Hawthorn (<i>Crataegus monogyna</i>)</p> <p>Photos: Alvin J. L. Wong, Sai Kung Wetland Park, Hong Kong, China</p> <p>Distinct Physical Features:</p> <ul style="list-style-type: none"> • A deciduous tree or shrub of 2 to 18 metres tall with a short trunk, many branches, dense leaves and short, stout thorns • Dark grey-brown bark with smooth, green to reddish-brown twigs • Leaves are deeply lobed, resembling a small stout Viburnum leaf • Flowers are creamy-white and produce clumps of scarlet fruits that stay on the tree overwinter <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Disturbed areas, fresh to moist soils and successional areas <p>Species Significance:</p> <p>English Hawthorn thrives in open areas such as fields, forest openings or thickets and prefers moist to deep disturbed soils. It reproduces readily by seed.</p>
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

European Lily of the Valley (*Convallaria majalis*)

Type of Material:	Fact Sheet	 <p>Distinct Physical Features:</p> <ul style="list-style-type: none"> • Relatively small plant with comparatively large oval leaves • White bell shaped, nodding flowers. <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Woodlands and trivets <p>Species Significance:</p> <ul style="list-style-type: none"> • Common garden plant that has escaped into natural areas
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@brucetrail.org	

European White Poplar (*Populus alba*)

Type of Material:	Fact Sheet	 <p>Distinct Physical Features:</p> <ul style="list-style-type: none"> • Large leaf of 12-20cm • Above they are velvety with a shiny green top and a silvery white hairy underside • Young bark is greenish and scales back to white to grey with vertical furrows and dark lenticels <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Open fields, meadows, fenlands, riparian woodlands • Wetlands of marsh <p>Species Significance:</p> <p>Although it is typically an opportunistic species, European White Poplar can become invasive in certain situations. Optimal care should be made to monitor its spread and control the seed of European Poplar, for future control.</p>
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@brucetrail.org	

False Spirea

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing information on False Spirea including, its history and location in Ontario, plant identification, impacts and spread, mechanical and chemical control options and how you can help and how to report a sighting to the Invading Species Hotline or Ontario Invasive Plant Council.	
Producer:	Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca/files/False_Spirea_draft2.pdf Email: info@ontarioinvasiveplants.ca	

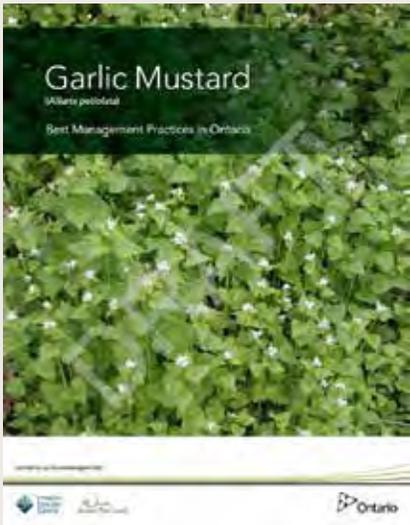
Field Bindweed (*Convolvulus arvensis*)

Type of Material:	Fact Sheet	
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

Garlic Mustard	
Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet providing general information on garlic mustard and its threat to Ontario's biodiversity. It includes information on introduced distribution range, significant impacts, key characteristics and identification features, how to prevent spread and how to report a sighting to the Invasive Species Hotline. Links to other resources and partners are also provided.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invasingspecies.com/invaders/plants-terrestrial/garlic-mustard/ Phone: 1-800-563-7711 Email: info@invasingspecies.com



Garlic Mustard Best Management Practices	
Type of Material:	Best Management Practices Guide
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Guide to the distribution, biology, habitat and control of Garlic Mustard in Ontario.
Producer:	Ontario Invasive Plant Council, Ontario Ministry of Natural Resources
Available at:	Web: www.ontarioinvasiveplants.ca/index.php/managecontrol Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca



Garlic Mustard: One of Ontario's Most Un-Wanted Invasive Plant Species

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Garlic Mustard and its threat to forest health. It includes information on its range, description, distribution and habitat, ecological impacts, management and control.	
Producer:	Ontario Invasive Plant Council, Ontario Federation of Anglers & Hunters	
Available at:	<p>Web: www.ontarioinvasiveplants.ca/files/unwantedlettersGarlicMustardFINAL.pdf</p> <p>Web: www.invadingspecies.com/product/forest-pests/</p> <p>Phone: 1-800-563-7711</p> <p>Email: info@ontarioinvasiveplants.ca info@invadingspecies.com</p>	

Garlic Mustard (*Alliaria petiolata*)

Type of Material:	Fact Sheet	
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

Beware!!! Plants to Avoid in the Field: Giant Hogweed & Wild Parsnip

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Nottawasaga Valley	
Language:	Available in English	
Description:	Fact sheet providing information on potentially hazardous plants to avoid while working in the field. It outlines identification features of Giant Hogweed and Wild Parsnip, the personal protective equipment that should be worn when handling these species, and information on what to do if an individual thinks they may have come into contact with either of these plants.	
Producer:	Nottawasaga Valley Conservation Authority	
Available at:	Web: www.nvca.on.ca/ws_par/groups/public/@pub/@nvca/documents/web_content/wspar_018525.pdf Phone: 705-424-1479 Email: admin@nvca.on.ca	



Giant Hogweed

Type of Material:	Fact sheet
Area of Focus:	Regional
Language:	Available in English and French
Description:	Fact sheet providing general information on Giant Hogweed and its threats to human health and to Ontario's biodiversity. It includes information on what the plant looks like, where it is found, why it is dangerous and what to do if you are exposed to the sap of the plant. Also offers detailed instructions on how to remove the plant from your property.
Producer:	City of Greater Sudbury, Environmental Planning Initiatives
Available at:	Web: www.mgsudbury.mgoi.ca/media/Hogweed_Info_Sheet.pdf Phone: 705-674-4455, ext. 4397 Email: info@ontarioinvasiveplants.ca



Giant Hogweed (*Heracleum mantegazzianum*)

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Nottawasaga Valley	
Language:	Available in English and French	
Description:	Fact sheet outlining the origin, characteristics, distribution, and impacts of Giant Hogweed. It provides information on why people should be cautious around this plant, safety tips for working around Giant Hogweed, and information on what to do if contact is made with Giant Hogweed. This fact sheet also provides information on options for reporting new sightings and controlling Giant Hogweed.	
Producer:	Nottawasaga Valley Conservation Authority	
Available at:	Web: www.nvca.on.ca/ws_par/groups/public/@pub/@nvca/documents/web_content/wspar_032557.pdf Phone: 705-424-1479 Email: admin@nvca.on.ca	

Giant Hogweed Fact Sheet

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Greater Toronto Area	
Language:	Available in English	
Description:	This fact sheet addresses the potential public health issues that may result from contact with Giant Hogweed.	
Producer:	City of Toronto Urban Forestry	
Available at:	Web: www.toronto.ca/health/pdf/gianthogweed.pdf	

Giant Hogweed

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing general information on Giant Hogweed and its threat to Ontario's biodiversity. It includes information on similar species, distribution, biology, impacts, health concerns, how to prevent spread and how to report a sighting to the Invasive Species Hotline. It also includes information on removal and management. Links to other resources and partners are provided.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	<p>Web: www.web2.mnr.gov.on.ca/mnr/Biodiversity/Invasive_Species/Giant_Hogweed_Fact_Sheet.pdf</p> <p>Web: www.invadingspecies.com/invaders/plants-terrestrial/giant-hogweed/</p> <p>Web: www.invasivespeciescentre.ca</p> <p>Phone: 1-800-563-7711</p> <p>Email: info@invadingspecies.com</p>	



Giant Hogweed Best Management Practices

Type of Material:	Best Management Practices Guide	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Guide to the distribution, biology, habitat and control of Giant Hogweed in Ontario.	
Producer:	Ontario Ministry of Natural Resources, Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca/files/OIPC_BMP_Hogweed_May182012_D4.pdf Web: www.ontario.ca/invasivespecies Email: info@ontarioinvasiveplants.ca	



Giant Hogweed: One of Ontario's Most Un-Wanted Invasive Plant Species

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing general information on Giant Hogweed and its threat to forest health. It includes information on its range, description, distribution and habitat, ecological impacts, management and control.	
Producer:	Ontario Invasive Plant Council, Ontario Federation of Anglers & Hunters	
Available at:	<p>Web: www.ontarioinvasiveplants.ca/files/unwantedlettersGiantHogweedFINALPRESS.pdf</p> <p>Web: www.invadingspecies.com/product/forest-pests/</p> <p>Phone: 1-800-563-7711</p> <p>Email: info@ontarioinvasiveplants.ca info@invadingspecies.com</p>	



Giant Hogweed (*Heracleum mantegazzianum*)

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Upper Thames Watershed	
Language:	Available in English	
Description:	Fact sheet outlining general information, including identification characteristics for Giant Hogweed and its look-a-likes. It provides information on the health hazards associated with this plant, information on what to do if contact is made with Giant Hogweed, how to report a sighting, and control.	
Producer:	Upper Thames River Conservation Authority	
Available at:	Web: www.thamesriver.on.ca/Invasive_species/Images/UTRCA_hogweed_factsheet.pdf Phone: 519-451-2800 Email: infoline@thamesriver.on.ca	

Giant Hogweed

Type of Material:	Fact Sheet	
Area of Focus:	Regional	
Language:	Available in English	
Description:	Fact sheet providing information on Giant Hogweed, including concerns, distribution, propagation, control and look-a-likes.	
Producer:	Conservation Halton	
Available at:	Web: www.conservationhalton.on.ca/uploads/downloads/Fact%20Sheet%20Giant%20HogweedAug09.pdf	

Giant Hogweed	
Type of Material:	Fact Sheet
Area of Focus:	Regional
Language:	Available in English
Description:	Fact sheet providing information on Giant Hogweed, including where it is found, potential human health impacts, look-a-likes, removal information, and where to get more information.
Producer:	Halton Region
Available at:	Web: www.halton.ca/common/pages/UserFile.aspx?fileId=47139 Phone: (905) 825-6000



Giant Hogweed	
Type of Material:	On-line Resource
Area of Focus:	Regional: City of Hamilton
Language:	Available in English
Description:	Resource providing information on Giant Hogweed including how to identify this plant, potential health hazards, what to do if contact is made with this plant, how to remove this plant from property, and safety considerations.
Producer:	City of Hamilton Public Works Department
Available at:	Web: www.hamilton.ca/CityDepartments/PublicWorks/Parks/Giant+Hogweed.htm Phone: 905-546-CITY (2489)



Giant Hogweed

Type of Material:	On-line Resource	
Area of Focus:	Regional: York Region	
Language:	Available in English	
Description:	Resource providing information on Giant Hogweed and links to resources for more information.	
Producer:	York Region	
Available at:	Web: www.york.ca/Services/Public+Health+and+Safety/giant_hogweed.htm	

Information on Giant Hogweed in Halton Region

Type of Material:	On-line Resource	
Area of Focus:	Regional: Halton Region	
Language:	Available in English	
Description:	Resource providing information on Giant Hogweed and links to additional resources and agencies working on invasive species.	
Producer:	Conservation Halton	
Available at:	Web: www.conservationhalton.on.ca/ShowCategory.cfm?subCatID=1466	

Greater Celandine (*Chelidonium majus*)

Type of Material:	Fact Sheet	
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

Iberian Starthistle

Type of Material:	Fact Sheet	 <p>The fact sheet for Iberian Starthistle includes a title, a list of images, and several sections of text. The sections include: 'What is Starthistle?', 'Where is Starthistle found?', 'How does Starthistle spread?', 'What are the impacts of Starthistle?', 'How to identify Starthistle?', and 'How to manage Starthistle?'. It also features a small illustration of the plant's life cycle and a logo for the Canadian Food Inspection Agency.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Iberian Starthistle and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_centaurea_iberica_1331667040792_eng.pdf	

Japanese Barberry (*Berberis thunbergii*)

Type of Material:	Fact Sheet	 <p>The fact sheet for Japanese Barberry includes a title, two photographs of the plant, and several sections of text. The sections include: 'Physical Features', 'Typical Habitat', and 'Species Significance'. It also features a small illustration of the plant's life cycle and a logo for The Bruce Trail Conservancy.</p>
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information on Japanese Barberry, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

Japanese Stiltgrass

Type of Material:	Fact Sheet	 <p>The image shows a fact sheet for Japanese Stiltgrass. It features a header with the Canadian Food Inspection Agency logo and the title 'Japanese Stiltgrass' in both English and French. Below the title, there are several circular images showing the plant in different stages and environments. The text is organized into columns with sub-headers like 'What is Japanese Stiltgrass?', 'Where is it found?', and 'How does it spread?'. There are also bullet points and a small map of Canada at the bottom right.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Japanese Stiltgrass and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_microstegium_1331666329533_eng.pdf	

Jointed Goatgrass

Type of Material:	Fact Sheet	 <p>The image shows a fact sheet for Jointed Goatgrass. It features a header with the Canadian Food Inspection Agency logo and the title 'Jointed Goatgrass' in both English and French. Below the title, there are several circular images showing the plant in different stages and environments. The text is organized into columns with sub-headers like 'What is Jointed Goatgrass?', 'Where is it found?', and 'How does it spread?'. There are also bullet points and a small map of Canada at the bottom right.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Jointed Goatgrass and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_aegilops_1331665997010_eng.pdf	

Kudzu		
Type of Material:	Fact Sheet	
Area of Focus:	Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Kudzu and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_pueraria_1331666030668_eng.pdf	

Kudzu Vine: One of Ontario's Most Un-Wanted Invasive Plant Species		
Type of Material:	Fact Sheet	
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing general information on Kudzu Vine and its threat to forest health. It includes information on its range, description, distribution and habitat, ecological impacts, management and control.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.ontarioinvasiveplants.ca/files/unwantedlettersKudzuLOWRES1.pdf Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca info@invadingspecies.com	

Madagascar and South African Ragwort

Type of Material:	Fact Sheet	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Madagascar and South African Ragwort and the threat posed to Canada's agriculture. It includes information on where these plants are found, what they look like, how they spread and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_senecio_1331666119779_eng.pdf	

Manitoba Maple (*Acer negundo*)

Type of Material:	Fact Sheet	
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information on Manitoba Maple, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

Norway Maple (*Acer platanoides*)

Type of Material:	Fact Sheet	 <p>Norway Maple (<i>Acer platanoides</i>)</p> <p>Direct Physical Features:</p> <ul style="list-style-type: none"> • 3-7 lobed, dark green to purple leaf arranged oppositely - often has black fungus spots on leaves • Fluffy reddish buds (as opposed to the pointy buds of a Sugar Maple) • Many white sap flows from leaf stem areas cut (Sugar Maple will produce clear sap) • Seeds - finely tipped, dark grey-bark <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Disturbed areas, dry to fresh, rich and succession areas <p>Species Significance:</p> <p>Norway Maple readily reproduces and creates a dense leaf system near the soil surface, which can shade plants. This leads to suboptimal conditions for native vegetation, often resulting in monocultures of Norway Maples.</p>
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information on Norway Maple, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

Paterson's Curse

Type of Material:	Fact Sheet	 <p>Paterson's Curse <i>Hybrid <i>Platystemon</i></i></p> <p>Paterson's curse is a highly toxic plant that is native to the Mediterranean region. It is a perennial herb with a thick, woody taproot. The plant has a distinctive purple color and is highly invasive, spreading rapidly in agricultural areas. It is a significant threat to Canada's agriculture, particularly in the Great Lakes region.</p> <p>Key Features:</p> <ul style="list-style-type: none"> • Purple flowers • Thick, woody taproot • Highly toxic to livestock and humans • Spreads rapidly in agricultural areas <p>Control Measures:</p> <ul style="list-style-type: none"> • Manual removal • Chemical control • Biological control
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Paterson's Curse and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_echium_1331666079059_eng.pdf	

Periwinkle (*Vinca major*)

Type of Material:	Fact Sheet	 <p>The Periwinkle Fact Sheet includes two photographs: one showing the plant's creeping growth habit and another showing a close-up of a purple flower. The text describes its physical features, typical habitat in moist, shady environments, and its status as a non-native, invasive species that is difficult to control. It is noted as being readily available at many local nurseries and is often the first suggested fix for any problem gardeners face due to its ease of growth.</p>
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information on Periwinkle, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

Serrated Tussock

Type of Material:	Fact Sheet	 <p>The Serrated Tussock Fact Sheet features several circular images showing different stages and parts of the plant, including its seed heads and root system. The text provides detailed information on its identification, distribution in Ontario, and the damage it causes to agriculture. It also offers practical advice on how to prevent its spread and lists resources for further information.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Serrated Tussock and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_nassella_1331666401330_eng.pdf	

Sessile Joyweed

Type of Material:	Fact Sheet	 <p>The image shows the cover of a fact sheet for Sessile Joyweed. It features a header with the Canadian flag and the text 'Canadian Food Inspection Agency' and 'Agence canadienne d'inspection des aliments'. Below this is a row of circular images showing different stages or parts of the plant. The title 'Sessile Joyweed' is prominently displayed, followed by its scientific name 'Alternanthera versicolor (L.) DC.'. The cover includes several sections of text in both English and French, along with small photographs of the plant in various settings. The Canadian Food Inspection Agency logo is visible in the bottom right corner.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Sessile Joyweed and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_alternanthera_1331666445221_eng.pdf	

Silverleaf Nightshade

Type of Material:	Fact Sheet	 <p>The image shows the cover of a fact sheet for Silverleaf Nightshade. It features a header with the Canadian flag and the text 'Canadian Food Inspection Agency' and 'Agence canadienne d'inspection des aliments'. Below this is a row of circular images showing different stages or parts of the plant. The title 'Silverleaf Nightshade' is prominently displayed, followed by its scientific name 'Solanum elaeagnifolium DC.'. The cover includes several sections of text in both English and French, along with small photographs of the plant in various settings. The Canadian Food Inspection Agency logo is visible in the bottom right corner.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Silverleaf Nightshade and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_solanum_1331666481486_eng.pdf	

Slender Foxtail

Type of Material:	Fact Sheet	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Slender Foxtail and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_alopecurus_1331666519549_eng.pdf	

Syrian Bean-caper

Type of Material:	Fact Sheet	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Syrian Bean-caper and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_zygophyllum_1331666563799_eng.pdf	

Tartarian Honeysuckle (*Lonicera atartarica*)

Type of Material:	Fact Sheet	 <p>Typical Physical Features:</p> <ul style="list-style-type: none"> • Large shrub up to 3m in height • Mature bark is greyish brown and becomes flaky • Leaves alternate oppositely and are coming to oval with a filed tip - sometimes slightly heart-shaped at base • Pink or white flowers in bell-like tubular and red, yellow or orange berries <p>Typical Habitat:</p> <ul style="list-style-type: none"> • Open to 60s, thickets and roadsides <p>Species Significance:</p> <ul style="list-style-type: none"> • Common ornamental shrub that has escaped into natural areas and spreads rapidly, through seed dispersal, mostly from birds
Area of Focus:	Regional: The Niagara Escarpment	
Language:	Available in English	
Description:	Fact sheet providing information on Tartarian Honeysuckle, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.	
Producer:	The Bruce Trail Conservancy	
Available at:	Email: info@bruce-trail.org	

Wild Chervil

Type of Material:	Fact Sheet	 <p>History and Location</p> <p>Wild chervil (<i>Anthriscus sylvestris</i>), native to Europe, is thought to have been introduced to North America through seed dispersal. Wild chervil is a popular plant found in pastures of European and other farms and has made its way to North America. It is now commonly found along roadsides and highways in the north-eastern United States and can be found in various locations in South and Central America.</p> <p>Plant Identification</p> <p>Wild Chervil is from the cutting ferns and flowering stems (leaf) of their families. The wild chervil is an average height of 3-4 feet, but its maximum has been seen to grow over 6 feet. The stems are hollow, and leaf stalks are tubular to near the base. Each stem has a fringe of hair. The leaves are alternate and have three to five leaflets. They are deeply lobed with acute to obtuse tips. The leaves are produced on the edge of the stem at every node with a leaf. The leaves are green, and from a long time to a long time they are green. They are approximately 10-15 cm long.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English	
Description:	Fact sheet providing information on Wild Chervil including, its history and location in Ontario, plant identification, impacts and spread, how you can help and how to report a sighting to the Invading Species Hotline or Ontario Invasive Plant Council.	
Producer:	Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca/files/Wild_chervil.pdf Email: info@ontarioinvasiveplants.ca	

Woolly Cup Grass

Type of Material:	On-line Resource
Area of Focus:	Ontario, Canada
Language:	Available in English and French
Description:	Resource providing information on Woolly Cup Grass and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.
Producer:	Canadian Food Inspection Agency
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/invasive-plants/fact-sheets/eriochloa-villosa-thunb-kunth-woolly-cup-grass/eng/1331822413731/1331822996178



Yellow Archangel (*Lamium galeobdolon*)

Type of Material:	Fact Sheet
Area of Focus:	Regional: The Niagara Escarpment
Language:	Available in English
Description:	Fact sheet providing information on Yellow Archangel, including images, identification features, typical habitat, and impact on environments. This fact sheet is included as part of an Invasive Species Management Plan.
Producer:	The Bruce Trail Conservancy
Available at:	Email: info@bruce-trail.org



Yellow Bluestem

Type of Material:	Fact Sheet	 <p>The fact sheet cover for Yellow Bluestem features a header with the Canadian Food Inspection Agency logo and the title 'Yellow Bluestem' in both English and French. Below the title are several circular images showing the plant in various stages and environments. The main body of the cover contains text in two columns, with a large image of the plant's seed head on the right side. The bottom right corner features the Canada logo.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Yellow Bluestem and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_bothriochloa_133166629939_eng.pdf	

Yellow Starthistle

Type of Material:	Fact Sheet	 <p>The fact sheet cover for Yellow Starthistle features a header with the Canadian Food Inspection Agency logo and the title 'Yellow Starthistle' in both English and French. Below the title are several circular images showing the plant in various stages and environments. The main body of the cover contains text in two columns, with a large image of the plant's seed head on the right side. The bottom right corner features the Canada logo.</p>
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on Yellow Starthistle and its threat to Canada's agriculture. It includes information on where it's found, what it looks like, how it spreads and what you can do to prevent spread. Links to other resources and partners are provided.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/invasive_plants_factsheet_centaurea_solstitialis_1331666982090_eng.pdf	

PATHWAYS OF INTRODUCTION AND SPREAD

This section provides information on the education and outreach materials and resources available for particular invasive terrestrial plant species in Ontario. More information on some of the species listed below can be found in the materials/resources listed in the Recreational – Terrestrial pathway section.

AQUARIUM/WATER GARDEN PLANTS & ANIMALS

Aquariums and Water Gardens

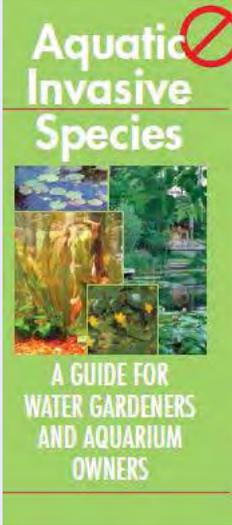
Type of Material:	Public Service Announcement	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	This video public service announcement profiles the threat invasive species pose to the environment, the aquarium and water garden pathway, and how to prevent spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.youtube.com/invspecies Phone: 1-800-563-7711 Email: info@invadingspecies.com	



Aquarium Hobbyists: You Can Help the Environment

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet outlining how aquarium hobbyists can help the environment by preventing the introduction and spread of invasive species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Aquatic Invasive Species: A Guide for Water Gardeners and Aquarium Owners

Type of Material:	Brochure	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Brochure outlining why water gardeners and aquarium owners should be aware of invasive plants and animals. It provides species specific information and images for 14 invasive species, and how water gardeners and aquarium owners can help prevent spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/water-gardens/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Garden and Aquarium Smart: Stopping Aquatic Invaders

Type of Material:	Public Service Announcement	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Ontario Streams in partnership with the Invading Species Awareness Program developed this training and awareness video geared towards educating retail staff on the issue of invading aquatic species and their link to the Aquarium and Water Garden trades as pathways of introduction. Education is key in preventing the introduction and spread of invasive species. Stop the Spread by Spreading the Word!	
Producer:	Ontario Streams	
Available at:	Web: http://www.youtube.com/watch?v=nxGrdAq_72w http://www.youtube.com/ontariostreams	

Never Release Aquarium Plants, Water or Animals

Type of Material:	Poster	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Poster informing the public that releasing aquarium plants, water, or animals into a waterbody is harmful to the environment. This poster includes contact information for more information on potentially invasive species, fish and reptile rescue programs, and the sale and importation of exotic species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/water-gardens/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Never Release Aquarium Plants, Water or Animals

Type of Material:	Sticker	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Sticker informing the public that releasing aquarium plants, water, or animals into a waterbody is harmful to the environment.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/water-gardens/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Never Release Aquarium Plants, Water or Animals

Type of Material:	Pop-up Display	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	A banner display targeting the aquarium pathway and how the public can prevent the introduction of invasive species by not releasing aquarium plants, animals, or water.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/water-gardens/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

HORTICULTURE

A Guide to Gardening Wisely

Type of Material:	Brochure	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English	
Description:	Brochure providing information on how invasive species can threaten both gardens and natural environments, and native plant alternatives for use in gardens.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2012/05/12-045-garden-wisely-invasives-broch-web.pdf	

Alternative Plants for Invasive Species

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English	
Description:	Fact sheet providing information on a selection of alternative plants that can be used in place of invasive species, as well as information on invasive species commonly used in gardens or landscaping.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/09/11-185-invasivesalternatives-2011-list.pdf	

Beautiful But Be Aware!	
Type of Material:	Poster
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Poster that includes the names and images of common invaders known to invade through the water garden pathway, and what can be done to prevent the introduction and spread. This resource includes the Invading Species Hotline telephone number and website.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/water-gardens/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



Beautiful But Be Aware!	
Type of Material:	Display
Area of Focus:	Ontario
Language:	Available in English
Description:	An 8'X'10' display profiling key invasive species that can spread through water gardens, including european frog-bit, common reed, goldfish, water soldier, fanwort, purple loosestrife, banded mystery snail and yellow iris.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com



Beautiful But Be Aware!

Type of Material:	Pop-up Display
Area of Focus:	Ontario
Language:	Available in English and French.
Description:	Pop-up display showing some garden species that can become invasive and harm Ontario's biodiversity if they escape. Species include, yellow iris, european frog-bit, purple loosestrife, parrotfeather, phragmites, goldfish, flowering rush and yellow floating heart. Provides contact information for the Invading Species Hotline.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com



Garden Smart In Ontario: Gardening & Invasive Plants...What You Should Know!

Type of Material:	Brochure	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Brochure outlining the benefits of gardens and how it is important to be aware of what is growing in your garden. This brochure provides information on invasive plants and what can be done in your garden to manage invasive plants. It also provides a list (including images) of potentially invasive horticultural plants.	
Producer:	Ontario Invasive Plant Council	
Available at:	(English) Web: www.ontarioinvasiveplants.ca/files/HOCbrochurePRESS_2.pdf (French) Web: www.ontarioinvasiveplants.ca/files/French_Garden_Smart_in_Ontario.pdf Web: www.invadingspecies.com/product/water-gardens/ Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca info@invadingspecies.com	



Grow Me Instead: A Guide for Southern Ontario

Type of Material:	Guide	
Area of Focus:	Southern Ontario	
Language:	Available in English and French.	
Description:	A guide for southern Ontario to assist the public in identifying potentially invasive horticulture species and selecting native and/or non-invasive alternatives for gardens.	
Producer:	Ontario Invasive Plant Council	
Available at:	<p>(English) Web: www.ontarioinvasiveplants.ca/files/GMI2012web.pdf (French) Web: www.ontarioinvasiveplants.ca/files/GMI_FRENCHREvisedsmall_2.pdf Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca info@invadingspecies.com</p>	



Grow Me Instead: A Guide for Northern Ontario

Type of Material:	Guide	
Area of Focus:	Northern Ontario	
Language:	Available in English and French.	
Description:	A guide for northern Ontario (plant hardiness zones 1b, 2a, 2b, 3a, 3b, 4a) to assist the public in identifying potentially invasive horticultural species and selecting native and/or non-invasive alternatives for gardens.	
Producer:	Ontario Invasive Plant Council (Horticulture Outreach Collaborative)	
Available at:	Web: www.ontarioinvasiveplants.ca/files/GMI_2012_web_North.pdf Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca info@invadingspecies.com	

Grow Me Instead Public Service Announcement (PSA)

Type of Material:	Radio public service announcement (PSA)	
Area of Focus:	Ontario	
Language:	Available in English and French.	
Description:	A 30 second public service announcement advertising the Grow Me Instead Guide.	
Producer:	Ontario Invasive Plant Council	
Available at:	Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca info@invadingspecies.com	

Grow Me Instead Presentation

Type of Material:	Canned Presentation	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Canned presentation highlighting invasive horticultural species and their alternatives.	
Producer:	Ontario Invasive Plant Council, Ontario Master Gardeners	
Available at:	Web: www.ontarioinvasiveplants.ca Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca info@invadingspecies.com	

Grow Me Instead Alternatives Poster

Type of Material:	Poster	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Available to nurseries participating in the Nursery Recognition Program. These posters promote the purchase of alternative species and are available to the public.	
Producer:	Ontario Invasive Plant Council (Horticulture Outreach Collaborative)	
Available at:	Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca	

Grow Me Instead Header Cards

Type of Material:	Signage	 <p>This is a beautiful non-invasive plant for your garden. It will not invade nearby natural areas.</p> <p>Pick up a Grow Me Instead guide for more information.</p> <p>Ontario Invasive Plant Council, Grow Me Instead, Ontario</p>
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Available to nurseries participating in the Nursery Recognition Program. These header cards promote the purchase of alternative species and are available to the public.	
Producer:	Ontario Invasive Plant Council (Horticulture Outreach Collaborative)	
Available at:	Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca	

Invading Species can Escape from Your Garden and Threaten our Environment

Type of Material:	Magnet	 <p>INVADING SPECIES CAN ESCAPE FROM YOUR GARDEN AND THREATEN OUR ENVIRONMENT</p> <p>DO YOUR PART</p> <ul style="list-style-type: none"> Don't release aquatic plants or animals into the environment. Remove plants before they escape to your natural areas. Check your garden every two weeks for weeds and other plants that are not yours. Remove weeds and other plants before they escape to your natural areas. Report any sightings of invasive species to the nearest natural area. <p>INVADING SPECIES HOTLINE 1-800-563-7711 www.invadingspecies.com</p>
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Magnet that includes the names and images of common invaders known to invade through the water garden pathway.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/water-gardens/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Natural Invaders

Type of Material:	Guide	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A guide providing information for gardeners on how invasive species were introduced, control methods, species to avoid planting in your garden, alternative species to plant and what you can do to prevent spread.	
Producer:	Ontario Nature – Federation of Ontario Naturalists	
Available at:	Web: www.ontarionature.org/discover/resources/PDFs/id_guides/natural_invaders.pdf Email: info@ontarionature.org	

The Most UNWANTED Invasive Garden Plants

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English and French	
Description:	Fact sheet providing information and images for 16 garden plants that can become wild and aggressive invaders and how these species are most dangerous when planted next to natural areas.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/02/InvasivesPoster_2009_sm.pdf	

What's Growing in Your Garden?

Type of Material:	Display	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Pop-up display profiling potentially invasive garden plants with "garden smart" messaging to prevent spread.	
Producer:	Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca Email: info@ontarioinvasiveplants.ca	



INDUSTRY

Aquatic Invasive Species (AIS) Training Workshop for Professionals

Type of Material:	Workshop Presentation	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	This workshop presentation provides resource professionals with an overview of aquatic invasive species pathways and management, identification and reporting, cleaning and disinfecting techniques.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/get-involved/aquatic-invasive-species-workshops/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

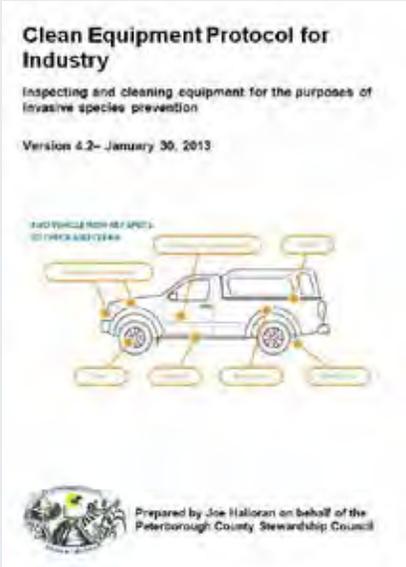
Aquatic Invasive Species Workshop Manual

Type of Material:	Workshop Manual	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	This workshop provides resource professionals with an introduction to identifying aquatic invasive species (AIS), collecting specimens to confirm identification and reporting AIS detected in Ontario waters. The workshop is based on a four-hour session, which includes lectures, demonstrations, lab activities and discussions.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Best Management Practices to Prevent the Spread of Invasive Species during Construction

Type of Material:	Best Management Practice Guide	
Area of Focus:	Regional: Durham	
Language:	Available in English	
Description:	Guide outlining the best management practices for preventing the spread of invasive species during construction. It includes information on steps that can be used pre-construction, during construction, and post-construction.	
Producer:	Central Lake Ontario Conservation Authority	
Available at:	Web: www.cloca.com Phone: (905) 579-0411 Email: mail@cloca.com	

Clean Equipment Protocol for Industry

Type of Material:	Document	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Guide outlining the best practices to prevent the spread of invasive species by inspecting and cleaning equipment following field work. Provides information on when and how to inspect and clean, cleaning diagrams and checklists. Links to other contacts and resources are provided.	
Producer:	Clean Equipment Working Group	
Available at:	Web: www.ontarioinvasiveplants.ca Email: info@ontarioinvasiveplants.ca	

Clean Equipment Protocol for Industry Canned Presentation

Type of Material:	Canned Presentation	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Presentation summarizing the clean equipment protocol including information on when and how to inspect and clean, cleaning diagrams and checklists.	
Producer:	Clean Equipment Working Group	
Available at:	Email: info@ontarioinvasiveplants.ca	

Field Guide to Aquatic Invasive Species

Type of Material:	Field Guide	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Field guide used to help in identifying aquatic invasive species (AIS) including algae, plants, invertebrates and fish. It provides species and habitat descriptions, distribution ranges, pathways of introduction, spread and impacts, as well as information on collecting and reporting specimens.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Invasive Species Guidebook for Hardwood Stands

Type of Material:	Guide	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A guidebook that addresses the threat of invasive species to hardwood forests to be used as a go-to resource by maple syrup producers, woodlot owners and individuals interested in forest ecosystems. It will focus on management strategies for key invasive species that have the potential to impact maple syrup production and other hardwood productivity.	
Producer:	Invasive Species Research Institute	
Available at:	Web: www.isri.ca/current-projects/ Email: invasivespecies@algomau.ca Phone: (705) 949-2301	



LIVE FOOD FISH

Food Fish: Exotic Fish

Type of Material:	Public Service Announcement	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	This video public service announcement profiles the threat invasive species pose to the environment, the food fish/exotic fish pathway, and how to prevent spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.youtube.com/invspecies Phone: 1-800-563-7711 Email: info@invadingspecies.com	



RECREATIONAL - AQUATIC

Don't Give Invaders a Free Ride (Aquatic)

Type of Material:	Display	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A 6'X4' and 8'X10' display profiling key aquatic invasive species. It outlines what boaters and anglers can do to prevent spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invasivespecies.com	

I'm Committed to Protecting Lake Simcoe

Type of Material:	Promotional Item	
Area of Focus:	Regional: Lake Simcoe	
Language:	Available in English	
Description:	Floating key chain used as incentive and promotional item for boaters who participate in boat wash stations. The key chain also has a business card attached with the "Inspect, Clean, Drain" message, and lists the Invading Species Hotline and website.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invasivespecies.com	

Inspect. Clean. Drain.

Type of Material:	Billboard	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Billboard targeting recreational boaters with the "Inspect, Clean, Drain" message.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Recreational Boaters

Type of Material:	Public Service Announcement	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	This video public service announcement profiles the threat invasive species pose to the environment, the recreational boating pathway, and how to prevent spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.youtube.com/invspecies Phone: 1-800-563-7711 Email: info@invadingspecies.com	

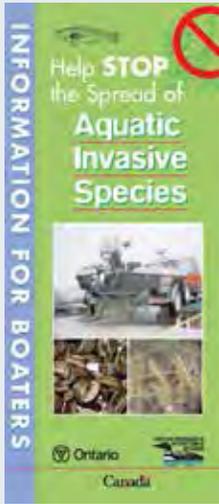
Stop Invasive Species: Inspect, Clean, Drain

Type of Material:	Signage	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Signage outlining the steps boaters can take (Inspect, Clean, Drain) to prevent introduction and spread of aquatic invasive species. This resource includes the Invading Species Hotline telephone number and website.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/recreational-boating/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Stop the Spread of Aquatic Invasive Species: Boater's Checklist

Type of Material:	Sticker	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Sticker outlining the steps boaters can take to prevent introduction and spread of aquatic invasive species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/recreational-boating/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Help Stop the Spread of Aquatic Invasive Species: Information for Boaters

Type of Material:	Brochure	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Brochure outlining what invasive species are, how they are introduced, how they are spread, the importance of stopping the spread, the impacts of invasive species, and how the public can help stop spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/recreational-boating/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Hazard Analysis and Critical Control Point (HACCP) Presentation

Type of Material:	Workshop Presentation	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Presentation outlines the different pathways of introduction and spread of aquatic invasive species, as well as harvest hazards and the objectives of Hazard Analysis and Critical Control Point. Descriptions of key aquatic invasive species are given, such as Zebra and Quagga Mussels, Spiny and Fishhook Waterflea, Rusty Crayfish, Round Goby, etc.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Anglers Alert!

Type of Material:	Public Service Announcement	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	This video public service announcement profiles the threat invasive species pose to the environment, the baitfish pathway, and how anglers can prevent spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.youtube.com/invspecies Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Don't Dump Your Bait: Lake Simcoe

Type of Material:	Billboard	
Area of Focus:	Lake Simcoe	
Language:	Available in English	
Description:	Billboard highlighting the importance of protecting the Lake Simcoe fishery, including not dumping, knowing your bait and reporting invaders. Invasive Species Hotline is provided.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Don't Give Invaders a Free Ride!

Type of Material:	Poster	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Poster on how invasive species can move to new lakes via bait buckets. This poster encourages the public to help stop the spread by always disposing of bait at least 30m from the water's edge. It includes images of illegal bait species.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/recreational-boating/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Fish Carabiner

Type of Material:	Promotional Item	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A key chain that lists the Invading Species Awareness Program website and the Invading Species Hotline.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Keep All Our Lakes Great!

Type of Material:	Promotional Item	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fishing lure providing the message "You can help stop the spread of invading species" and listing the Invading Species Awareness Program website.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Know the Laws to Stop Invasive Species! Fish Ruler Sticker

Type of Material:	Sticker	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fish ruler sticker outlining the laws pertaining to bait use as outlined in the Ontario Recreational Fishing Summary.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/recreational-boating/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

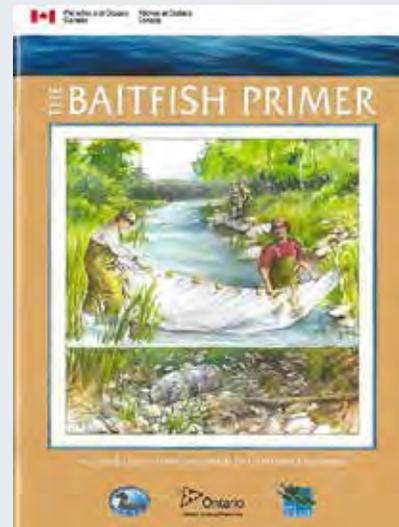
Protect Lake Simcoe

Type of Material:	Sticker
Area of Focus:	Ontario
Language:	Available in English
Description:	Sticker providing tips on proper baitfish disposal and how to prevent the introduction and spread of invasive species (baitfish and disease) into Lake Simcoe.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/live-bait/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



The Baitfish Primer: A Guide to Identifying and Protecting Ontario's Baitfishes

Type of Material:	Guide
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Designed for public use, this guide explains federal and provincial legislation and regulation about the use of baitfish. It identifies small fish species, distinguishes between legal and illegal species, recognizing the importance of baitfish habitat, understanding the potential impacts of improper baitfish use, and how to minimize negative impacts to aquatic ecosystems.
Producer:	Fisheries and Oceans Canada, Ontario Ministry of Natural Resources, Bait Association of Ontario, and the Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/live-bait/ Phone: 1-800-563-7711 (613) 993-0999 Email: info@invadingspecies.com info@dfo-mpo-gc.ca



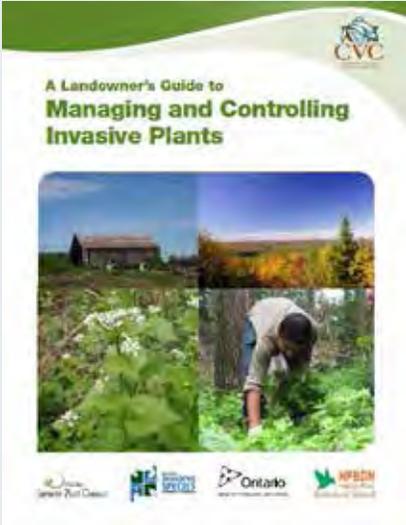
Wait! Don't Dump Your Bait

Type of Material:	Sticker
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Sticker that includes the names and images of common invaders that can spread via the baitfish pathway. This resource includes the Invading Species Hotline telephone number and website.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/live-bait/ Phone: 1-800-563-7711 Email: info@invadingspecies.com



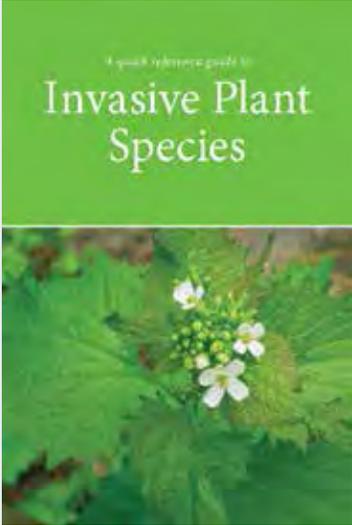
RECREATIONAL - TERRESTRIAL

A Landowner's Guide to Managing and Controlling Invasive Plants

Type of Material:	Manual	
Area of Focus:	Watershed	
Language:	Available in English	
Description:	Manual for landowners providing instruction, methods and tools for developing and implementing an invasive plant management plan for their property.	
Producer:	Credit Valley Conservation	
Available at:	Web: (Manual) www.creditvalleyca.ca/wp-content/uploads/2012/09/cvc-landowners-guide-to-invasives.pdf Web: (Appendices) www.creditvalleyca.ca/wp-content/uploads/2012/09/cvc-appendix-landowners-guide-to-invasives.pdf Phone: 1-800-668-5557 Email: cvc@creditvalleyca.ca	



A Quick Reference Guide to Invasive Plant Species

Type of Material:	Guide	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	A reference guide outlining 16 invasive plant species, including identification features, images, and information on potential look-alikes.	
Producer:	Toronto Region Conservation Authority, Credit Valley Conservation	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/02/InvasiveQuickrefguide.pdf Web: www.ontarioinvasiveplants.ca/files/Invasives_booklet_2.pdf Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Don't Give Invaders a Free Ride (Terrestrial)

Type of Material:	Display	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A 6'X4' and 8'X10' display profiling common buckthorn, asian long-horned beetle, emerald ash borer, garlic mustard, japanese knotweed and dog-strangling vine. it outlines what the public can do to prevent spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

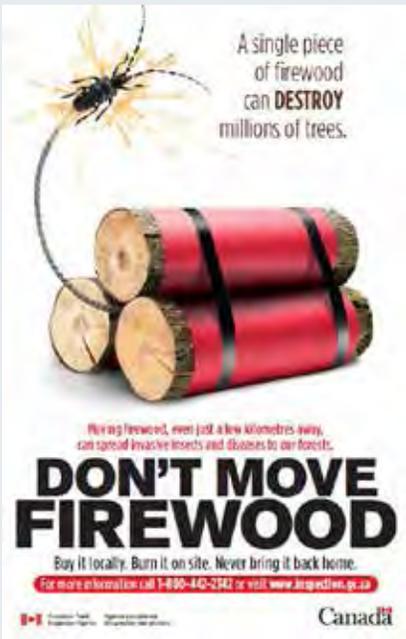
Don't Move Firewood

Type of Material:	Brochure	
Area of Focus:	Canada	
Language:	Available in English	
Description:	Brochure outlining the importance of buying and burning firewood locally, educating yourself about invasive species and following all rules and regulations related to moving firewood and other wood products within Canada. Provides examples of invasive pests including, Emerald Ash Borer, Asian Long-horned Beetle and Brown Spruce Longhorn Beetle.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/for_firewood_brochure_1331214935254_eng.pdf Phone: 1-800-442-2342	

Don't Move Firewood

Type of Material:	Fact Sheet	
Area of Focus:	Canada	
Language:	Available in English and French	
Description:	Fact sheet providing information on how invasive species spread with firewood, potential impacts, penalties of moving firewood and what you can do to help and prevent the spread of invasive species.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/english/plaveg/for/prod/firefse.pdf Phone: 1-800-442-2342	

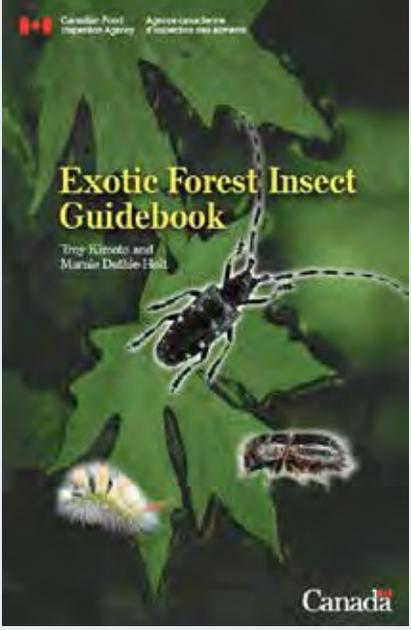
Don't Move Firewood

Type of Material:	Poster	
Area of Focus:	Canada	
Language:	Available in English and French	
Description:	A poster highlighting the importance of not moving firewood. Key messages include buy firewood locally, burn it on site and never bring it back home.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/DAM/DAM-plants-vegetaux/STAGING/text-texte/for_woodbois_08_1331043598510_eng.pdf Phone: 1-800-442-2342	

Don't Move Wood!

Type of Material:	Sticker	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Sticker highlighting that invasive insects and disease pose a serious threat to forests, and that movement of infested firewood is a leading cause of spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Exotic Forest Insect Guidebook

Type of Material:	Guide	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	A guide outlining exotic forest insects that could pose a serious threat if they became established in Canada. Information includes identification, host trees, location of infestation, host condition, distribution and signs.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.ontariostewardship.org/councils/duff-simcoe/files/exotic_insect_guide_book.pdf Phone: 1-800-442-2342	

Help Protect Canada's Trees & Forests

Type of Material:	Promotional Item	
Area of Focus:	Ontario, Canada	
Language:	Available in English	
Description:	Button showing the Emerald Ash Borer and providing the message "Do not move firewood!"	
Producer:	Canadian Food Inspection Agency	
Available at:	Email: info@invadingspecies.com Phone: 1-800-563-7711	

Help STOP the Spread of Invasive Plants by Giving them a Brush Off!

Type of Material:	Signage	
Area of Focus:	Regional: Durham	
Language:	Available in English and French	
Description:	Signage located at boot brush stations providing information on invasive species, including why they are a problem, protecting Ontario biodiversity, how the public can help, and images of unwanted invaders.	
Producer:	Central Lake Ontario Conservation Authority	
Available at:	Phone: (905) 579-0411 Email: mail@cloca.com	

Look Before You Leave!

Type of Material:	Poster	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A poster targeting cottagers and/or campers to raise awareness about unknowingly carrying stowaways (invasive species) in cargo. It provides information on where to look for invasive species, and what can be done to prevent spread through this pathway.	
Producer:	Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca/files/invasivePosterFINAL.pdf Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

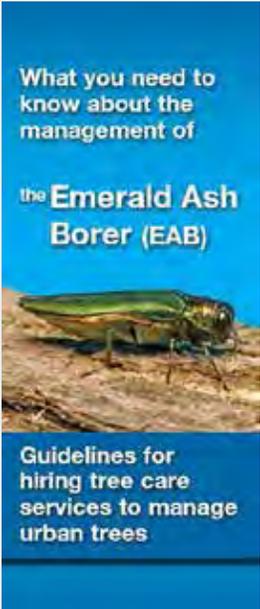
Look Before You Leave!

Type of Material:	Postcard	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A postcard targeting cottagers and/or campers to raise awareness about unknowingly carrying stowaways (invasive species) in cargo. It provides information on where to look for invasive species, and what can be done to prevent spread through this pathway.	
Producer:	Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca/files/invasivePosterFINAL.pdf Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Questions and Answers

Type of Material:	On-line Resource	
Area of Focus:	Ontario, Canada	
Language:	Available in English and French	
Description:	Resource providing commonly asked questions and answers on invasive plants.	
Producer:	Canadian Food Inspection Agency	
Available at:	Web: www.inspection.gc.ca/plants/plant-protection/invasive-plants/faq/eng/1329760438133/1329760617115	

What You Need to Know About the Management of The Emerald Ash Borer: Guidelines for Hiring Tree Care Services to Manage Urban Trees

Type of Material:	Brochure	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Brochure designed for homeowners and other people who need to manage Emerald Ash Borer within an infested urban area.	
Producer:	Ontario Ministry of Natural Resources, Ontario Commercial Arborist Association, City of Toronto	
Available at:	Web: www.toronto.ca/parks/pdf/forestry/eab/emerald_ash_borer.pdf	



GENERAL INFORMATION ON INVASIVE SPECIES

Alderville First Nation Black Oak Savanna

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Resource providing information on Alderville First Nation Black Oak Savanna programs speaking about invasive species like Spotted Knapweed, Yellow Hawkweed and Dog-strangling Vine.	
Producer:	Alderville First Nation Black Oak Savanna Ecology Centre	
Available at:	Web: www.alderillesavanna.ca/eventstours.html Email: savannatours@eagle.ca	

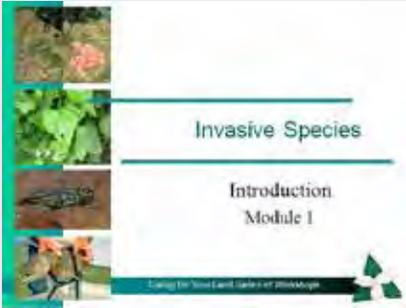
Beware...they're already here! Durham Region's Most Unwanted

Type of Material:	Canned Presentation	
Area of Focus:	Regional: Durham	
Language:	Available in English	
Description:	Presentation on invasive species including information on distribution, causes for concern, challenges for prevention, what is being done, and information on specific terrestrial and aquatic invaders.	
Producer:	Central Lake Ontario Conservation Authority	
Available at:	Phone: (905) 579-0411 Email: mail@cloca.com	

Best Management Practices to Prevent the Spread of Invasive Species During Summer Fieldwork

Type of Material:	Best Management Practice Guide	
Area of Focus:	Regional: Durham	
Language:	Available in English	
Description:	Best management practice guide outlining how staff can prevent the spread of invasive species during summer field work. It includes information on decontaminating personal equipment, vehicles, trails, and large equipment for both terrestrial and aquatic habitats.	
Producer:	Central Lake Ontario Conservation Authority	
Available at:	Web: www.cloca.com Phone: (905) 579-0411 Email: mail@cloca.com	

Caring for Your Land Workshops: Invasive Species Modules

Type of Material:	Canned Presentations/Workshops	
Area of Focus:	Eastern Ontario	
Language:	Available in English	
Description:	This presentation provides information about the introduction of invasive species to Ontario, including economic, social and environmental impacts. The three-part invasive species workshop breaks down invasive and exotic threats, pathways of introduction, and the potential costs. The workshop continues in great detail on the identification, origins, and costs of invasive plants, and invasive insects and diseases.	
Producer:	Eastern Ontario Model Forest Network	
Available at:	Web: www.eomf.on.ca/index.php?option=com_k2&view=itemlist&task=category&id=15%3Acaring-for-your-land-workshop-series&Itemid=238&lang=en Phone: (613) 258-8241 Email: modelforest@eomf.on.ca	

Central Lake Ontario Conservation Authority's Invasive Species Management Strategy

Type of Material:	Strategic Document	
Area of Focus:	Regional: Durham	
Language:	Available in English	
Description:	Document outlining Central Lake Ontario Conservation Authority's long-term management strategy for dealing with invasive species on conservation authority lands and throughout the jurisdiction.	
Producer:	Central Lake Ontario Conservation Authority	
Available at:	Web: www.cloca.com/resources/Natural%20Heritage/Invasive%20Species%20Management%20Strategy%20November%202010_FINAL.pdf Phone: (905) 579-0411 Email: mail@cloca.com	

Credit Valley Conservation Priority Invasive Plants

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English	
Description:	Fact sheet of priority invasive plants. Categories include, transformers, highly invasive, moderately invasive, minimally invasive, potentially invasive, and a watch list.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/07/11-150-priorityinvasives-11-list-web.pdf	

Credit Valley Conservation's Invasive Species Program

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English	
Description:	Fact sheet on the Credit Valley Conservation Authority invasive species program, including information on invasive species, why they need a program, their mandate, what they do/how it is implemented, and who to contact for more information.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/07/INVASIVE_SPECIES_FACTSHEET.pdf	

Central Lake Ontario Conservation Authority's Invasive Species Website

Type of Material:	On-line Resource	
Area of Focus:	Regional: Durham	
Language:	Available in English	
Description:	Resource providing an overview of invasive species with links to a variety of resources.	
Producer:	Central Lake Ontario Conservation Authority	
Available at:	Web: www.cloca.com Phone: (905) 579-0411 Email: mail@cloca.com	

Controlling Invasive Plants

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Greater Toronto Area	
Language:	Available in English	
Description:	Fact sheet outlining the threat of invasive plants for Toronto plant communities, reviews control method options and assists its audience in learning how to identify the top five species (Dog-strangling Vine, Buckthorn, Norway Maple, Manitoba Maple and Garlic Mustard) and what the public can do to help prevent introduction and spread.	
Producer:	City of Toronto Urban Forestry	
Available at:	Web: www.toronto.ca/trees/pdfs/Fact_3_Controlling_Invasive_Plants.pdf	

Don't Give Invasive Species a Window of Opportunity

Type of Material:	Display	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Pop-up display profiling the Ontario Invasive Plant Council. It includes photos of different invasive plants.	
Producer:	Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca Email: info@ontarioinvasiveplants.ca	

Ecozone Investigation

Type of Material:	Classroom Presentation/Lesson Plan	
Area of Focus:	Regional	
Language:	Available in English	
Description:	Lesson plan providing an opportunity for students to investigate some local habitats and become familiar with some of the plants and animals that are native to their ecozone. Students visit a forest, meadow and river habitat looking for the animals and plants that are characteristic of the local area. Includes a discussion of some invasive species found in the area and an opportunity to identify these species.	
Producer:	Humber Arboretum	
Available at:	Web: www.humberarboretum.on.ca/grade10 Phone: 416-675-5009	

Help Stop the Spread: Terrestrial

Type of Material:	Pop-up Display	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Pop-up display profiling pictures of terrestrial invasive species and pathways with no text. Provides contact information for the Invading Species Hotline.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Help Stop the Spread: Aquatic

Type of Material:	Pop-up Display	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Pop-up display profiling pictures of aquatic invasive species and pathways with no text. Provides contact information for the Invading Species Hotline.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Invaders In Our Waters

Type of Material:	Curriculum CD	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A comprehensive package that includes an overview of the impacts of aquatic invasive species with a focus on the pathways of how they are introduced. Includes 8 two-minute and 4 thirty-second public service announcement messages focusing on each pathway of concern.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.invadingspecies.com/product/dvd-cd/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Invasive Plant Research Compendium

Type of Material:	Document	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	A document of invasive plant initiatives occurring across Ontario, and in neighbouring jurisdictions. It focuses on Ontario's most problematic species under the themes of biology, risk assessment, impacts, methods of dispersal, and control/management.	
Producer:	Ontario Ministry of Natural Resources, Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca/index.php/managecontrol Email: info@ontarioinvasiveplants.ca	

Invasive Plant Species

Type of Material:	On-line Resource	
Area of Focus:	Regional	
Language:	Available in English	
Description:	Resource providing profiles of 15 invasive plant species that are impacting the preservation and restoration of High Park's natural environment. Links to other resources are also provided.	
Producer:	High Park Nature Centre	
Available at:	Web: www.highparknature.org/wiki/wiki.php?n=Plants.InvasivePlants	

Invasive Species	
Type of Material:	Fact Sheet
Area of Focus:	Ontario
Language:	Available in English
Description:	Fact sheet encouraging landowners to help prevent the spread of invasive species. It outlines why it is important and how they can help.
Producer:	Federation of Ontario Cottagers' Associations
Available at:	Web: www.foca.on.ca/xinha/plugins/ExtendedFileManager/demo_images/test/Invasive_Species.pdf

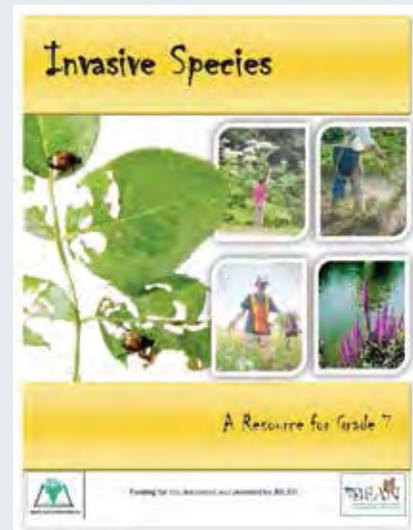


Invasive Species: A Biodiversity Challenge!	
Type of Material:	Curriculum CD
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Curriculum includes fundamental concepts of invasive species for Grade 6 Science and Technology, Social Studies, Language, Health & Physical Education, Arts and Mathematics courses. Includes lesson plans and warm-up activities.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com



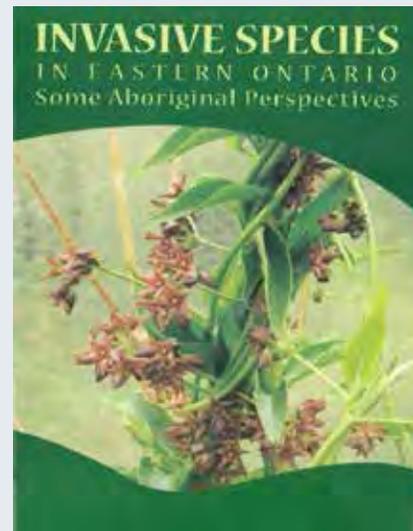
Invasive Species: A Grade 7 Resource

Type of Material:	Curriculum
Area of Focus:	Ontario
Language:	Available in English
Description:	A tool used to support student learning and the impacts invasive species have on agriculture, the environment, economy and society. Links to Science, Language, Visual Arts, Health and Physical Education.
Producer:	Ontario Agri-Food Education; Biodiversity Education Awareness Network; Ontario Federation of Anglers and Hunters
Available at:	Web: www.oafe.org Web: biodiversityeducation.ca/formal/



Invasive Species in Eastern Ontario: Some Aboriginal Perspectives

Type of Material:	Booklet
Area of Focus:	Ontario
Language:	Available in English
Description:	A booklet describing efforts by Aboriginal communities to apply traditional knowledge systems to education, prevention and monitoring of invasive species. Includes information on invasive species ranges, management, economic and ecological impacts.
Producer:	Plenty Canada
Available at:	Web: www.plentycanada.com



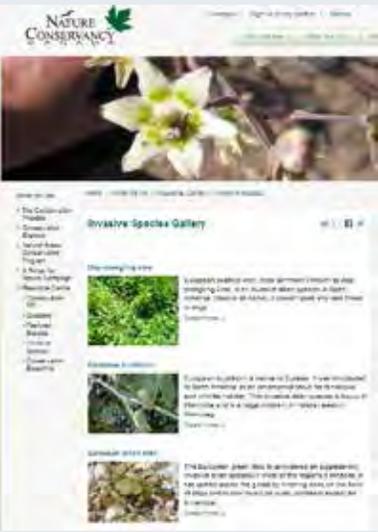
Invasive Species: A Threat to Ontario's Biodiversity

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing general information about invasive species in Ontario. It includes information on aquatic and terrestrial invasive species, what Ontario is doing about invasive species, and how the public can help prevent the introduction and spread of invasive species in Ontario.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: http://www.mnr.gov.on.ca/en/Business/Biodiversity/2ColumnSubPage/STDPROD_068681.html	

Invasive Species Management Options for the Ontario Landowner

Type of Material:	Guide	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	This guide includes current information on invasive plants, pests, and diseases that threaten the health of forests, lands, waters, and livestock.	
Producer:	Eastern Ontario Model Forest Network	
Available at:	Web: www.eomf.on.ca/media/k2/attachments/Inv_Sp_Cover.pdf Phone: (613) 258-8241 Email: modelforest@eomf.on.ca	

Invasive Species Gallery

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Resource profiling six invasive species, including threats to Ontario.	
Producer:	Nature Conservancy of Canada	
Available at:	Web: www.natureconservancy.ca/en/what-we-do/resource-centre/invasive-species	

Invasive Species Gallery

Type of Material:	On-line Resource	
Area of Focus:	Regional	
Language:	Available in English	
Description:	Resource providing information on three invasive species: Garlic Mustard, Giant Hogweed, and Emerald Ash Borer.	
Producer:	Town of Oakville	
Available at:	Web: www.oakville.ca/residents/invasivespecies.html	

Invasive Species	
Type of Material:	On-line Resource
Area of Focus:	Canada/Ontario
Language:	Available in English and French
Description:	Resource providing information on invasive species, including a link to an on-line searchable encyclopedia to help discover which species are considered invasive, where they came from, their invasive range, how they were introduced and their ecological impacts.
Producer:	Canadian Wildlife Federation
Available at:	Web: www.cwf-fcf.org/en/conservation/issues/issues-of-concern/invasive-species.html



Invasive Species Information Sheet	
Type of Material:	Fact Sheets
Area of Focus:	Regional
Language:	Available in English
Description:	Fact sheet providing information on invasive species, including the damage they can cause, how they are introduced, ways to prevent spread, and examples of invaders (Buckthorn, Dog-strangling Vine, Manitoba Maple, Garlic Mustard).
Producer:	Halton Region
Available at:	Web: www.halton.ca/common/pages/UserFile.aspx?fileId=19813 Phone: (905) 825-6000



Invasive Exotics

Type of Material:	On-line Resource	
Area of Focus:	Regional	
Language:	Available in English	
Description:	Resource providing information on invasive species, ways to prevent their introduction, and links to additional resources and agencies working on invasive species.	
Producer:	Conservation Halton	
Available at:	Web: www.conservationhalton.ca/ShowCategory.cfm?subCatID=1114	

Invasive Exotic Species

Type of Material:	On-line Resource	
Area of Focus:	Regional: South Nation River Watershed	
Language:	Available in English and French	
Description:	Resource providing information on invasive exotic species and links to resources for more information.	
Producer:	South Nation Conservation	
Available at:	Web: www.nation.on.ca/en/your-forests/invasive-exotic-species/	

Invasive Species: What You Should Know

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English	
Description:	Fact sheet providing information on invasive species, including what they are, causes for concern, impacts on biodiversity, what Credit Valley Conservation Authority is doing, how the public can help, and useful links/resources.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/07/General-Invasives-factsheet-2010-High-res.pdf	

Invasive Species Profiles: 24 before May 24

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Campaign that profiles of 24 different invasive species that are posted the 24 days leading up to May 24, 2012 weekend. Species profiles are included.	
Producer:	Ontario Invasive Plant Council	
Available at:	Web: www.ontarioinvasiveplants.ca Phone: 1-800-563-7711 Email: info@ontarioinvasiveplants.ca	

Invasive Non-Native Plants

Type of Material:	Fact Sheets	
Area of Focus:	Regional: Upper Thames Watershed	
Language:	Available in English	
Description:	Fact sheet providing information on invasive non-native plants that have become problematic in the Upper Thames River watershed.	
Producer:	Upper Thames River Conservation Authority	
Available at:	Web: www.thamesriver.on.ca/Invasive_species/Invasive_species.htm	

Invasive Non-Native Species

Type of Material:	On-line Resource	
Area of Focus:	Regional: Upper Thames Watershed	
Language:	Available in English	
Description:	Resource providing information on invasive species including impacts, how to prevent spread, and control. Additional resources can be found on species, including invasive non-native plants Buckhorn, Giant Hogweed, and Emerald Ash Borer.	
Producer:	Upper Thames River Conservation Authority	
Available at:	Web: www.thamesriver.on.ca/Invasive_species/Invasive_species.htm	

Invasive Plants Poisonous to the Touch in Ontario

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Fact sheet providing information and images for the top ten invasive plant species.	
Producer:	Invasive Species Research Institute	
Available at:	Web: www.thamesriver.on.ca/Invasive_species/Invasive_species.htm	

Invasive Plant Species: Top 10 Troublemakers

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English	
Description:	A list of invasive plants poisonous to the touch and found in Ontario.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/07/Top-Invasive-Plants-2010-low-res.pdf	

Invading Species Awareness Program

Type of Material:	On-line Resource
Area of Focus:	Ontario
Language:	Available in English and French
Description:	Resource providing general information on about invasive species in Ontario. It includes information on aquatic and terrestrial invasive species, pathways, and how the public can help prevent introduction and spread.
Producer:	Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com



Invasive Species Research Profiles

Type of Material:	On-line Resource
Area of Focus:	Ontario
Language:	Available in English
Description:	Resource profiling the importance and need for research on invasive species. Current projects include research on invasive plants, such as Garlic Mustard, and invasive earthworms.
Producer:	Koffler Scientific Reserve
Available at:	Web: ksr.utoronto.ca



Making Waves! Protecting Ontario's Aquatic Habitats

Type of Material:	Curriculum CD
Area of Focus:	Regional
Language:	Available in English and French
Description:	Curriculum linked, integrated activities incorporating invading species into Grade 4 Science and Technology, Language, Physical Education, and Art courses. Includes lessons and warm-up activities.
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters
Available at:	Web: www.invadingspecies.com/product/dvd-cd/ Phone: 1-800-563-7711 Email: info@invadingspecies.com

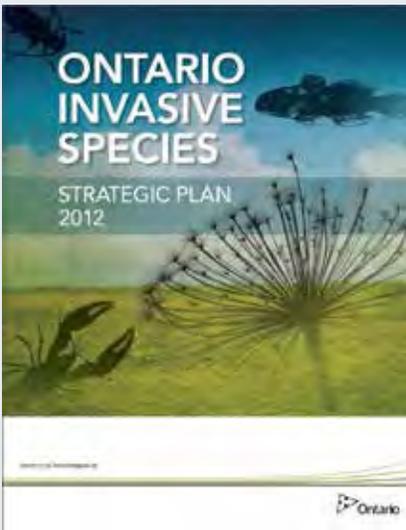


Methods to Control Invasive Species

Type of Material:	Document
Area of Focus:	Regional: Credit River Watershed
Language:	Available in English
Description:	A document outlining the most current prescriptive methods of control for a select number of invasive plants species, including Autumn Olive, Buckthorn, Honeysuckles, Canada Thistle, Dog-strangling Vine, Garlic Mustard, Giant Hogweed, Goutweed, Kentucky Bluegrass, Periwinkle, Himalayan Balsam, Japanese Knotweed, Purple Loosestrife, Giant Reed, Reed Canary Grass, Rough Manna Grass, Siberian Elm, Manitoba Maple, Norway Maple, and Tree of Heaven.
Producer:	Credit Valley Conservation Authority
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/02/MethodstoControlInvasives.pdf



Ontario Invasive Species: Strategic Plan 2012

Type of Material:	Strategic Plan	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Strategic plan outlining Ontario's long-term plan to slow and where possible reverse the spread of existing invasive species. The plan highlights existing work and addresses future actions.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.mnr.gov.on.ca/stdprodconsume/groups/lr/@mnr/@biodiversity/documents/document/stdprod_097634.pdf	

Ontario's Most Unwanted Invasive Species Files

Type of Material:	Canned Presentation	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	Presentation outlining invasive species characteristics, pathways of introduction and spread. The most unwanted species are described in detail for fish, invertebrates and plant invaders. Provides information on what can be done to prevent the introduction and spread, and how to report sightings to the Invading Species Hotline.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Providers of Invasive Species Removal and Control

Type of Material:	Fact Sheet	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English	
Description:	A list of companies that provide the removal or control of invasive plant species.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/05/InvasivesProviders-Chart.pdf	

Ratray Marsh Invasive Species Management Plan

Type of Material:	Strategic Plan	
Area of Focus:	Regional: Credit River Watershed	
Language:	Available in English	
Description:	Document provides support for internal staff, partner agencies, non-governmental agencies (NGOs) and individuals involved in land management and conservation that face the threat of invasive species. It is also meant to act as a catalyst for action and discussion, commitment of resources, and development of ongoing partnerships.	
Producer:	Credit Valley Conservation Authority	
Available at:	Web: www.creditvalleyca.ca/wp-content/uploads/2011/07/091201-RatrayInvasiveMgmtPlan.pdf	

Rice Lake Plains Joint Initiative: Invasive Species

Type of Material:	On-line Resource
Area of Focus:	Ontario: Rice Lake Plains
Language:	Available in English
Description:	Resource providing information on the selection of invasive species that have invaded the Rice Lake Plains and Northumberland County. Includes links to partners including Alderville First Nation Black Oak Savanna.
Producer:	Rice Lake Plains Joint Initiative
Available at:	Web: www.ricelakeplains.ca/invasives.htm

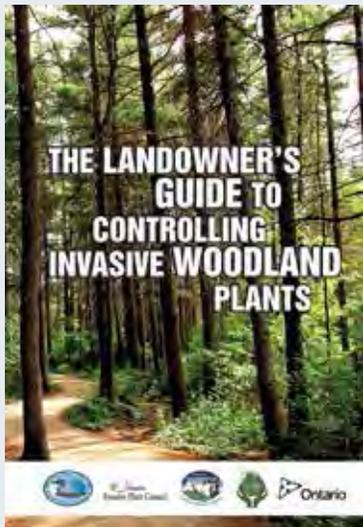


Toronto Islands: How Can you Help Protect the Native Flora of the Toronto Islands?

Type of Material:	Brochure
Area of Focus:	Regional: Greater Toronto Area
Language:	Available in English
Description:	This brochure outlines the threat of invasive plants for Toronto Island plant communities, reviews control method options and assists its audience in learning how to identify the top 3 species (Dog-strangling Vine, Japanese Knotweed and Asiatic Bittersweet) and what can be done to help prevent introduction and spread.
Producer:	City of Toronto Urban Forestry
Available at:	Web: www.toronto.ca/trees/pdfs/TOIslandInvasivesDistributionVersion.pdf



The Landowner's Guide to Controlling Invasive Woodland Plants

Type of Material:	Guide	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	A guide outlining general information on invasive species, and specific information in 7 invasive woodland plants, including information on life history, distribution, habitat, impacts, and control.	
Producer:	Ontario Invasive Plant Council	
Available at:	(English) Web: www.ontarioinvasiveplants.ca/files/LandownerGuideInvasives_web.pdf (French) Web: www.ontarioinvasiveplants.ca/files/Landowners_Guide_french_04_03.pdf Web: www.invadingspecies.com/product/forest-pests/ Phone: 1-800-563-7711 Email: info@invadingspecies.com	

Weeds in Ontario

Type of Material:	On-line Resource	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Resource providing information on weeds in Ontario. It lists resources, articles, and publications pertaining to invasive species, such as Dog-strangling Vine, Giant Hogweed, or Garlic Mustard, as well as the control and management of weeds in Ontario.	
Producer:	Ontario Ministry of Agriculture, Food and Rural Affairs	
Available at:	Web: www.omafra.gov.on.ca/english/crops/insects/weeds.html#STATS%20&%20FACTS Web: www.omafra.gov.on.ca/	

Working with Partners to Prevent the Spread of Aquatic Invasive Species

Type of Material:	Fact Sheet	
Area of Focus:	Ontario	
Language:	Available in English and French	
Description:	Fact sheet providing information on projects that support the delivery of Ontario's Invasive Species Strategic Plan. Under the 2007 Canada-Ontario Agreement Respecting the Great Lakes Basin Ecosystem (COA), the ministry is working across the Great Lakes Basin with more than 30 projects focusing on preventing the spread and reducing impacts of aquatic invasive species.	
Producer:	Ontario Ministry of Natural Resources	
Available at:	Web: www.web2.mnr.gov.on.ca/mnr/greatlakes/Spread_of_Aquatic.pdf	

Unauthorized Fish Stocking

Type of Material:	Public Service Announcement	
Area of Focus:	Ontario	
Language:	Available in English	
Description:	This video public service announcement profiles the threat invasive species pose to the environment, the potential impacts of unauthorized fish stocking, and how to prevent spread.	
Producer:	Ontario Ministry of Natural Resources, Ontario Federation of Anglers & Hunters	
Available at:	Web: www.youtube.com/invspecies Phone: 1-800-563-7711 Email: info@invadingspecies.com	

I  Invasive Species