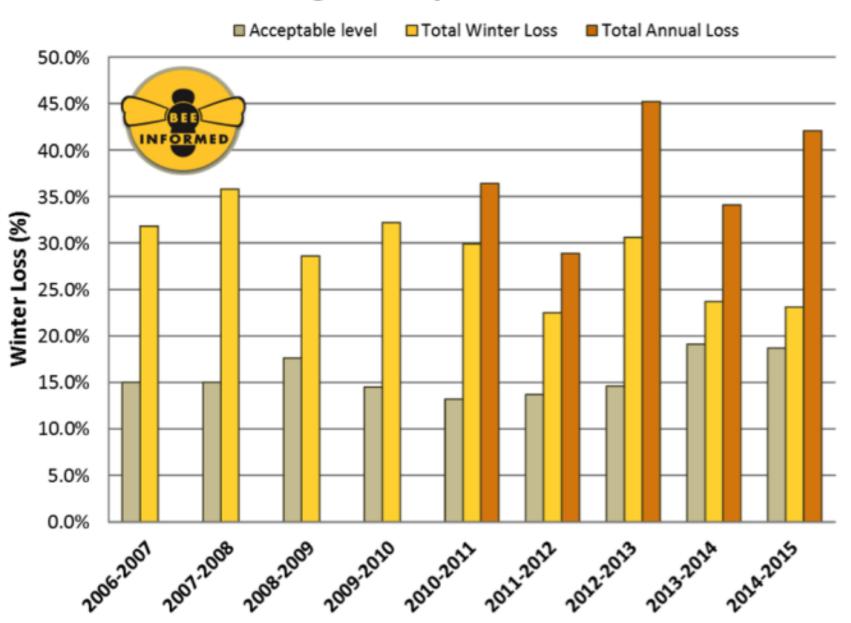
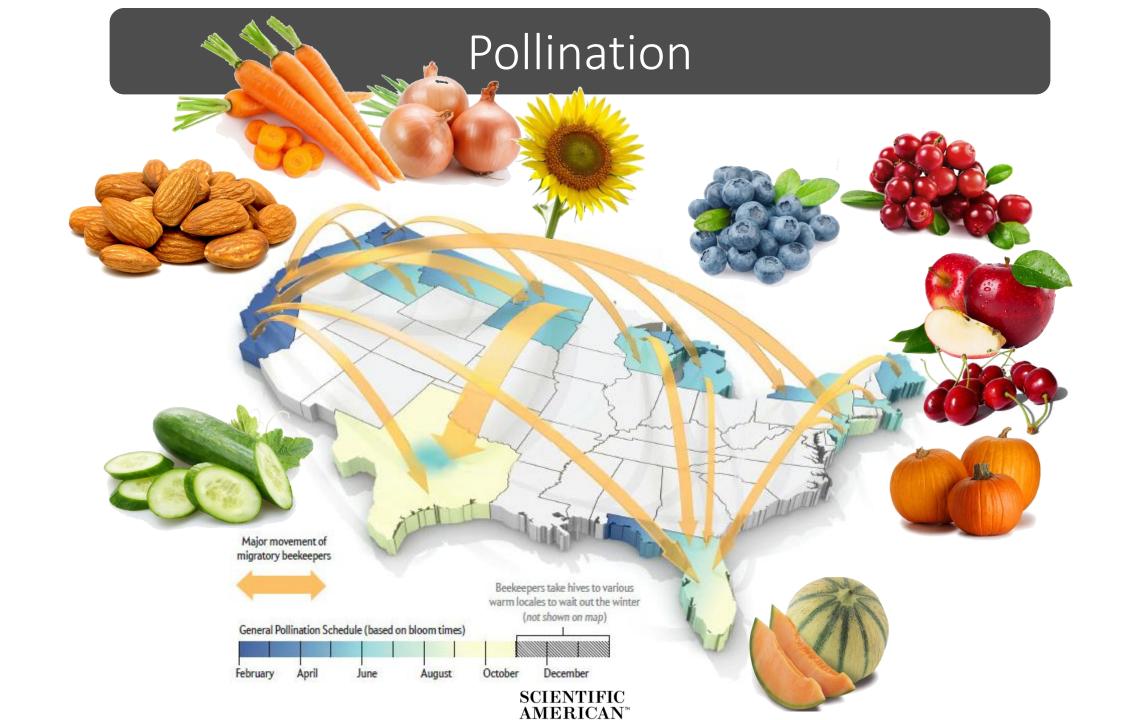
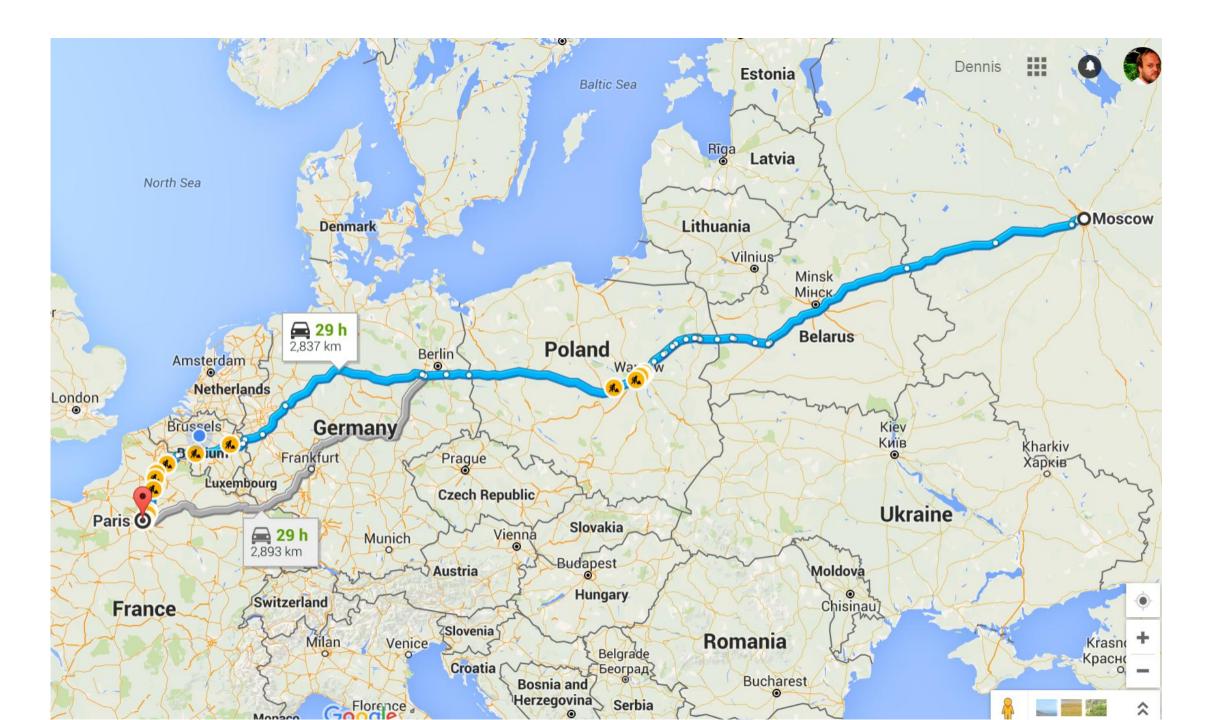


#### **Total US managed honey bee colonies Loss Estimates**

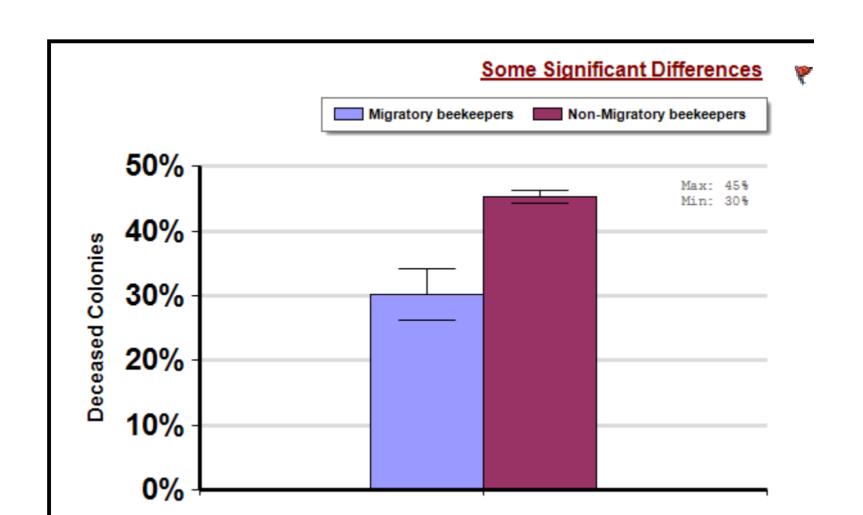




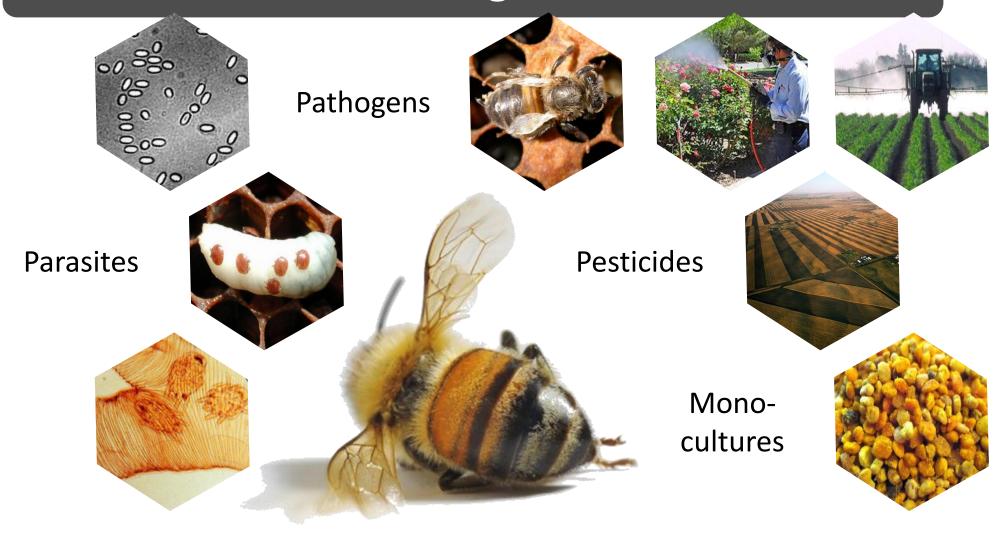




### Migratory vrs Stationary Operations



### What is killing the bees?



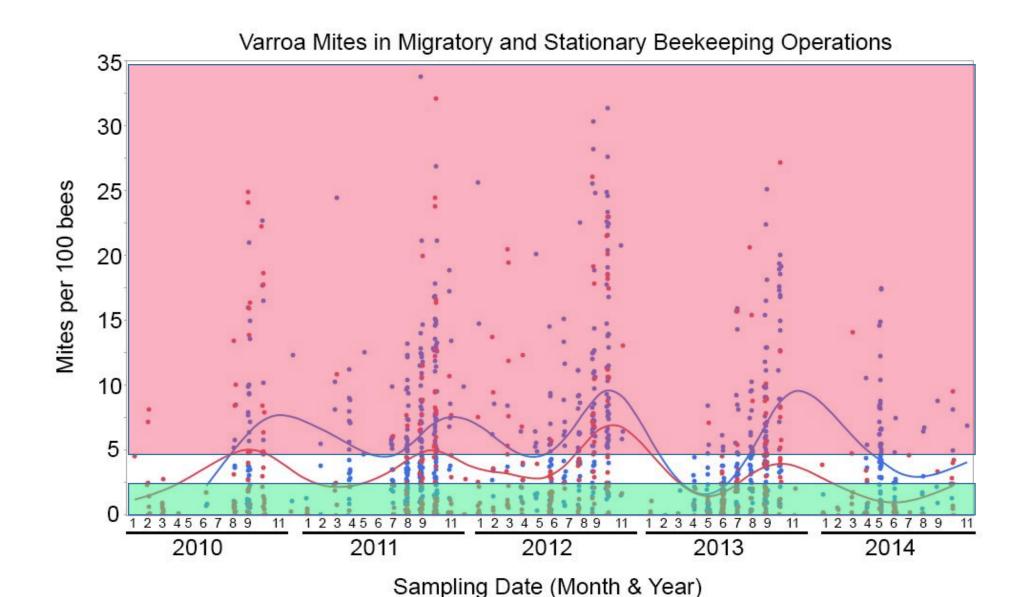
Multiple, Interacting Causes of Death

Habitat destruction

Poor Nutrition



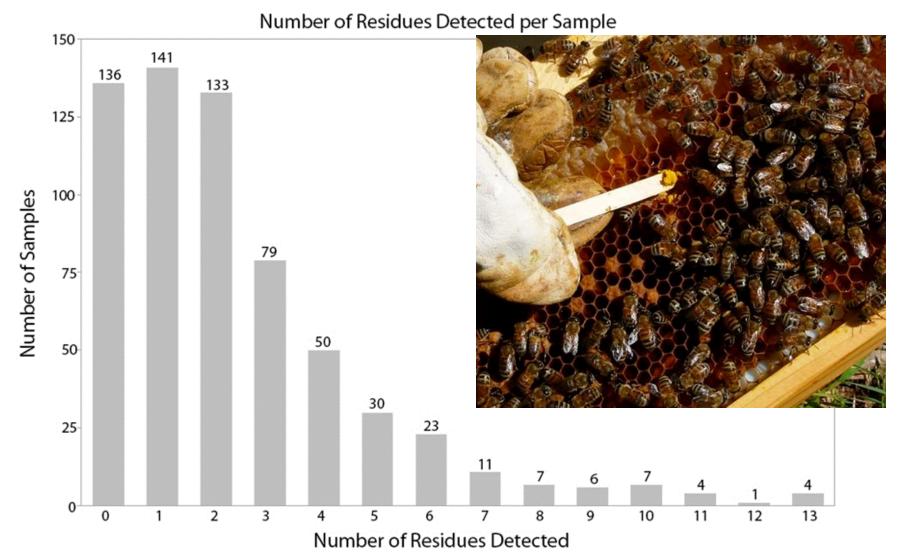
# Mean Varroa over time for migratory (red) & stationary (blue) beekeepers



N=633
21 % had no detectable contamination Pesticide Detections
Mean 2.36 products

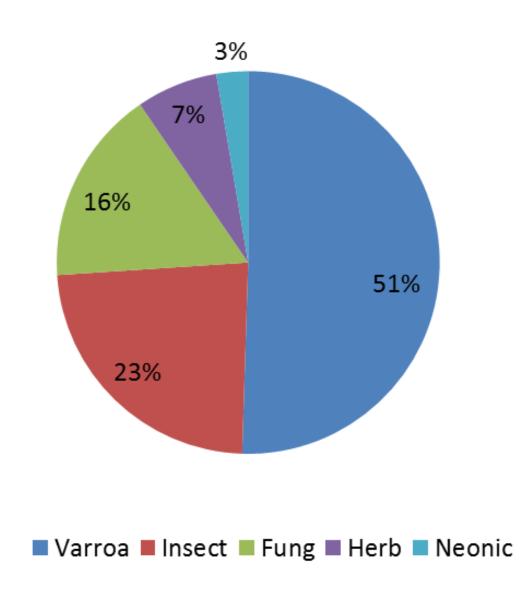
Many avaluating no data at a 2

Mean excluding no detects: 3

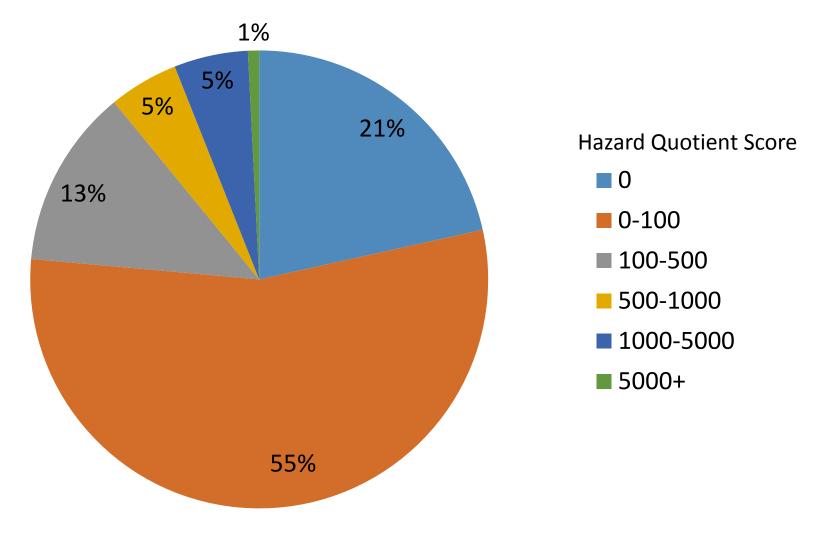


#### Pestic

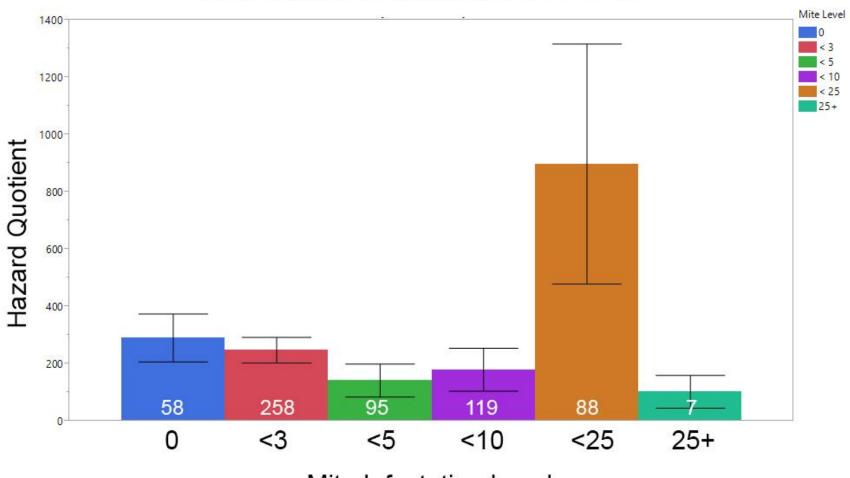
#### **Pesticide Detections by Class**



## Frequency of Samples with varying HQ

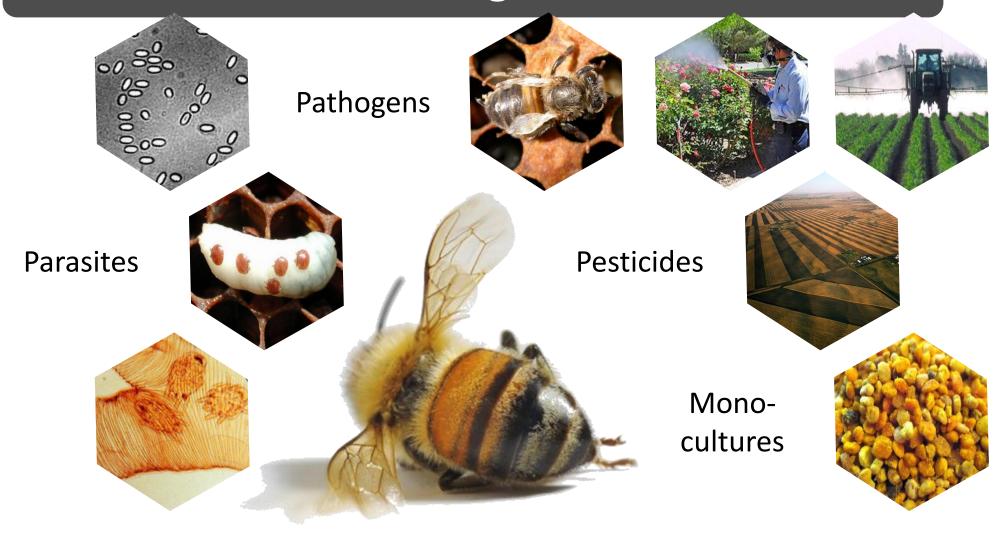


#### Mite infestation levels influence on HQ



Mite Infestation Level

### What is killing the bees?



Multiple, Interacting Causes of Death

Habitat destruction

Poor Nutrition

