



Outline



- What is Certified Seed?
- What are your forage needs.
- Do you know what you are getting?
- New traits.
- Current Breeding Efforts
- Can you justify the added cost?

Production of Certified Alfalfa Seed

- Foundation or breeder seed is planted
- No alfalfa on the field for the previous two years.
- Must be 164 feet isolation from other alfalfa plants.
- You can harvest Certified seed for 8 years
- The field must be inspected by CFIA
 - This is a cost to the producer

Production of Certified Alfalfa Seed



- CFIA measures
 - isolation.
 - weeds present-noxious and inseparable
 - other crop present
 - Off-types present.
- If everything passes, then an orange Crop Certificate is issued.

CANADIAN
SEED GROWERS'
ASSOCIATION



ASSOCIATION CANADIENNE
DES PRODUCTEURS
DE SEMENCES

BOX 8455, OTTAWA, ONTARIO K1G 3T1 (613) 236-0497, FAX (613) 563-7855 E-MAIL: seeds@seedgrowers.ca

CROP CERTIFICATE

06-7041555-401

CERTIFICAT DE RECOLTE

ASSIGNED TO:

0116

AGRICORE UNITED
KEVIN DANIELS & RICK LOVE
710 - 48TH ST. E.
SASKATOON, SASKATCHEWAN S7K 5B4

GROWN BY:

7041555

HOLINATY, ERNEST GEORGE
BOX 715
PORCUPINE PLAIN, SASKATCHEWAN S0E 1H0

2006

CROP SEASON - SAISON DE LA RÉCOLTE

16/08/2006

DATE ISSUED - DATE EMIS

THIS CERTIFIES THAT THE FOLLOWING CROPS HAVE MET THE REQUIREMENTS OF THE CANADIAN SEED GROWERS' ASSOCIATION. FOR VARIETAL PURITY AND CROP STANDARD.
CECI CERTIFIE QUE LES RECOLTES SUIVANTES ONT ÉTÉ PRODUITES CONFORMÉMENT AUX EXIGENCES DE L'ASSOCIATION CANADIENNE DES PRODUCTEURS DE SEMENCES
CONCERNANT LA PURETÉ DE LA VARIÉTÉ ET LES NORMES DE RÉCOLTE.

SPREDOR 4 ALFALFA

VARIETY - VARIÉTÉ

KIND - ESPÈCE

CERTIFIED : CERTIFIÉE

STATUS - CLASSEMENT

FIELD NUMBER N° du Champ	AREA Superficie	CROP REPORT SEQ # # Séq. Rapport d'inspection	FIELD NUMBER N° du Champ	AREA Superficie	CROP REPORT SEQ # # Séq. Rapport d'inspection
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6	70.00	17210			
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70.00 Acres 28.33 Hectares

Certificate invalid unless this area is completed Le certificat est non valide à moins que cette section soit remplie

I hereby declare that the total quantity of seed harvested from this crop before cleaning was:

Je déclare par la présente que la quantité totale de semences récoltées provenant de cette culture avant le nettoyage était:

Bradley Klumbert Signature of grower (or assignee if covered by separate declaration from grower) *13960* Kilogram
Signature du producteur (ou du cessionnaire si couvert par une déclaration séparée du producteur) Kilogram

The grower named on this certificate has been accepted as a regular member in accordance with the Bylaws of the Canadian Seed Growers' Association.

Le nom du producteur de ce certificat a été accepté comme membre régulier conformément aux règlements de l'Association Canadienne des Producteurs de Semences.

Dale Adolphe
EXECUTIVE DIRECTOR - DIRECTEUR EXÉCUTIF

Production of Certified Alfalfa Seed

- Combines should be cleaned out
- The seed grower is taking on certain liabilities.
- All seed growers must protect themselves from contamination issues with other varieties.

Production of Certified Alfalfa Seed

- Seed is tested for purity and germination
- Seed must be cleaned at an accredited facility.
- Certified Seed must meet higher standards than Common seed.

Seed Quality Standards

	Max. No/25g			Max. No	Max. No
	Primary Noxious	Secondary Noxious	Total Weeds	Weed Seeds per lb	New Weed Seeds per ac/10 pound seeding rate
Certified #1	0	5	50	907	9074
Common #1	0	5	75	1361	13611

Certified Seed



- Has a paper trail
- Steps are taken to protect genetic purity
- Higher purity standards

What are your needs?



- You know what you need from your alfalfa!
- 1,2,3,4 cuts
- 4,5,6,7, 12 year old stand
- Dairy hay or beef quality
- Grazing or haying

You know what you need!

■ Who wants a solid 3 cut alfalfa?



You know what you need!



- Who is seeding down a tough piece of dirt, therefore wants this alfalfa stand to last as long as possible?

You know what you need!

- Who wants Dairy quality hay, and wants the stand to last at least 5 years?



Do you know what you are getting?



- Common seed could be anything!
- It could have come from a seed multiplication field of a European variety...
- It could be Rangeland
- It could be a woody, indigestible variety.....



- Lets look at a different example

- I'm a Truck Salesman



BRADLEY'S AUTO DEALS!

Bradley's Auto Deals



- Customer is a Cattle farmer
- Needs a truck
- Needs a fifth wheel to haul a cattle trailer
- Need torque and power
- Prefers a diesel

Bradley's Auto Deals

■ Here is the truck I sold him.....



Bradley's Auto Deals

- This was his expectation for an engine...



Chevrolet 5.7L

Bradley's Auto Deals

- But he should have looked under the hood!



Seeds are the same.

- The paint job doesn't indicate the HP.



Open the Hood!

- You need to know what is inside that seed to be compared with the results.



Dairy quality



3 cuts




Long lived





■ Make sure you get what you

NEED!

- 
- GRASS issues that can affect your farm!
 - Buyer Beware!



■ Tall Fescue

- Excellent early and late season grazing
- Waxy leaf holds quality through fall frosts
- Tolerates some poor drainage
- Great regrowth
- Great yields in hay

- But.....


Do you know what you are getting?

■ Tall fescue-issuse endophytes

- Endophytes are seed borne, and varietal.
- They increase plant persistence, but....
- Cattle consuming tall fescue infected with the endophyte may succumb to three major disorders:
 - l 1)Fescue foot, 2)bovine fat necrosis 3)fescue toxicosis

Fescue Foot



- 
- We don't want those problems..
 - You must be sure you have a variety that is bred to be endophyte free!
 - Buy **certified seed** of a variety that is known to be endophyte free.

Do you know what you are getting?

- Smooth brome is an aggressively creeping grass with a great fit for making hay.

- .



- Meadow brome is a bunch type grass best suited for pastures.



- Accredited seed labs cannot necessarily tell them apart in mixtures!
- Buying Certified seed is the only way to be sure you are getting the right genetics.



Do you know what you are getting?

- Westerwold annual ryegrass heads out in the year of establishment.
- Italian ryegrass will not.
- Buying Certified seed will get you the right trait that works for you.



Certified Seed Re-Cap

- Has a paper trail
- Steps are taken to protect genetic purity
- Higher purity standards
- Has a variety Name on the tag
- That variety has known traits.

Do you know what you are getting?

- If you buy common seed, you are just gambling with your seed.....



Gambling....

- You could go to E-Bay and buy a cat, and end up with this:



Or.....this is still a cat.....



New Seed Technology



- New varieties are needed to keep ahead of diseases, pests, and to increase yields.

New Traits




- Alfalfa breeders are scrambling to make alfalfa better.
- Traffic Tolerant™
- Stand Fast™ technology
- Hybrids
- Low Lignin Alfalfa
- LIRD-Low initial rate of Digestion

New Traits



- Disease Resistance
- Pest resistance
- Salt tolerant alfalfa
- Delayed leaf senescence
- Reduction of non-productive responses to sub-lethal stresses
- Roundup Ready Alfalfa

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- Most of this work is being funded by the private industry.
 - The government doesn't have the purse for all this research anymore.
 - Royalties, paid through the sale of certified seed are the only way the private industry can justify doing this research.
 - We all gain from this research.

Can you justify the extra cost?

- What is the value of fewer weed seeds?
- What is the value of having an alfalfa that does what you want it to do?
- What is the value of yield? Or quality?
- \$1.00/lb more for seed=\$10/acre
- Over five years that is \$2.00/acre
- \$0.03/lb hay price=67 lbs/acre to pay for seed.

Summary

- When you buy Certified Seed you are buying a known trait, that is genetically pure.
- You know what you need from your forage, make sure you get it by selecting the right variety!
- Improvements in varieties are constantly being made, but money for breeding is needed.
- It doesn't take a lot of extra hay to pay for the increase cost of seed.