Feedstock Potential from Agricultural Waste Streams and Crops



Jeff Wentzell, NS Agriculture Circular Economy Summit Wednesday, June 29th, 2016



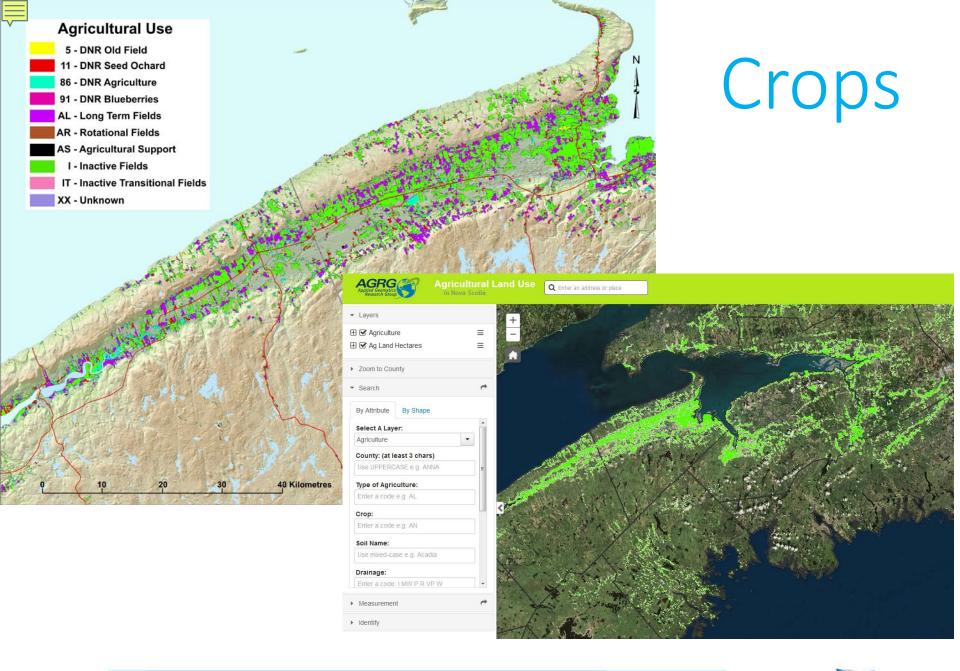


Opportunity

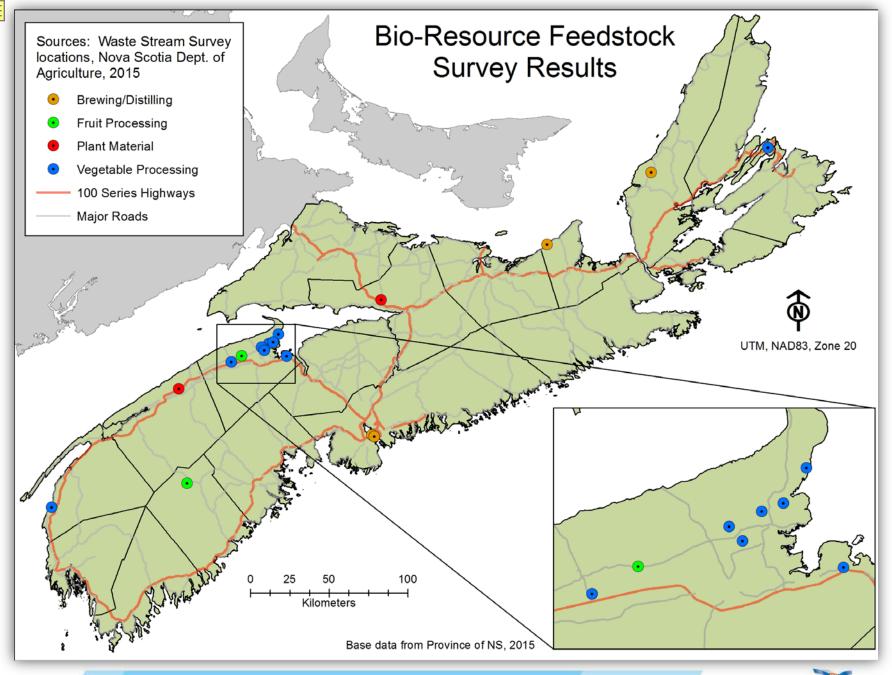
Can the agri-food sector... primary producers and processors add value through the bio-resource economy?







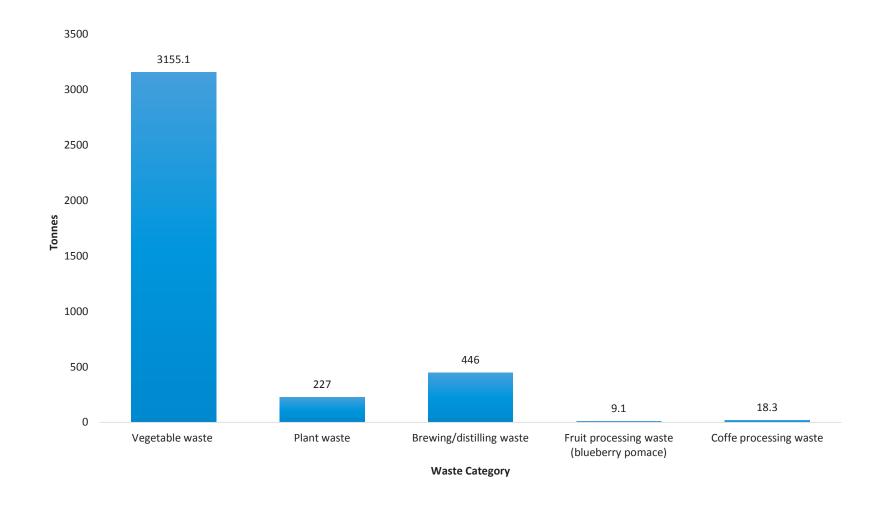








Initial Survey Results (2015)







Phase 2 — Expand Survey

Project Lead - Perennia

Funding Partners - ACOA, NS Department of Fisheries, NS Department of Agriculture, Bluewater CBDC

Partners and Expertise - NRC IRAP, NSBI, Innovacorp, NS Environment, RRFB

Consultant – Robert Anderson Consulting Ltd. (Lise LeBlanc, LP Consulting)





Surveys

Sectors: (42 participants)

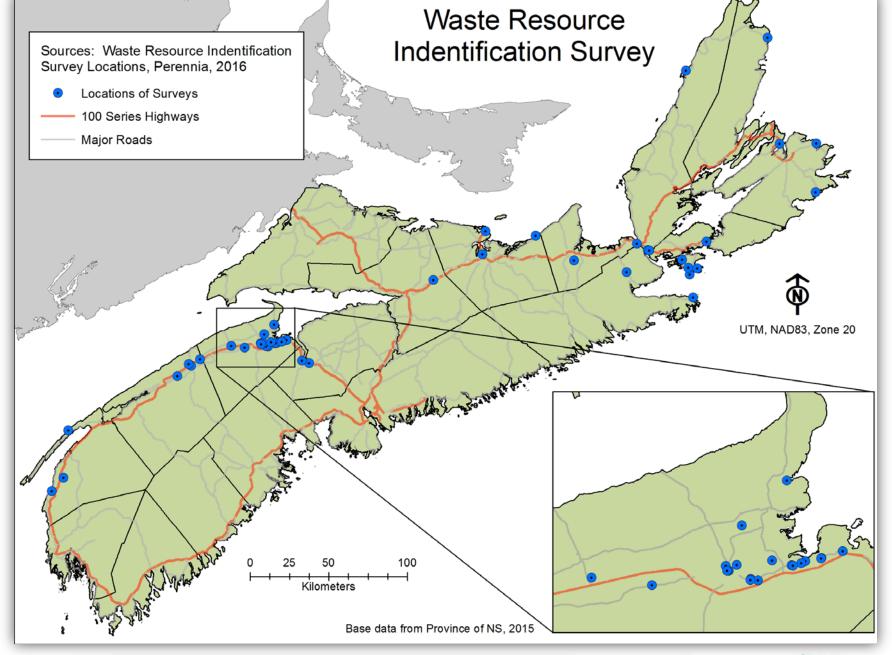
- 10 Farms (9)
- 3 Mink Waste Processor (1)
- 14 Shellfish Processors (13)
- 4 Slaughter Facilities (1)
- 4 Greenhouses (1)
- 5 Food Processors (1)
- 3 Wineries/Breweries (1)
- 15 Industrial, Commercial, Institutional (9)
- 6 Municipal Compost (6)

We asked...

- Type and quantity
- Time of availability
- Current use
- Alternative uses in development
- Storage capacity
- Contact
- Share?











Highlights for Agriculture

Highlights:

- Farms smaller volumes
 with alternate uses as soil
 amendment or to farmers
 and hunters
- Mink approximately 55,000 tonnes annually through one processor

- Slaughter Facilities compost waste with issues around SRM
- Greenhouses minimal that is composted
- Processors difficulty connecting with processors. Waste is from culls, damaged, grading issues, size....



Highlights for Fisheries

Sector:

- Shellfish Landings
 - 82% Lobster is exported live
 - In processing 74% of lobster, 60% of crab and 33 % of shrimp is waste
 - Waste handling varies... land application and composting facilities

Table 9-Available Waste Based on Landings

	Lobster	Crab	Shrimp
	(tonnes - 2015 data)	(tonnes - 2014 data)	(tonnes – 2015 data)
Total Exported	43,395	19,187 (landings)	30,367
Exported Live	35,861	6487	
Exported in Shell	6,455		18,663
Raw Processed		12,700	
Processed for Export (no shell)	1,079	7,925	11,704
Typical Waste %	74	60	33
Potential Waste (tonnes)	798	4,755	3,862





Moving Forward

Recommendations

- Partnerships
- Bio-Resource Working Group
- Understand the value proposition for agriculture









Contact Us

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