



**LILLOOET REGIONAL  
INVASIVE SPECIES SOCIETY**

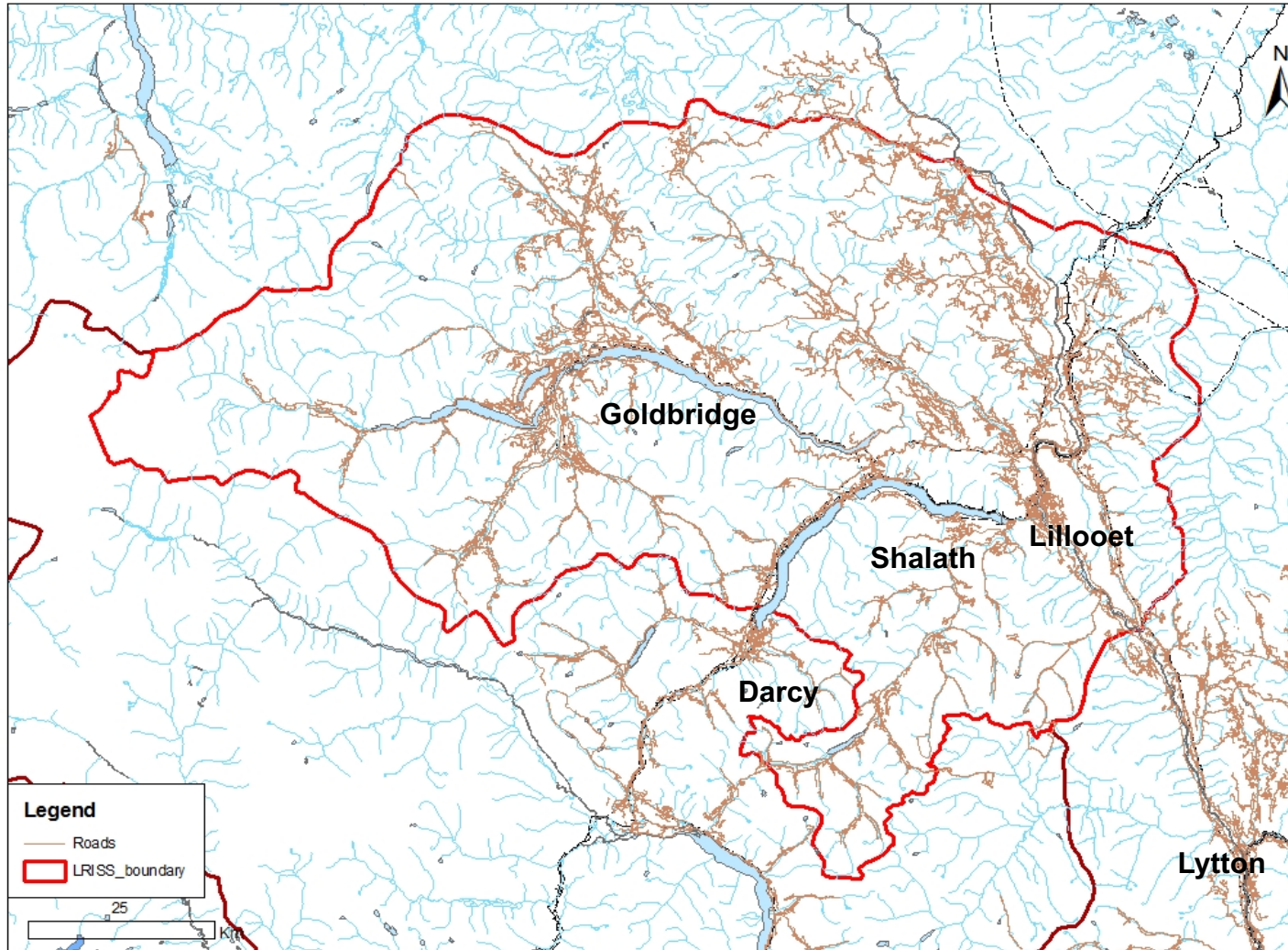
INVASIVE SPECIES SOCIETY



# What is LRISS?



# LRISS Operating Area



# What is an Alien *Invasive Species?*



An invasive plant can be defined as “a species that is non-native to the ecosystem under consideration and whose introduction causes, or is likely to cause, economic or environmental harm or harm to human health”.

# Why Manage Invasive Plants? Impacts



Risk to human health



Giant Hogweed Burns

European  
Fire Ant



# This is why we care: **IMPACTS**



## Impacts to the Economy: Property Values



Photo Top Right Source:  
[www.tpknotweed.com](http://www.tpknotweed.com)

**Knotweed can crack  
concrete foundations**

# This is why we care: **IMPACTS**



## Safety: Sightlines on Roads



Photo courtesy of Drinkwater & Associates

# This is why we care: **IMPACTS**



## Wildfire Hazard





# This is why we care: **IMPACTS**



## Impacts to Wildlife



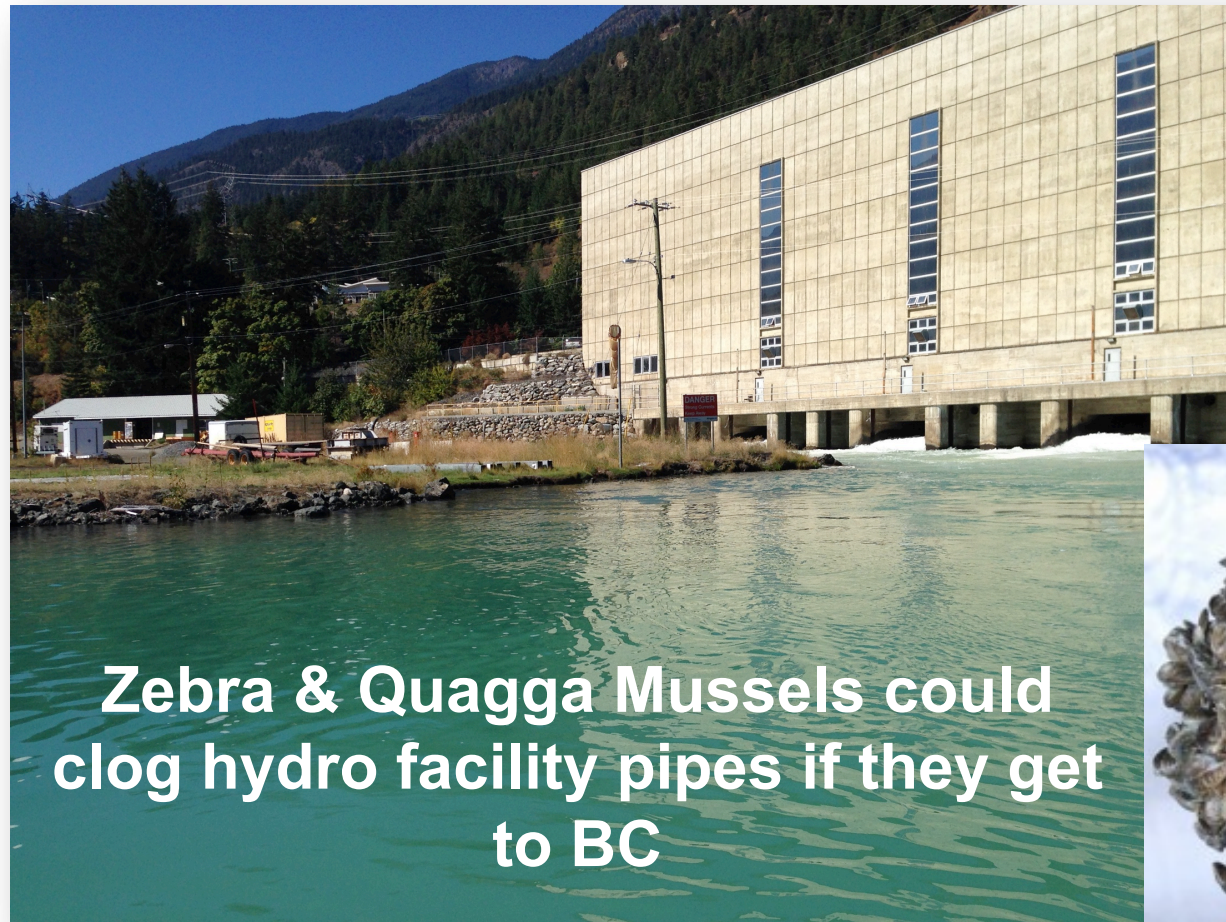
Photo sources: Dr. Ian  
Routley (Bat in burdock);  
Jacquie Rasmussen Bear



# This is why we care: **IMPACTS**



## Impacts to the Economy: Hydro and Energy costs



**Zebra & Quagga Mussels could clog hydro facility pipes if they get to BC**



# Why Manage Invasives?



## It's the Law



- **Forest and Range Practices Act**
- **BC Weed Control Act**

Integrated Pest Management Act

Seeds Act

Local Government Act

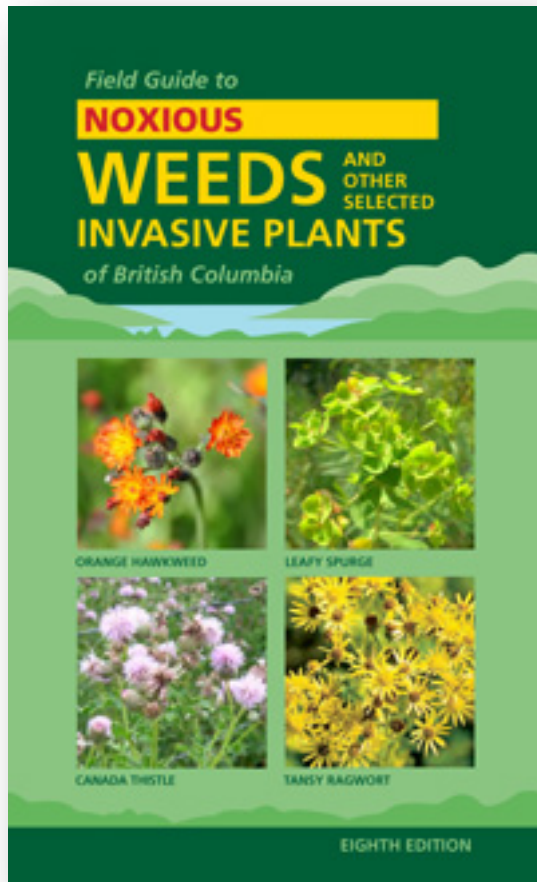
Community Charter Act

Municipal By-laws

# What can you do?



Learn to Identify  
Invasive Species!



Report



Treat



Stop the Spread....  
BMP's



# LRISS Priority Plants



Yellow  
Flag Iris



Wild Parsnip



Purple  
Loosestrife

# LRISS's Top Invasive Plants



Blueweed



Hoary Cress



Leafy Spurge

\*Photo credits: Jacquie Rasmussen &

Leafy Spurge by [USDA APHIS PPQ - Oxford, North Carolina](#), [USDA APHIS PPQ](#), [Bugwood.org](#)



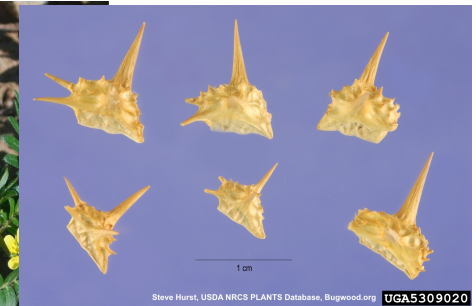
Common  
Bugloss →



Wood Sage



Cypress Spurge



Puncturevine

\*Photo sources include Jacquie Rasmussen, Department of Agriculture,  
Puncturevine: Howard F. Schwartz, Colorado State University, Bugwood.org;  
Seeds –Steve Hurst, USDA NRCS PLANTS Database Bugwood.org

# More Species of Concern



**Baby's Breath**

Photo from Ministry of Agriculture



**Common Tansy**

Photo from Ministry of Agriculture



**Hoary Alyssum**

Photo from Ministry of Agriculture



# More Species of Concern



Photo by Robert Videki, Doronicum Kft., Bugwood.org

5395929

## Hound's Tongue



Photo by Norman E. Rees, USDA Agricultural Research Service-Retired, Bugwood.org UGA0025033

## Himalayan Blackberry →



## Orange Hawkweed



# More Species of Concern



Photo by Theodore Webster, USDA Agricultural Research Service, Bugwood.org 1551160

Perennial Sow  
Thistle



Scentsless  
Chamomile



Photo by John Cardina, The Ohio State University, Bugwood.org 1559297

St. John's Wort

# More Species of Concern



**Wood Sage**  
Photo by LRISS Staff



**Knotweed**  
Photo by Jacquie Rasmussen

# More Species of Concern



**Sulphur  
Cinquefoil**

Photo by J. Rasmussen



**Yellow  
Toadflax**

# More Species of Concern



Mary Ellen (Mel) Harte, Bugwood.org  
**Burdock**



**Canada Thistle**



**Chicory**  
Photo J. Rasmussen

# More Species of Concern



Dalmatian  
Toadflax

Photos Ministry of Agriculture



Diffuse &  
Spotted  
Knapweed



Parasitic Dodder



Oxeye  
Daisy

# More invasives.....



## Eastern Gray Squirrel

Source: [oldislandpestcontrol.com](http://oldislandpestcontrol.com)

## American Bullfrog

Photo: Rylee Murray



## Zebra & Quagga Mussels

Source:  
[nas.er.usgs.gov](http://nas.er.usgs.gov)

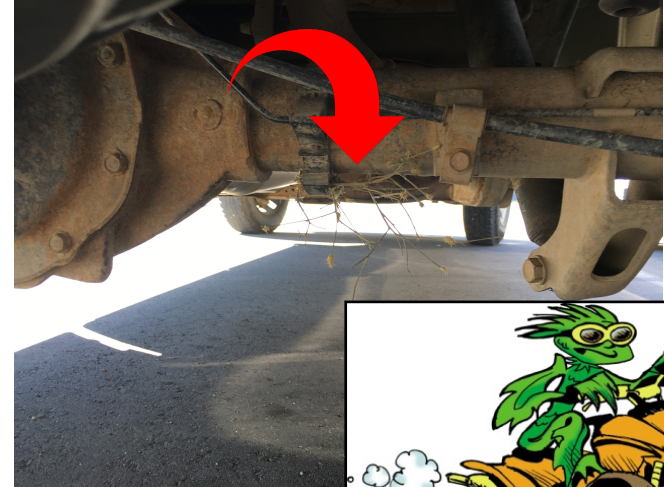
## Red Eared Slider Turtle

Source: Wiki



## European Fire Ant

# How do Invasives Spread?





# BMP's: Industry



## Clean your Equipment and Personal Gear



# BMP's: Forestry



Re-vegetate/Seed Disturbed Areas



Photograph Source: Klaus Johansson Photography 2015

# BMP's



## Re-vegetate or Seed Disturbed Areas



# BMP's



DO YOU KNOW WHAT IS  
**HIDING IN  
YOUR SEED?**



Undesirable plants  
can be introduced through  
contaminants in seed mixtures!

Before you buy seed, CHECK the  
**Certificate of Seed Analysis**  
to ensure that Invasive Plants are not  
accidentally introduced to B.C.!

Source: Peace Forage  
Seeding Tool:  
[www.peaceforagetool.ca](http://www.peaceforagetool.ca)

Germination - percent of  
seeds that grow  
Hard Seeds (only relevant  
to legume seeds) -  
seeds still included in  
germination  
Pure Living Seed - seed  
that is pure and viable

Pure Seed = crop seed only  
Inert Matter = stems, seed  
husks, dirt, etc.

TZ = Tetrazolium test -  
determines percent viable  
seed

Signed and stamped by  
accredited seed analyst  
Place and date of analysis

Seed sealing number (lot number) Crop certificate number Crop kind and variety Seed testing certificate number

### Report of Seed Analysis

This certifies that a sample of Creeping Red Fescue Boreal designated as 1357-9-060037 and was received from: \_\_\_\_\_ and was tested at: \_\_\_\_\_ Cert. No. 10-3772

with the following results:

WEED SEEDS: No. PER 25 GRAMS		OTHER WEED SEEDS		OTHER CROPS SEEDS	
Prohibited Noxious	0.0	None Found	0.0	None Found	
Primary Noxious	0.0				
Total Primary	0.0				
Secondary Noxious	0.0				
Total Primary plus Secondary		Total Weed Seeds of all Kinds		Total Other Crop Seeds	
Pure Seed	98.9%	Pure Living Seed	96%	Erct	Less than 1%
Other Crop Seeds	0.0%	Multiple Seed Units		Germination	97.5%
Wheat Seeds	0.0%	Included in Pure Seed	0.0%	Hard Seeds	
Inert Matter	1.1%	TZ	93%	Germination	
				bc. Hard Seeds	

Remarks:

This certifies that the sample of seed submitted from the lot designated above has been analyzed according to:  
Methods & Procedures of Seed Testing, C.F.I.A.  
C.F.I.A. Accredited Laboratory 1117

Date: 18-Mar-11 Accredited Analyst: \_\_\_\_\_

The responsibility for any seed sold under this Certificate with respect to Grade or any other specification rests entirely with the seller.



# Three Easy BMP's



- Report infestations
- Remove small infestations
- Proper Disposal



# Resources: Social Media & Apps



**Report A Weed App**



**Plantwise App**

Plant profiles can be found on our website:

**LRISS**

[www.lriss.ca](http://www.lriss.ca)



**WeedsBMP App**



**Report an Invasive Species App**

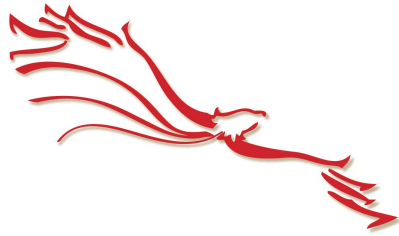
# Funding

LRISS is generously funded by:



# Canada

Funded by the  
Government of Canada's  
Canada Summer Jobs



ABORIGINAL SKILLS  
& EMPLOYMENT  
STRATEGY



Ministry of Forests,  
Lands & Natural  
Resource Operations



Ministry of  
Transportation  
and Infrastructure



# Questions?



Let us know if you have any questions.



## **LRISS Executive Director:**

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