







Honey Bee Update 2018 Jennifer Berry www.ent.uga.edu/bees





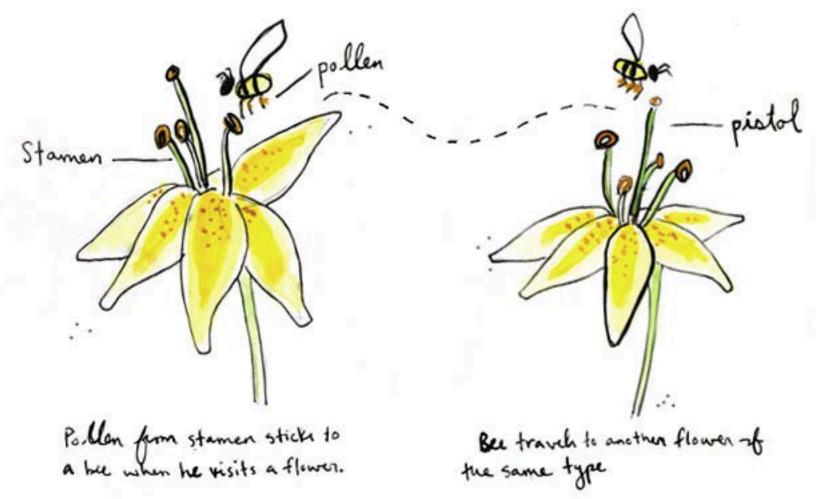


Nectar - Honey Carbohydrate source









Pollination
Huge economic/environmental impact

Why are honey bees such great pollinators?



Move then into locations we choose



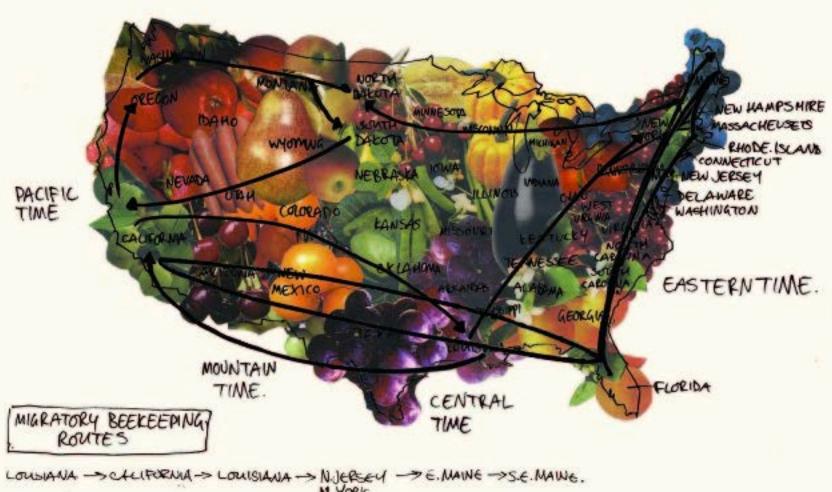












N. YORK

MAGS

FLORIDA -> N.JERSEY -> MASSACHEUSETS -> FLORIDA. N.HAMPSHIRE MAINE

FLORIDA -> CALIFORNIA -> FLORIDA -> MAINE -> MASS. -> FLORIDA











Reasons why bees are dying



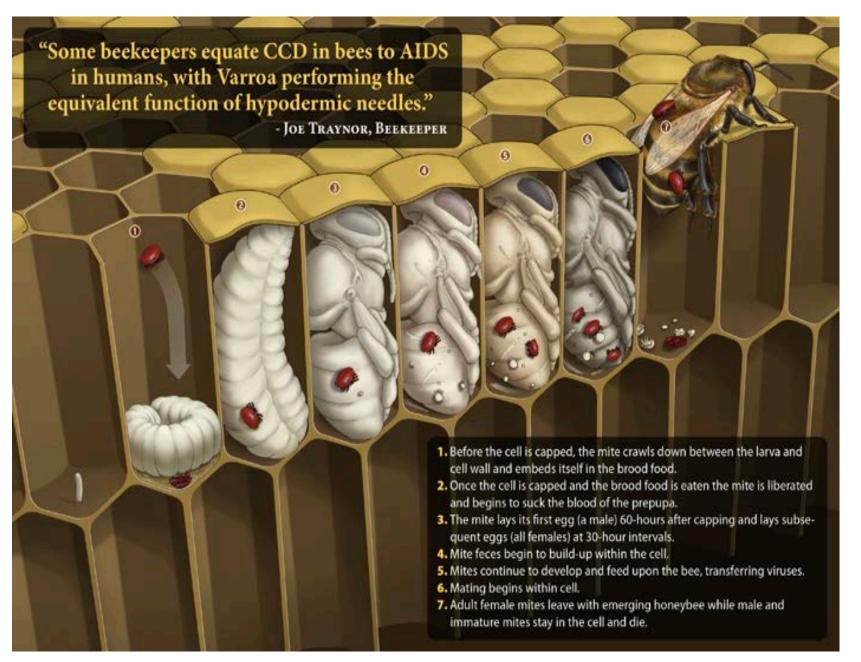
Varroa destructor











Tony Linka Illustration

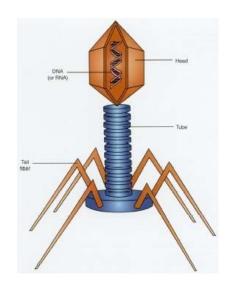
Feeding on fat bodies





Viruses are old, mites are new!

Feeding on the bees is how these viruses are transmitted.





Good Ole Days



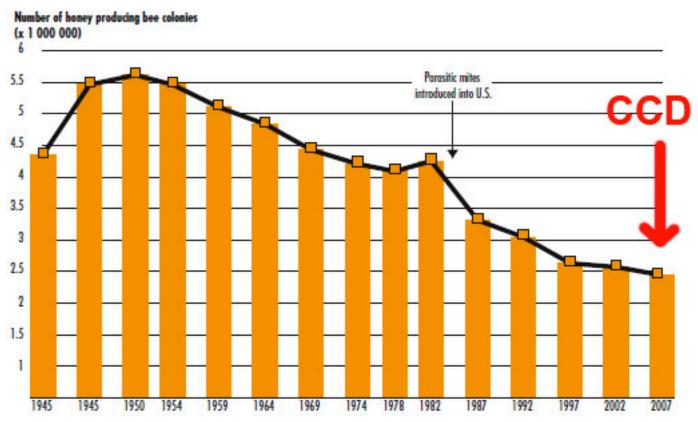








Figure 4: US honey-producing colonies



Data source: U.S. Department of Agriculture's (USDA) National Agricultural Statistics Service (NASS) NB: Data collected for producers with 5 or more colonies. Honey producing colonies are the maximum number of colonies from which honey was taken during the year. It is possible to take honey from colonies which did not survive the entire year.



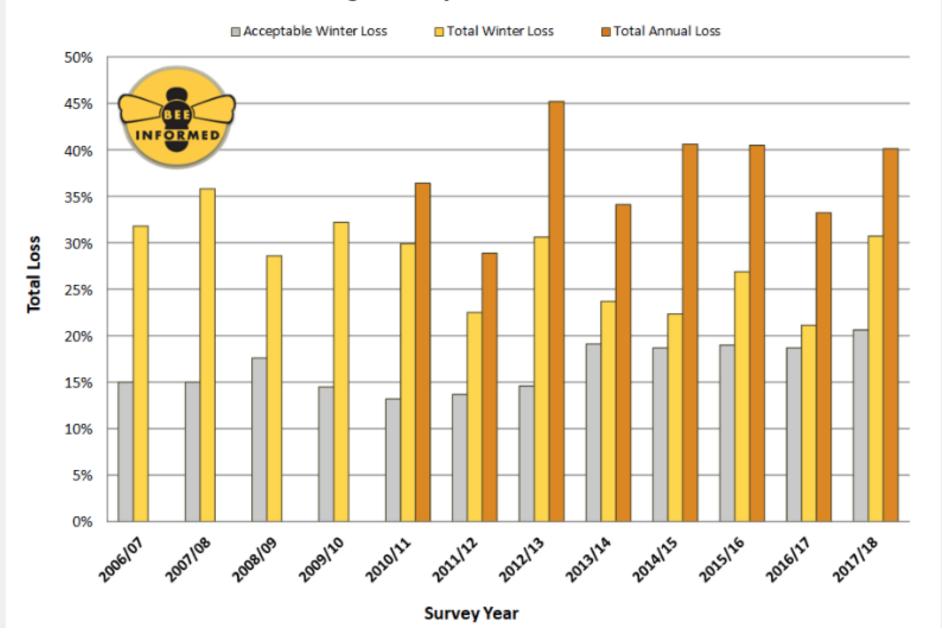




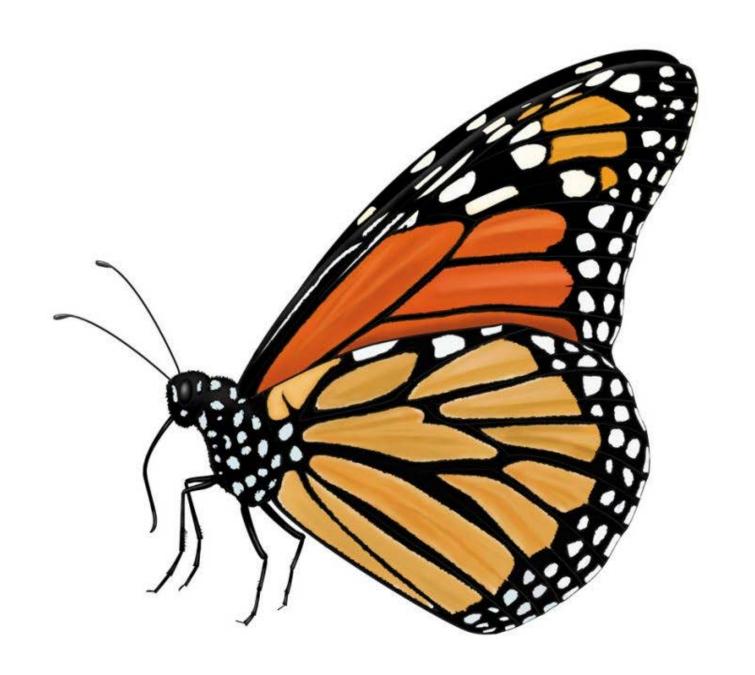


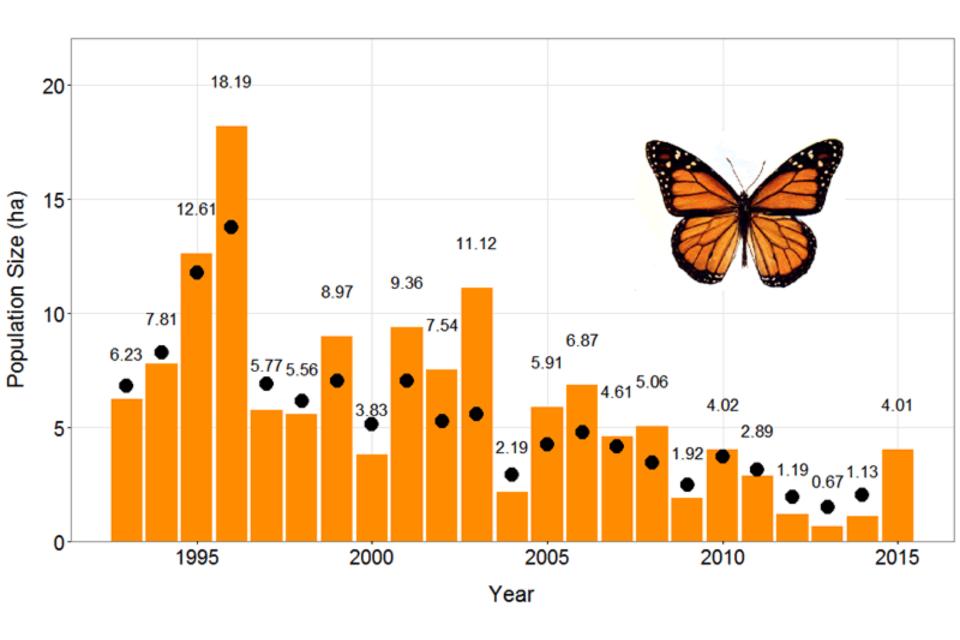


Total US managed honey bee colonies loss estimates





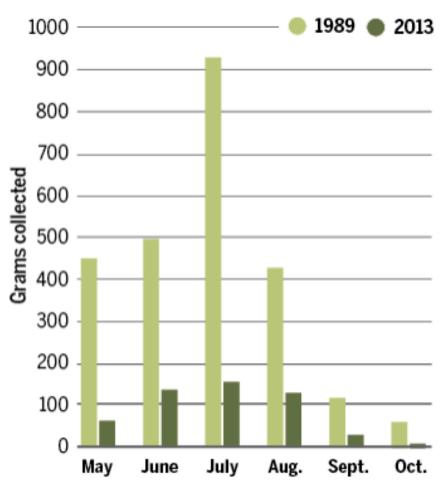




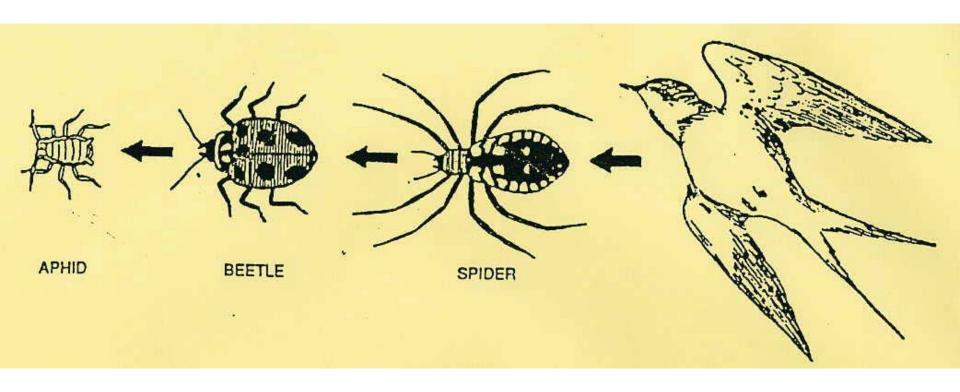


Weighty disappearances

The mass of insects collected by monitoring traps in the Orbroicher Bruch nature reserve in northwest Germany dropped by 78% in 24 years.



(GRAPHIC) G. GRULLÓN/SCIENCE; (DATA) M. SORG ET AL., MITTEILUNGEN AUS DEM ENTOMOLOGISCHEN VEREIN KREFELD 1, 1 – 5 (2013) © 2013 ENTOMOLOGISCHER VEREIN KREFELD











Why the decline?

- Loss of habitat due to agriculture and human development
 - Loss of food to grazing and crop lands not suppling a diverse wildflower mixture which insects prefer
 - Loss of countryside to concrete and buildings doesn't provide for shelter and nesting sites
- Pesticide Use
 - Herbicides, fungicides and insecticides

What can we do?

Plant or protect trees for wildlife

- Red Maple
- Redbud
- Tupelo
- Sourwood
- Black Locust
- Basswood
- Tulip Poplar
- American Holly



Shrubs

Native Blueberry

- Titi
- Gallberry
- Blackberry
- Laurel
- Privet
- Sumac
- Butterfly Bush
- Buttonbush



Annuals/Perennials

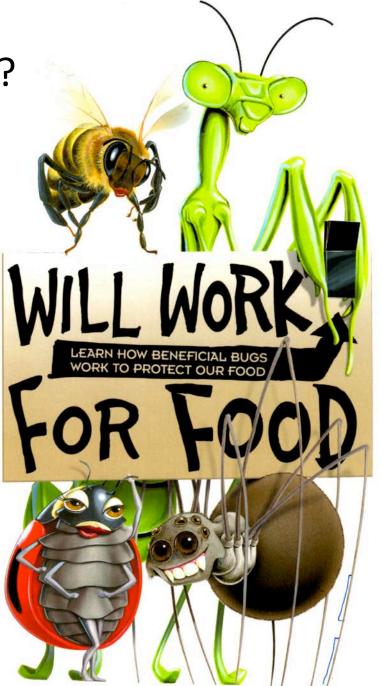
- Sunflowers
- Coneflowers
- Salvia
- Mountain Mint
- Mexican Sage
- Asters
- Zinnias
- Goldenrod
- Aster







Any Questions?









Buy local honey





