Canada’s Invasive Alien Species Strategy

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Contents

• Why Canada Needs a Strategy
• Background
• Canada’s Approach
• Roles and Responsibilities
• Finding out more…
Why does Canada need a strategy

![Graph showing the number of new introductions from 1600 to 2000, with a significant increase around the 1900s.]
Why does Canada need a strategy

- 27% of all vascular plants
- 181 insects that feed on woody plants
- Many other insects
- 24 birds
- 26 mammals
- 2 reptiles
- 4 amphibians
- 55 freshwater fish
Invasive species have serious impacts on Canada’s:

- Economy
- Environment
- Society

Why does Canada need a strategy
Why does Canada need a strategy

Economic

Forestry  Agriculture  Fisheries
Why does Canada need a strategy

Economic

Cost estimate for 16 species....
- ~13 to 34 billion dollars per year

Cost estimates for IA Plants on agriculture and forestry ...
- over 7.5 billion
Why does Canada need a strategy

Economic Trade
Why does Canada need a strategy

Environmental

American Chestnut  American Beech  Butternut
Why does Canada need a strategy

Environmental
Why does Canada need a strategy

Social
Why does Canada need a strategy

Lots of activity on IAS in Canada

- Federal Government
- Provincial & Territorial Governments
- NGOs’s Universities Etc.
Why does Canada need a strategy

- Impacts are huge
- Number of new species is increasing
- Issue touches every Canadian
Background

- RIO Earth Summit - 92
  - UN Convention on Biodiversity - Article 8(h)
- Canadian Biodiversity Strategy - 95
- Approved in 2004
Budget 2005 – $85 m for delivery of the strategy over 5 years
Canada’s Strategy

**Goal:**
- to engage Canadians in actions that help minimize risk to the environment, economy, and society

**Scope:**
- Broad and inclusive
- Seeks to protect Canada’s aquatic and terrestrial ecosystems
- Does not cover human health dimensions
Canada’s Strategy

- Desired Outcomes:
  - reduce the introduction and spread of IAS
  - enable Canadians to become actively involved in projects that address the threat of IAS
  - improve the understanding and awareness of Canadians of IAS
Canad’a’s Strategy

• Thematic Groups
  – Leadership & Coordination
  – Aquatic Species
  – Terrestrial Plants
  – Terrestrial Animals
Canada’s Approach

• Priorities

1. **Prevent** harmful intentional and unintentional introductions

2. **Detect** and identify new invaders pre-border and upon entry

3. **Respond** rapidly to new invaders upon detection

4. **Manage** established and spreading invaders through eradication, containment, and control.
Canada’s Approach

• **Focus**
  – Risk Analysis
  – Science
  – Legislation and Regulations
  – Education and Outreach
  – International Cooperation
Canada’s Approach

International Cooperation

- NAPPO – North American Plant Protection Organization
- CBD – Convention on Biological Diversity
- CEC – Commission for Environmental Cooperation
- IMO – International Maritime Organization
- IPPC – International Plant Protection Convention
- CABI – Commonwealth Agricultural Bureau
Canada’s Approach

Aquatic Invasive Species Task Group (AISTG)

- Aquatics Task Group
- Monthly teleconferences
- Chaired by DFO
- Federal and Provincial AIS stakeholders
- Developed: *Canadian Action Plan to Address the Threat of Aquatic Alien Species*
Canada’s Approach

Aquatic Invasive Species Task Group (AISTG)

- Key Pathways:
  - Shipping
  - Boating
  - Live Bait
  - Aquarium & Pond Trade
  - Live Foodfish
  - Unauthorized Introductions
  - Canals & Water Diversions
Canada’s Approach

Terrestrial Plants and Plant Pests Working Group (TPPWG)

• Terrestrial Working Group
• Developed *Action Plan for Invasive Alien Plants and Plant Pests*
• Lists roles & responsibilities for key 5 areas:
  – L&C
  – Legislation/regulation
  – Science
  – Risk analysis
  – Education/awareness
Canada’s Approach

Leadership & Coordination Committee

Federal Partners
- EC
- DFO
- CFIA
- NRCAN
- PCA
- CBSA
- HC
- AAFC
- INAC
- TC

Chair
- Secretariat

Provincial & Territorial Partners
- British Columbia
- Alberta
- Saskatchewan
- Manitoba
- Ontario
- Quebec
- New Brunswick
- Nova Scotia
- Prince Edward Island
- Newfoundland
- North West Territories
- Yukon
- Nunavut

Working Group Representatives

DG Committee

Aquatic
- Terrestrial
- Communications
- future WG's
Roles and Responsibilities

Environment Canada

• Federal Leadership and Coordination

• Establish a national IAS Secretariat
• Chair national IAS Leadership & Coordination Committee
• Chair federal interdepartmental IAS Committee.
• Administers the IASPP
• Activities:
  – Establishment of a Canadian IAS Web Portal
  – Contribution to National IAS Communication Strategy
  – Work on international efforts
  – Partnership facilitation
Roles and Responsibilities

Fisheries and Oceans Canada

- Focus is on aquatic IAS
- Chairing Aquatic Invasive Species Task Group
  - intergovernmental
- Established Centre of Expertise in Risk Assessment of AIS
- Fund AIS research at Canadian Aquatic Invasive Species Network
- International links:
  - International Maritime Organization
  - Commission for Environment Cooperation
  - International Joint Commission for the Great Lakes
Roles and Responsibilities

NRCan – Canadian Forest Service

- Focus is on forest invasive species
- Pest prediction & risk modeling
- Response to newly established species
- Analysis of long established species
- Surveillance, detection methods
- Mitigation and Control
- Collections and Diagnostics
- Trade/Policy Issues
Roles and Responsibilities

Canadian Food Inspection Agency

- Focus is on plant health issues and pests
- Development of a National Plant Health Strategy
- Science based approach
- Operational delivery/enforcement
- Design programs & implement policies for IA plants
- PRA training
- Inspection manual & training
- Plant health information control & tracking system
- Liaison & link to partner agencies & departments
Roles and Responsibilities

Other important Federal partners....

- Canada Border Services Agency
- Parks Canada Agency
- Transport Canada
- Health Canada
Bringing it all together

An Invasive Alien Species Strategy for Canada

Federal Partners

Provincial Partners

Aquatic TG

International Obligations

Terrestrial TG

CIPF

Ballast Water Regulations

NFPS
Finding out more...

EC website... www.ec.gc.ca

Contact me:

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Questions…

- Norway Spruce
- Japanese Knotweed
- Norway Maple
- Manitoba Maple
- Gypsy Moth Caterpillar
- Earwigs + Other CC’s
- Japanese Knotweed