



Peace Region Turf & Forage Seed Industry

2012 Research & Extension Activities

Peace Region Forage Seed Association

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*The vision is to improve
the quality, consistency and profitability
of the turf and forage seed industry
in the Peace River Region.*



Bromegrass Variety Trials in Fort St. John, BC in 2012

PRFSA Contact Information

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BC Peace River Grain Industry Development Council

Barry Follensbee, Chair
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Research Activities of PRFSA in 2012

1. Agronomy, Crop Rotation & Establishment Trials:

Effect of Headline on Creeping Red Fescue Yields

Contacts: Yoder

Year 2 of 3.

Establishing Creeping Red Fescue with Winter Wheat as a Cover

Crop Contacts: Yoder/ Azooz/ AAFC

Year 3 of 3.

Nitrogen Fertility Trials on Creeping Red Fescue

Contacts: Yoder/ Azooz/ AAFC

Year 1 of 2.

2. Forage Seed Variety Trials:

Coordinating Western Canadian Grass Seed Testing Program

Coordinating New Entries for Peace Grass Seed Cultivar Trials;

Compiling Data & Report for 3 Research Sites in WGST; &

Managing 2 Peace Research Sites at Beaverlodge & FSJ

Contacts: Burton/ Azooz

Year 5 of 6.

3. Weed Control & Herbicide Tolerance Trials:

Herbicide Tolerance Trials on Seedling & Established Grasses

Contacts: Yoder/ Azooz/ AAFC

Year 4 of 4.

Tolerance of Seedling Grasses / Legumes to Pre-seeding / In-crop

Herbicides Contacts: Yoder/ Azooz/ AAFC

Year 4 of 4.

Control of Narrowleaf Hawksbeard in Creeping Red Fescue

Contacts: Yoder

Year 3 of 3.

Biological Control of Ox-Eye Daisy in Forages

Contacts: Yoder/ Clarke/ Otani

Year 1 of 3.

4. Herbicide Minor Use Registration Trials:

Compiling data of herbicide tolerance trials from several site years & submitting to Pest Management Regulatory Agency (PMRA) in Ottawa.

Membership in Minor Use Consortium.

Representing PRFSA at minor use priority setting meetings in Ottawa (*in 2012 Calvin Yoder & Tobin Dirks attended*).

15 successful Minor Use Registrations in the last 6 years as a direct result of this collaborative work.

Example of Recent Minor Use Registrations: **Basagram** on established red clover for seed (2011) & on established alsike clover for seed (2012).

3 more current submissions

5. Insect & Disease Trials:

Case Bearer Insect Pest Management in Red Clover Fields

Contacts: Otani/ AAFC

Year 2 of 3.

Pheromone Trials

Contacts: Evenden/ Boyd/ Univ. of Alberta

Year 2 of 3.

6. Revegetating With Forage & Native Seed Study:

Revegetating Sites Disturbed by Oil & Gas Activities

Contacts: Wilson/ Robinson/ Kerschbaumer

Year 1 of 3.



Ted Kabzems hand weeding legume demo at Fort St. John research site.

Research results are:

- * presented at seminars
- * shared at biannual ag industry update meetings like the one in Rycroft, AB every second winter
- * shared during tours
- * summarized in articles in the Forage Seed News magazine
- * compiled into annual updates like the Herbicide Tolerance publication
- * past and current research compiled into publications like the newly distributed **The Seed Head** factsheets
- * available by contacting the researchers listed under each project
- * available on our website at www.peaceforageseed.ca/pages/research_projects.html

Murray Clark (in red) & Julie Robinson (in blue) & Bill Wilson hosted many field days in 2012 at research sites of the Revegetation Project.



PRFSA Extension Activities in 2012

1. Sharing information with turf and forage seed growers:

Partnering with MFSA to compile **Forage Seed News** magazine and mailing it to over 800 turf & forage seed growers/ members in the Peace Region.

Herbicide Tolerance Update 2012 mailed May; Update 2013 being compiled.

Short research updates in *the Seed Head*:

Nutrient Removal in Creeping Red Fescue Seed Crops

Nitrogen on Creeping Red Fescue: A Review of Peace Region Trials

Redesigning forage seed website, as well as adding market updates, more links, articles and publications with great industry information.

Check out our website! <http://www.peaceforageseed.ca>

2. Organizing events to share information:

Seminars in various locations in 2012:

Mar: Annual production and marketing seminars featuring Weldon Hobbs from Lethbridge & Paul Jungnitsch from Edmonton at the Dunvegan Inn in Fairview, AB.

Summer tours & field days to various forage seed growing areas. In 2012:

June: Peace growers toured Baldonnel Fort St. John areas in BC

Apr-Oct: 6 field days at variety trials and the revegetation study sites.

3. Liaison with groups & agencies outside our region:

Forage Seed Canada

Contacts: Heather Kerschbaumer, Danny Friesen

Canadian Pesticide Minor Use Registration Priority Setting Committee

Contacts: Calvin Yoder, Jennifer Otani, Tobin Dirks, H Kerschbaumer

Joint Membership with BCGPA in BC Agriculture Council

Contacts: Dave Wuthrich, Robert VanderLinden

Seeding for Reclamation & Pasture Rejuvenation

Contacts: Julie Robinson, Heather Kerschbaumer, Sandra Burton, Keith Carroll, Murray Clark, Bill Wilson

Working Groups for Crop Insurance & Wildlife Damage Compensation

AB Contacts: Cliff Mikula, Derek Dreger, Henry Dechant, R. Maisonneuve

BC Contacts: Bruno Osterwalder, Bruce Baxter, Dave Wuthrich

The Seed Head
Factsheet #1

Date:
February, 2011

"I wonder if we might be further ahead leaving the straw and nutrients on our land to improve the soil."
Reshen Coenen, Prepatous, BC

Nutrient Removal in Creeping Red Fescue Seed Crops

Introduction
Have you ever wondered how many nutrients a creeping red fescue seed crop removes from your soil? A number of years ago the Peace Region Forage Seed Association conducted a survey on the nutritional value of grass seed straw and fall re-growth for livestock feeds. The majority of the survey was conducted over a four year period from 2000 to 2004. Samples of creeping red fescue straw were taken once the straw had been baled off the field.

Table 1. Average nutrient contents of creeping red fescue seed, straw and re-growth samples collected from 2000-2004.

Plant Parts	# of samples	Nitrogen %	Phosphorus % P ₂ O ₅	Potassium % K ₂ O	Sulphur %
Seed	6	2.35	0.39	0.90	0.59
Straw	72	1.10	0.12	0.28	1.64
Regrowth	19	1.87	0.18	0.41	1.80

*Samples were not analyzed for sulphur. Origin data indicates grass seed straw contains 0.25% sulphur. Grass hay contains 0.25% sulphur which was used to calculate the amount of sulphur in re-growth.

Discussion of results
Using the data from Table 1 we can estimate the nutrient removal by a 500lb/ac creeping red fescue seed crop that produces 1 ton/ac of straw and 1/2 ton/ac of re-growth (Table 2). The amounts of nutrients removed from the soil will vary depending on crop yield.

Table 1 summarizes some of the data collected from the surveys.

The decision to retain straw and/or fall re-growth on the field will reduce the amounts of nutrients removed from the field. Nutrients such as nitrogen, phosphorus and sulphur in straw and re-growth which remain on the field will not be readily available to the crop the following year.

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(250) 789-6885

The Seed Head
is published by
Peace Region Forage Seed Association
more Seed Head factsheets available soon on our website
www.peaceforageseed.ca



Special guests Weldon & BJ Hobbs (above) & honouring Bernie Legault (below) during AGM at Fairview in 2012.



PRFSA Extension Events in 2013

Production & Marketing Seminar on Thur Mar 14, 2013 at North Peace Cultural Center, Fort St. John, BC

Topics include:
Market updates
Research highlights
Revegetation project
Joint AGMs

Call: Calvin at 1 780 869 3879 or Chris at 1 877 630 2198



Blair & Gordon Hill during summer tour in 2012.

**2013 Summer Tour
Thur July 4
In Beaverlodge, BC**

**Cross Commodity Field Day
Including Forage Seed Topics:**
Grass seed trials
Herbicide & weed control trials
Entomology research updates

For more information call:
Calvin at (780) 864 3879
Chris or Sandra at (877) 630 2198



PRFSA Thanks You for Your Support in 2012



Thank You to 750 Levy Paying Growers

Thank You 2012 Corporate Members

Ag Vision Seeds Ltd.
AAFC Jennifer Otani
AAFC Rahman Azooz
Beaver Plastics Ltd.
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Farm Credit Canada
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Thank You 2012 Associate Members

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James Obniawka

Nora Paulovich
Bud Ralph & Joe Ralph
Cameron Schmidt
Franz Wenger
David Wong
Calvin Yoder
Aaron Zylstra
John Zylstra

Thank You 2012 Research Partners

Agriculture & Agri-Food Canada (AAFC)
Alberta Agriculture & Rural Dev (AARD)
BC Ministry of Agriculture

BC Agriculture Environment & Wildlife Fund
(IAF/ ARDCORP)
Developing Innovative Agriculture Practices
(DIAP/ AAFC)
Dr. Maya Evenden, Bio. Sci. Dep. Univ of AB
Dr. Bruce Coleman, Univ of SK/ AAFC

Manitoba Forage Seed Association (MFSA)
Central Peace Soil Conservation Society
North Peace Applied Research Association
Smoky Applied Research Association (SARDA)
Peace River Forage Association of BC
BC Grain Producers Association (BCGPA)

Prairie Pesticide Minor Use Consortium
Dow AgroSciences Canada
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