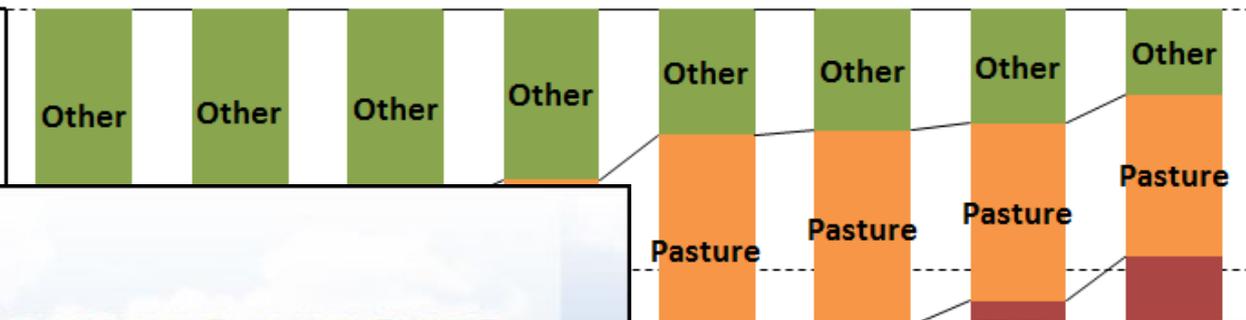




MCCC 2019 -Ontario

Anne Verhallen
**Ontario Ministry of Agriculture,
Food and Rural Affairs**

100%

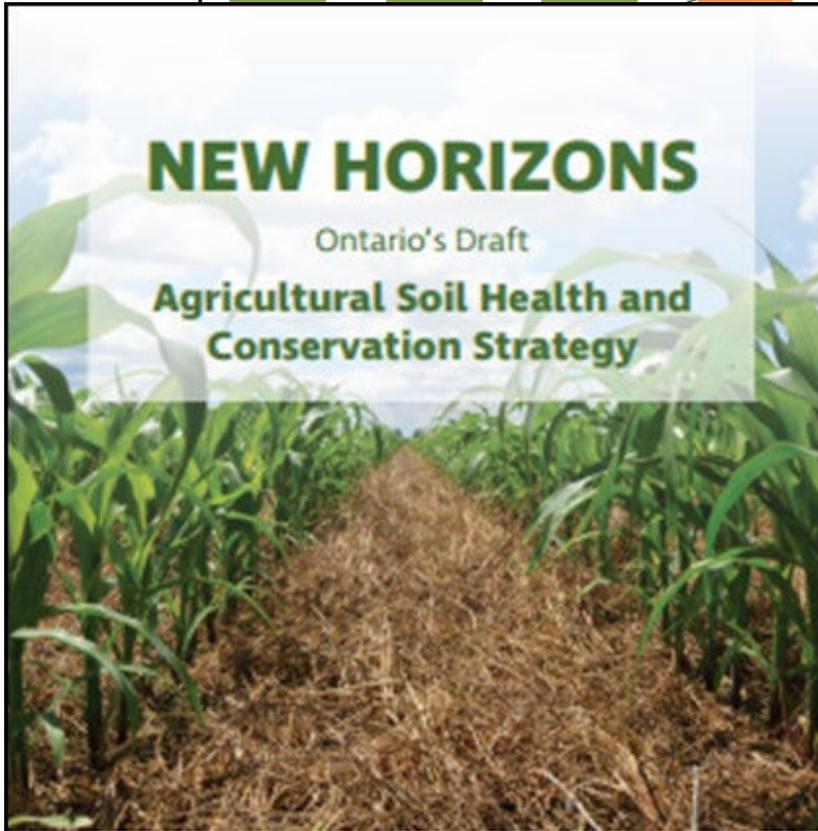


The times they are a changing

NEW HORIZONS

Ontario's Draft

Agricultural Soil Health and Conservation Strategy



limited ro

Ontario Cover Crops Strategy

April 2017



Leaving a legacy. Let's talk soil.

"If we won the lottery, we'd stay right here and keep investing in the farm and in the soil. For us, it's about passing the farm on to the next generation and giving them a great start."

Sara & Chris Wood
Beaumont Farms
Mitchell, Ontario



Farming: Cash crops

Soil health strategy: no-tilling corn, beans and wheat; cover crops after wheat

Soil story: One of the biggest goals on this farm is to bring up the organic matter levels so we can reduce fertilizer inputs. When this farm split from a dairy farm ten years ago, my parents started into no-till and we've since added cover crops as well to keep the soil healthy.

Last word: My family bought the original farm over a century ago, and my husband and I would like to pass the farm on to the next generation as well. We're working on that. In fact, our first baby is due in December!

Join the conversation.

Sign up at ontariosoil.net

#LetsTalkSoil



Proudly supported by **OFA**

Great production starts here. Let's talk soil.

"Everything starts in the soil. Whether it's in your dairy barn or your cash crops, everything comes from the land to begin with. So, if you look after the land, you look after your bottom line."

Thomas Farrell
RG&G Farms
Kincairdine, Ontario



Farming:
Dairy, cash crops

Soil health strategy:
Cover crops after wheat, composting manure, min-till

Soil story: We started cover crops after wheat six years ago to take up nutrients from liquid manure. It worked so well we're starting cover crops after corn as well. Better soil is growing better feed, healthier cows and increased milk production.

Last word: It doesn't cost a lot to change the system. It costs a lot more to fall behind.

Twitter: @ThomasFarrell23

Join the conversation.

Sign up at ontariosoil.net

#LetsTalkSoil



The Ontario Soil Network is supported in part by OMAFRA

Weathering hard times. Let's talk soil.

"A decent goal, as a farmer, is to be able to withstand an economic downturn. Soil health and economic sustainability have a parallel line here. With poor soil, you'll always be at the mercy of the weather and markets. With strip-till and cover crops, we're cutting back our nitrogen, fuel, labour and equipment costs — and our yields are increasing. We can weather the markets... and the weather."

Rick Kootstra
Kootstra Farms
Clinton, Ontario



Farming:
Poultry, cash crops

Soil health strategy:
We strip-till corn and white beans, no-till wheat and soybeans, use manure and grow cover crops.

Last word:
Find a system that works for you. Increasing soil health and reducing input costs is in your farm's best interest.

Twitter: @RicksZone

Join the conversation.

Sign up at ontariosoil.net

#LetsTalkSoil



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Trends in cover crops in Ontario

Bio strip till



Jacqui EmpsonLaporte and 3 others Retweeted



Dave McEachren @DeereDave · 4 May 2018

May 1 - planted soybeans...into my twin-row wheat!!! **Relay-cropping** here we go!! #ontag @GrainFarmers @IFAO123 @SoilNetwork @Anne_Verhallen @woody_VA



Relay Cropping



Grazing cover crops

TABLE 5-2

Pre-emergence herbicide weed control ratings in corn

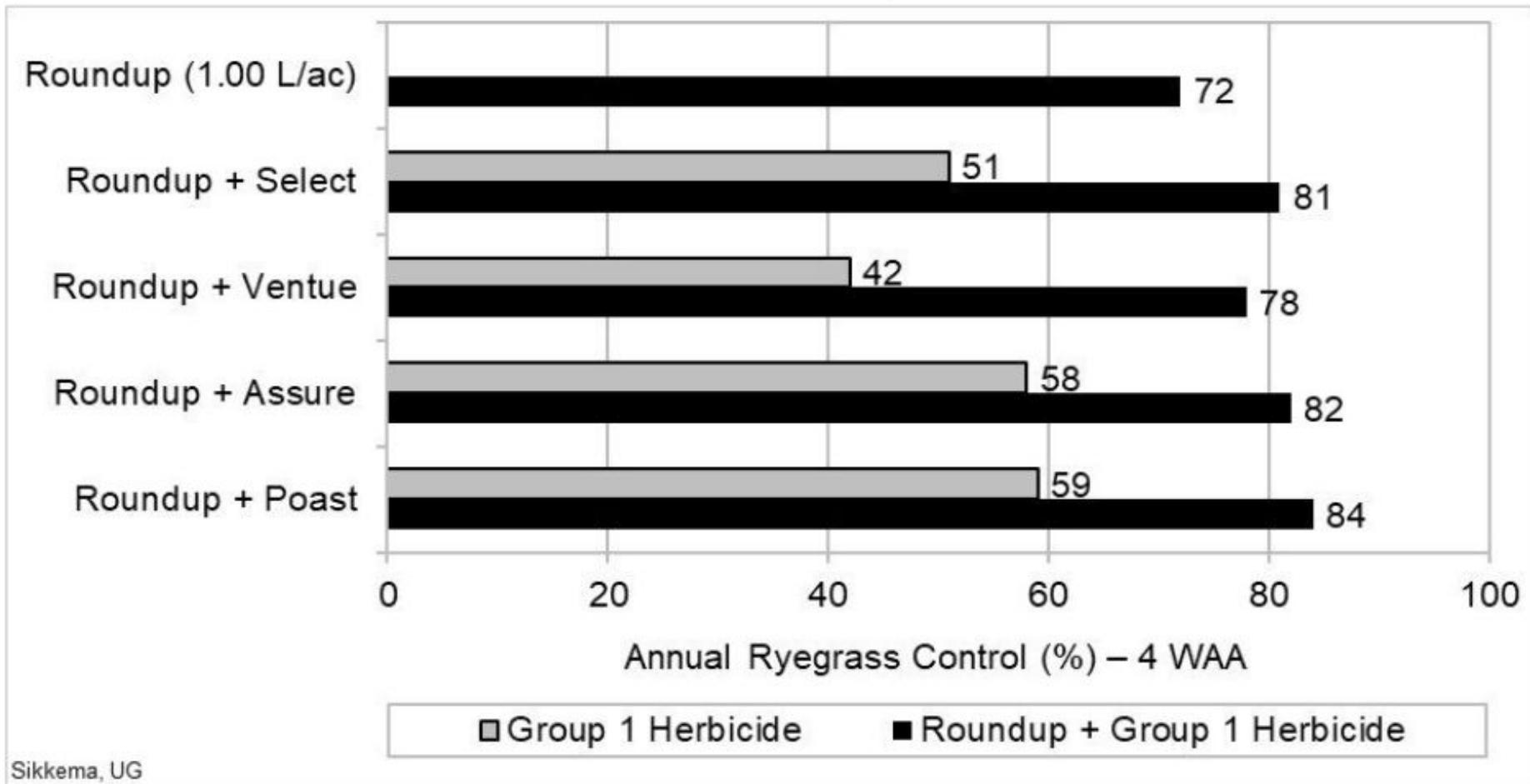
Publication 75 – Guide to Weed Control

From Mike Cowbrough, Weed Management Specialist – Field Crops

TRT #	HERBICIDE TREATMENT	WSSA GROUP	Sweet corn	Seed corn	Field corn	Grassy Weeds (Annual)		Tolerant Hybrids	Crop Tolerance	GRASSY WEEDS (ANNUAL)													
						Clover - Interseeded*	Rye grass - Interseeded*			barnyard grass	crabgrass	fall panicum	foxtails	proso millet									
Pre-emergence Herbicides and Co-packs (weed species not emerged at time of application)																							
7	Aatrex 480	5	✓	✓	✓	ND	MR	All	E	-	-	-	-	-									
8	Acuron	27,15,5	✓	✓	✓	HR	MR	All	E	9	8	8	9	-									
9	Armezon Pro + Aatrex 480	15,27,5	x	x	✓	ND	HR	All	E	9	8	8	9	-									
10	Armezon Pro + Marksman	15,27,5,4	x	x	✓	HR	HR	All	E	9	8	8	9	-									
11	Battalion co-pack (Elim EP + Dual II Magnum + Banvel II)	2,15,4	x	x	✓	HR	HR	All	G	9	8	9	8	7									
12	Broadstrike RC	2	x	x	✓	ND	ND	All	E	-	-	-	-	-									
13	Callisto + Aatrex 480	27,5	✓	✓	✓	HR	MR	All	E	-	7	-	-	-									
14	Converge XT co-pack (Converge Flexx + Converge 480)	27,5	x	✓	✓	MR	LR	All	E	9	8	9 ¹	9	8									
15	Dual II Magnum	15	✓	✓	✓	HR	HR	All	E	9	8 ²	8	9	-									

Annual Ryegrass

Corn – Preplant



The Agronomic Attributes of Cover Crops Incorporated in Cropping Systems in Western Ontario.

Matt Stewart

Co-Advisors: I

Hooker and D

Others: Manis

Godfrey Chu,

Chapagain, R

Split Plot Nested Design

Whole plot: Crop Rotation (2)

Corn-Soybean

Corn-Soybean-Wheat

Split: tillage systems (2)

Conventional

Minimum

Nest: Cover crop treatments (8)

Within Corn-Soybean rotation (2)

Within Corn-Soybean-Wheat rotation (6)

+ 2 different N treatment (0, 56kg/ ha)