



AQUACULTURE: Indigenous Tour

By Lynn Moreau

The Anishinabek Nation participated in the Ontario Aquaculture Association annual tour of aquaculture sites in Ontario from June 21 to 23. The tour included stops at several Indigenous and non-Indigenous owned facilities. These included:

- Fisher Harbour, Manitoulin Trout Farms: The facility is part of the Cole-Munro Foods Group, which has a processing plant in Little Current and a small hatchery in Coldwater, Ontario. Along with the partner farm, Eagle Rock, these two farms produce 3 million pounds of rainbow trout a year.
 - Odawa Island Farms: The farm is located off the shores of Sheshegwaning First Nation and is a joint venture between John O Foods, Sheshegwaning First Nation and Cedar Crest Trout Farms. The site uses custom-engineered offshore net pens that are fully submersible to withstand rough waters, currents and moving ice.
 - Buzwah Fisheries: Is an indigenous-owned rainbow trout aquaculture site founded in 1997 by Ben Kanasawe, located on Wiikwemkoong Unceded Territory. The site includes 32 net pens and is certified under the Best Aquaculture Practices,
 - The Blue Jay Creek Fish Culture Station: The fish station is used for early rearing of lake trout, splake, brook trout and walleye. The primary role of the facility is the rehabilitation of trout populations in Lake Huron and Georgian Bay.
 - Cedar Crest Trout Farms: Located near Walkerton Ontario, this family-owned second generation business operates four land-based aquaculture
- facilities, a small processing plant and a direct-to-home fish delivery service in Ontario. The facility provides the majority of juvenile trout to fill net pens in northern Ontario, and also grows and processes Artic char, coho salmon and rainbow trout. Springhills Fish, launched in 2020, delivers fish direct to home.
- Ontario Aquaculture Research Centre: Is located near Alma, Ontario, that is owned and operated by the University of Guelph. It is a research and development facility that provides up-scale systems for aquaculture researchers, and has quarantine facilities for controlling the importation of exotic species. The centre functions as a venue for training, education, equipment demonstrations and technology transfer to the private sector.
- In addition, I met with representatives from Magnetawan First Nation, Pic River First Nation, Wiikwemkoong, Bioenterprise, College Boreal, Department of Fisheries and Oceans, Waubetek and others. Thanks to the Ontario Aquaculture Association and Waubetek who were instrumental in organizing the tour!
- I also visited the Ontario Permaculture Research Institute located near Little Current, where Justin Tilson provided me a tour of their four season greenhouse, garlic gardens, hugelculture gardens and outdoor kitchen! Thanks again Justin for the tour! It was an amazing place.
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- If you would like to learning more about Aquaculture, I have resources from the aquaculture course I took several years ago at the Ontario Aquaculture Research Centre, and you can also see additional materials on our website at: www.anishinabekagriculture.ca under the aquaculture tab.*

Odawa Island Farms (Sheshegwaning First Nation)



CLIMATE CHANGE AT HOME: Compost tips

Composting is a natural way to convert food waste, garden waste and other organic materials into nutrient-rich humus to add nutrients to the soil. Composting can reduce garbage waste by approximately 30%, extending the life of your local landfill. Composting supports healthy soil by using microscopic beneficial organisms to aerate and decompose organic waste. Regular at-home composting can divert roughly 500 lbs of organic matter from your household each year! Other benefits include reducing our carbon footprint by reducing the amount of fossil fuels required to transport waste to a landfill, reducing water loss in soil by improving the soil's ability to hold water, and conditioning soil in the garden to allow you to grow more food locally.

The waste management method in my home is to dump my compost directly into a plastic Earth machine bin. My chickens enter the Earth bin and eat any scraps they like, while the

rest is allowed to decompose naturally. You can put the following ingredients into a compost bin:

Fruit, coffee grounds, tea bags, vegetables, breads and grains, nut shells, eggshells, pasta and rice, leaf and yard trimmings, cornstalks, leaves, shredded paper and paper towels, dead flowers, dead houseplants, and shredded wood can all be composted.

Things that do not belong in a compost include meat or pet droppings.

To improve the decomposition process, you need to layer green material and brown material, using approximately one part green to two parts brown. By doing this, you will achieve a proper carbon/nitrogen ratio which will support proper microbial action. Aeration and moisture improve the decomposition process. The speed at which your compost breaks down depends upon the types of materials you add, the heat and moisture that build up and the amount of aeration or mixing that you provide. You can do

as much or as little with your compost pile as you wish. You can harvest your compost once per year in the spring to provide fresh organic material to your garden, or you can leave your compost pile for several years before harvesting. To speed up your compost you can add redworms, small worms that will break down the organic material more quickly.

Did you know that composting can even be done if you are an apartment dweller? You can purchase a "worm bin" which contains small organic redworms (red wigglers) and is about the size of a blue box. You can place kitchen waste in a layer of shredded paper and allow redworms to break down the material, eventually turning it into a bin full of organic material. Composting will allow you to save on waste at home, contributing to our fight against climate change.

For more information on composting or questions, 705-497-9127, email: lynn.moreau@anishinabek.ca



ONFARM CLIMATE
ACTION FUND

Capture Carbon
NEW cost-share funding available to establish rotational grazing systems.

APPLY AUGUST 3-17

MORE INFO AT OSCIA.org



Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada



BLACK CREEK COMMUNITY FARM

FREE ADMISSION
SAT. JULY 23 1-6PM

10TH ANNIVERSARY CELEBRATION

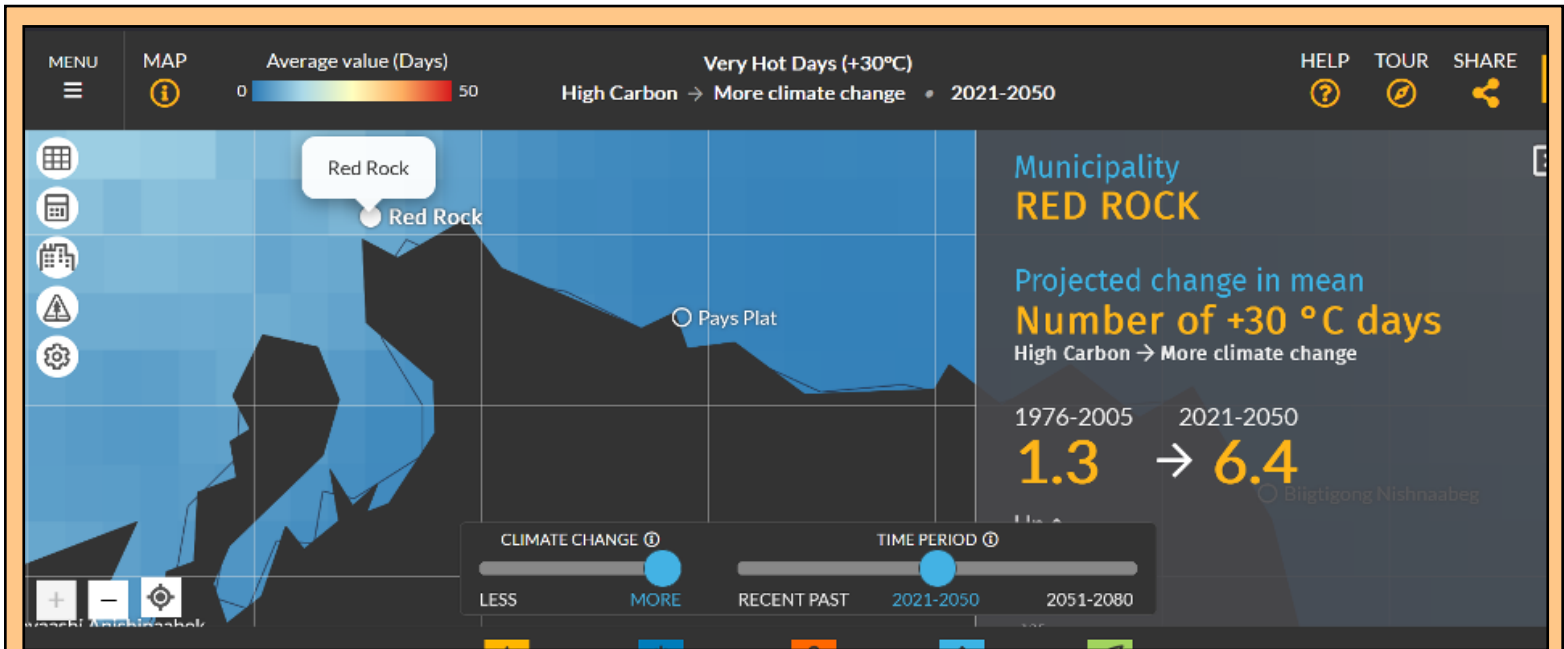
ANNUAL FARM festival

FUN ACTIVITIES FOR THE WHOLE family

Food and Drinks Vendors, Scavenger Hunts, Storytelling, Drumming Circle, Live Performances, Face Painting, and many more.

No parking available on site. Free Shuttle Pick Up Available. Please check our website for updates, www.blackcreekfarm.ca

4929 JANE STREET, TORONTO
(Jane & Steeles)



CLIMATE: Climate Atlas data tool illustrates Indigenous temperature and precipitation

By Lynn Moreau

Did you know that the Indigenous Climate Atlas provides climate data on every First Nation, Inuit and Metis community in Canada? This model was developed to predict the projected changes in temperature and precipitation as a result of climate change and for any area in Canada. It shows the projected change in the mean number of 30 degree Celsius days depending upon the extent of climate change between now

and 2080. The agriculture section of the model displays important agricultural information for your area, such as the length of the frost free season and the number of growing degree days proposed under future climate change scenarios. It also provides information on the potential changes in precipitation volumes which could be useful in predicting natural disasters. For example, heavy precipitation data is included. Heavy precipitation could create challenges

such as flash flooding and road damage. Heavy snowfall data could be used to examine the potential for roof collapses during heavy snowfall and disruptions to ground transportation.

The illustration above shows the output for Red Rock First Nation. To view the climate atlas, click on the link, then click on the compass symbol shown above, to activate the First Nation layer.

For more information visit: <https://climateatlas.ca/indigenous>

UNIVERSITY of GUELPH

WEBINAR

Enabling Adoption of Digital Technologies by Ontario Rainbow Trout Farms

Thursday, July 28th 2022

This webinar aims to explore the prospects for the Rainbow trout sector in Ontario, Canada, to adopt digital technologies. Digitalization can potentially significantly enhance productivity in the Ontario Rainbow trout sector. However, this industry is still operated manually and would benefit from modernization.

This webinar provides a chance to address what digital solutions are available to Ontario trout farms, what impediments to adoption exist, and how to create an enabling environment to accelerate the use of digital technology by rainbow trout farmers.

PANEL WITH:

1. Prof. Dominique Bureau, Department of Animal Biosciences (ABSc), University of Guelph;
2. Matt Clarke - Co-Founder of Poseidon Ocean Systems Ltd.;
3. Roy Hines - Norcan Electrical Systems Inc.

This event is in English. Following the webinar series, presentations and a detailed summary of the webinars will be available online for participants.

EVENTS

RAIN: Workshops are being offered in collaboration with the Rural Agri-Innovation Network and the Lake Superior Living Labs Network. Events are being hosted with Johnson Township, the North Channel Food Co-op, St. Joseph Island Community Garden, and St. Joseph Island Horticultural Society.

Information: <http://rainalgoma.ca/blog/canning-101-with-master-chef-emerie-brine/>

EFAO:

Rooftop Farming, Soil Health and Food Justice, July 21

Pasture-Raised Chickens, July 25th

Field Day at Ironwood Organics, July 26

Growing Medicinal Herbs, July 27th

On-Farm Climate Action Fund, July 27

Seed Grower Meetup, July 28th

Register: <https://efao.ca>

LUMINARY VIRTUAL NATIONAL GATHERING: July 28th

Register: <https://us06web.zoom.us/meeting/register/tZEvcu2hpzMsHdx8TM9fASaWNzxARf1q8kTa>

NATIONAL FARMER'S UNION BIPOC CAUCUS

MARKET FARMING FIELD DAY: July 23

(11:00 am to 3:00 pm) FREE

Learn how vintage soil farm manages a horse powered mixed vegetable market farm for CSA and markets. Great for beginners and experienced farmers!

2834 Leeds and Granville Rd 20, Kemptville, ON

Email: sundanceharvest@gmail.com



ONTARIO ON-FARM CLIMATE ACTION FUND (OFCAF):

The program provides cost-share funding to farmers to support the implementation of best management practices to tackle climate change through reducing emissions of Greenhouse Gas Emissions and supporting increased carbon sequestration. Funding provided by Agriculture and Agri-Food Canada (AAFC). OFCAF is delivered to farmers by the Ontario Soil and Crop Improvement Association (OSCIA). The OSCIA is hosting virtual and in-person information sessions throughout July. <https://www.ontariosoilcrop.org/ontario-on-farm-climate-action-fund/> Do you have questions about OFCAF?

Email: OFCAF@ontariosoilcrop.org Ph: 519-830-7314

ONTARIO AQUACULTURE ASSOCIATION-DIGITAL

TECHNOLOGIES Webinar, Thursday July 28, (1-2 pm)

Registration link: <https://www.eventbrite.ca/e/enabling-adoption-of-digital-technologies-by-ontario-rainbow-trout-farms-tickets-386383432247>

JOB OPPORTUNITIES

CARGILL: Currently recruiting for an open position, Aquaculture Sales Consultant. Visit: <https://careers.cargill.com/search-jobs/212993/23251/1>

www.anishinabekagriculture.ca/



KIIN MIINWAA ENDADIZIWAN: LANDS & RESOURCES

The Lands and Resources Department was established within the Anishinabek Nation in the spring of 2007. Currently, there are four program areas with staffing capabilities. These include: Water Resources, Minerals and Mining, Trapping, and Canada Ontario Resource Development Agreement.

MISSION

The Lands and Resources mission is to foster a better quality of life by ensuring access to natural resources by supporting the goals, values and aspirations of the Anishinabek Nation.

MSKOMINI GIIZIS

(RASPBERRY MOON) – JULY

The seventh moon of Creation is Raspberry Moon, when great changes begin. By learning gentleness and kindness, we may pass through the thorns of its brush and harvest its fruit, as we gain knowledge that will help in raising our families.



LYNN MOREAU is a Lands and Resources Program Coordinator with the Anishinabek Nation where she is responsible for the Agriculture Portfolio. Originally from Callander, Ontario, Lynn now lives in Bonfield where she is co-owner of Green Legacy Farm with her husband Dean. Lynn holds an Environmental Science degree from Trent University and a Fish and Wildlife Technician Diploma from Sault College. Lynn can assist with funding application processes and has agricultural experience in vegetable and perennial growing, chicken farming, maple syrup production and aquaculture.



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