Great Job Folks

Happy New Year folks. I hope we will see some moisture soon, that dry prairie is concerning on these all too frequent windy days. When I smell smoke in the wind it gives me all sorts of stress and I don’t even own land... This wind is a bugger, I believe you producers should be applauded for your efforts to reduce soil erosion on your land. Producers that recognize this do everything in their power to retain this vital resource. Erosion was a problem across the drier regions of southern Alberta, but with the adoption of conservation tillage and direct seeding, wind erosion is no longer a frequent occurrence in southern Alberta on dry-land fields. However, in irrigated areas, cultivation is still frequently used and on lands used for row crop production, particularly for sugar beets, potatoes and beans, great care is needed to keep wind erosion in check. Sure, it happens but when I am out on a windy day and see no erosion events in our County, I can’t help but feel a sense of pride in being able to say Lethbridge County producers are doing a heck of a job to reduce and even eliminate any erosion events. We all know that the health of our soils determines our success as producers. We meet many obstacles in our year to year operations and my goal is to try and offer information that can help you succeed with your farming operation.

In this newsletter I have included articles/announcements on clubroot, skunk and magpie trap contact information, Pesticide certificate course-open to everyone, a soil health article from the Natural Resources Conservation Service of South Dakota, a Lethbridge County Producer Funding Workshop and I have also listed some of the announcements from the Alberta Government on Environmental Stewardship News. Please remember that the only retroactive program is the FEAP Program. This means you need prior approval to receive funding for projects.

Contact Dwayne Rogness at 403-380-1598 for more information. Also, there is some Environmental Farm Plan information. Please give me a call if you want or need any more information regarding this material or anything else.

Have a great year!
Why Does it Matter?
- Clubroot is a soil-borne disease that affects all cruciferous crops and, once established, is very difficult to eradicate since the resting spores can survive in the soil for 10 to 20 years.
- Clubroot resistant canola varieties are now available, but the pool of readily available resistant genetics is limited. The pathogen has already adapted and overcome the clubroot resistance that is present in European canola varieties.
- There are no registered chemical controls for clubroot in canola.
- Clubroot is relatively new to Western Canada. In Alberta, it was first reported in canola in 2003. Subsequent surveys in 2005 to 2009 have found an increasing number of affected fields, especially around the Edmonton area. In 2009, the clubroot pathogen was reported to be present in soil samples from Saskatchewan fields but no disease has been seen yet.
- Previously, canola was thought to be only mildly susceptible to clubroot, but in 2004 forty-eight different Canadian canola varieties were found to be highly susceptible.
- Clubroot strains found in Alberta also appear to be more virulent in canola than strains from other regions of Canada.
- Yield loss. Roughly estimated, yield loss from clubroot is about half of the percentage of infected plants. A field with 50% infection will result in a 25% yield loss.

What are the Symptoms?
- Underground, Plasmodiophora brassicae infects roots, causing them to develop club-like galls that restrict the flow of nutrients and water to the upper portion of the plant.
- Above ground, plants may show symptoms of wilting, stunting, yellowing, premature ripening and seed shrivelling.
- Early season infection may result in plants that look as if they’re heat or drought stressed.
- Later season infection can make plants look as if they have sclerotinia stem rot, or even fusarium wilt.
- Clubroot favours soils that are warm (20°C to 24°C), moist, and acid (pH less than 6.5).
- Examine roots to confirm the presence of clubroot.

What is the Life Cycle?
- In the spring, resting spores in the soil react to chemical signals from canola roots and germinate, producing zoospores that “swim” through water in the soil.
- Zoospores infect root hairs or enter roots through wounds and form an amoeba-like cell that multiplies. The cells join up to form a mass, or plasmodium, of living cell material (protoplasm).
- The plasmodium divides forming secondary zoospores and releasing them into the soil.
- Secondary zoospores are able to penetrate the cortex of the root. Once there, they form a secondary plasmodium, which affects plant hormones and causes root cells to swell and form galls.
- When they are mature, the secondary plasmodia divide and form resting spores in the soil.
- The resting spores of clubroot can move to new locations when carried in infested soil by wind, water run-off and farm machinery. It can also be spread through infected transplants.

**How is it Controlled?**
- Prevention is critical when it comes to clubroot control.
- Practice strict sanitation, particularly with equipment, to minimize the spread of clubroot from infected fields to clean fields.
- Observe a minimum 4-year canola rotation
- Scout regularly – if you see wilting, stunting, yellowing or premature ripening, check roots to ascertain the cause.
- To prevent breakdown of resistance, maximize rotations as much as possible when planting resistant varieties into known infected fields.

**Soil – “Soil testing is the best preventative method available”**
- Survey results have shown that the highest incidence of clubroot occurs at the entrance to fields.
- Sample in a W-shaped pattern at entrances out to a maximum 150 feet into the field. Low-lying points within the field, homestead garden sites, and soil clumps that may have fallen off machinery are also hot-spots for possible pathogen presence.
- DO NOT sample randomly across the field.
- Clear all loose organic matter from the soil surface and collect the top 5-10 cm of the A-horizon, or less as the depth allows, without taking any of the B-horizon.
- Submit a minimum 2 cup sample of soil. Air dry and send in a Ziploc bag.

**Suspect Plants**
- Infected plants are concentrated sources of pathogen and represent a significant escalation in the amount of inoculum present in a field.
- Scout for suspect plants (planted or volunteer) and submit fresh, frozen or dried roots for testing.

If you suspect clubroot in your fields and would like to do this test on your soil or plant tissue, please call one of the following labs and they will be glad to help you;

**BioVision Sherwood Park Laboratory**
Unit 310, 280 Portage Close
Sherwood Park, AB, T8H 2R6
Phone: 1.800.952.5407

**Exova Edmonton Laboratory**
7217 Roper Road NW, Edmonton, AB T6B 3J4
(780) 438-5522

**20/20 Seed Labs**
NISKU, ALBERTA
507 – 11 Avenue
Nisku, AB T9E 7N5
Toll Free: 1-877-420-2099
Fax Toll Free: 1-888-900-1810
Present Training for
**ALBERTA FARMER PESTICIDE APPLICATOR CERTIFICATE**

Lethbridge, AB at the Hamman AG Research Farm
Tuesday, February 12th, 2019

**TUTORIAL and EXAM FOR ALBERTA FARMER PESTICIDE APPLICATOR CERTIFICATE RECERTIFICATION**

The Certificate Course is a 1 day course. Study manuals are provided in addition to instruction with lectures and Power Point presentation on the 7 modules plus the grain storage module. A proctored 2 hour 70 question exam is provided at 2:30 pm. The pest management regulatory rules are getting more stringent and are requiring that a number of pesticides can only be purchased and used by certified applicators. Companies, Manufacturers and grower organizations such as the Potato Growers Association are requiring certification in order to obtain certain pesticides and grow commodities under their contracts. We foresee that this will only continue to become more problematic for those without certificates as more Wholesalers and Retailers require this certification. We will also provide training for the Grain bin Storage with Phostoxin in the late afternoon of this day. If you already have your certificate and it is about to Expire after 5 years (all certificates issued before 2014 have now expired) then this course will provide you recertification credentials (no EXAM) for another 5 years.

The Certificate will be sent to you by Alberta Agriculture after successfully passing a closed book exam at the end of the day.

Generally all applicants pass the exam as the course stresses key exam concepts. Alberta Environment requires that the materials taught in the course be taught by an authorized trainer. Dr. Bill Hamman is a certified trainer who has been teaching pesticide application legislation, applicator and environmental safety for over 25 years.

**AGENDA and INFORMATION PAGE**

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<td>Tuesday February 12, 2019</td>
<td>8:30 arrival, coffee and introductions 9:00 am Legislation PCP and EPEA Formulations</td>
<td>Dr. Bill Hamman</td>
<td>9:00 am – 5:30pm</td>
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<td>12:00 noon- lunch provided</td>
<td>Dr. Bill Hamman</td>
<td>9:00 am – 5:30pm</td>
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<td>12:45 -2:15 Applicator and Environmental Safety and Equipment</td>
<td>Dr. Bill Hamman &amp; County Warner &amp; Gary Secrist</td>
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<td>EXAM 2:30-4:00 pm</td>
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<td>4:00 -5:00 Stored grain endorsement</td>
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**INSTRUCTOR:**
Dr. Bill Hamman, President Hamman AG Research and Senior Agri-Coach® with AgriTrend Agrology

Dr. Bill has instructed the pest application for Provincial certifications for over 25 years and is considered a top lecturer on the subject material. He is President of Hamman AG Research, a company that is well respected in the Agriculture Research Business. He instructs the Agriculture, Landscape, Seed Treating and Industrial Alberta Custom Applicator certificates with a very successful pass rate for students taking the exam. The instruction is energetic and fact filled and you will enjoy this course.

**OVERVIEW:**
Instruction will consist of classroom sessions, PowerPoint course presentation & exercises. The 70 question written exam is included with the course registration fee. Lunch is provided along with coffee and sweets.

Class will be taught at HAMMAN AG RESEARCH MEETING FACILITY. TAKE hwy # 3 west of Lethbridge, past Coalhurst and turn right at Westview road sign (Bogdan’s Dog Kennel), cross railway tracks and turn right following Twp Rd 10 for 1/2 mile and turn left into facilities at the Hamman AG Research sign. Arrive by 8:30 for coffee, snacks, introductions and to obtain registration receipts.

**PAY ONLY $100**

PLEASE PREREGISTER - FULL FEE $105 WITH GST

**REGISTRATION FEES:**
1. FARMER PESTICIDE APPLICATOR CERTIFICATE COURSE (1 Days) Includes hot lunch - with multiple choice exam at end of the day and includes manual.
   **Preregistration fee $100** ... $105 with GST

2. RECERTIFICATION ONLY
   Certificates expire after 5 years )
   **$60 No manual** ... $63.00 with GST

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** ALBERTA FARMER PESTICIDE APPLICATOR CERTIFICATE TRAINING AND EXAM OR: RECERTIFICATION**

(FOLLOW DIRECTIONS ON PAGE 4 to training facility) Lethbridge, AB at the Hamman AG Research Farm

TO REGISTER: Please send this form with payment.

TO PAY BY CHEQUE:
Please send this form and payment payable to Hamman Ag Research
# 45 240 Heritage Blvd. W.
Lethbridge, AB
T1K 8C4

TO PAY BY CREDIT CARD:
Please send this form by pdf and email (preferably) to whamman@shaw.ca

Questions on registration, please contact Dr. Bill Hamman @ (403)308-4099 or email whamman@shaw.ca

REGISTRATION INFORMATION: (PREFERABLY REGISTER THROUGH EMAIL!!)

NAME
BUSINESS NAME:

ADDRESS: CITY/PROV: POSTAL CODE:

WORK PHONE: MOBILE EMAIL:

PLEASE INDICATE WHICH REGISTRATION YOU WISH TO ATTEND!!

Tuesday, February 12 ($100 + GST).......................... $105 includes GST
I also wish to obtain the Grain Fumigation endorsement (fee included with registration)

RECERTIFICATION ONLY ($60+GST) .................$63 includes GST
Lunch provided for all attendees

METHOD OF PAYMENT: Pre-registration required by Credit card or cheque through Dr. Bill Hamman
Receipt will be supplied at the door or by email. Cheques through the mail please.
COMPLETE confidentiality will be maintained with credit card information supplied below!!

Card Number: Expiration: CSC # on back (3 digits) Signature:
Considering an improvement project on your operation?

Come learn about provincial funding programs and receive application assistance

Topics

CANADIAN AGRICULTURAL PARTNERSHIP
Environmental Stewardship and Climate Change – Producer
Farm Water Supply • Irrigation Efficiency

CLIMATE LEADERSHIP PLAN
Farm Energy and Agri-processing Program • On-Farm Solar Photovoltaics Program

ENVIRONMENTAL FARM PLAN

February 5, 2019 • 9:30-3:00PM
Alberta Agriculture Provincial Office Lethbridge Research Station – Jail Road
5403 1st Ave S. Lethbridge

AGENDA

9:30 – 12:00 Program Information
Lunch provided by Lethbridge County
12:30 - 3:00 Application Support

To register contact: Lethbridge County
(403) 732-5333

* Alberta Agriculture staff and program experts will be available to answer questions and provide individual application support *
The magpie is a bird that is seldom easy to shoot or trap. In some areas of the County it can be dangerous to shoot at the birds for fear of injury to neighbors and or harm to their property, not to mention the legal consequences of discharging a firearm. There are no control devices or chemicals registered for controlling magpies. Trapping magpies is your best control method. The Alberta Agriculture, Food and Rural Development Agri-Facts Agdex 685-3 describes how to build “An Improved Magpie Trap” on the Roping the Web website. This trap has proven to be substantially more efficient and successful than other traps because of the trap’s unique circular design.

The Lethbridge County Agriculture Service Board has magpie traps for use. The magpie traps are free to use for county residents. Agriculture Service Board (ASB) staff will deliver and pick up the traps as they become available. Please note that ASB staff will not empty the traps, the person borrowing the trap will be required to dispose of any magpies caught in the trap. The traps are for magpie control. The traps can be booked by calling the Lethbridge County ASB at (403) 732-5333.

Skunk traps are free to use for county residents. Please note that Agriculture Service Board Staff will not empty the traps, the person borrowing the trap will be required to dispose of any skunks caught in the trap. These traps are for skunk removal. The skunk traps can be booked by calling the Agriculture Service Board at (403) 732-5333.
What is the value of healthy soil?

Before a value can be estimated, we need to describe:

- **What is soil health?** Soil health is a combination of physical, chemical, and biological properties that impact the function and productivity of the soil with several of these characteristics directly impacting the economics. Soil organic matter functions and contributes to several beneficial changes in soil such as water and nutrient holding capacity, water infiltration rates, soil aggregate stability, and to an extent soil structure. Other contributing characteristics that we think we can measure in economic terms could be soil changes such as soil compaction.

By applying typical rainfall event frequencies of central South Dakota (SD), an estimate of additional infiltration can be calculated. Using an average commodity price from 2007 through 2011 for corn, soybeans, and wheat, this could equate up to $7 per acre in additional income depending on the amount of residue maintained. The majority of this benefit is gained by maintaining at least 1,000 pounds of residue on the soil surface at all times. This equates to approximately 30 percent ground cover of corn residue or 40 percent soybeans and wheat residues.

**Value of Increased Water Infiltration**

While it would be difficult to place a value on any one of these properties, it may be possible to provide an example of an estimate of two products of these soil health properties such as: the availability of water and maintenance of nutrients in the soil.

**Water available for plant growth** is the result of two functions, infiltration of precipitation and the ability of the soil to store precipitation; in other words the soil available water holding capacity. In the short-term, water infiltration (water entering the soil) can be effectively influenced by management more than the water holding capacity. By maintaining crop residues on the soil surface, studies indicate that the amount of water entering the soil can be increased up to 2.5 inches per hour.

It would appear that maintaining more than 1,000 pounds of crop residue on the soil surface has a minor benefit to crop productivity. However, the long-term impacts may be much more dramatic. One of the most beneficial soil health properties is that of soil organic matter (SOM). A typical acre of soil 6 inches in depth weighs about 1,000 tons. One percent organic matter equates to 10 tons of organic material.
Since it takes at least 10 pounds of residue to decompose to 1 pound of organic material, SOM levels under the right management conditions will increase at a very slow rate. Studies have shown that for every percent increase in SOM, an additional 16,500 gallons of water is available in the soil. Using the same commodity prices to estimate water infiltration, this would equate to an additional $13 per acre income, per percent increase in organic matter.

**Maintenance of Nutrients in the Soil**

Soil organic matter may also be a significant source of nutrients. A medium textured soil profile approximately six inches deep will weigh approximately two million pounds. At an average mineralization rate of 1.5 percent, this could account for up to 17 pounds of nitrogen and 1.75 pounds of phosphorus per percent of organic matter. At current prices of commercial fertilizer, this would amount to approximately $11 per percent of organic matter. Using 1 percent SOM as a baseline level, the total long-term value of a 1 percent increase could be estimated at $24 per acre for the nutrient value and available water holding capacity. These estimates are based on central SD with an average of 17 inches of precipitation annually. Actual results will vary based on precipitation amounts and intensity, starting soil health conditions, crop rotation, and tillage methods selected.

**What is needed to improve soil health and its value?**

**Eliminate tillage** - eliminating tillage minimizes the loss of organic matter, reduces the impact of compaction, and protects the soil surface with plant residue.

**Diversify crop rotation** – adding high residue producing crop types provides a variety of unique root structures and types of residue to the soil surface.

**Plant cover crops when possible** – cover crops provide a variety of benefits including erosion control, weed suppression, supplemental forage, reducing compaction, as well as, fertility and other soil health benefits.

**Nutrient management** – The core concepts of nutrient management (the 4 Rs) are applying the right source of plant nutrients at the right rate, at the right time, and in the right place. Managing a component of soil health comes down to the 4Rs of nutrient management, starting with annual soil testing and the other Rs will follow. The soil testing “annual checkup” will lead to maintaining soil fertility for crop production and the long-term development of soil organic matter.

**References**


USDA-NRCS. Soil Organic Matter Soil Quality Kit - Guides for Educators.

For more information, conservation technical assistance, or to learn about Soil Health Management Systems, contact your local NRCS or conservation district staff or visit [http://soils.usda.gov/](http://soils.usda.gov/) or [www.sd.nrcs.usda.gov](http://www.sd.nrcs.usda.gov).
Environmental Stewardship News

Highlighting information, projects & resources from the Environmental Stewardship Branch (ESB)

Watercourse Crossing Factsheet
Crossing streams with livestock can sometimes cause problems originating from unrestricted or improperly constructed crossings. Impacts are often localized but can impact downstream areas and persist for extended periods. There are several laws and regulations related to working in and around water. Legislation to be aware of when contemplating a livestock crossing: Federal Fisheries Act and Navigation protection Act. The description of these Acts is included in the factsheet.

Go on the internet and type in “How To Get Livestock Across a Creek—Watercourse Crossing”, this is the factsheet, it shares known options in modifying or improving livestock watercourse crossing sites. This factsheet also highlights how to limit the impacts and steward shared resources. For more information on riparian grazing or riparian health, visit Cows and Fish or email riparian@cowsandfish.org and always feel free to call me, Dwayne Rognness 403-634-0746, we have decades of experience to offer. This factsheet was created in partnership with Cows & Fish and the Canadian Agricultural Partnership (CAP).

Check Out the ManureTracker App!
The new ManureTracker app was designed to provide farmers, custom manure applicators and their employees with a digital way to keep manure records. As an extra bonus, the app provides a common place for notes, setback details, soil records and manure tests. Below are a few quick tips to get you started with ManureTracker (be it online with your computer or on your smartphone with the app):

- Your online ManureTracker account is connected to your app, so use what works best for you!
- Download the app through iTunes or Google Play.
- Add more detailed information and/or print reports by visiting www.manuretracker.ca.
- Only one password is needed to access your account by using your current Facebook, Google or Microsoft profile.
- Create your ManureTracker profile with an email that you access regularly.
- Allow notifications to get important reminders and alerts for manure applications, incorporation, soil tests, to-do’s and most importantly, for account set-up.
- Select either a “Farmer” or “Custom Applicator” for your Company Type.
- Note: “Custom Applicator” can only receive requests from “Farmers” for manure application. The “Farmer” account includes more details for fields, farm and application records and the ability to send custom applicator and farm transfer requests.
- Create your farm profile by entering information for your fields, manure storage and production, recent soil or manure tests and manure spreading records.
- Print reports for production, application and/or transfer records on www.manuretracker.ca.
- Need help with the app?
  Contact hello@manuretracker.ca.
Renewable Energy - Landowner Factsheet

The Reducing The Renewable Energy Footprint On Your Native Grasslands (type this title in on the internet and the pdf factsheet will come up) factsheet was collectively developed by Prairie Conservation Forum board members and contractor Carly King. This factsheet addresses the need identified by landowners on the board for further information regarding renewable energy and native prairie conservation. It also includes other helpful information on working with renewable energy developers and reducing footprints on native grasslands.

CAP and Other Program Summaries

Below are some program summaries for the Canadian Agricultural Partnership (CAP) and other Alberta Agriculture and Forestry (AF) programs.

Environmental Sustainability and Climate Change Theme

Environmental Sustainability and Climate Change - Producer Program

The purpose of the Environmental Stewardship and Climate Change - Producer Program is to support producers in reducing negative impacts on the environment while enhancing sustainable production, managing climate change and increasing profitability in the agriculture sector. Upcoming intake dates can be found on the CAP website https://cap.alberta.ca/CAP/program/STEW_PROD, type this into the internet and you will get all the details. It is important to note that a valid Environmental Farm Plan (EFP) is a prerequisite to the program and an EFP completed before 2008 will not be considered valid.

Other Programs

On-Farm Solar Photovoltaic (OFSVP) Program

This program provides funding towards solar photovoltaics on Alberta farms. This enables producers to conserve non-renewable fossil fuels and reduce carbon emissions, ultimately reducing the environmental footprint of Alberta's agriculture industry. For more information, click here to view the poster, visit www.agriculture.alberta.ca/solar or email the program at af.farmsolarpyprogram@gov.ab.ca.

I continue to assist producers with funding programs. Please let me know if you need some help with applications or just to talk about potential projects.

Please remember that the only retroactive program is the FEAP Program. This means you need prior approval to receive funding for projects.

Dwayne Rogness 403-380-1598
What is an EFP?
The Alberta Environmental Farm Plan (EFP) is a whole farm environmental risk assessment tool.
• An EFP is completely voluntary.
• Producers complete their EFP with the help of a trained EFP technician.
• Producers can now complete their workbook online.
• Completing an EFP is FREE!
• All of your information is kept confidential.
• Depending on your farm, a workbook can be completed in 1 - 2 days.

Reasons to Complete an EFP:
• Creating awareness and assessing environmental risks in your operation.
• Essential to the sustainable production of crops and livestock.
• Increase efficiencies and reduce production costs.
• Become eligible for funding under the Environmental Sustainability and Climate Change programs of the Canadian Agriculture Partnership (previously Growing Forward 2).
• Key for marketing and sustainable sourcing requirements and programs.

Do EFPs expire?
• Yes. Effective April 1, 2018, EFP, you will need an EFP certificate dated within the last 10 years to be eligible for cost-share funding.
• We encourage you to update your EFP online. Completing an EFP online makes future renewals simpler and easier. Data entered into your account will be saved, and will not have to be re-entered for the next renewal.
• If you previously completed a paper workbook, use it as a reference when you use the online tool.

We did an Environmental Farm plan when they first came out, and when we make ranch changes today, we still go back and reference that workbook.
- SEAN MCGRATH, VERMILLION FARMER.

We sell into a global marketplace and those companies demand (an environmental) commitment.
- TERENCE HOCHSTEIN, POTATO GROWERS OF ALBERTA

CONTACT US
ADDRESS
www.albertaEFP.com
or call Dwayne Rogness at 403-380-1598
EMAIL
inquiries@albertaEFP.com
NUMBER
780.612.9712
TWITTER/FACEBOOK
@AlbertaEFP
facebook.com/AlbertaEFP/