

A Sampling of OMAFRA Research Programs Supporting Environmental Sustainability Research: Healthy Soil and Water (OMAFRA- University of Guelph Partnership and OMAFRA New Directions Research Program)

Project Lead	Research Body or Organization	Project Title	Year	Project #
Gary Parkin	University of Guelph	Validation and Use of Two Models For Estimating Optimum Crop Planting Dates, Soil Water Balances and Nitrogen Leaching	2004-2007	SR9158
Alfons Weersink	University of Guelph	Allocating Quality Water in Ontario as a Private, Environmental and Public Good	2004-2006	SR9155
Will Robertson	University of Guelph	Nitrate Filter For Greenhouse Runoff Water	2004-2006	SR9157
Wayne Caldwell	University of Guelph	Developing Strategies to Engage Agriculture and Recreation Along the Lake Huron Shoreline: a Community Based Approach to Solving Water Quality Issues	2005-2005	SR9165
Claudia Wagner-Riddle	University of Guelph	Nitrogen Transformation and Losses Following Application of Animal Manure to Agricultural Soils as Determined By ¹⁵ n Tracer Methods	2005-2008	SR9167
Keith Taylor	University of Windsor	Demonstration of Commercial-scale Efficacy of Soybean Peroxidase For Treatment of Industrial Waste- and Process-water	2006-2009	SR9175
TQ Zhang	Agriculture and Agri-food Canada-Harrow	Determination of Some Key Factors For Ontario Soil P Index and Effectiveness of Manure Application Practices For Mitigating Risk to Water Resource	2006-2008	NM8002
Laura Van Eerd	University of Guelph	Evaluation of the Value of Cover Crops on Nitrogen Cycling, Soil Quality and Pest Management in Vegetable Production	2006-2009	SR9176
Craig Drury	Agriculture and Agri-food Canada-Harrow	Refining the N Index to Determine the Risk of Nitrate Contamination of Surface and Groundwater For Ontario Agricultural Soils - Part 1	2007-2008	NM8005a
Bonnie Ball Coelho	Agriculture and Agri-food Canada-London	An Evaluation of the N-index as a tool For Assessing the Impact of Manure Management Practices on Nitrogen Losses From Southern Ontario Soils - Part 1	2007-2008	NM8004a
Ron Beyaert	Agriculture and Agri-food Canada-London	Determining the Impact of Management on Soil Organic Matter Dynamics	2007-2010	SR9194
Stephen Boles	Agriculture and Agri-food Canada-London	An Evaluation of the N-index as a tool For Assessing the Impact of Manure Management Practices on Nitrogen Losses From Southern Ontario Soils - Part 2	2007-2008	NM8004b
Gary Parkin	University of Guelph	Refining the N Index to Determine the Risk of Nitrate Contamination of Surface and Groundwater For Ontario Agricultural Soils - Part 2	2007-2008	NM8005b
Chandra Madramootoo	Mcgill University-Macdonald Campus	Increasing Water Use Efficiency and Improved Nutrient Management For Processing tomatoes	2008-2011	SR9203
Derek Lynch	Nova Scotia Agricultural College	Relationship Between Soil Fertility, Soil Health and Productivity in Organic Farming Systems	2008-2011	SR9205
Paul Voroney	University of Guelph	Management of soil N fertility for organic cereal production	2010-2013	SR9236

Tim Nelson	Agricultural Research Management Systems	Improving water use efficiency on dairy farms in Ontario	2011-2014	SR9246
Jone Cline	University of Guelph	Sustainable and Efficient Water Use for Ontario's Tree Fruit Sector	2012-2015	SR9251
Keith Warriner	University of Guelph	Technologies for decontaminating irrigation water and for recycling wash water in fresh produce processing	2012-2014	SR9250
Amarjeet Bassi	University of Western Ontario	Water Management for the Greenhouse Sector using Microalgae Coupled Continuous Fluidized Bed Ion Exchanger System	2012-2015	SR9249
Brent Wootton	Fleming College	Innovative Approaches to Water Treatment for Land Based Fish Farms for Recirculation and Discharge	2012-2015	SR9256
Merrin Macrae	University of Waterloo	Analysis of annual runoff and phosphorus losses from minimum till sites across Ontario	2013-2015	SR9261

Keywords: Phosphorus, Nutrient, Soil, water, watershed, groundwater, and wastewater

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