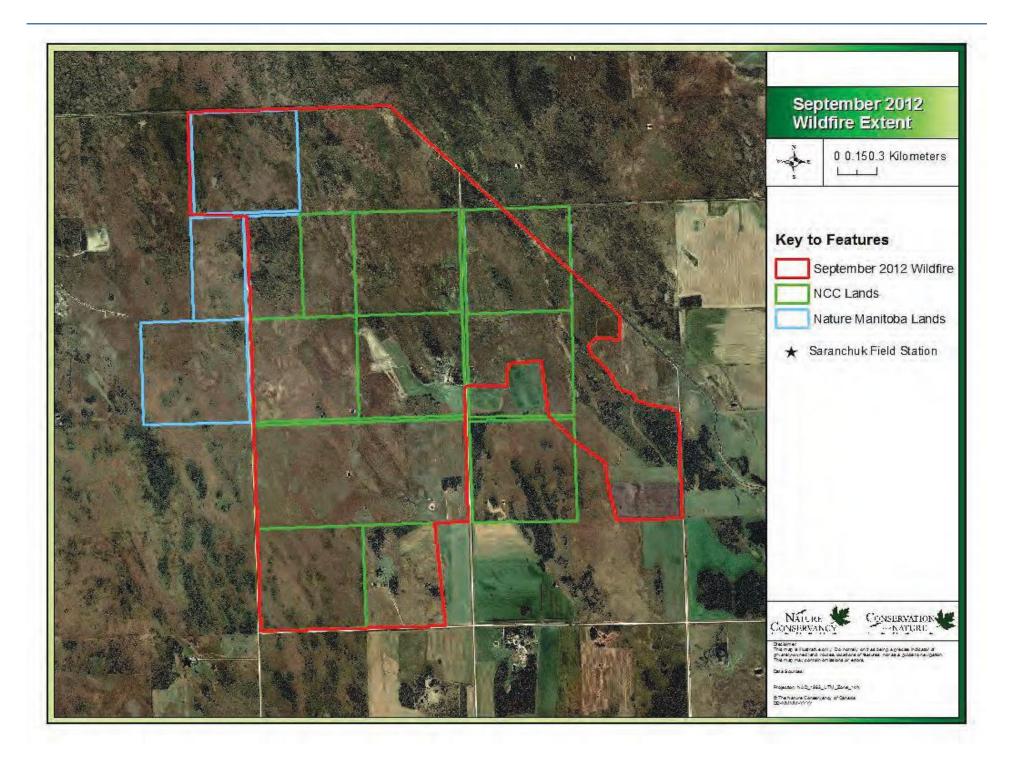
Doing it Right: Using Ecological Principles to Select Appropriate Techniques & Equipment for Grassland Reclamation

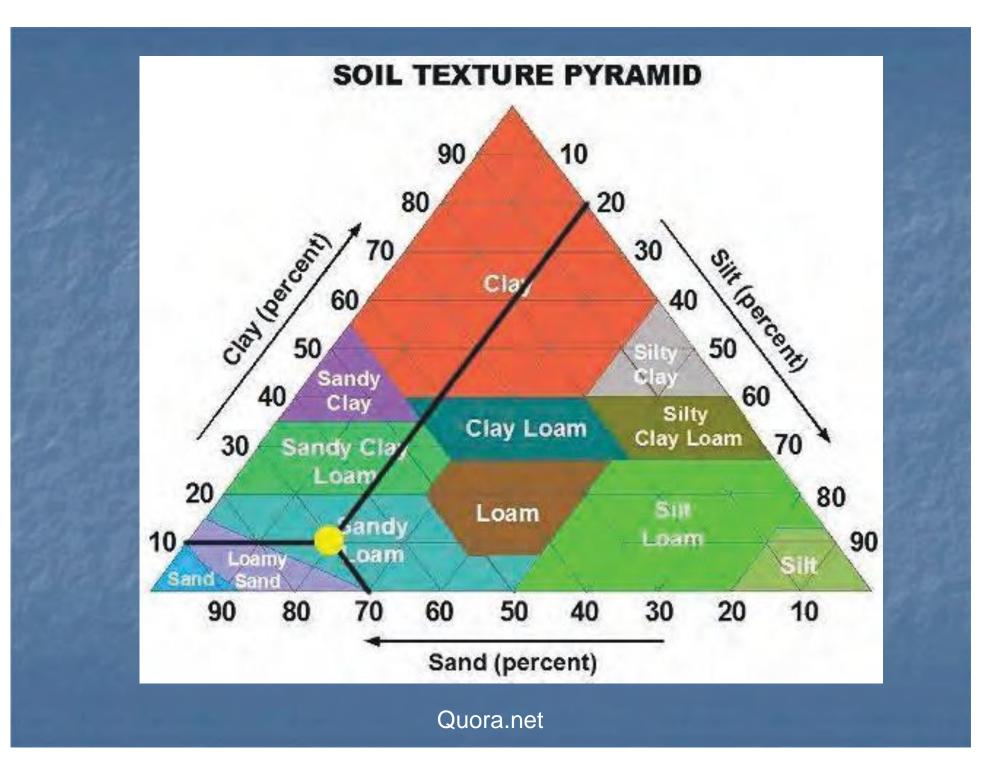
> By John P. Morgan Prairie Habitats Inc. Argyle, MB

Steven Tannas Tannas Conservation Services Inc. Cremona, AB





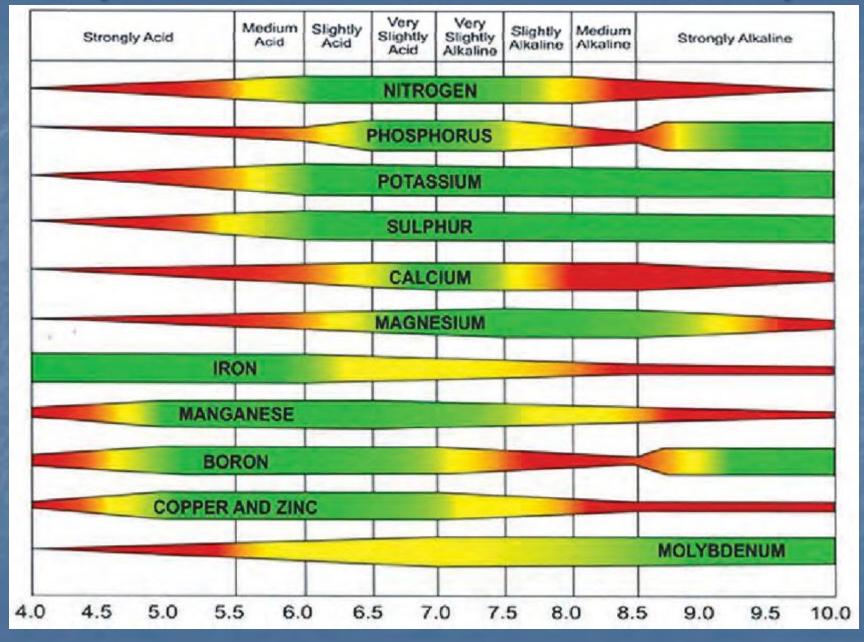


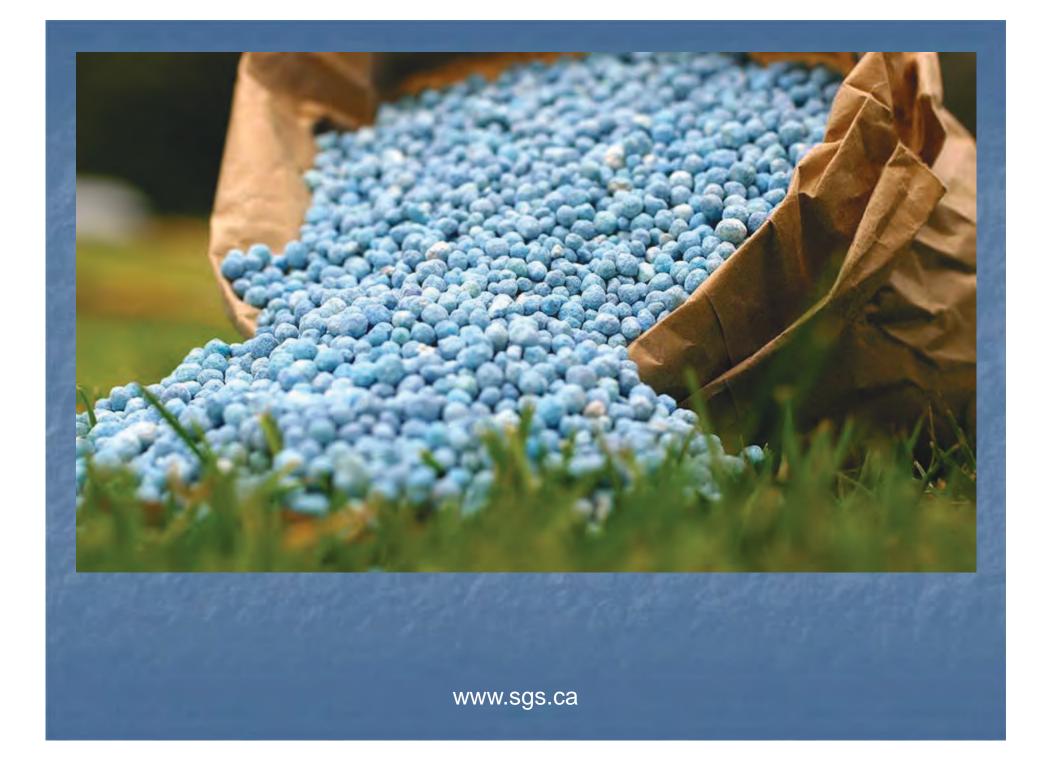






## pH Scale & Mineral Availability









#### Site Preparation: The Most Important Step!



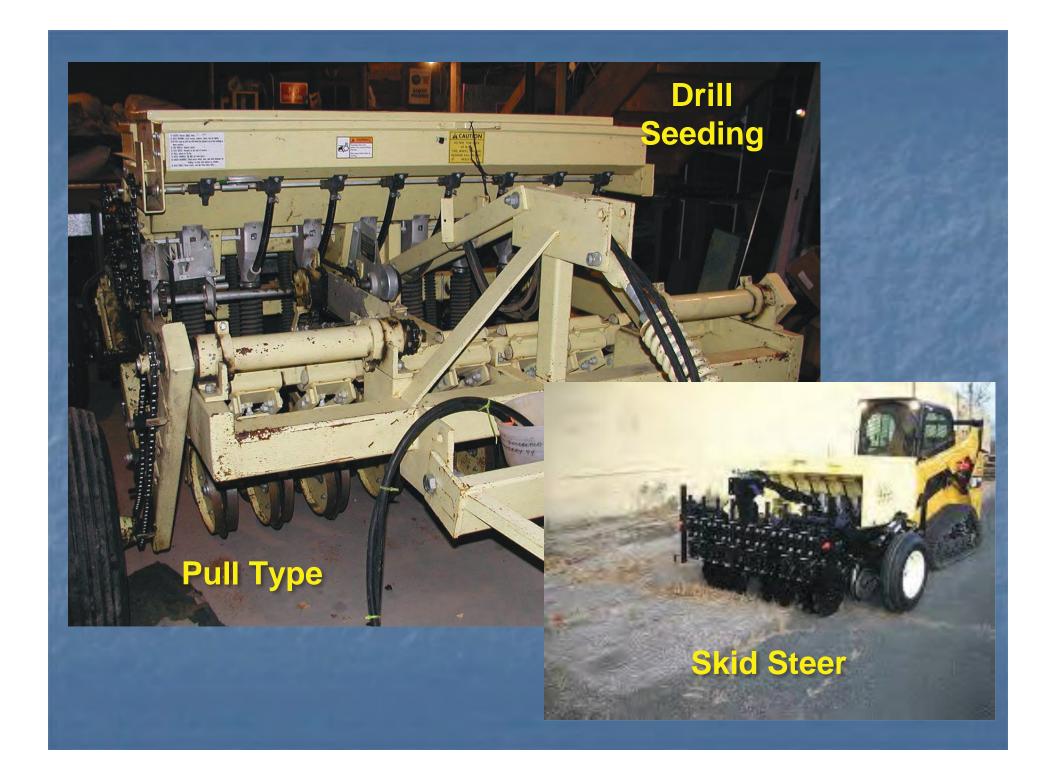


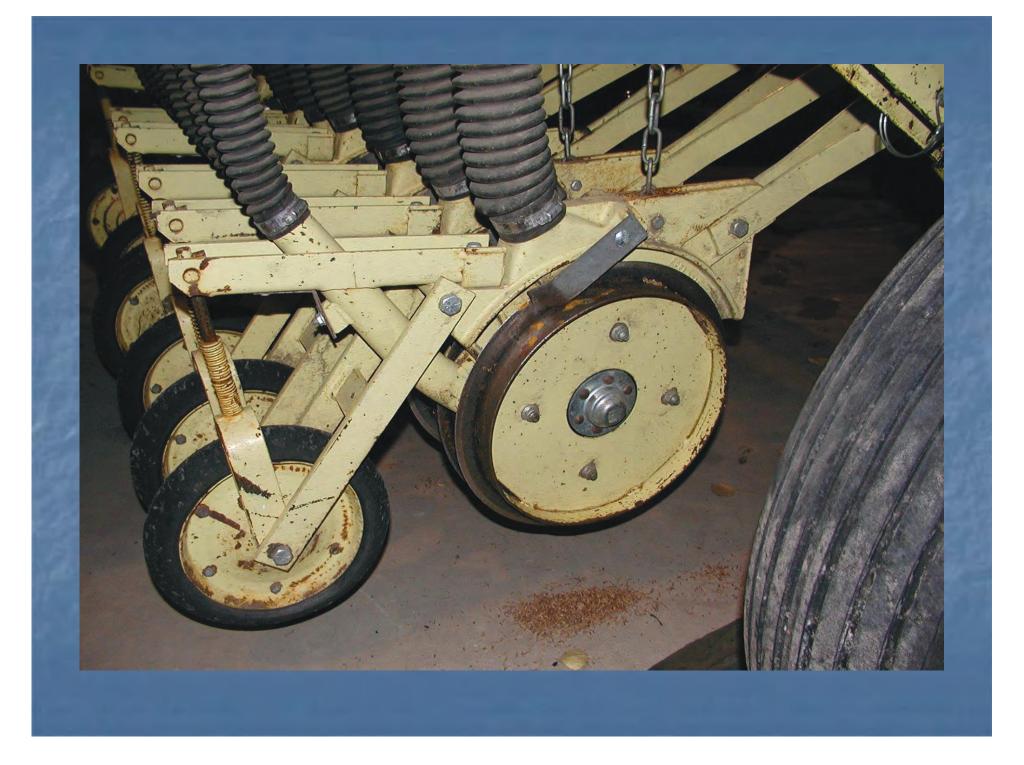
















www.weather.gov.safety.thunderstorm

#### **Hydro Seeding/Mulching**

- Hydro mulch can suppress plant growth if seed is incorporated into the soil below the mulch
- Suppression of growth through light reduction and reflection often reduces soil temperature
- Germination within a mulch can dry out seed or fail to root into the soil effectively especially in slow growing native species



Where *TO* Use Hydro Mulches For Native Species:

- Steep slopes where there is significant risk of erosion
- Along river banks or ditches
- where high water flows expected
- Where wind erosion is severe
- In poor soils where other soil amendments are added that need protection

Where *NOT* to Use Hydro Mulches For Native Species:

- Level areas
- Most slopes unless severe erosion risk
- Most upland areas



### **Erosion Control Matting**

- Use instead of hydro mulching
- Only where severe erosion risk occurs
- Establishment suppression is possible
- Thicker weave = poorer native seed germination

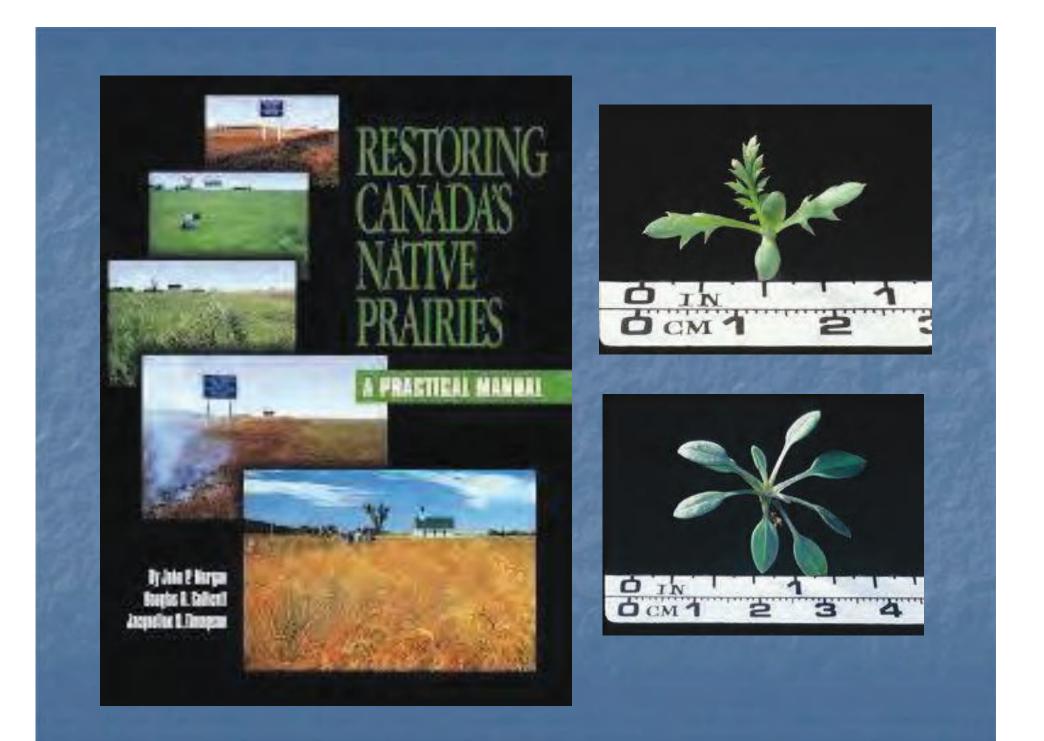
#### Photograph Site Chronology



**Bio-degradable Erosion Control** 







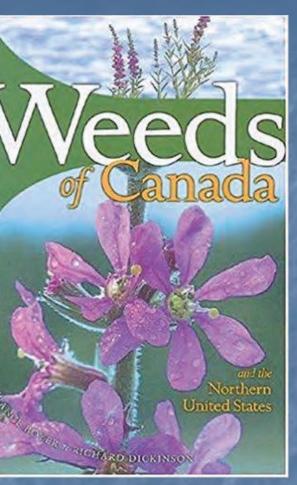
# Alberta Invasive Plant Identification GUIDDE

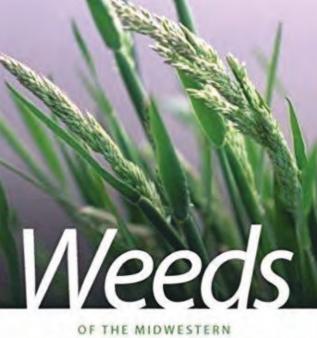
Prohibited Noxious and Noxious

Central Region Seedling ID Guide for Native Prairie Plants

Common Mullein







OF THE MIDWESTERN UNITED STATES & CENTRAL CANADA

Edited by Charles T. Bryson and Michael S. Defelice



# Enbridge Inc. Oak Lake MB

KUBOTA 12350



ENGRIDER







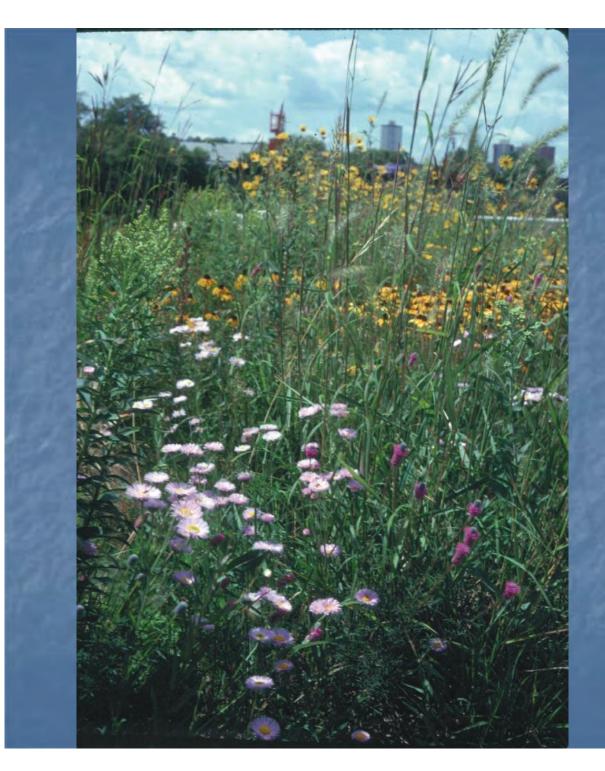


The Forks Tall Grass Prairie Reclamation Winnipeg, MB Year 1 - 1989

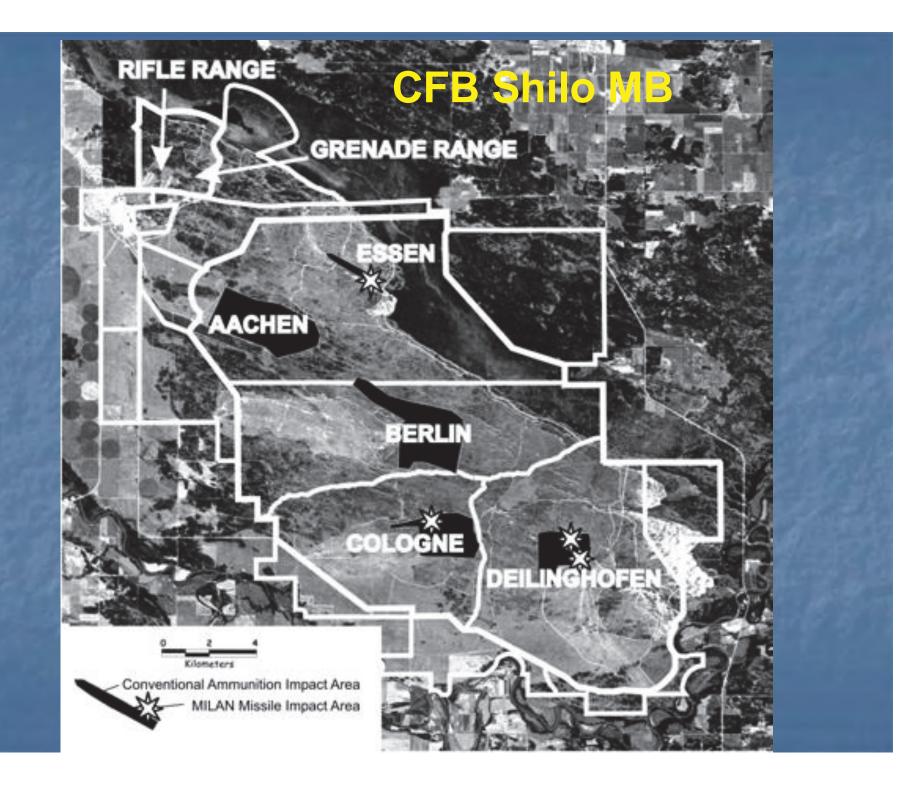
The Forks planters







The Forks Winnipeg, MB 2019 30 Years Later



# Home of the 1<sup>st</sup> RCHA Regiment

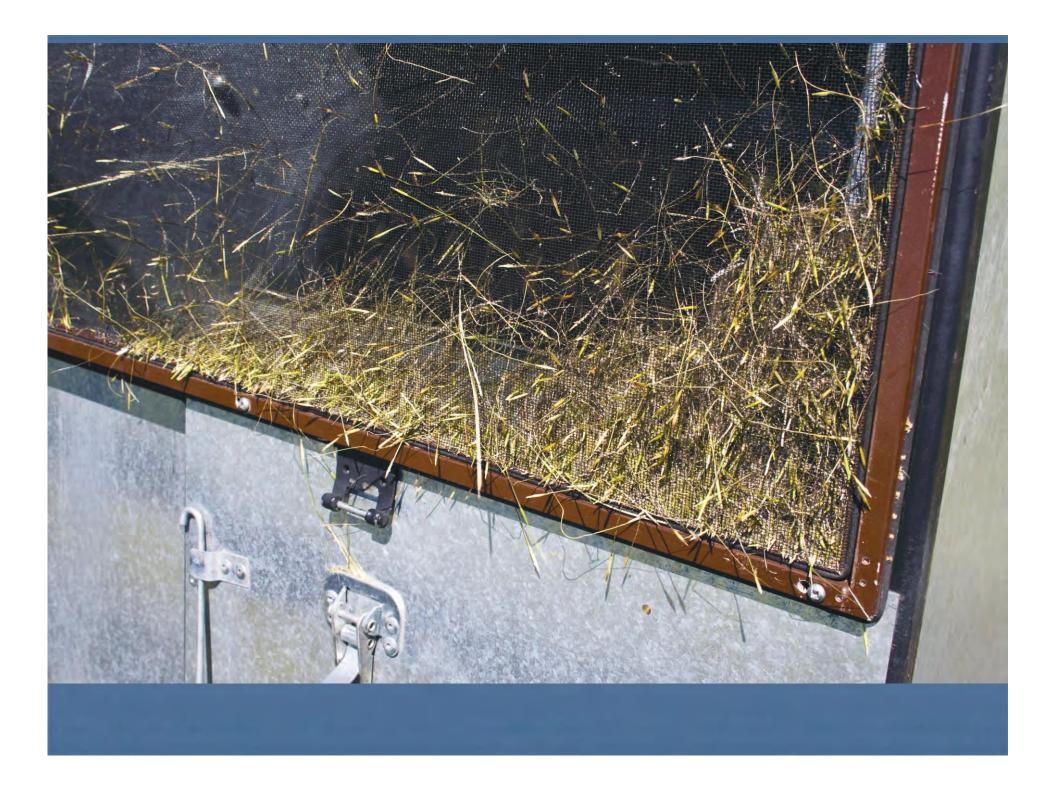
### & Germany Army Tank Corps 1975-2001



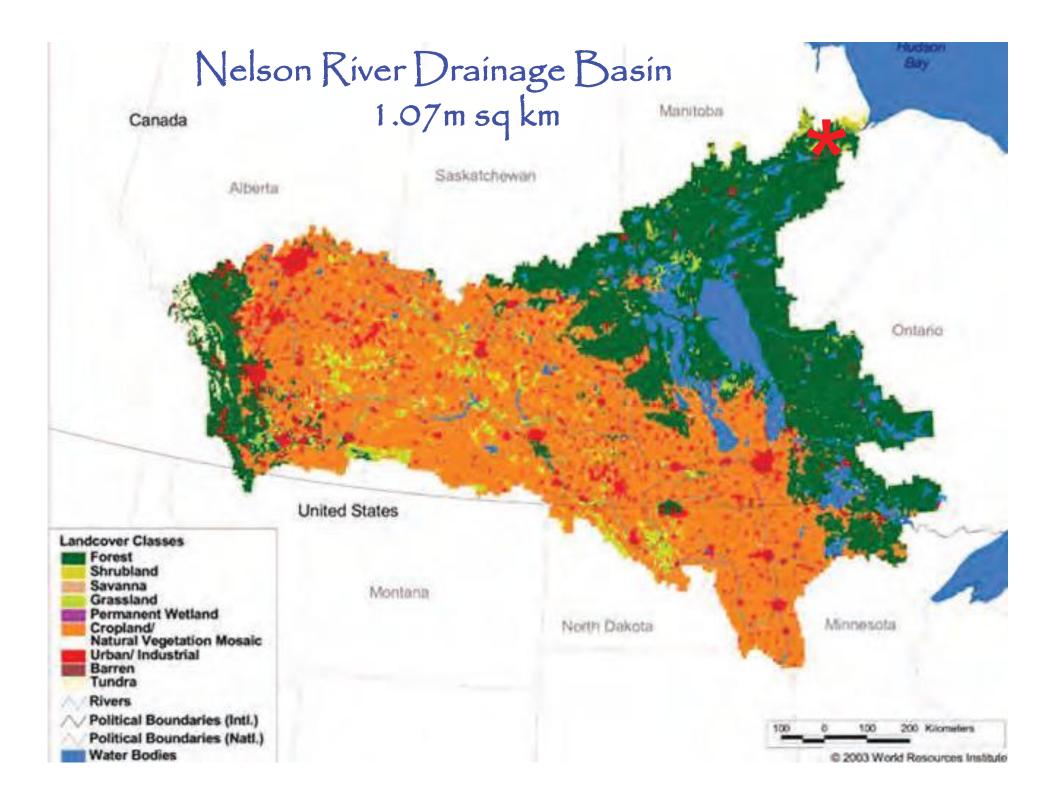


## Alberta Conservation Association Sage Grouse Habitat Restoration Manyberries, AB











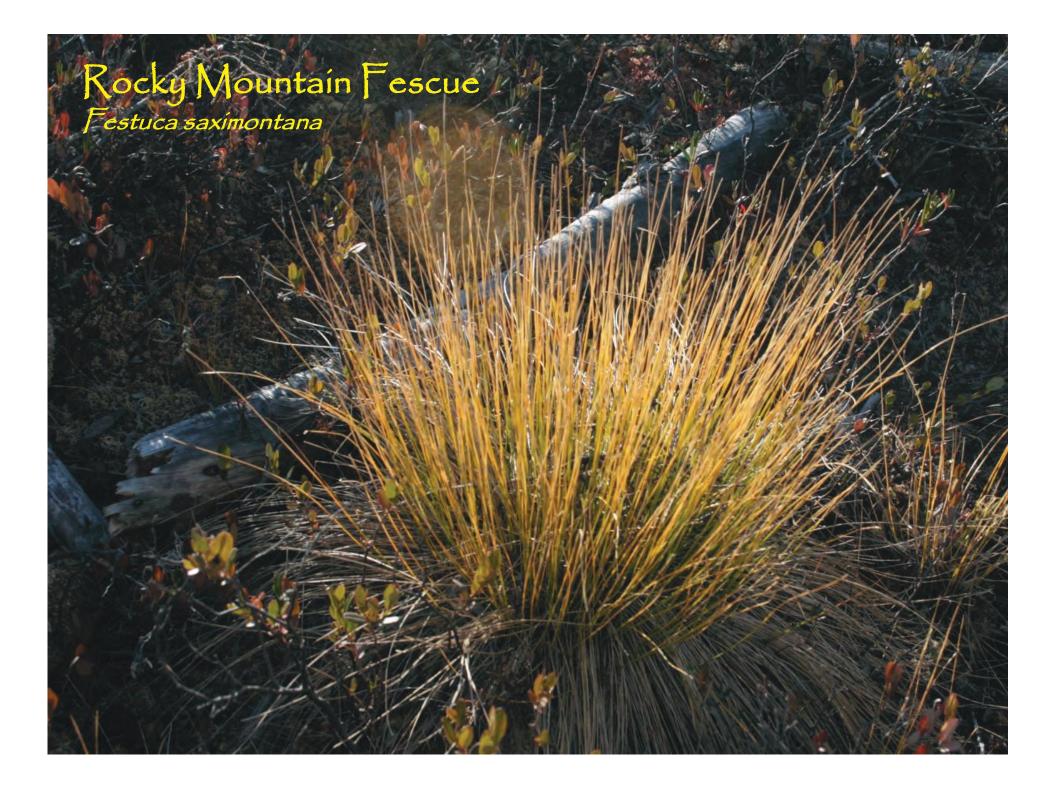


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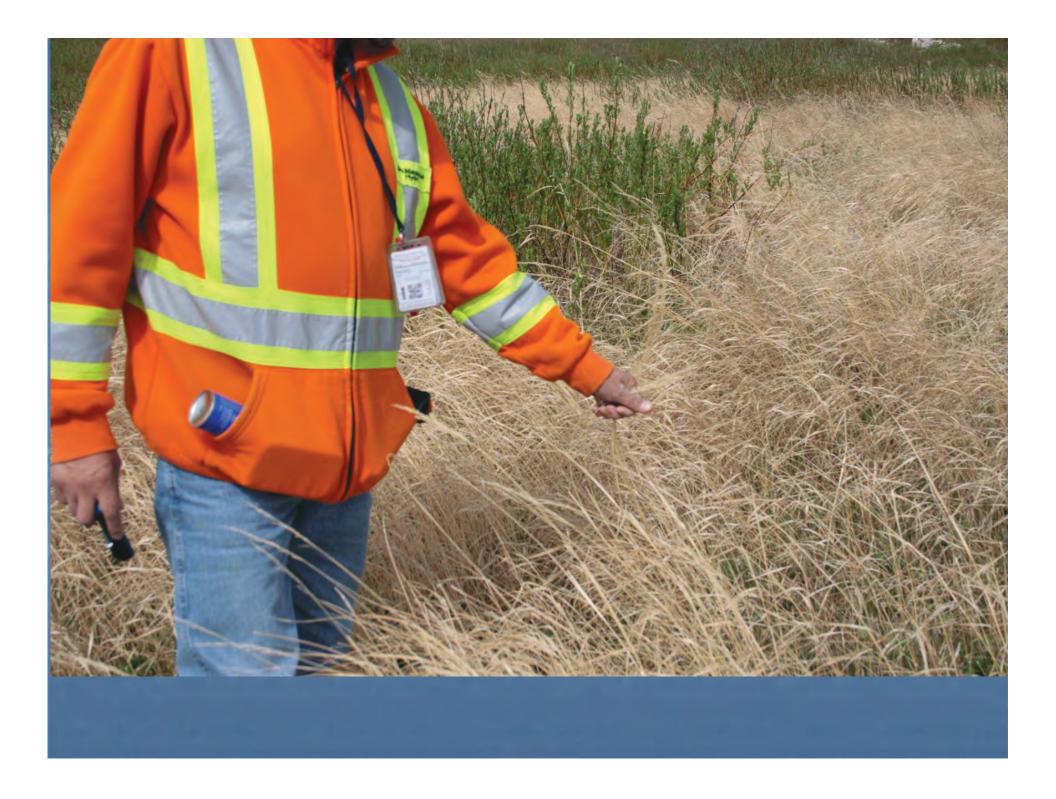
## Northern Bog Laurel Kalmia polifolia

all\_ungwort Mertensia paniculata





















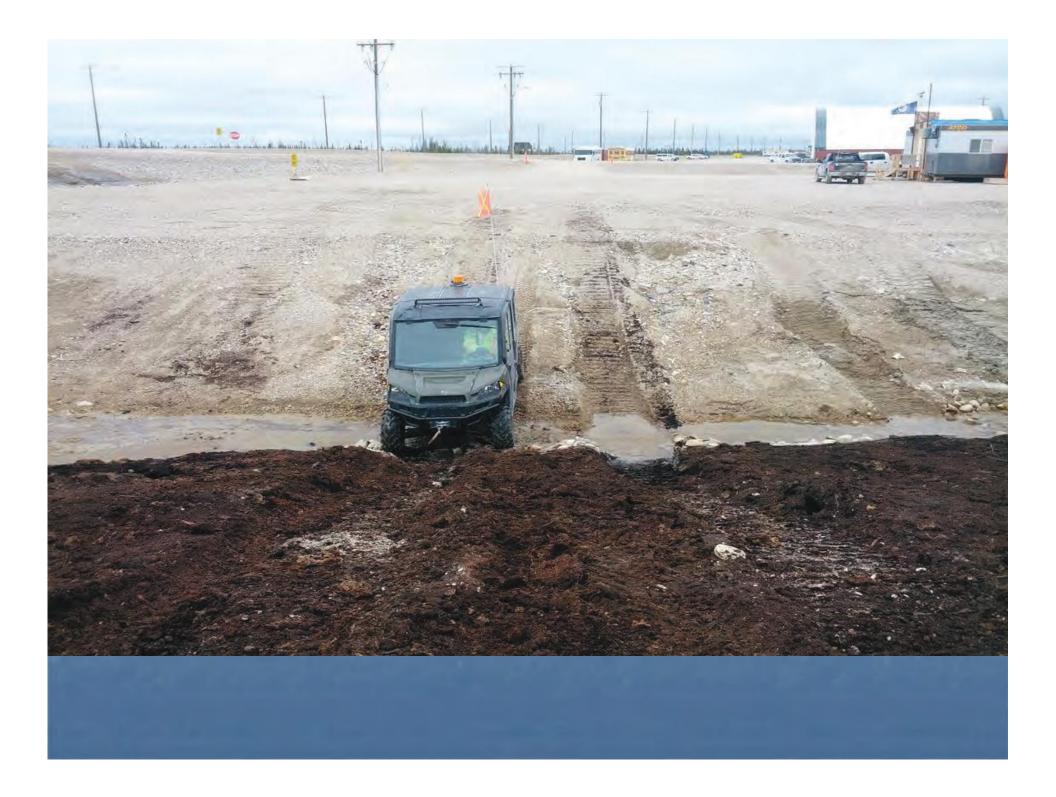










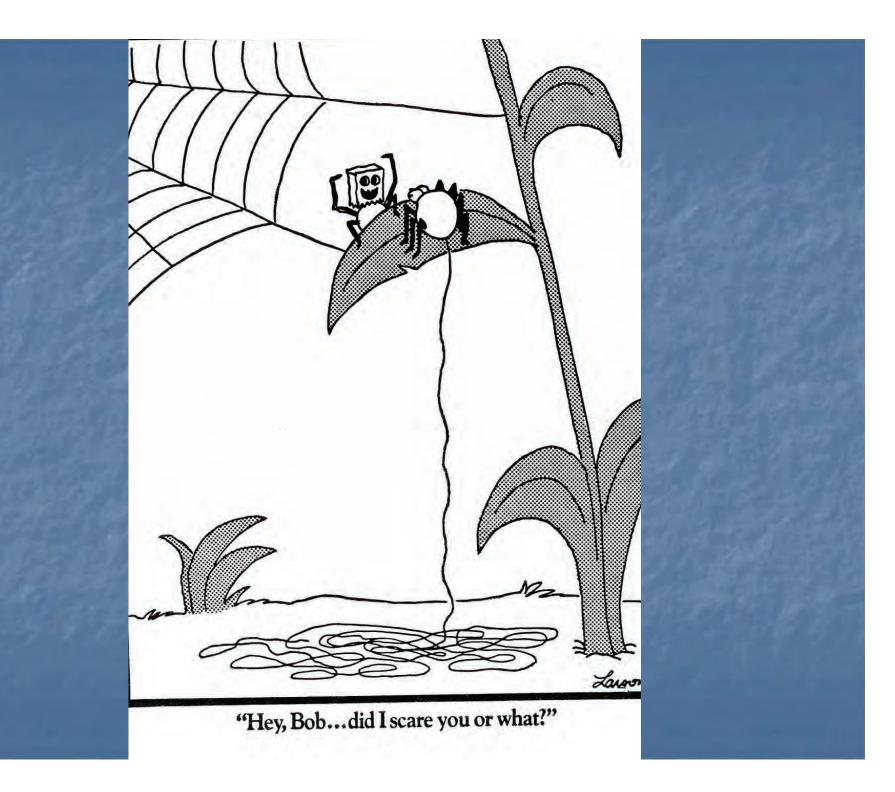




"You know - I think we're going a bit too deep with this native grass seed thing, Dave"

DEERE

ght, Ni



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