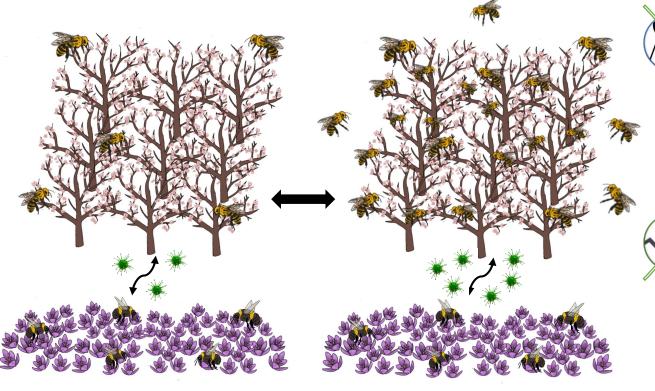
## Impact of commercial honey bee importation on viral prevalence in wild bees



PARAMETERS	
Birth rate	Virulence (sublethal -> lethal)
Natural death rate	Disease death rate
Host population density	Transmission rate
Pathogen production rate	Pathogen decay rate
Vectors present/absent	Behavior (foraging rate)





How fast does the virus spread?



When is there peak prevalence?





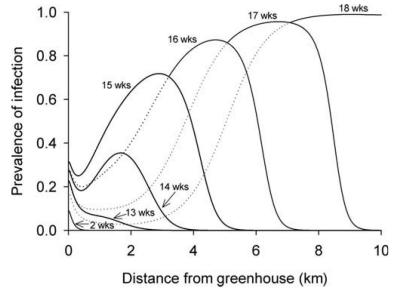


Figure 1. Predicted long-term dynamics of pathogen spillover into wild bumble bee populations near greenhouses. Prevalence

M. C. Otterstatter, J. D. Thomson. PLOS ONE 3, e2771 (2008).