

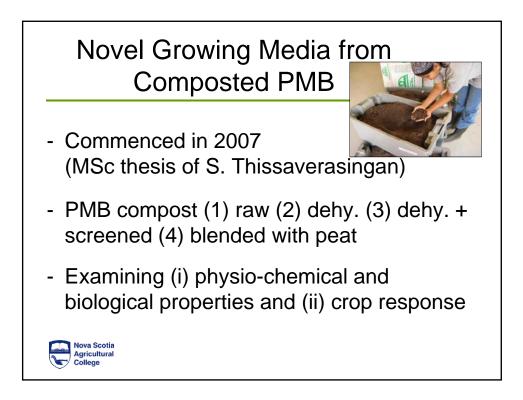


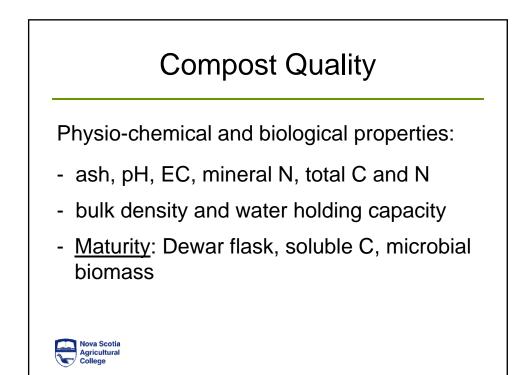
## **Funding Support**

- Resource Recovery Fund Board
- Envirem Technologies Inc. (Fredericton, NB)
- Nova-Agri Inc. (Centreville, NS)
- Louisiana Pacific (Chester, NS)
- Colchester County Municipality
- NSDAF Technology Development Fund
- Natural Sciences and Engineering Research Council
- Canada Research Chairs Program

Nova Scotia Agricultural College

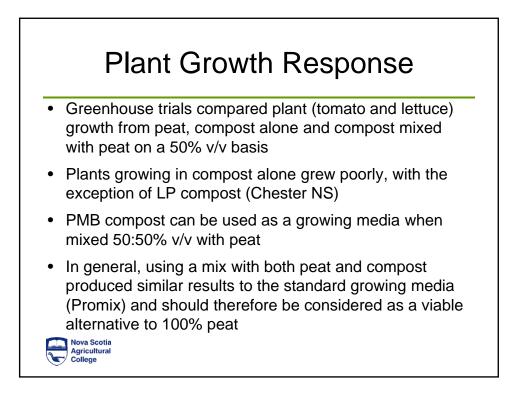


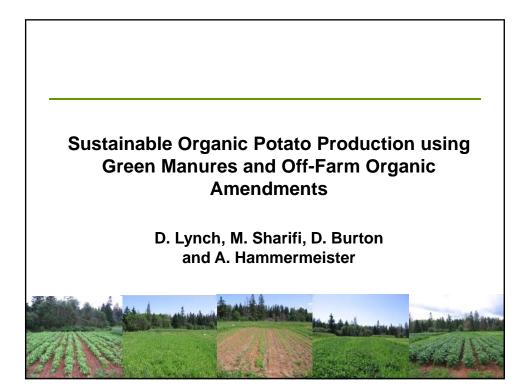


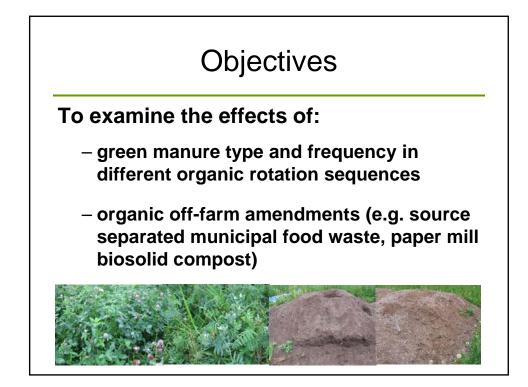


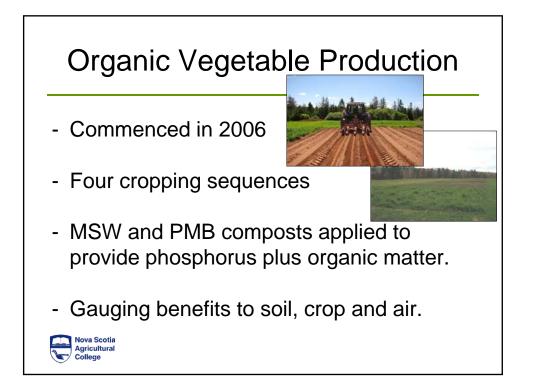
	WHC (%)		Ash (%)	
Treatment	Clarendon	Miramachi	Clarendon	Miramachi
Raw	283	296	73.3	67.2
NS	168	307	72.8	63.9
NS 50	346	545	62.8	48.2
NS 75	435	719	52.6	35.4
S	214	280	65.6	67.1
S 50	365	503	55	51.6
S 75	623	761	37.4	29.3

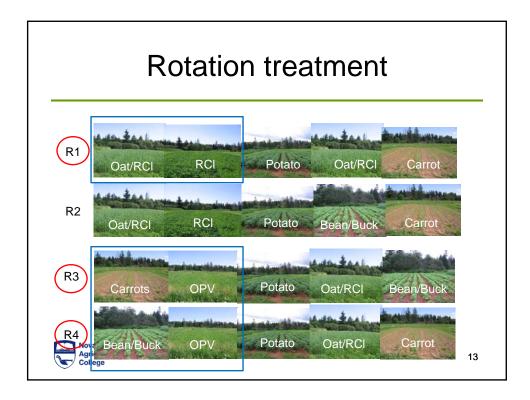
EC, pH and C:N ratio					
	Treatment	EC	pН	C:N	
	Raw	289	7.4	41.3	
	NS	863	7.3	42.4	
	NS 50	641	5.5	52.5	
	NS 75	475	4.6	62.8	
	S	998	7.4	44.7	
	S 50	682	5.6	53.5	
		531	4.4	68.4	

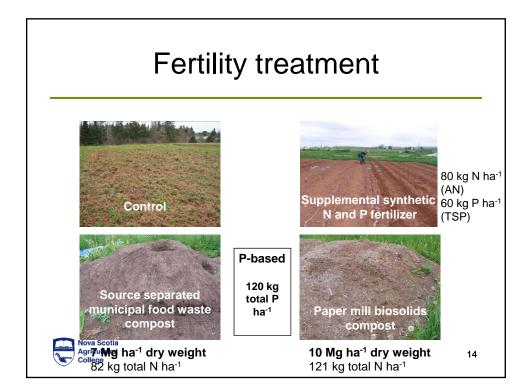


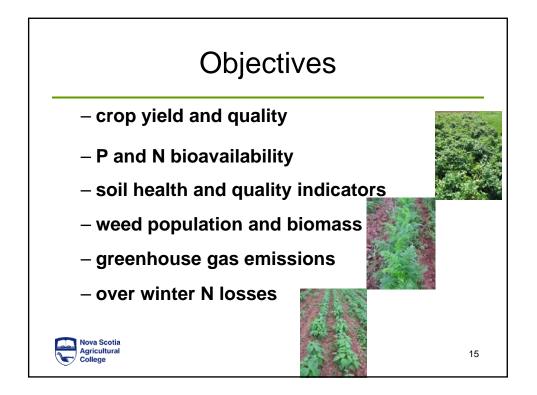


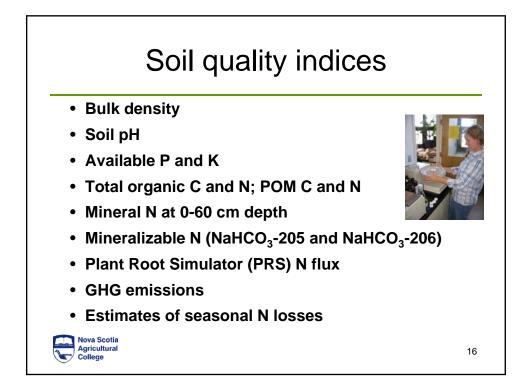


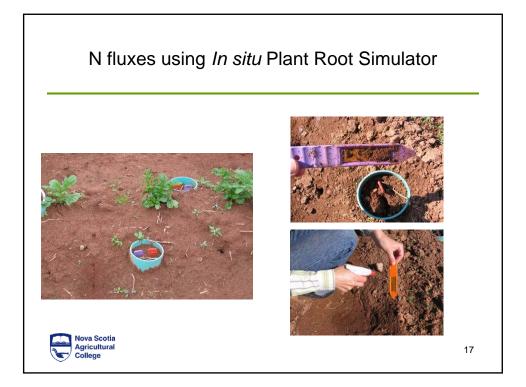


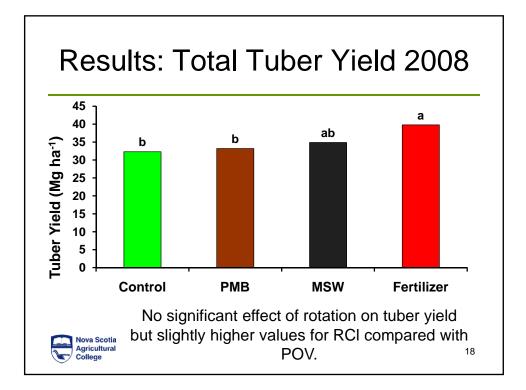


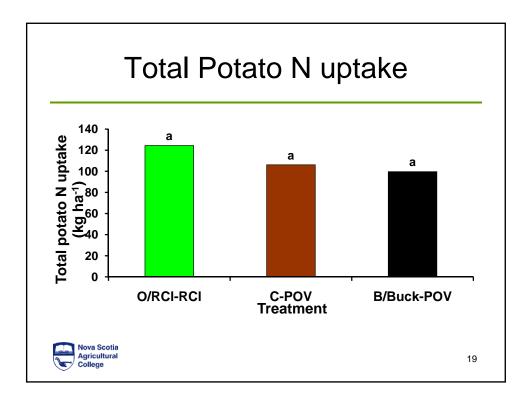


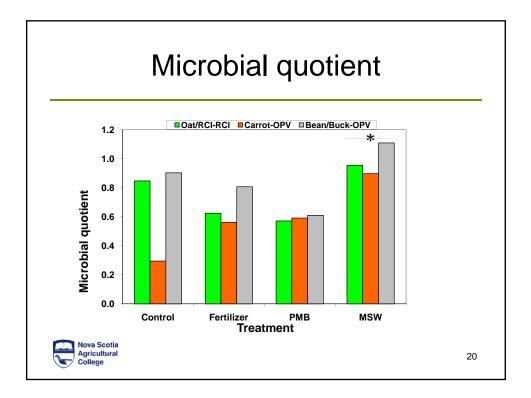


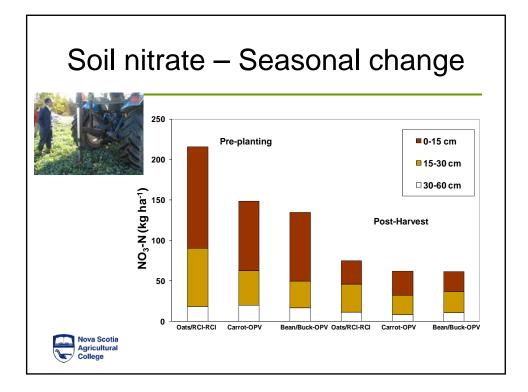


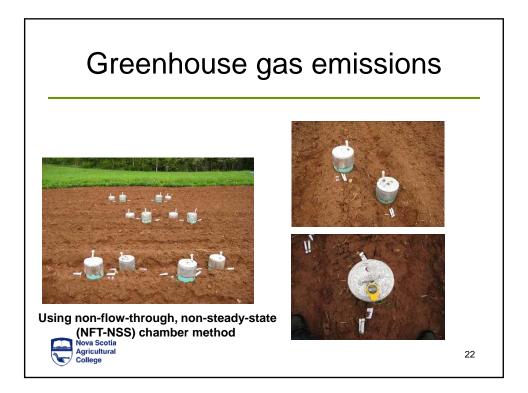


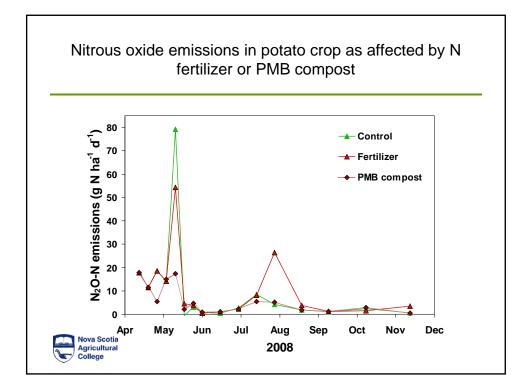


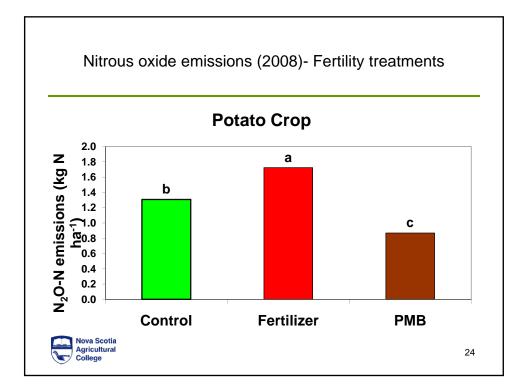












## Interim conclusions (2006-2009)

Extended rotations characteristic of organic production systems allow for acceptable yields of potatoes, with sustained soil C and reduced losses of N.

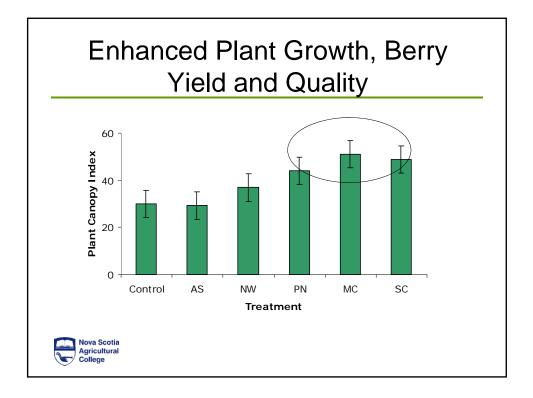
Regional N credits for green manures may need reevaluation.

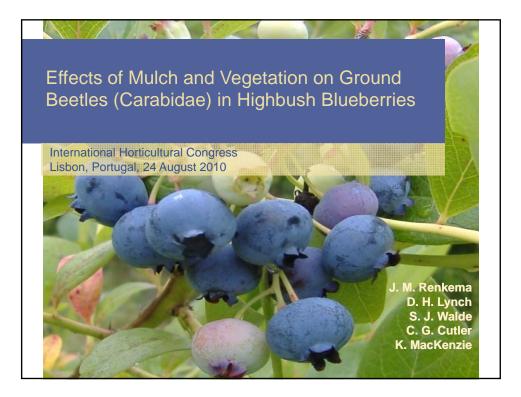
Selected organic amendments may play a role in maintaining soil quality and fertility in these systems.

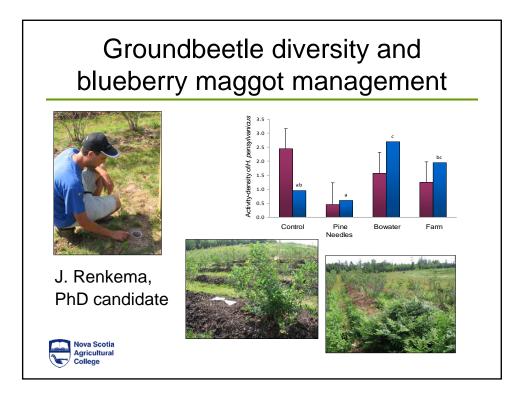
Nitrous oxide emissions from organic potatoes can be mitigated using rotation crop and organic amendments.

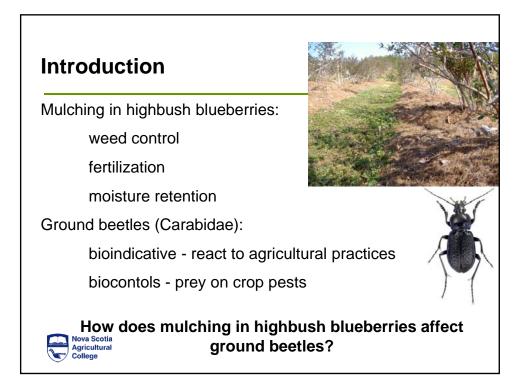
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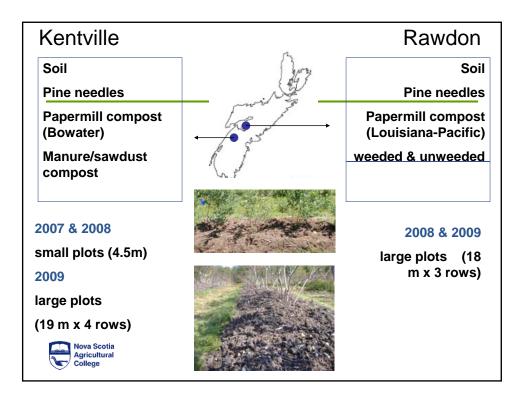
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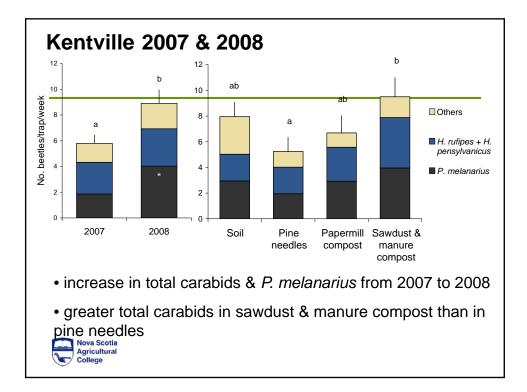


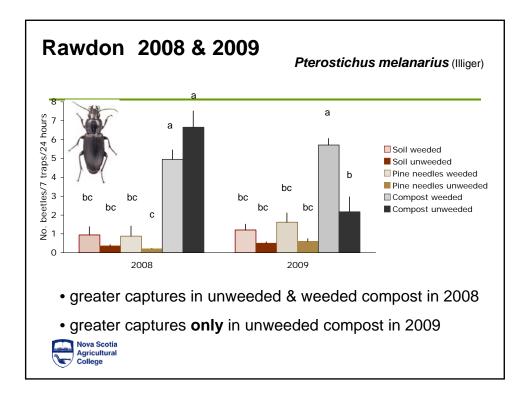




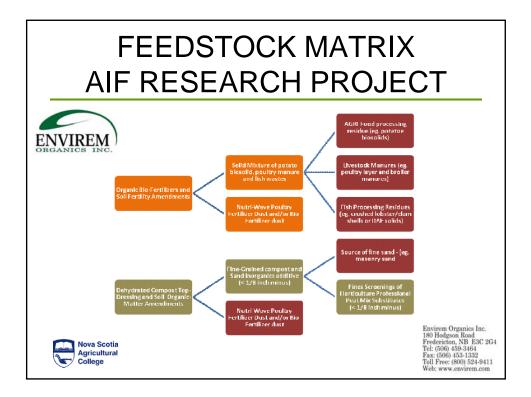


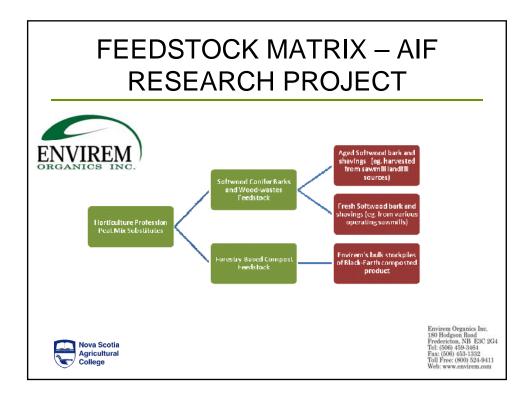


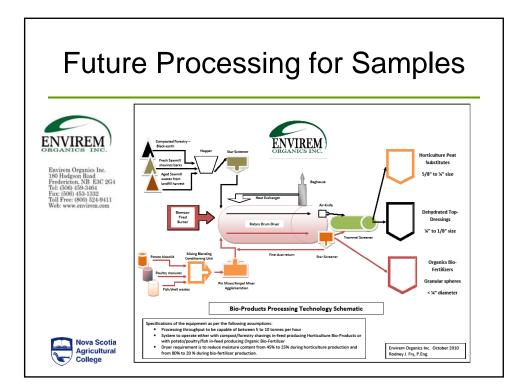


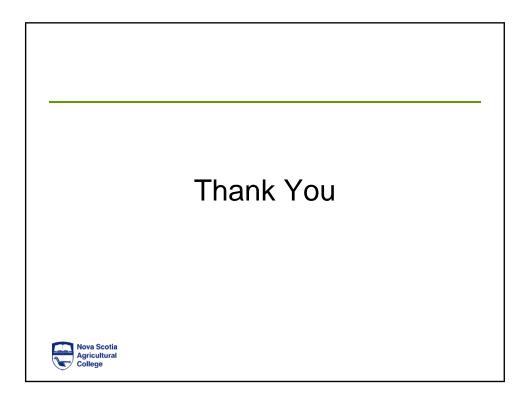












## Acknowledgements

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- **Resource Recovery Fund Board** •
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- Nova-Agri Associates (Centreville, NS) •
- Western Ag. Innovations (Saskatoon, SK) •
- Louisiana Pacific (Chester, NS) •
- Bowater-Mersey (Liverpool, NS) •
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