

Supporting information: L Morawetz, H Köglberger, A Griesbacher, I Derakhshifar, K Crailsheim, R Brodschneider, R Moosbeckhofer; Health status of honey bee colonies (*Apis mellifera*) and disease-related risk factors for colony losses in Austria

S13 Table. Winter losses of study colonies, participating apiaries (N=188) and participating operations (N=188). The losses are calculated for two different definitions of winter loss: (1) dead colonies and (2) dead colonies and living colonies with unsolvable queen problems in spring. 95%CI = 95 % Confidence Interval.

Sample group	Nº colonies in autumn	Nº dead colonies in spring	Nº queenless colonies in spring	Winter loss – only dead colonies [Percentage (95%CI)]	Winter loss – dead + queenless colonies [Percentage (95%CI)]
Beekeeping operation	12 540	659	421	5.3 % (4.1-6.7 %)	8.6 % (7.5-9.9 %)
Sample apiary	2 810	211	74	7.5 % (5.8-9.7 %)	10.1 % (8.3-12.4 %)
Sample colonies	1 554	131	32	8.4 % (7.1-9.9 %)	10.5 % (9.0-12.1 %)