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Welcome to ON Organic

Evan Elford, New Crop Development Specialist, OMAF & MRA

October is upon us and as the harvest season continues, some questions may come to mind regarding organic production standards. The Organic Standards Interpretation Committee accepts questions for interpretation related to the Canada Organic Standard that your certification body is unable to provide. Submission guidelines are available on the Organic Federation of Canada (OFC)'s website at www.organicfederation.ca. Additionally, the OFC's current comment period for proposed answers to questions related to the national standards for organic agriculture is open until October 28, 2013. Please review the suggested answers on the OFC website and provide comments by the October 28 deadline.

Also, a reminder that the Ecological Farmers of Ontario (EFAO) will be having their Annual General Meeting on November 23, 2013 at the Marden Community Centre in Guelph. For more information please visit the EFAO website at www.efao.ca or refer to the events section of this newsletter.

As always we welcome your comments and any suggestions for topics in the newsletter. Thank you once again to our contributing authors and to EFAO, OCO and others who pass along our newsletter on a regular basis.

Subscription to this newsletter is easy and free. For details go to the webpage:

<http://www.omafra.gov.on.ca/english/subscribe/index.html#organic>

The newsletter is also posted on the OMAF and MRA website at:

<http://www.omafra.gov.on.ca/english/crops/organic/news/news-organic.html>

The French version of these newsletters is available at:

<http://www.omafra.gov.on.ca/french/crops/organic/news/news-organic.html>

The OMAF and MRA Organic pages are linked from:

<http://www.ontario.ca/organic> and <http://www.ontario.ca/biologique>

The ON Organic Team

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Melanie Filotas - OMAF and MRA, IPM Specialist for Specialty Crops

Jacque De Fields – OMAF and MRA, Client Service Representative

Julie Gamache – OMAF and MRA, Client Service Representative

Keen-what? Quinoa:

Things to consider for quinoa production

Evan Elford, New Crop Development Specialist, OMAF and MRA

2013 has been named the International Year of Quinoa (IYQ) by the Food and Agriculture Organisation of the United Nations (FAO). Quinoa (*Chenopodium quinoa* Willd.) is a specialty small grain (pseudo-grain) of Andean origin and is of increasing interest to organic producers across Ontario. The grain first appeared in health food stores a number of years ago thanks to its gluten free reputation and high protein content. It is now found in the main grocery chains across Canada and is also featured as a main ingredient for recipes by celebrity chefs and in various restaurants. During the IYQ, a number of programs and resources have been developed to celebrate the importance of the crop including the International Quinoa Research Symposium which took place in August, 2013. Various presentations from the symposium are now available on the [eOrganic website](#).

With increasing popularity of the crop, a few research projects have taken place in Ontario over the last four years to better understand the regional requirements for quinoa production in the province. Organisations such as Agriculture and Agri-Food Canada, Ontario Ministry of Agriculture and Food and Ministry of Rural Affairs, Ontario Soil and Crop Improvement Association and others have begun to develop quinoa information for Ontario growers. Although many Ontario farmers have tried growing quinoa on a small scale, there are some issues that one should be aware of when thinking about commercial production of the crop.

1. Access to bulk seed – quinoa seed is not currently available in bulk from standard seed suppliers; however, many seed houses are increasing the availability and number of quinoa varieties in small quantities across Canada and the USA. Since quinoa is predominantly self pollinated, one can bulk up seed for future crops and a larger production acreage.



Figure 1: Quinoa variety 'Brightest Brilliant' growing in Ontario demonstration trials, 2012.

Quinoa has very particular environmental requirements for seed production depending on variety and may exhibit pollen sterility at temperatures above 29°C. In order to bulk up seed of varieties that are suited to your growing region, it is important to obtain as many varieties as possible and plant them in test plots on your farm. Observe which varieties work in your region and save the seed for future plantings. Varieties that have been successful in Ontario to date include 'Brightest Brilliant' (**Figure 1**), 'Faro' and 'Temuco'.

2. Weed management – quinoa is closely related to Lamb's-quarters (*Chenopodium album* L.), a common weed in Ontario. Experiences in provincial field trials have found that Lamb's-quarters appears to be more aggressive than quinoa and weed pressure can severely impact growth of the crop. Early season weed management via inter-row cultivation or other mechanical means is important for proper quinoa growth (**Figures 2 and 3**). Cultural management options such as modified row spacings may increase competition and reduce weed pressure in the field. To date, row spacings from 50 cm to 75 cm have been used in Ontario field trials and demonstration plots. Research trials in Denmark have also utilised 20 cm row spacings. In the Ontario field trials, 50 cm row spacings appeared to provide more competition against weeds compared to 75 cm but the effects of narrower row spacings on weed pressure and yield were not directly assessed. Note: there are no organic or conventional herbicides (or other pest control products) registered for use on quinoa in Canada.



Figure 2: Ontario field trials, 2011 - early season weeds between rows of quinoa prior to cultivation.

Keen-what? Quinoa: Things to consider for quinoa production (Cont'd)



Figure 3: Ontario field trials, 2011 - mid-season quinoa field plots with minimal weed management.



Figure 4: Small, disk-like shape of quinoa seed (Source: shutterstock).

3. Harvest and Post-harvest processing – quinoa is a small, disk-shaped grain that can be mechanically harvested using a combine (**Figure 4**). Appropriate size screens and concaves are required to prevent loss or damage of the seed. Following harvest, quinoa must be processed to remove saponin from the seed surface before marketing to consumers. Saponin is a bitter, soapy compound produced by the plant and can be removed by a grain dehuller and washable. Some quinoa producers also use a rice polisher as a final step to ensure all saponin has been removed from the seed. If saponin remains on the seed, consumers may be put off by the bitter flavour, ultimately affecting future sales.

Some quinoa packaging suggests the consumer rinse the product before cooking to ensure all saponin has been removed prior to consumption.

Note: if the purpose of growing the crop is to increase bulk seed for future plantings, one should not process the seed in order to preserve germination potential.

These are just a few crop specific issues to be aware of when considering quinoa production in Ontario. More detailed agronomic and pest management information for quinoa is available in the OMAF and MRA Specialty Cropopportunities database at www.omafra.gov.on.ca/CropOp/en/field_grain/spec_grains/quin.html. You can also find more general information on the IYQ website at www.fao.org/quinoa-2013/en/

Cryptosporidium and Giardia: What they are and how to keep them off fresh fruit and vegetables

**Paul Bailey, Risk Identification and Management Coordinator
and Dr. Robert Blenkinsop, Food Scientist – Horticulture, OMAF and MRA**

What is Cryptosporidium?

Cryptosporidium is a single-celled parasite that causes the diarrheal disease cryptosporidiosis. The parasite may be found in soil, food, or water or on surfaces that have been contaminated with fecal matter from infected humans or animals. The parasite requires a human or animal (e.g. deer, cattle, birds, rodents) host in order to reproduce. During reproduction, *Cryptosporidium* forms infectious oocysts with tough protective coatings that allow it to survive for weeks or even months outside of a human or animal host.

While the parasite can be spread in different ways, contaminated water is the most common method of transmission. Transmission may also occur from person-to-person. The life stage of *Cryptosporidium* that causes infection is called the oocyst. Oocysts are sensitive to drying but are extremely resistant to chlorine.

What are the symptoms of cryptosporidiosis?

The most common symptom of cryptosporidiosis is watery diarrhea. Other symptoms include abdominal cramps, nausea, vomiting, dehydration and weight loss. Onset of cryptosporidiosis is generally 2 to 10 days after becoming infected with the parasite. Healthy individuals who

Cryptosporidium and Giardia: What they are and how to keep them off fresh fruit and vegetables (Con't)

become infected may not show symptoms, or may experience gastrointestinal illness. Symptoms are usually self-limiting in healthy individuals. For individuals with weakened immune systems, diarrhea and dehydration may be more severe and possibly life-threatening. Individuals may continue to excrete oocysts weeks after symptoms have subsided.

How does *Cryptosporidium* get on fresh fruits and vegetables?

Cryptosporidium is widespread in the environment. The parasite is commonly recovered from surface waters (e.g. ponds, streams, rivers, lakes) as well as mammals, birds, reptiles and amphibians.

The detection of *Cryptosporidium* on fresh produce indicates that at some point, the produce has come into contact with fecal contamination.

Transmission onto fresh produce may occur via:

- contaminated water used for irrigation or application of agricultural chemicals
- contaminated dump tank or flume water used for postharvest washing of produce
- infected workers
- run-off from improperly composted manure
- wild animals passing through or grazing in production fields
- flies that spread oocysts

How can I reduce the risk of contaminating fresh produce?

A food safety management system consisting of Good Agricultural Practices (GAPs) can help minimize the risk of contamination. This risk can be minimized through implementation of preventative practices involving:

- water quality (production and postharvest)
- worker hygiene practices and hand-washing
- management of biological soil amendments (e.g. manure, compost)
- separation of livestock and manure from produce production
- field sanitation of equipment and containers
- on-farm pest control

Cryptosporidium oocysts are not killed by sanitizer levels typically used for post-harvest rinsing of produce. The physical action of washing may remove some oocysts but will not completely eliminate them from produce surfaces.

Giardia

What is *Giardia*?

Giardia is a single-celled parasite that causes the diarrheal disease giardiasis. The parasite may be found

on surfaces or in soil, food, or water that has been contaminated with fecal matter from infected humans or animals. The parasite requires a human or animal (e.g. deer, cattle, birds, rodents) host in order to reproduce. During reproduction, *Giardia* forms infectious cysts (a protective outer shell) which allows it to survive outside a human or animal host for long periods of time and makes it tolerant to typical levels of chlorine disinfection.

While the parasite can be spread in different ways, contaminated water is the most common method of transmission. Transmission may also occur from person-to-person.

What are the symptoms of giardiasis?

Symptoms of *Giardia* infection typically include diarrhea, abdominal cramps, flatulence and may also consist of nausea, vomiting, slight fever, headache and dehydration. Symptoms of giardiasis usually begin 7 to 10 days after ingesting cysts. Illness usually lasts anywhere from 2 to 6 weeks, although in severe cases it may last longer. Healthy individuals who become infected may not show any symptoms, or may experience gastrointestinal illness. Usually symptoms are self-limiting however, in individuals with weakened immune systems, symptoms may be more severe and possibly life-threatening. Ingestion of only a few cysts may cause disease. Human carriers may excrete cysts for several months after symptoms have subsided.

How does *Giardia* get on fresh fruits and vegetables?

Giardia is widespread in the environment. The parasite is commonly recovered from surface waters (e.g. ponds, streams, rivers, lakes) as well as mammals, birds, reptiles and amphibians. The detection of *Giardia* on fresh produce indicates that at some point, the produce has come into contact with fecal contamination.

Transmission onto fresh produce may occur via:

- contaminated water used for irrigation or application of agricultural chemicals
- contaminated dump tank or flume water used for postharvest washing of produce
- infected workers
- run-off from improperly composted manure
- wild animals passing through or grazing in production fields
- flies that spread cysts

How can I reduce the risk of contaminating fresh produce?

A food safety management system consisting of Good Agricultural Practices (GAPs) can help minimize the risk of contamination. This risk can be minimized through

Cryptosporidium and Giardia: What they are and how to keep them off fresh fruit and vegetables (Con't)

implementation of preventative practices involving:

- water quality (production and postharvest)
- worker hygiene practices and hand-washing
- management of biological soil amendments (e.g. manure, compost)
- separation of livestock and manure from produce production
- field sanitation of equipment and containers
- on-farm pest control

Giardia cysts are not killed by sanitizer levels typically used for post-harvest rinsing of produce. The physical action of washing may remove some cysts but will not completely eliminate them from produce surfaces.

New OMAF and MRA Resources

Marketing Foods of Plant Origin in Ontario: A Guide to Legislative Requirements

The Ontario Ministry of Agriculture and Food and Ministry of Rural Affairs (OMAF and MRA) have developed a new online tool that helps produce growers understand the regulations and requirements to bring their foods of plant origin to market. Whether they are selling at the farm gate, to local farmers' markets or retailers, this tool, *Marketing Foods of Plant Origin in Ontario: A Guide to Legislative Requirements*, connects producers to the food safety, labelling and packaging requirements for their region.

Producers in the Northern Ontario region were facing a challenge to understanding how they could offer their locally-grown fruits, vegetables and other foods of plant origin through a variety of channels in their community. Regulations that influence the sale of these products can be from the federal or provincial government as well as the local health unit. Knowing where to go to get the right information was daunting.

The new tool allows growers to go online and answer a series of questions, the answers to which allow them to

offer their products while complying with appropriate rules and regulations.

Questions include what is being sold, if any minimal processing is required before going to market, where the items are being sold and so on.

Links to the correct information from various sources are then provided (as applicable). These links indicate the regulation that is in place, and can relate to packaging, food labelling or processing.

While initiated due to a need identified by growers in Northern Ontario, this tool is available online to all Ontario producers of foods of plant origin. To use the tool online visit ontario.ca/producesafety

Growers who do not have access to the web-version may contact the Agricultural Information Contact Centre at 1-877-424-1300 for alternate versions.

For more information about *Marketing Foods of Plant Origin in Ontario: A Guide to Legislative Requirements*, please visit ontario.ca/producesafety.

Funding Opportunities

Local Food Fund

The Local Food Fund is a three-year initiative with funding of up to \$10 million per year to support innovative local food projects that reduce barriers to regional economic development; result in sustainable regional economic development; and have a positive impact on the Ontario economy.

The Fund will support projects in four categories:

1. Regional and Local Food Networks
2. Enhanced Technologies, Capacity and/or Minor Capital
3. Research and Best Practices
4. Education, Marketing and Outreach

For more information and guidelines, please visit the OMAF and MRA website at: www.omafr.gov.on.ca/english/about/localfood.htm

Funding Opportunities (Cont'd)

Growing Forward 2 - Helping You Reach Your Goals

Growing Forward 2 (GF2) is a comprehensive federal-provincial-territorial framework aimed at encouraging innovation, competitiveness and market development in Canada's agri-food and agri-products sector. In Ontario, farm, food and bioproducts businesses, collaboration and organizations can build their own plan and select opportunities to help grow their profits, expand their markets and manage risks.

With a focus on innovation, competitiveness, and market development, Growing Forward 2 programs are designed to help the industry capitalize on opportunities and contribute to the economy. Whether you are just starting out, or have been in business a long time, Growing Forward 2 will offer practical and flexible programs that can help you reach your goals.

Organisations and Collaborations:

The Agricultural Adaptation Council (AAC) is a delivery partner for two new GF2 programs for projects involving organisations and collaborations:

1. Capacity building – funding for skills development and training, assessments, planning, etc. More details can be found in the [Capacity Building Program Guide](#).

2. Project implementation – funding for implementation of plans, applied research projects, etc. More details can be found in the [Project Implementation Program Guide](#).

For more information on these two programs, please visit the AAC website at: www.adaptcouncil.org.

Individual Producers:

The Ontario Soil and Crop Improvement Association (OSCIA) is a delivery partner for GF2 programs for projects involving individual producers.

1. Capacity building – funding for skills development and training, assessments, planning, etc. More details can be found on their [website](#). For more information on this program, please visit the OSCIA website at: www.ontariosoilcrop.org.

Other Programs and Services for Ontario Farmers:

OMAF and MRA has a full listing of programs and services for Ontario farmers on the website and in the Factsheet 'Programs and Services for Ontario Farmers'. For more information please visit: www.omafra.gov.on.ca/english/busdev/facts/progserv.htm or call the OMAF and MRA Agricultural Information Contact Centre to request a hard copy of the Factsheet at 1.877.424.1300.

Risk Management Program Update

Risk Management Program Update

Deadlines Approaching for Production Insurance Plans

Agricorp offers Production Insurance for over 90 crops. As an organic producer, you may insure your crops under any of these plans. Specialized organic plans are available for winter wheat, winter spelt, soybeans, corn, processing sweet corn, fresh market cabbage and fresh market carrots.

It's time to renew or apply for the following Production Insurance plans:

- Winter wheat (including organic winter wheat plan) - Apply by November 1.

- Organic winter spelt - Apply by November 1

- Asparagus - Apply by October 30

Fruit crops (includes grapes, apples, peaches, nectarines, pears, sweet cherries, sour cherries) – Apply by December 20.

For more information on all plans including premium rates and plan details, please visit Agricorp.com or contact us at 1-888-247-4999.

FarmStart Courses

Do you daydream of owning a farm, or are you already planning to start a farm business? FarmStart has the following course that will take you one step closer to your farming dreams!

Digging into Farming

This course is for people who have already made a commitment to start farming in the near future.

The *Digging into Farming Course* is intended for prospective farmers who are ready to stop dreaming and start developing realistic goals, clarify their farm vision, evaluate their options, and to begin identifying the resources and knowledge they already have and those they need to acquire. You will come out of the course with a greater understanding of the different assets, skills and resources needed to launch a new farm business, access to a range of available resources and learning opportunities, and a broader peer group as well as connections to local and technical coaches, mentors and advisors.

Next course offered in Guelph 2013

Date: November 3rd & December 7th – full days

Location: 10 Carden St., Guelph

Course Fee: \$200 (+HST) per person or \$360 (+HST) for two people from the same “farm business” (ex: family, business partners).

To apply: <http://www.surveygizmo.com/s3/1292473/Digging-Into-Farming-Course-Registration-June-26-2013>

For more information on FarmStart courses and

program: contact Rebecca Hodges, FarmStart Training and Resources Coordinator at

rebecca@farmstart.ca or 519.836.7046 x 105

2013 Farm Tax and Business Seminar for Professional Advisors

Dates and Locations

Kemptville

Wednesday, November 6, 2013

University of Guelph,
Kemptville Campus - Purvis Hall
830 Prescott Street

Guelph / Webinar

Friday, November 8, 2013

1 Stone Road West
Conference Centre - Rooms 1 and 2

Attend the seminar by webcast from the comfort of your office on Friday, November 8th. The cost is \$141.25 (HST included) which includes the proceedings.

London

Wednesday, November 13, 2013

Royal Canadian Legion
Victory (Ont. No. 317) Branch
311 Oakland Avenue

Stratford

Thursday, November 14, 2013

ANAF Veterans Unit 261
151 Lorne Avenue East

Hanover

Tuesday, November 19, 2013

Royal Canadian Legion Branch 130
493 - 8th Avenue

“These seminars are available in English.”

Seminar Agenda

8:45 am Continental Breakfast
9:00 am-10:00 am Farm Tax Update
10:00 a.m. BREAK
10:15 am-11:15 am Tax Implications for On-farm Value-added activities
11:30 am-12:15 pm Growing Forward 2 & Business Risk Management Programs
12:15 pm-12:30 pm Evaluation and Adjournment
(Agenda may change without notice)

Continuing Education Credits

4.0 CAFA CE Credits Available

These credits are only required if you are a member of the Canadian Association of Farm Advisors

Resource Authors and Presenters

Farm Tax Update

- Federal and provincial budget updates as they relate to the agricultural sector
- Summaries of relevant recent court cases and Canada Revenue Agency technical interpretations
- Commodity and indirect tax issues and tips as they relate to the agricultural sector
- Recent tax audit areas applicable to agri-business

Tax Implications for On-Farm Value-Added Activities

- Description of value-added activities such as processing, packaging, sorting, improving, marketing and promoting
- Description of incidental, business and farm income

Learning Opportunities (Cont'd)

- Information on how the Canada Revenue Agency has viewed on-farm, value-added income (brief case studies)

Growing Forward 2 & Business Risk Management Programs

- Overview of Growing Forward 2 (GF2)

- GF2 capacity building and implementation funding assistance
- GF2 business and leadership development, skills and training, assessments and planning

Business risk management program updates

Conferences, Meetings and Tours

South West Hort Expo 2013 (Formerly Essex County Associated Growers)

Date: November 19-20, 2013

Location: Leamington Kinsmen Recreation Complex, 249 Sherk Street, Leamington, Ontario

An organic session will take place on the morning of November 19. Organic speaker program includes:

- Dave Lockman, Pro-Cert Organic Systems Ltd.: Organic certification for fruit and vegetable producers: What to expect from your certification body
- Melanie Filotas, OMAF and MRA: Biopesticides for organic vegetable production
- Pam Fisher, OMAF and MRA: Insect challenges in organic berry production

For more information please visit the Essex County Associated Growers website at www.ecag.ca.

2013 ACORN Conference & Trade Show

Date: November 20-22, 2013

Location: Delta Beauséjour, Moncton, New Brunswick
The ACORN Conference has become noted over the past decade for its high quality educational and networking opportunities, attracting 400-500 people every year, and growing to become the largest organic agriculture event east of the Guelph Organic Conference. Over its three days, the conference offers nearly sixty workshops on all aspects of organic farm management. Please visit www.acornconference.org to register and view the full conference program.

EFAO - Annual General Meeting

Date: Saturday, November 23

Location: Marden Community Centre, Guelph, Ontario
Join us for a short business meeting, potluck lunch and keynote address from Alison Blay-Palmer, food systems researcher at Wilfred Laurier University.
Other items on the program include an information session on the new Growing Forward 2 program and updates on EFAO activities from the past year.

Look forward to seeing you there!

Let us know if you plan to attend ALL WELCOME, to **register** please visit the EFAO website at www.efao.ca.

Southwest Agriculture Conference

Date: January 7 & 8, 2014

Location: University of Guelph Ridgetown Campus, Ridgetown, Ontario

An organic session is being planned for the 2014 conference. Speaker details will be provided closer to the conference date.

For more information please visit the website at www.southwestagconference.ca

Catching the Wave - Guelph Organic Conference & Expo 2014

Date: January 30-February 4, 2014

Location: Guelph University Centre, Ontario

For more information please visit the conference website at www.guelphorganicconf.ca or call 519.824.4120 ext. 56311

Ontario Fruit and Vegetable Convention (OFVC)

Date: February 19 & 20, 2014

Location: Scotiabank Convention Centre, 6815 Stanley Avenue, Niagara Falls, Ontario

Organic session will include Eric Gallandt (University of Main): A systems perspective on weed management: cultivation, rotation, cover crops, and the weed seedbank. Jason Deveau, OMAF and MRA: Application of organic amendments and pest control products.

Melanie Filotas, OMAF and MRA: Pest control for organic horticultural production

For more information please visit the website at www.ofvc.ca

Links to ON Organic Information & Staff Contacts

OMAF and MRA Horticulture Staff

Horticulture Technology

Mike Celetti	Pathologist, Hort Crops Prgm Lead	519-824-4120, x58910
Jim Chaput	Minor Use Coordinator	519-826-3539
Hannah Fraser	Entomologist, Hort Crops Prgm Lead	905-562-1674
Kristen Obeid	Weed Mgt Hort Crops Prgm Lead	519-738-1232
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Vacant	Organic Crop Production	519-826-4587
Denise Beaton	Crop Protection Program Lead	519-826-6594
Jason Deveau	Application Technology Specialist	519-426-8934

Horticulture Crops

Marg Appleby	IPM Systems Specialist	613-475-5850
Eugenia Banks	Potato Specialist	519-826-3678
Wendy McFadden-Smith	Tender Fruit & Grape IPM Spec.	905-562-3833
Jennifer DeEll	Fresh Market Quality	519-426-1408
Pam Fisher	Berry Crop Specialist	519-426-2238
Janice LeBoeuf	Vegetable Crop Specialist	519-674-1699
Elaine Roddy	Vegetable Crop Specialist	519-674-1616
Kathryn Carter	Tender Fruit & Grape Specialist	905-562-1639
Leslie Huffman	Apple Specialist	519-738-1256
Kristy Grigg-McGuffin	Pome Fruit IPM Specialist	519-426-4322
Marion Paibomesai	Vegetable Crop Specialist	519-826-4963

Greenhouse, Agroforestry & Specialty Crops

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Melanie Filotas	Specialty Crops IPM Specialist	519-426-4434
Sean Westerveld	Ginseng & Medicinal Herbs Spec.	519-426-4323
Evan Elford	New Crop Development Specialist	519-426-4509
Wayne Brown	Greenhouse Floriculture Specialist	905-562-4141, x179
Graeme Murphy	Greenhouse Floriculture IPM Spec.	905-562-4141, x106
Shalin Khosla	Greenhouse Vegetable Specialist	519-738-1257
Gillian Ferguson	Greenhouse Vegetable IPM Spec.	519-738-1258
Pam Charbonneau	Turfgrass Specialist	519-824-4120, x52597
Jennifer Llewellyn	Nursery Crops Specialist	519-824-4120, x52671
Todd Leuty	Agroforestry Specialist	519-826-3215
Mahendra Thimmanagari	Crop Bioproducts Specialist	519-826-4593

OMAF and MRA Field Crop & Livestock Staff

Field Crops

Horst Bohner	Soybean Specialist	519-271-5858
Ian McDonald	Applied Research Coordinator	519-482-5129
Peter Johnson	Cereals Specialist	519-271-8180
Albert Tenuta	Pathologist, Field Crops Prgm Lead	519-674-1617
Tracey Baute	Entomologist, Field Crops Prgm Lead	519-674-1696
Scott Banks	Emerging Crops Specialist	613-258-8359
Gilles Quesnel	IPM Field Crop Program Lead (Bil)	613-258-8250
Bonnie Ball	Soil Fertility Specialist	519-271-9269
Adam Hayes	Soil Management Specialist	519-674-1621
Greg Stewart	Corn Industry Program Lead	519-824-4120 x54865
Michael Cowbrough	Weed Mgmt Field Crps Prgm Lead	519-824-4120 x52580
Joel Bagg	Forage Specialist	705-324-5856
Christine Brown	Nutrient Mgt Field Crops Prgm Lead	519-537-8305
Brian Hall	Canola & Edible Bean Specialist	519-271-0083

Livestock

Tom Wright	Dairy Cattle Nutritionist	519-824-4120 x56281
Jaydee Smith	Swine Prod Systems Program Lead	519-674-1542
Mario Mongeon	Livestock Specialist (Bil)	613-679-0937
Albert Dam	Poultry Specialist	519-824-4120 x54326
Brian Lang	Dairy Cattle Prod Systems	519-537-8786
Doug Richards	Swine Grower-Finisher Specialist	519-482-3133
Ron Lackey	Feed Ingredient & By-product Specialist	519-271-7407
Vacant	Sheep & Goat Specialist	613-258-8299
Brian Tapscott	Alternative Livestock Specialist	519-846-3400
Chisptoph Wand	Beef Sheep & Goat Nutrition	519-824-4120 x53670
Brian Pogue	Beef Cattle Program Lead	519-826-5106
Nancy Noecker	Beef Cow/Calf Specialist	613-258-8476
Delma Kennedy	Sheep Specialist	519-846-3398
Steve Naylor	Aquaculture Specialist	519-826-3172
Tom Hamilton	Beef Cattle Production	705-647-2087
Jack Kyle	Grazier Specialist	705-324-5855

Links to Organic Agriculture Information

Organic Council of Ontario (OCO)

<http://www.organiccouncil.ca>

Canadian Organic Growers (COG)

<http://www.cog.ca>

OMAF and MRA Organic Agriculture

<http://www.ontario.ca/organic>

Ecological Farmers of Ontario (EFO)

<http://www.efao.ca>

Organic Agricultural Centre of Canada

<http://www.oacc.info>

FarmStart www.farmstart.ca

Agricultural Information

Contact Centre:

1-877-424-1300

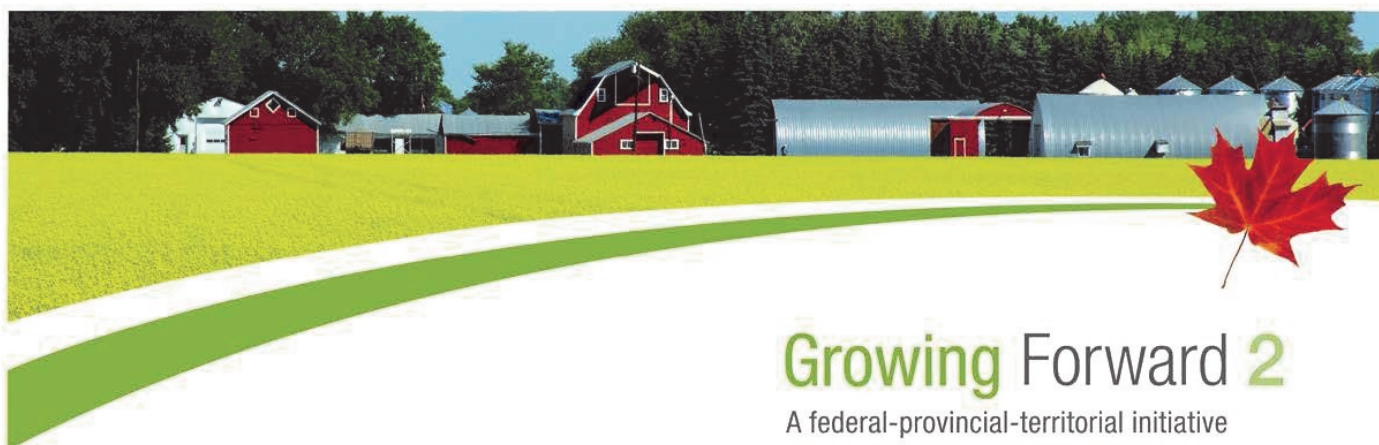
E-mail: ag.info.omafra@ontario.ca

Northern Ontario

Regional Office:

1-800-461-6132

www.ontario.ca/omafra



Growing Forward 2

A federal-provincial-territorial initiative

Food Safety Workshops for Producers

Looking to keep up to date on the latest food safety practices and find out how Growing Forward 2 funding assistance can help you reach your goals? Join us for any or all of the workshops listed below, covering a variety of important food safety topics.

All workshops are online, taken from the comfort of your home or business - all you need is an internet and phone connection.

Workshop Topic	Dates Offered	Time
Worker Practices	July 10 or October 9	12:30 – 1:30 pm
Cleaning and Sanitizing	July 24 or October 23	12:30 – 1:30 pm
Pest Control, Building Maintenance and Visitors	August 14 or November 13	12:30 – 1:30 pm
Recall	August 29 or December 11	12:30 – 1:30 pm
Soil Amendments	September 19 or December 4	12:30 – 1:30 pm
Pre Harvest Water	September 30 or November 27	12:30 – 1:15 pm
Post-Harvest Water	September 30 or November 27	1:15 – 2:00 pm

To register for our online food safety workshops, call 1-877-424-1300
More details available when you call or at www.ontario.ca/foodsafety





Growing Forward 2

A federal-provincial-territorial initiative

Food Safety Workshops for Processors

Looking to keep up to date on the latest food safety practices and find out how Growing Forward 2 funding assistance can help you reach your goals?

Join us for any or all of the workshops listed below, covering a variety of important food safety topics.

Workshop Topic	Dates Offered	Location and Time
Sanitation and Water	July 11 or November 5	London – 9am – 4pm Mississauga – 9am – 4pm
Developing a HACCP Plan	July 16 or September 25 or December 6	Mississauga – 9am – 4pm Barrie – 9am – 4pm Guelph – 9am – 4pm
Recall	August 14 or October (Date TBD) or December 13	Mississauga – 9am – 4pm London – 9am – 4pm Ottawa – 9am – 4pm
Personnel and Handling and Sanitation	August 29	Ottawa – 9am – 4pm
Preventative Maintenance and Calibration, Pest Control and Environment	September 11 or November (Date TBD)	Mississauga – 9am – 4pm London – 9am – 4pm
Personnel and Handling and Water	October 22	Sudbury – 9am – 4pm

To register, call 1-877-424-1300

More details available when you call or at www.ontario.ca/haccp, click on training

