

Manitoba Reported Honey Bee Wintering Losses for 2019-20

	Province:	Manitoba
	The type of data collection ¹ :	email survey & promoted by beekeeper associations
	Number of surveyed beekeepers	224
	Number of respondents:	67
	Size of surveyed beekeeping operations ² :	50+ colonies
	Number of full-sized colonies put into winter in fall 2019 (for the surveyed beekeepers) :	52,334
	Number of full-sized colonies that survived the winter and were considered viable (for the surveyed beekeepers) ³	39,426
	Percent of loss (calculated as (C7- C8)/C7*100) :	24.7%
	Number of full-sized colonies put into winter outdoor in fall 2019 (for the surveyed beekeepers) :	26,690
	Number of full-sized colonies that survived the winter outdoor and were considered viable (for the surveyed beekeepers) ³	19,315
	Percent of loss outdoor wintering (calculated as (C10 - C11)/C10*100)	27.6%
	Number of full-sized colonies put into winter indoor in fall 2019 (for the surveyed beekeepers) :	25,644
	Number of full-sized colonies that survived the winter indoor and were considered viable (for the surveyed beekeepers) ³	20,111
	Percent of loss indoor wintering (calculated as (C13- C14)/C13*100) :	21.6%
From the survey (considering the adopted definitions)	Top four main causes of death according to the beekeepers (with ranking – 1 to 4) :	Starvation
		Poor Queens
Weather Conditions		
Weak Colonies in the fall		
Top four main causes of death according to the beekeepers who reported higher than (>) 25% losses ⁵ (with ranking – 1 to 4) ⁴ :	Starvation	
	Weather Conditions	
	Poor Queens	
	Don't Know	
	Varroa monitoring: % of beekeepers using sticky boards	10.1
	Varroa monitoring: % of beekeepers using alcohol wash	58
	Varroa treatment in Spring 2019: % of beekeepers who treated	75.3
	Varroa treatment in Spring 2019: 3 main methods of treatment	Apivar>Formic>Oxalic
	Varroa treatment in Summer/Fall 2019: % of beekeepers who treated	87.5
	Varroa treatment in Summer/Fall 2019: 3 main methods of treatment	Oxalic>Apivar>Formic
	AFB treatment in Spring 2019: % of beekeepers who treated with oxytetracycline	29.4
	AFB treatment in Spring 2019: % of beekeepers who treated with tylosin	0
	AFB treatment in Spring 2019: % of beekeepers who treated with lymcomycin	0
	AFB treatment in Summer/Fall 2019: % of beekeepers who treated with oxytetracycline	17.6
	AFB treatment in Summer/Fall 2019: % of beekeepers who treated with tylosin	5.9
	AFB treatment in Summer/Fall 2019: % of beekeepers who treated with lymcomycin	0
	Nosemosis treatment in Spring 2019: % of beekeepers who treated with fumagillin	7.4
	Nosemosis treatment in Spring 2019: % of beekeepers who reported at least one "other" product	5.9
	Nosemosis treatment in Spring 2019: 3 most frequently reported "others" product	
	Nosemosis treatment in Fall 2019: % of beekeepers who treated with fumagillin	7.4
	Nosemosis treatment in Fall 2019: % of beekeepers who reported at least one "other" product	4.4
	Nosemosis treatment in Fall 2019: 3 most frequently reported "others" product	
From Statscan	Total number of hives operated in your province in 2019	114,668
From your registration database	Total number of hives operated in your province in 2019	114,668

1. online, email, telephone, postal, ...

2. detail, per ex.: operations with more than X colonies

3. on May 1st (British Columbia), May 15th (Ontario, Quebec and Maritimes) or May 21st (Newfoundland, Alberta, Saskatchewan and Manitoba) (for the surveyed beekeepers):

4. 1= the most often checked/cited cause, 2= the second most often checked cause...

5. Consider only answers from operations with more than 25% losses