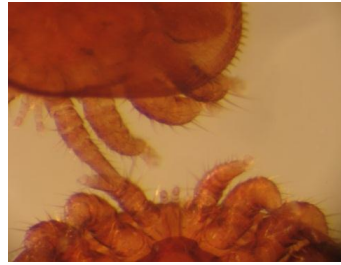


Apiculture in Ontario 2014 Industry Updates



Paul Kozak
Provincial Apiarist
Animal Health and Welfare Branch

Current Beekeeping Statistics 2014

	2013	2014
# of Registered Beekeepers	3,150	3,262
# of Producing Colonies	97,500	112,800
Winter Mortality (%)	38%	58%

80% of colonies managed by commercial beekeepers

Value of Ontario Honey: \$26 million

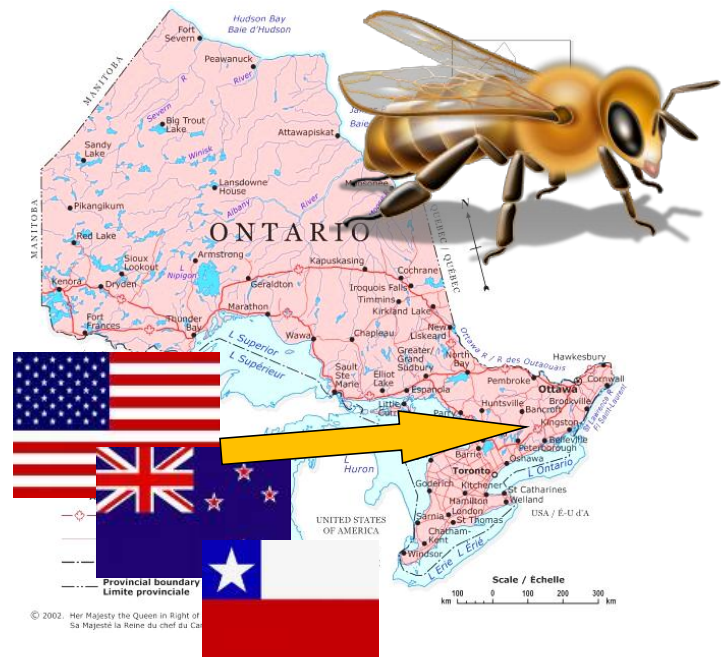
Value of Pollination in Ontario: \$395 million



Imports and Trade - 2014

Ontario imported:

- 33,050 queens
- 8,100 packages
- 1,600 colonies
- ~9,000 supers
- 1,000 for honey production



Pollination in Eastern Canada

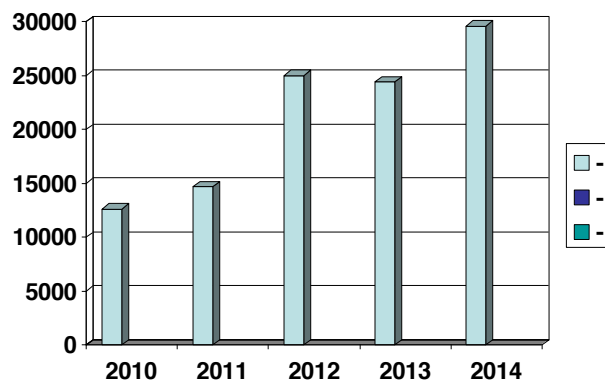
12,600 colonies – June 2010

14,700 colonies – June 2011

26,000 colonies – June 2012

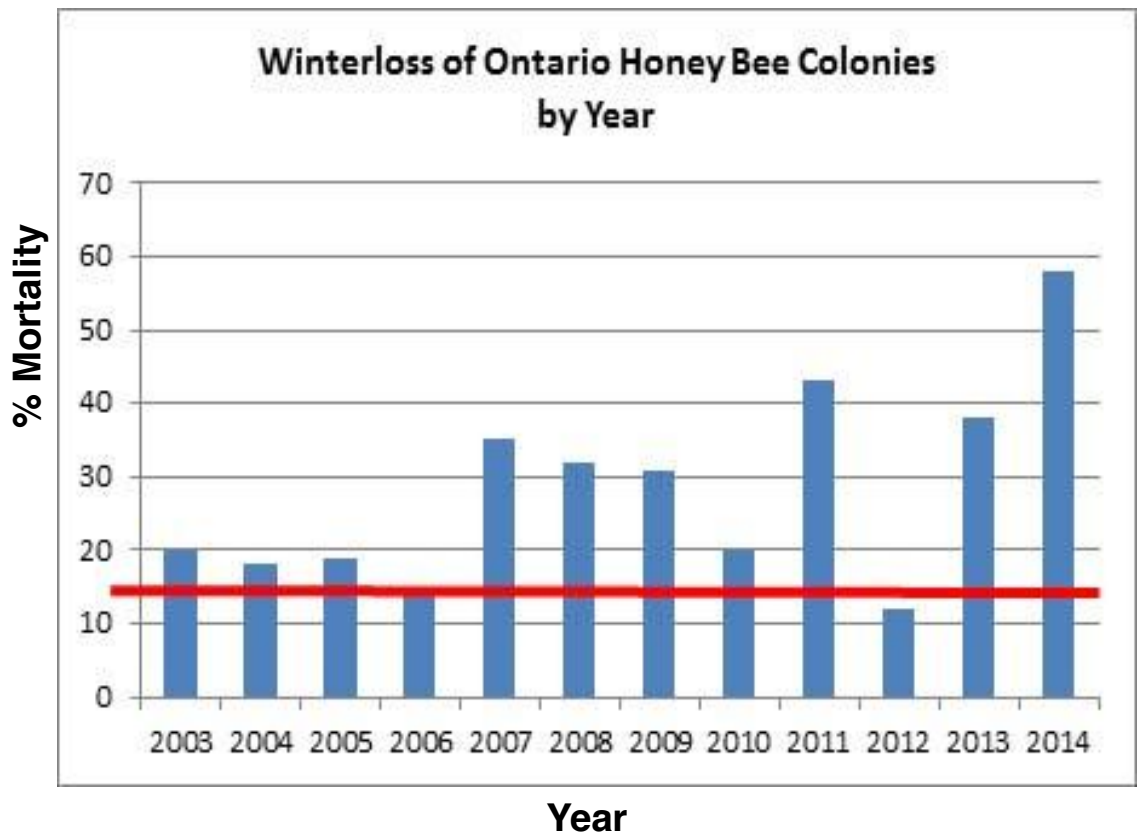
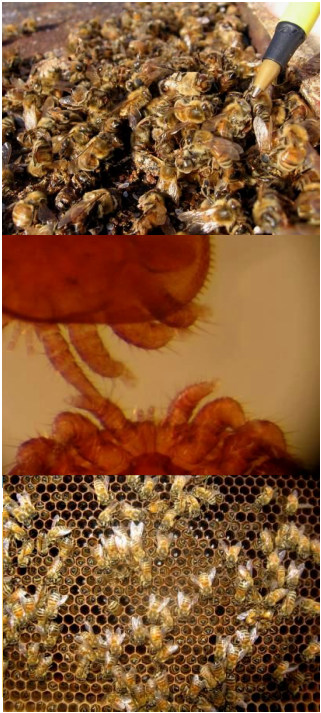
24,400 colonies – June 2013

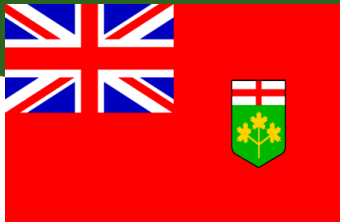
29,800 colonies – June 2014



[Source: OMAFRA]

Colony Mortality in Ontario (2003 to 2014)





Ontario Losses in Beekeeping

2010 *Varroa destructor* is the main culprit for the death and reduced populations of overwintered honey bee (*Apis mellifera*) colonies in Ontario, Canada.

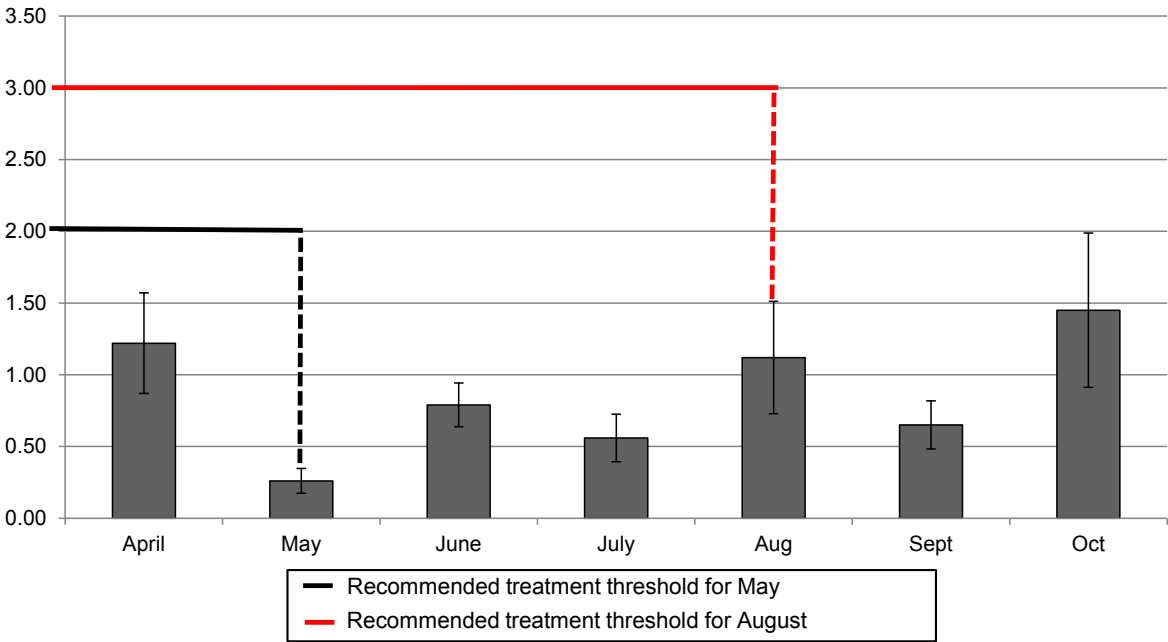


Guzman-Novoa, E.; Eccles, L.; Calvete, Y.; McGowan, J.; Kelley, P.G.; Correa-Benitez, A. 2010. *Varroa destructor* is the main culprit for the death and reduced populations of overwintered honey bee (*Apis mellifera*) colonies in Ontario, Canada. *Apidologie*. *In press*.



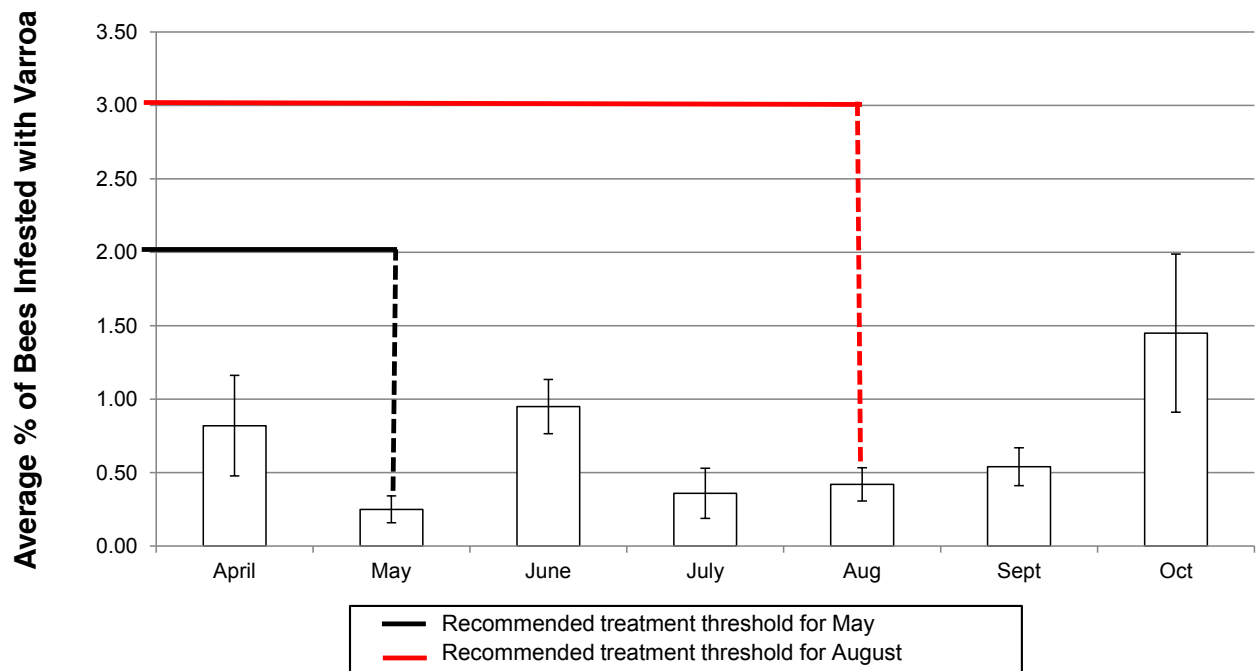
Analysis of Varroa Infestation from Ontario Apiary Inspections in 2014

Average % of Bees Infested with Varroa



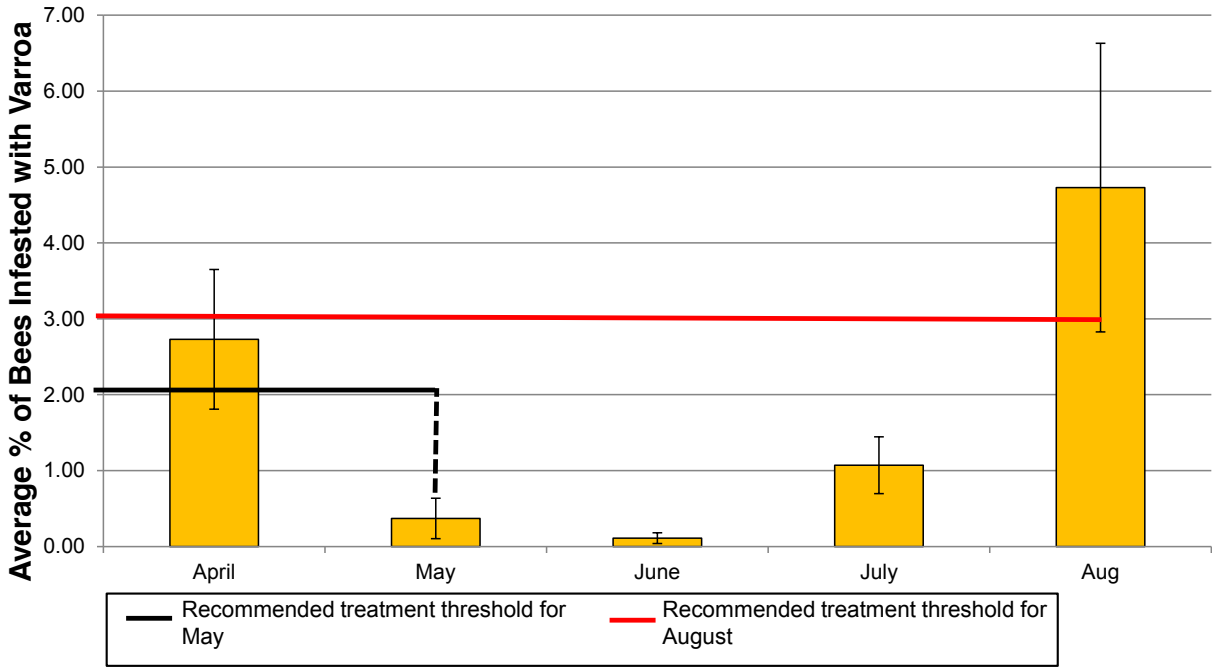


Analysis of Varroa Infestation from Ontario Apiary Inspections in 2014 at Commercial Yards





Analysis of Varroa Infestation from Ontario Apiary Inspections in 2014
at Non-commercial Yards



American Foulbrood

- **2014 Orders: 32**

- **2013 Orders: 30**

- **2012 Orders: 71**

- **2011 Orders: 29**

- **2010 Orders: 89**

- **2009 Orders: 27**



American Foulbrood (AFB) Treatment Options

- Oxytetracycline – used for years, shorter residual
- At present, no resistance to Oxytetracycline in AFB in Ontario
- Tylosin – new registration, longer residual (implications for spring use)



[Source: OMAFRA]

Bee Kill Reports – 2012, 2013, 2014



2012: ~240 reported incidents, 40 beekeepers
2013: ~320 reported incidents, ~80 beekeepers
2014: ~345 reported incidents, ~62 beekeepers
highest number reported in August

- Incidents reported in association to corn and soybean planting
- Bee, pollen, soil and water samples are being analyzed
- Reported symptoms include:
 - Abrupt loss in the population of the colony (lots of capped brood with few bees)
 - Dead and dying bees at the entrance
 - Disorientated, paralyzed and shaking bees

[Source: PMRA; OMAFRA]

Questions

