Canola Update and Research Priorities 2018



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2017 Canola Acreage

Insured Acres:

2016 29,539 ac

2017 29,248 ac

Acres down in all regions except:

Nipissing steady at 2,150 ac

Temiskaming increased by 5,300 ac

2017 Canola Yield

- Yield higher than 2016 in all regions except northwestern Ontario
- Eastern and Northwestern – RAIN!

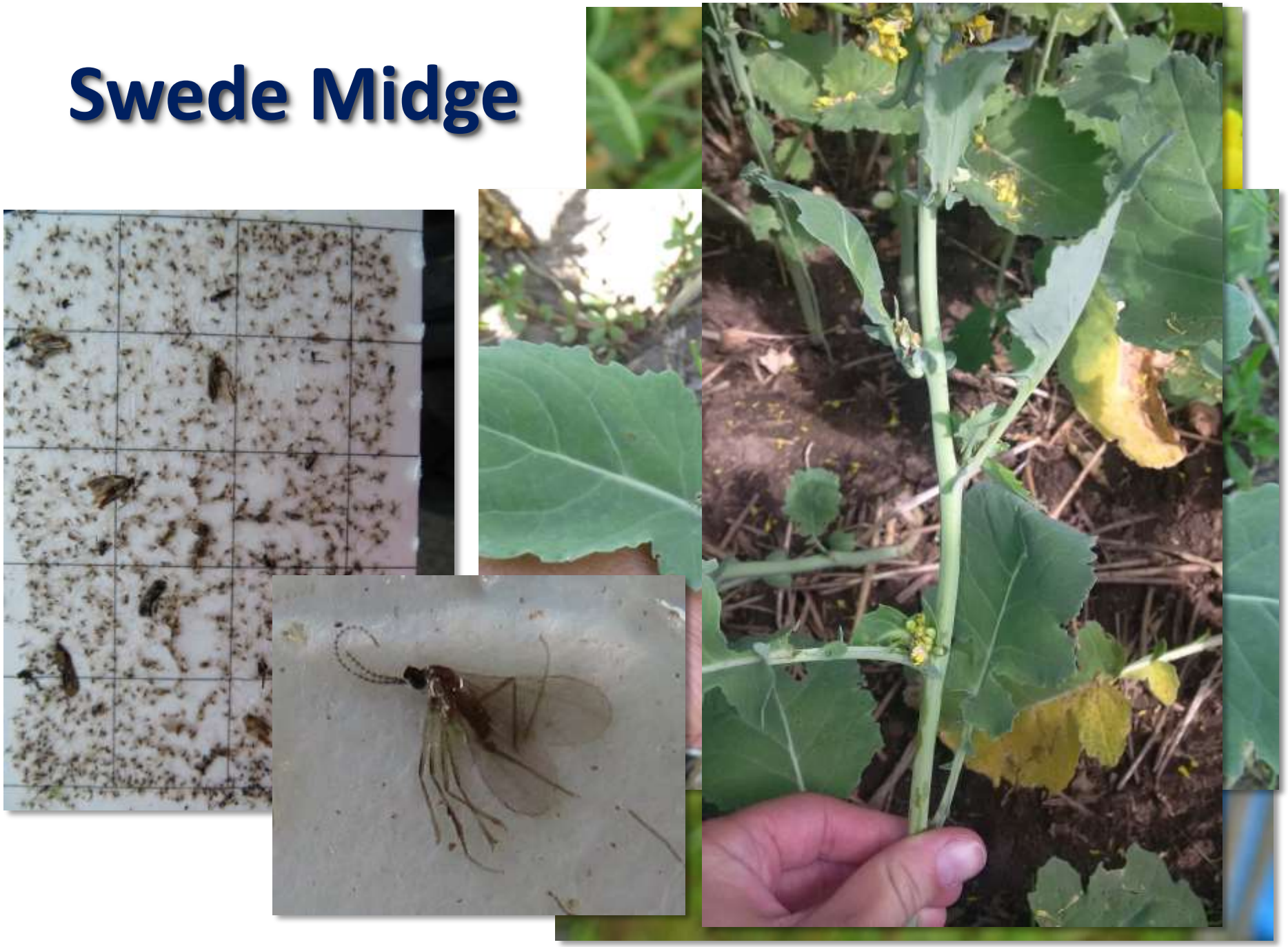
HIGHEST Average Provincial Yield!

2,443 lb/ac (1.11 T, 48.8 bu)

Canola Research Priorities

- Swede midge
- Clubroot
- Improved agronomics – rotations, N, planting
- Winter canola

Swede Midge



A Natural Enemy of Swede Midge

Synopeas myles

- lays eggs inside swede midge larvae

Rebecca Hallett, U of Guelph

- Identify parasitoids in Ontario canola
- Determine their activity through the season
- Determine distribution across Ontario

Survey Locations

Parasitoid absent

Parasitoid present

2016 weekly survey results by week

	Shelburne16 A		Shelburne16 B		Corbetton16		Orangeville16		%
Week	SM	Paras	SM	Paras	SM	Paras	SM	Paras	Parasitism
9-Jun	1	0	0	0	0	0	0	0	0
16-Jun	167	0	0	0	0	0	35	0	0
23-Jun	3369	191	14	0	120	1	920	0	4.2
30-Jun	10167	1736	365	9	7532	36	631	49	8.9
7-Jul	5490	2235	269	30	669	257	245	61	27.9
14-Jul	72	32	12	0	3	0	204	0	9.9
21-Jul	663	253	429	50	717	200	201	18	20.6
28-Jul	1390	613	1172	47	658	207	936	15	17.5

Preliminary 2017 weekly survey results by week

Week	Meaford17		Shelburne17 A		Shelburne17 B		Shelburne17 C		Shelburne17 D		Elora17		%
	SM	Paras	SM	Paras	SM	Paras	SM	Paras	SM	Paras	SM	Paras	Parasitism
5-Jun	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Jun	0	0	0	0	15	0	2	0	0	0	0	0	0
19-Jun	77	0	70	0	1158	4	8	0	68	0	100	0	0.3
26-Jun	708	0	370	0	738	0	117	0	152	1	53	8	0.8
3-Jul	665	25	87	0	618	13	52	1	180	0	541	7	2.1
10-Jul	606	29	140	0	454	11	598	0	645	1	717	2	1.3
17-Jul	66	0	27	0	21	6	13	0	62	0	705	5	1.2
24-Jul	1323	95	67	0	-	-	-	-	-	-	-	-	6.4

Further Objectives of the Parasitoid Project

- Environmental factors affecting:
  - presence and abundance
  - parasitism rates
  - Synchrony with Swede midge: pheromone trap captures, soil characteristics, surrounding vegetation and field history

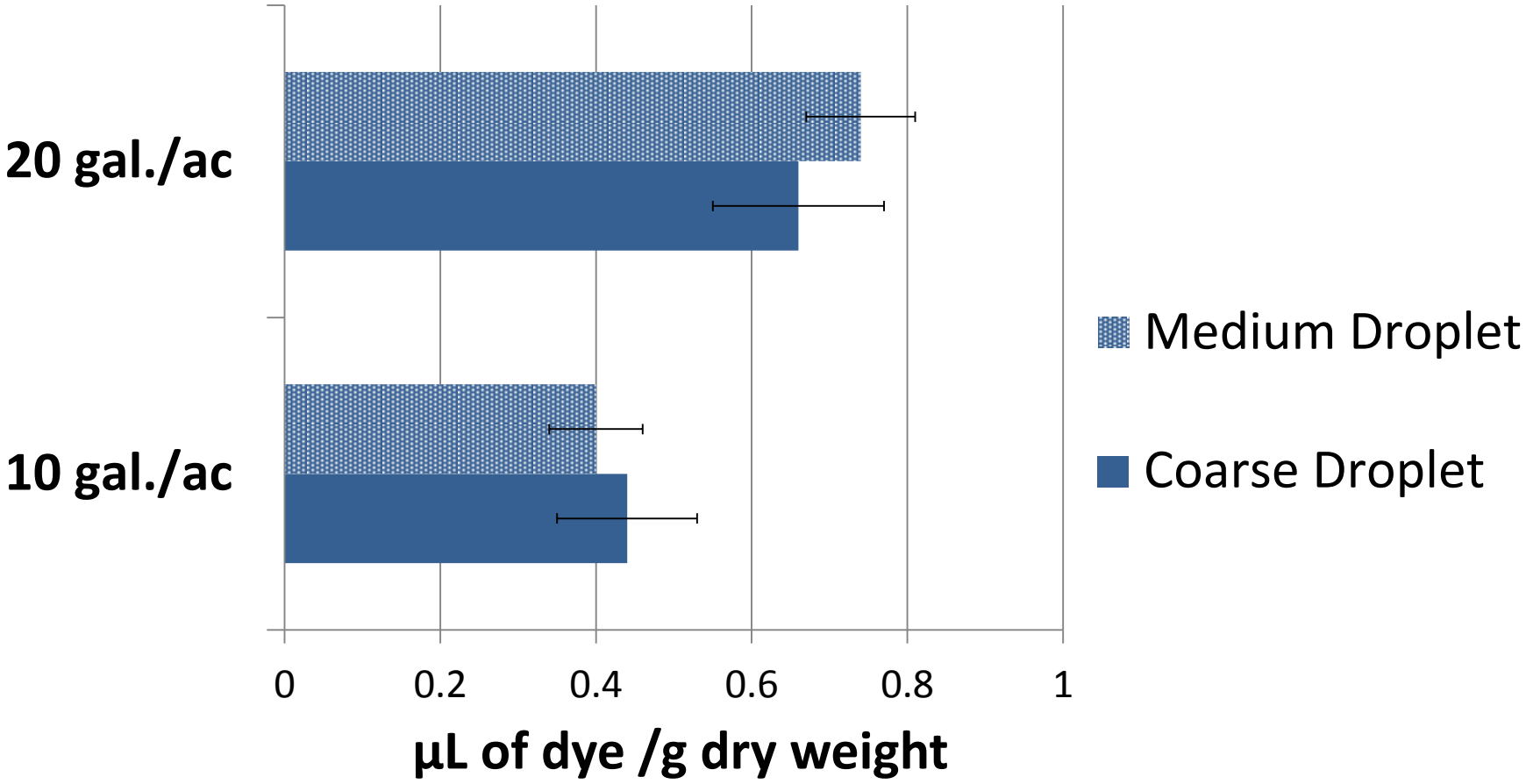
- Susceptibility of *S. myles* to insecticides used in canola

Spray Quality for Swede Midge Control

Jason Deveau, OMAFRA
Application Tech Specialist

Rebecca Hallett
Entomologist, U of Guelph

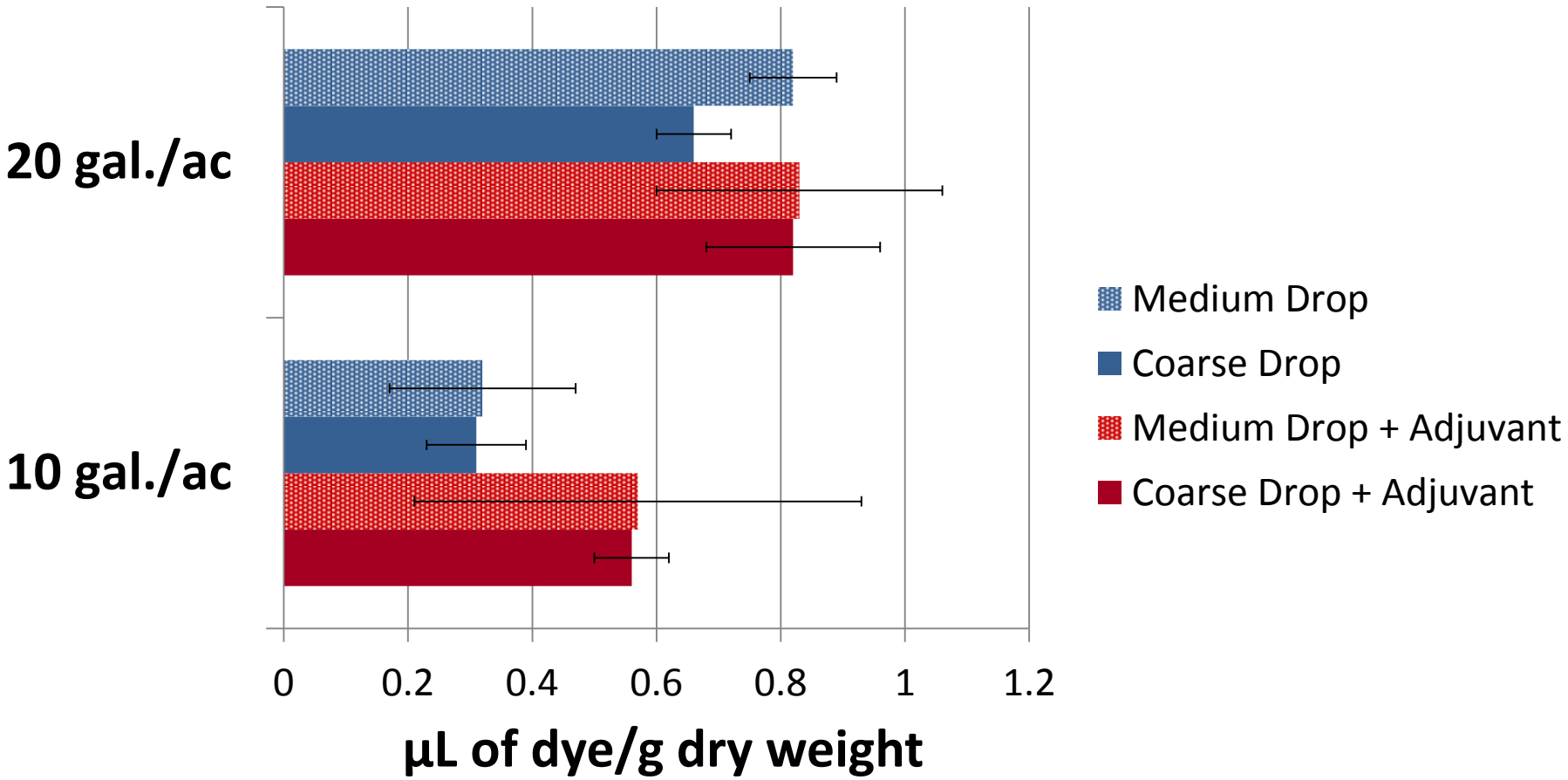
Nozzle and Volume



Coarse Spray Quality = AIXR11002

Medium Spray Quality = XR8003

Nozzle, Volume and Adjuvant



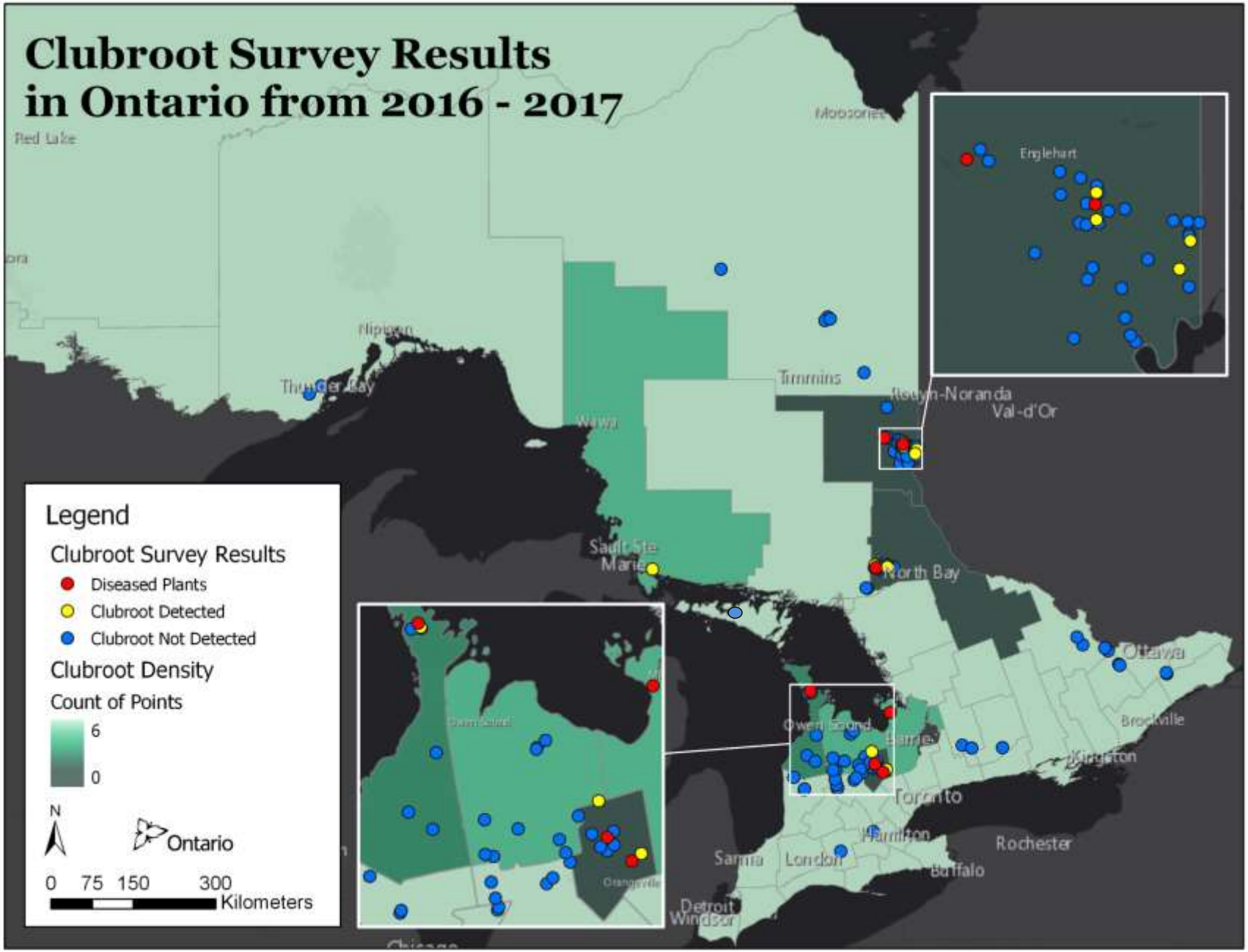
Coarse Spray Quality = AIXR11002

Medium Spray Quality = XR8003

Spray Quality for Swede Midge Control

2017: Test spray quality parameters in controlled environment.

2018-19: Compare optimal spray quality protocols to farmer's current practice in the field.


Clubroot Survey Results
in Ontario from 2016 - 2017
Red Lake
Thunder Bay
Timmins
Englehart
Rouyn-Noranda
Val-d'Or
Sault Ste Marie
North Bay
Ottawa
Brockville
Kingston
Toronto
Hamilton
Rochester
Buffalo
Sarnia
London
Detroit
Windsor
Owen Sound
Barrie
Legend
Clubroot Survey Results
Diseased Plants
Clubroot Detected
Clubroot Not Detected
Clubroot Density
Count of Points
6
0
N
Ontario
0 75 150 300
Kilometers

Clubroot Pathotypes

Dufferin: P2 and 8

Temiskaming: P2

Nipissing: P2

4 samples yet to be analyzed



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