

Storyboard Feedback for: **Tim**

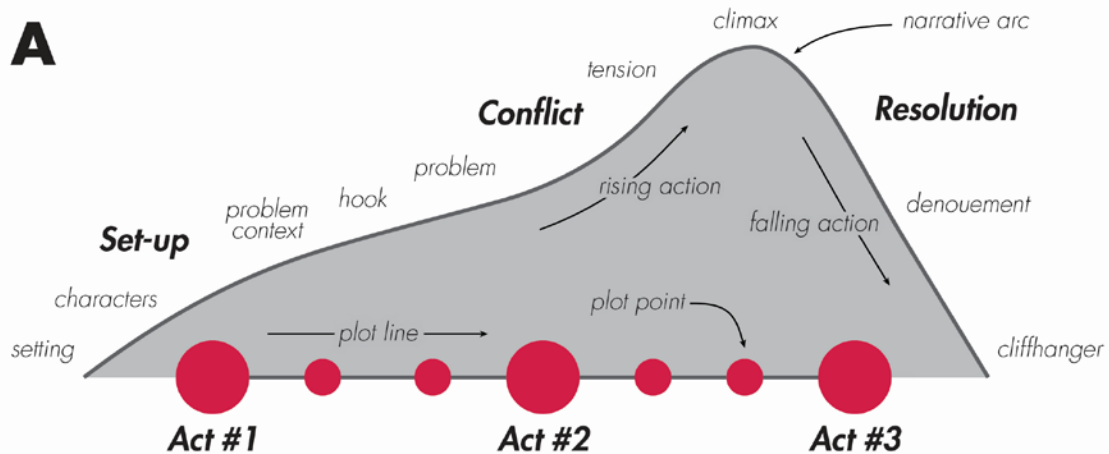
Grade: **5/5 points**

Hi Tim,

Thank you for your submission. Your title is cute. As it is drawn, it is difficult for the eye to track the reading order. Be sure to leave enough space between content to allow us to accurately follow the path of the bee. Your storyboard is well-developed, but you could use some more details around the beekeeping industry: who is beekeeping, how, etc? What are pollinator services? Etc. You could also do some work on the ordering of topics you introduce/the narrative elements, and provide clear transitions between sections, such as between the almond frame and the migrating beekeepers frame. Be sure to fully develop/finish Act 3 in your final. Great job so far. Be sure to pay attention to the details, not assuming that your general audience knows what may be obvious to you (the “expert”).

I’m really excited to see this in its final stage!

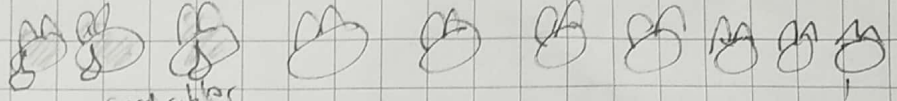
-Alicia



# Bee-aware

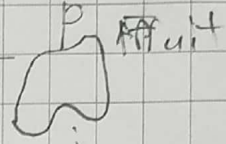
The average mortality rate for honey bees in winter is 15%

Since 2006, ~~this~~ rate has risen to almost 30%



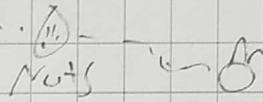
vegetables

berries



fruit

80% of total pollination done by bees



nuts

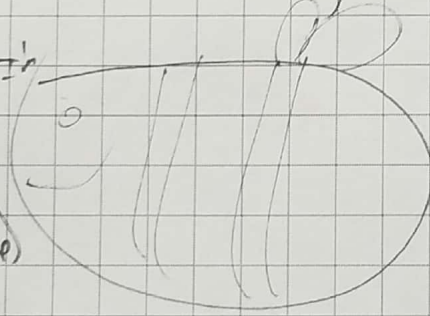


3 out of every

bites comes from honeybee pollinators

Who is our honey bee?

Hi, I am not from around here. I'm Apis mellifera (please call me the European honey bee)



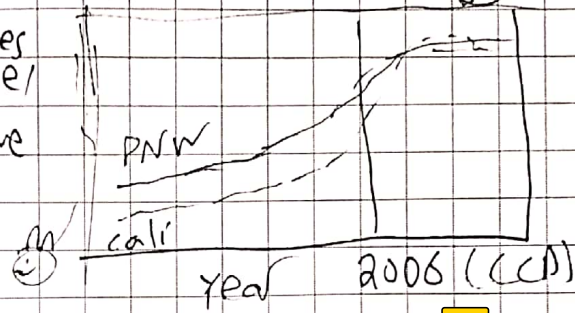
\$15 billion

The amount of value honeybees provide

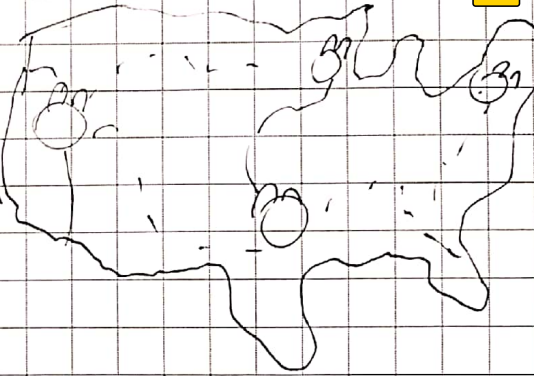
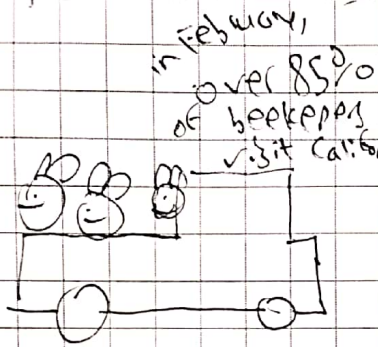
But, bee colonies are skyrocketing in price!



Almonds account for 32% of pollinator services in the U.S. and can provide a good sense of overall honeybee health



## P.16 Economic effects



over 1600 migrating beekeepers travel throughout the US from Feb-November - Mig bogging

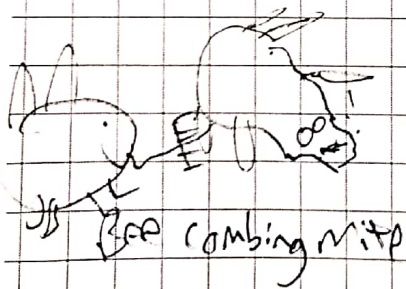
What could possibly go wrong with ~~all these~~ over a billion bees in one place?

"Blinging so many bees together all at once in California's Central valley and other flowering sites guarantees they will spread mites, viruses, and fungi to one another."

Jagr, Ferns, Scientist American

Mites act as parasites and disease vectors.

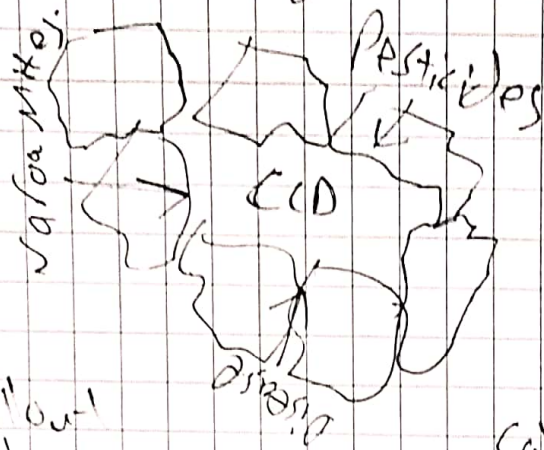
To fight this, bees groom themselves by using their legs as combs to remove mites.



But, when bees are subject to pesticides, they begin to groom themselves less...

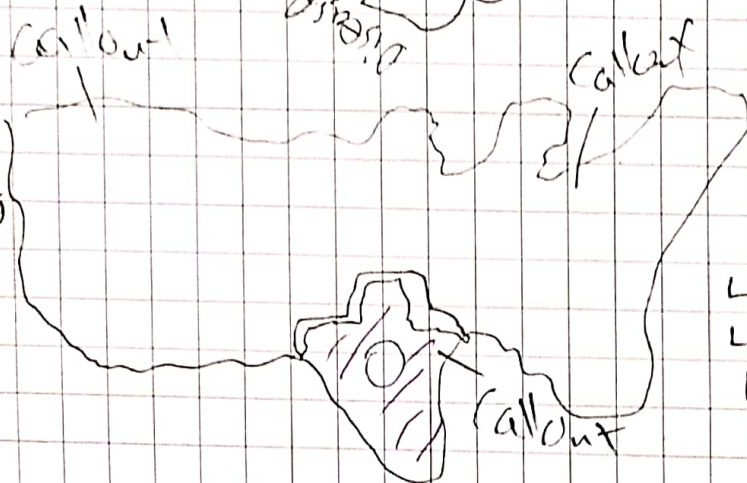


The combination of pesticides, varroa mites, and diseases are thought to play the largest role in colony collapse disorder (CCD)



Definition of CCD

\* Note on excluding other  
→ justify literature

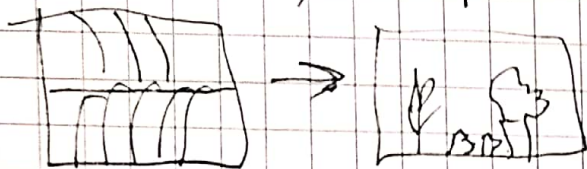


Multivariate map

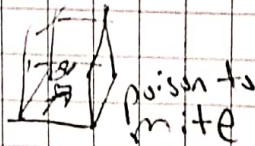
- Prop symbol
- fill (graduated)
- stroke (graduated)
- pesticides
- mite
- disease
- since overlap

What can be done?

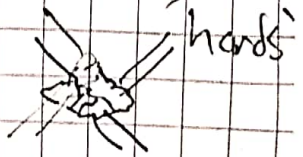
Use diversity as a pesticide



Design smart hives



Advocate for pesticide ban



Despite the recent surge in efforts to save honeybees, the USDA suspended in July 2019 data collection for Honey Bee Colonies survey. Although managed honeybees remain the chief concern, we must not forget the role of other natural pollinators



These pollinators, like honeybees, are declining in numbers...

Both natural and managed pollinators are essential to our ecosystem.