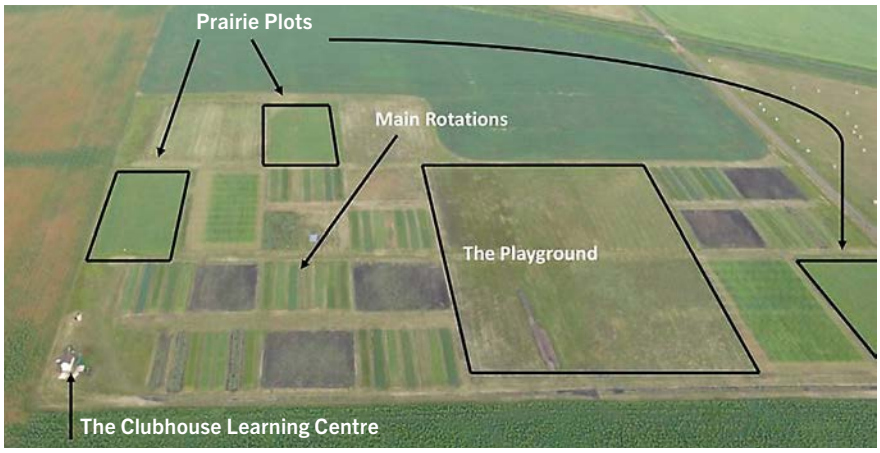
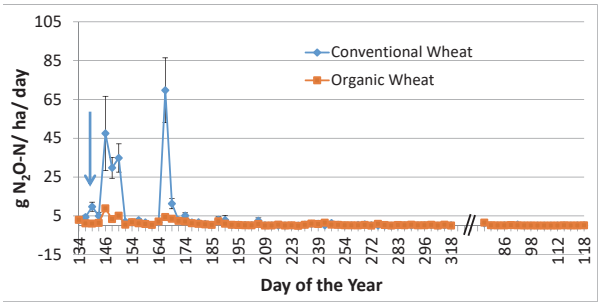


THE GLENLEA LONG-TERM CROP ROTATION STUDY 1992 2021

Organic discoveries over 30 years of continuous field studies

SCIENTIFIC DISCOVERY

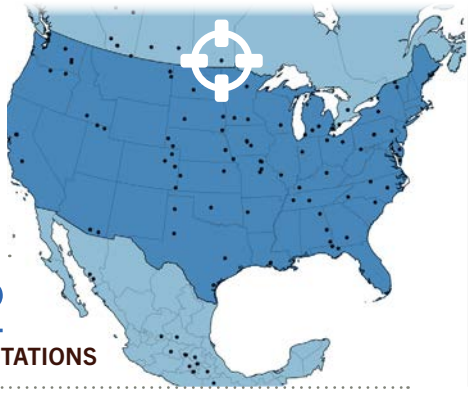
We have discovered that the greenhouse gas footprint is lower in organic production than where fertilizers and pesticides are used. For example, when daily emissions per ha are totaled and yield is taken into consideration, average nitrous oxide emissions resulted in 35% lower emissions per bushel



Westphal, M., Tenuta, M. and Entz, M.H., 2018. Agric., Ecosys & Enviro 254, pp.41-49.

DOING THE FIELDWORK

Glenlea is one of 3 organic sites within the Soil Health Institute's network of long-term studies.



2 ROTATIONS

6 TYPES OF CROPS Wheat Oat Flax Soybeans Alfalfa Hairy Vetch

CONVENTIONAL AND ORGANIC MANAGEMENT

BUILDING CAPACITY

We are leveraging the knowledge gained from almost 3 decades of organic crop production research to educate professional crop and soil consultants on how to advise organic farmers for success.

SINCE 1992...

120 SUMMER STUDENTS WORKED AT GLENLEA

24 GRADUATE THESES

5 INTERNATIONAL COLLABORATIONS

>2K VISITORS SINCE 1992

RESEARCH LEADS: Martin Entz, agroecologist, University of Manitoba

DIG DEEPER! Organic agriculture deserves a seat at the grown-ups' table

PUBLISHED RESEARCH: Nitrous oxide emissions with organic crop production depends on fall soil moisture. 2018. Agriculture, Ecosystems & Environment.

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MANITOBA Agriculture & Food KNOWLEDGE EXCHANGE