

Planning for Tomorrow Today



Introduction

Norm Lamothe – Woodleigh Farms Ltd.

Agriculture

- 6th generation farmer
- 500-acre farming operation (Cavan, Ontario)

Past Professor

- Food and Farming Program (Durham College)

Community Involved

- Millbrook Agricultural Society, Millbrook
Figure Skating Club, Millbrook Minor Hockey

Entrepreneurship

- Co-founder, Deveron UAS Corp.
- Aviation Businesses (brokerage, flight training)







Why Do We Care?

- It is estimated that the normal levels of carbon in cultivated soils around the World have been reduced by 50 to 70%
- In North America, we have seen a decline of over 50% of our soil organic matter over the past 100 years
- In Ontario, 82% of agriculture lands are seeing a decrease in soil organic matter year-over-year
- Primarily through tillage, carbon materials are exposed to air where they are oxidized (CO₂), making soils vulnerable to erosion, wind and rain events

Our Goals

On-Farm Solutions

- Creation of value-adds from existing sources
 - Forest residues, organic waste materials
- Building organic matter
 - Crop rotations, cover crops

Securing Off-farm Sources of Organic Matter

- Municipal waste diversion
 - Leaf and yard waste , organics, biosolids







Project Benefits

Environmental

- Helping to decarbonize the atmosphere
- Municipal waste diversion
- Improve local soil quality
- Decrease farm leaching and runoff

Economic

- Create a high-value product from waste materials
- Capital savings for the Township

Social

- Local job creation
- Local collaborations

Timelines

January 2019 to Present

January 2019 - Met with Peterborough County, Waste Management

March 2019 - Met with Peterborough County, Leadership

March 2019 - Secured NRC IRAP funding for a 1-year Feasibility Study

September 2019 - Hired two Innovation and Infrastructure Leads

October 2019 - Met with Township of Cavan-Monaghan staff

Fall 2019 - Received Cavan-Monaghan's leaf and yard waste – pilot basis

November 2019 - MECP Inspection of Leaf and Yard Waste Facility
(O.Reg. 101/94) and approval

February 2020 – OMAFRA, NASM approval for storage & field application

Spring 2020 - Received Cavan-Monaghan's leaf and yard waste – pilot basis

Timeline & Goals - Next Steps

Fall 2020

- Invitation to Council Members and Township Staff to visit and tour our farm and facilities
- Secure long-term (5-10 year) relationship with the Township for the diversion of Leaf and Yard Waste materials
- Proposing a \$30.00 + HST per tonne of material received as a tipping fee, delivered to our designated receiving site(s)



Questions?

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