Cross Border Workshop

Tools Café

Goal: Briefly pitch the key use for your tool(s) and the benefits of it.

René Audet

Agriculture and Agri-Food Canada (Quebec City, QC, Canada)

Tool:

AgWeather Quebec and AgWeather Atlantic

Purpose:

AgWeather Quebec and AgWeather Atlantic are sister web platforms that provide regionally relevant agricultural weather data, information and decision support tools to farmers and agricultural advisors in Eastern Canada.

Benefit:

These tools contribute to better management of agricultural pests, farm inputs and resources (pesticides, water, nutrients), farm operations and marketing, and climate variability.

Carlos Carillo

Cornell University

Tool:

New York State / Northeast Drought Atlas

Purpose:

This tool shows current conditions of drought for the NE states using 4 km resolution maps of the Palmer Drought Severity Index (PDSI).

Benefit:

At this resolution, the Atlas assess climate factors at regional scale and and incorporates heterogeneous soil properties to produce and index of local drought conditions.

Colin Beier

SUNY College of Environmental Science & Forestry

Tool:

NY Climate Change Clearinghouse Maps and GIS Viewer

Purpose:

Visualize and explore maps of current and future climate along with map layers representing multiple sectors across NYS.

Benefit:

Support climate adaptation efforts via data exploration and visualization in a web browser (no GIS software required).

Gaétan Bourgeois

Agriculture and Agri-Food Canada (Saint-Jean-sur-Richelieu & Québec, QC, Canada)

Institut de recherche et développement en agroenvironnement (Saint-Bruno, QC, Canada)

Tool:

CIPRA-2017 for Integrated Crop and Pest Management in Eastern Canada

Purpose:

To help managing agricultural crops and their pests, weather-based decision systems are useful tools for producers.

Benefit:

Using weather observations and forecasts in real-time, bioclimatic models within CIPRA can predict the phenology of several vegetable, fruit, small grain, and forage crops, as well as the development of insect pests, diseases and physiological disorders that may affect them.

Keith Eggleston

Cornell University - Northeast Regional Climate Center

Tool:

scACIS, a Northeast Regional Climate Center (NRCC) data analysis tool and NRCC data products for the turfgrass industry

Purpose:

SC-ACIS and the NRCC Turf Graph web pages offer tools that are used to extract and summarize in various ways (tables, graphs and maps) data from the ACIS climate database for a wide variety of users.

Benefit:

These tools distill large amounts of data into concise products that can assist users making decisions based on these data.

Danielle Eiseman

Cornell Institute for Climate Smart Solutions

Tool:

Climate Smart Farming Tools

Purpose:

We provide a suite of free-to-use tools to help farmers better understand the potential risks posed by the changing climate, such as freeze risk, water deficit and growing degree days.

Benefit:

Gridded data provides localized information on longer term risks to a variety of crops, based on current and historical climate data.

Robert Farnham

John Deere

Tool:

Precision Ag Tools

Purpose:

Precision agriculture uses technology to compile data for farmers so that they can operate more efficiently, thus better managing production costs, increasing production and increasing profits.

Benefit:

These tools help farmers make better management decisions, save time and money.

Rick Fleetwood

ECCC (Environment and Climate Change Canada)

Tools:

Extreme Precipitation (IDF) Viewer for Atlantic Canada

CoCoRaHS Canada Precipitation Network

ECCC Climate Data Archive

Purpose/Benefit :

These tools/resources provide access to historical climate information and analysis to help users to better understand the normal climate conditions and extremes for various locations in Canada. They also provide access to hourly, daily and monthly data for specific dates/periods as required.

Roland Kroebel

Agriculture and Agri-Food Canada

Tool:

Holos Software Program

Purpose:

To test possible ways of reducing GHG emissions from farms and is available at no cost to users.

Benefit:

The tool estimates carbon dioxide, nitrous oxide and methane from a variety of farm operations for the whole farm that can help the user identify ways to reduce farm emissions.

Ellen Mecray

National Oceanic and Atmospheric Administration

Regional Climate Services- Eastern Region

Tool:

Weather and climate decision tools from NOAA: drought, precipitation, bi-lateral w Atlantic Canada

Purpose:

Provide people in the U.S. with timely and accurate basic weather, water, and climate forecasts and information. Work with different sectors to apply NOAA’s data to solutions in the workplace.

Benefit:

NOAA's suite of tools, from Drought.gov to toolkit.climate.gov, offer information across the weather and climate timescales to inform decisions across the sectors. Also, an example of working cross-border with Atlantic Canada (Gulf of Maine).

Jon Neutens

Weather INnovations

Tool:

Suite of Weather INnovations decision support tools.

Purpose:

Provides information and decision support tools that improve sustainability, consistency and profitability of agriculture production.

Benefit:

Our suite of tools allow growers to tailor their program to the level of risk management they are comfortable with, and to minimize the dollars spent on disease control.

Dan Olmstead

The Network for Environment and Weather Applications (NEWA)

Tool:

The Network for Environment and Weather Applications (NEWA)

Purpose:

NEWA provides localized short-term agricultural insect and disease forecasts, using weather data streamed in real time from grower owned stations.

Benefit:

Growing conditions change rapidly within and across seasons and NEWA provides customized risk predictions at the farm or field level in real time.

Demonstrations

Now everyone will have a chance to stop by your table and see how the tools you developed work.