

**CANARIES IN A COAL MINE:  
WHY POLLINATORS ARE  
SENSITIVE TO GLOBAL CHANGE  
AND HOW YOU CAN HELP THEM**

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**UCR CNAS 2016 SCIENCE LECTURE SERIES**









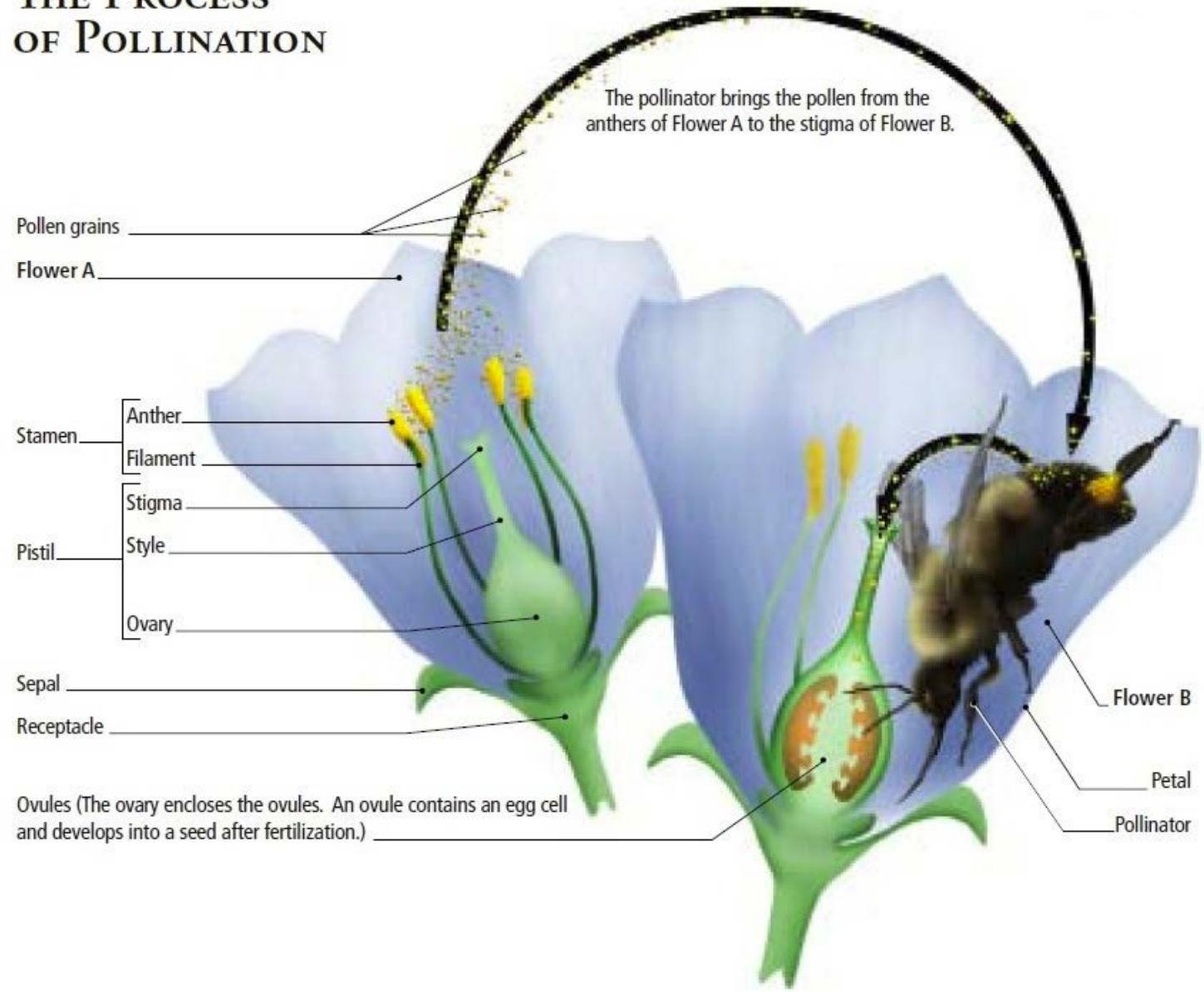


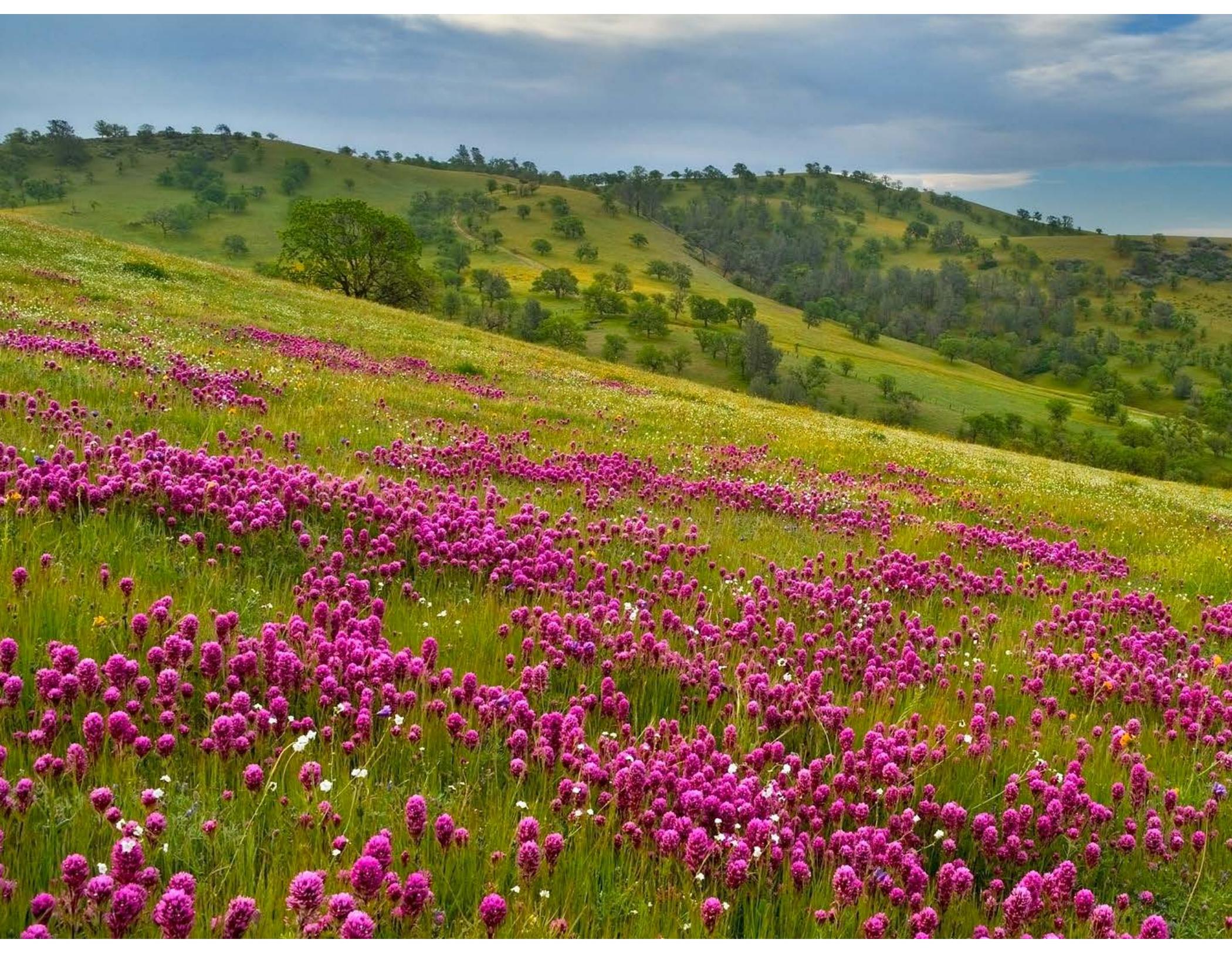


IMAGE: SAM DROEGE

**WHAT IS POLLINATION?**

# THE PROCESS OF POLLINATION







OP



ASP



T

The influence of different pollination treatments on the development of the strawberry.

OP=open pollination, ASP=autonomous self pollination, T =wind and self pollination



**WHO ARE POLLINATORS?**



IMAGE: SAM DROEGE



IMAGE: SAM DROEGE







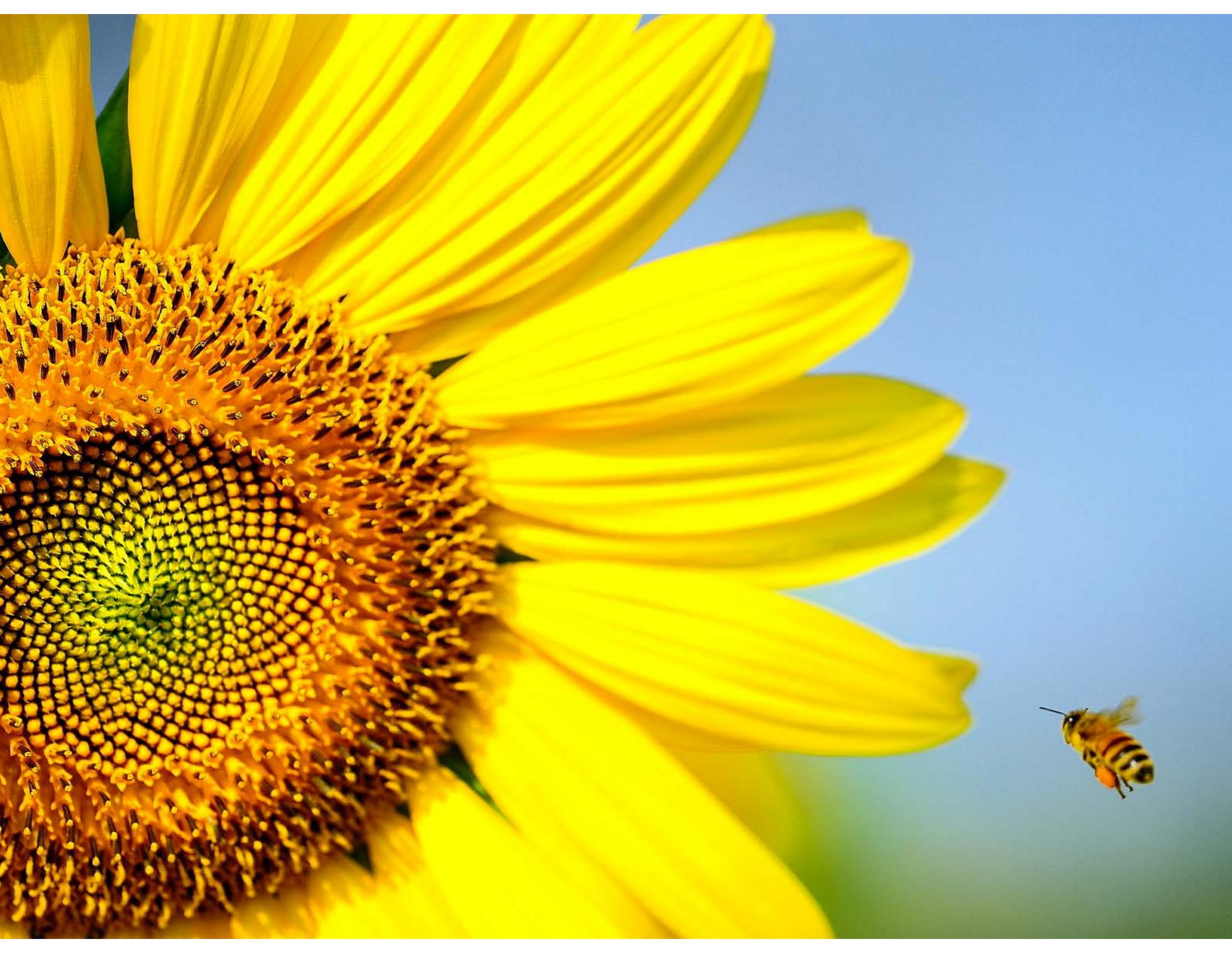


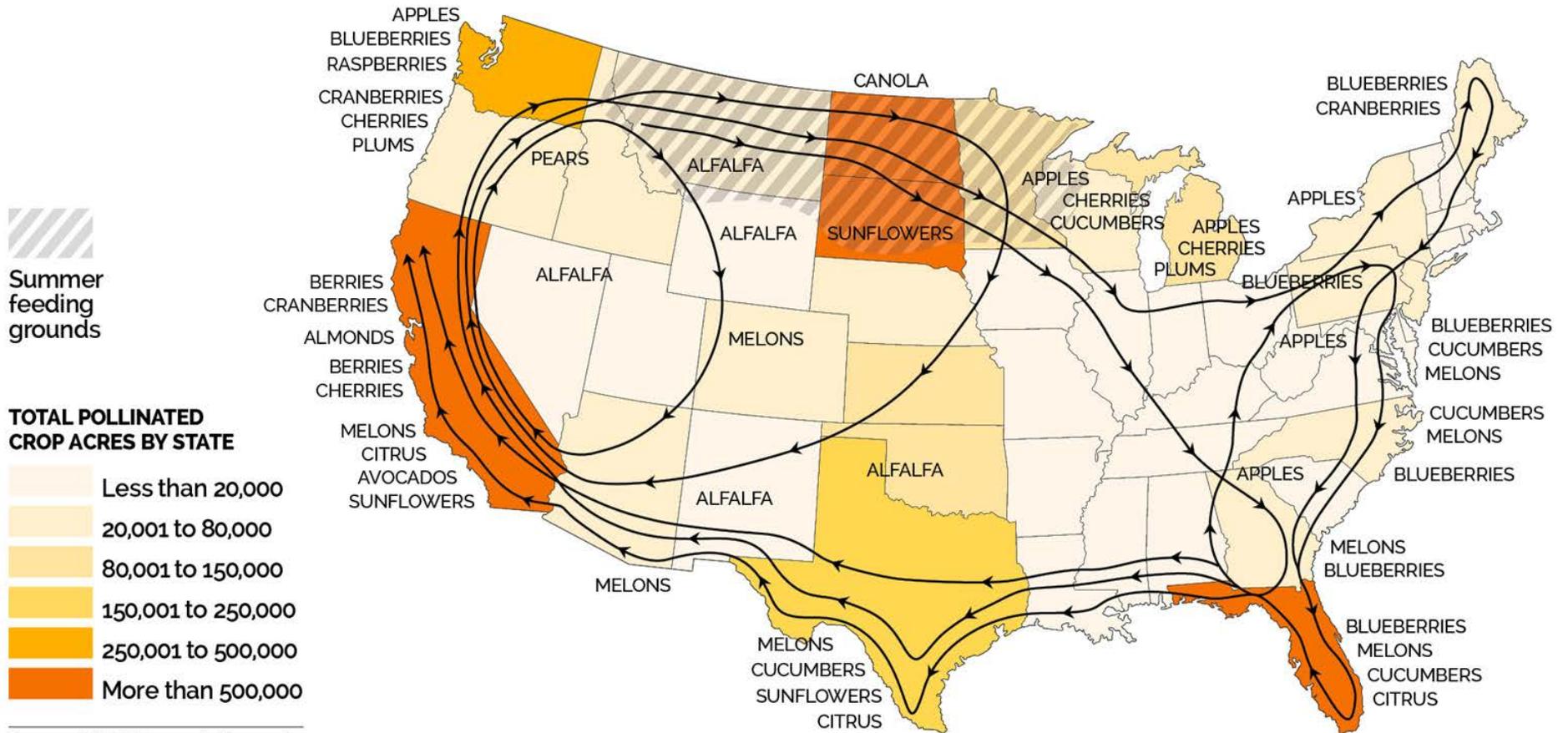


IMAGE: SAM DROEGE





# Pollinator Movements in the United States

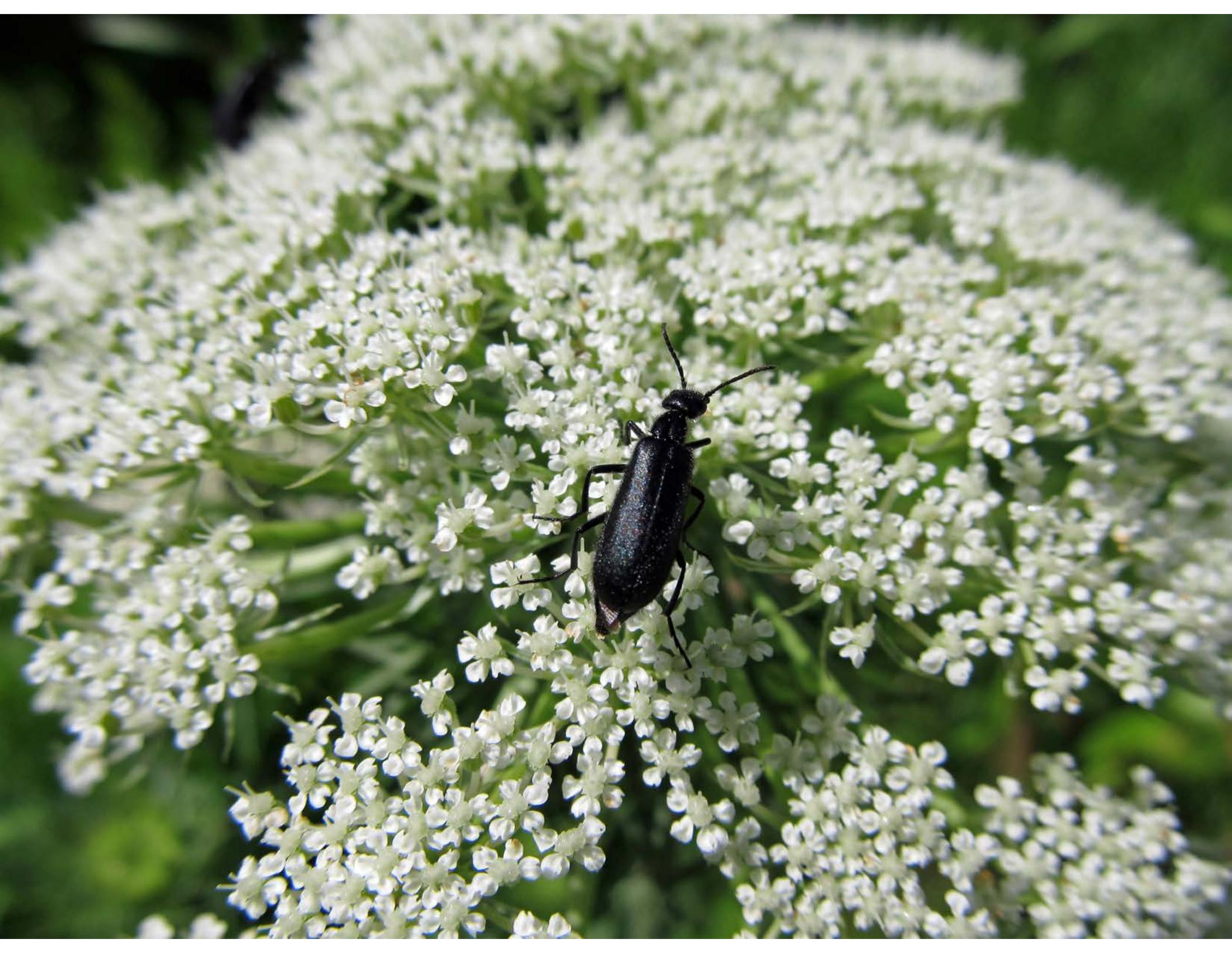


Source: USDA Economic Research Service, 2014







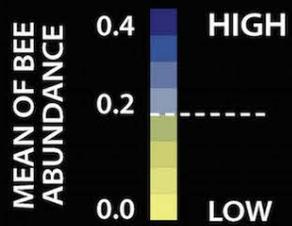






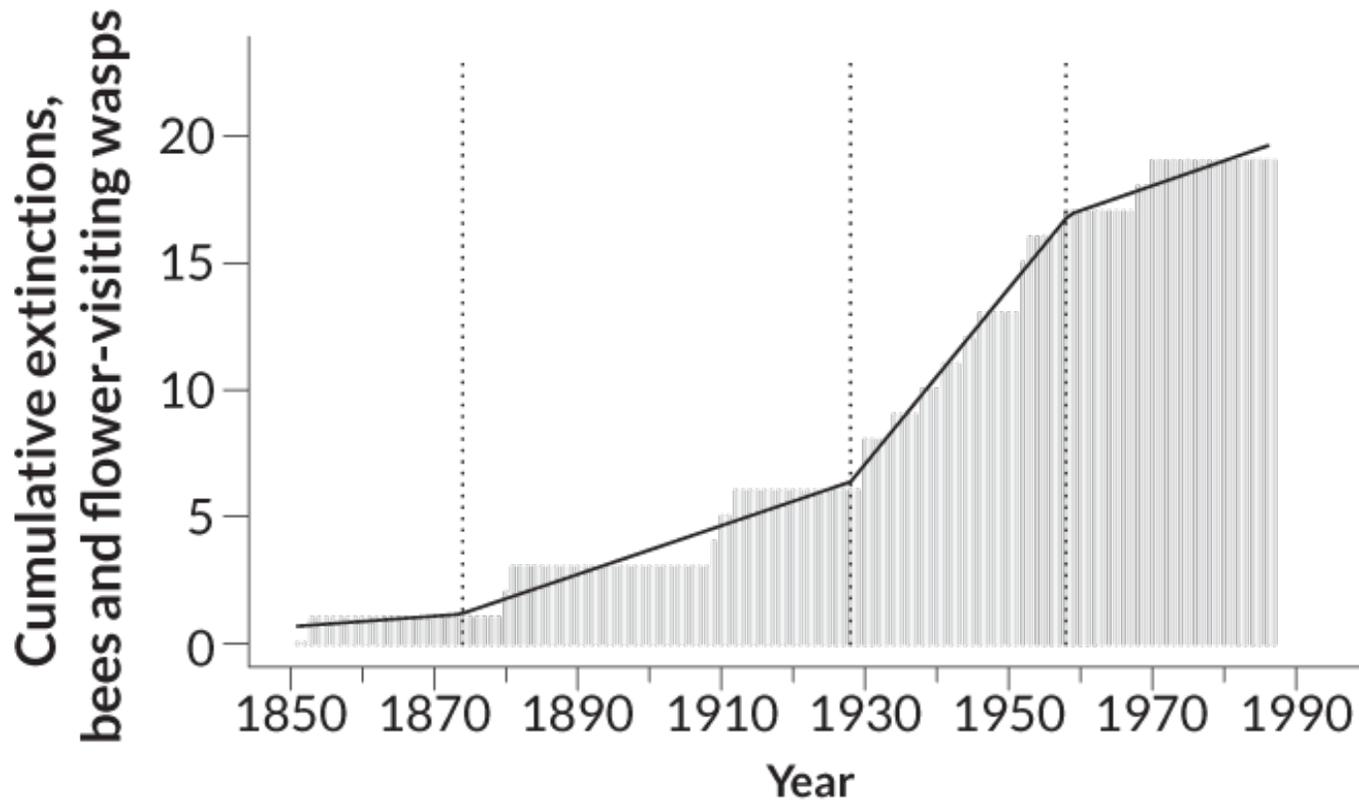
**WHY ARE POLLINATORS  
SENSITIVE TO GLOBAL  
CHANGE?**

# WILD BEE ABUNDANCE ACROSS THE U.S.



THE UNIVERSITY OF VERMONT

## Cumulative pollinator loss in Britain since 1850

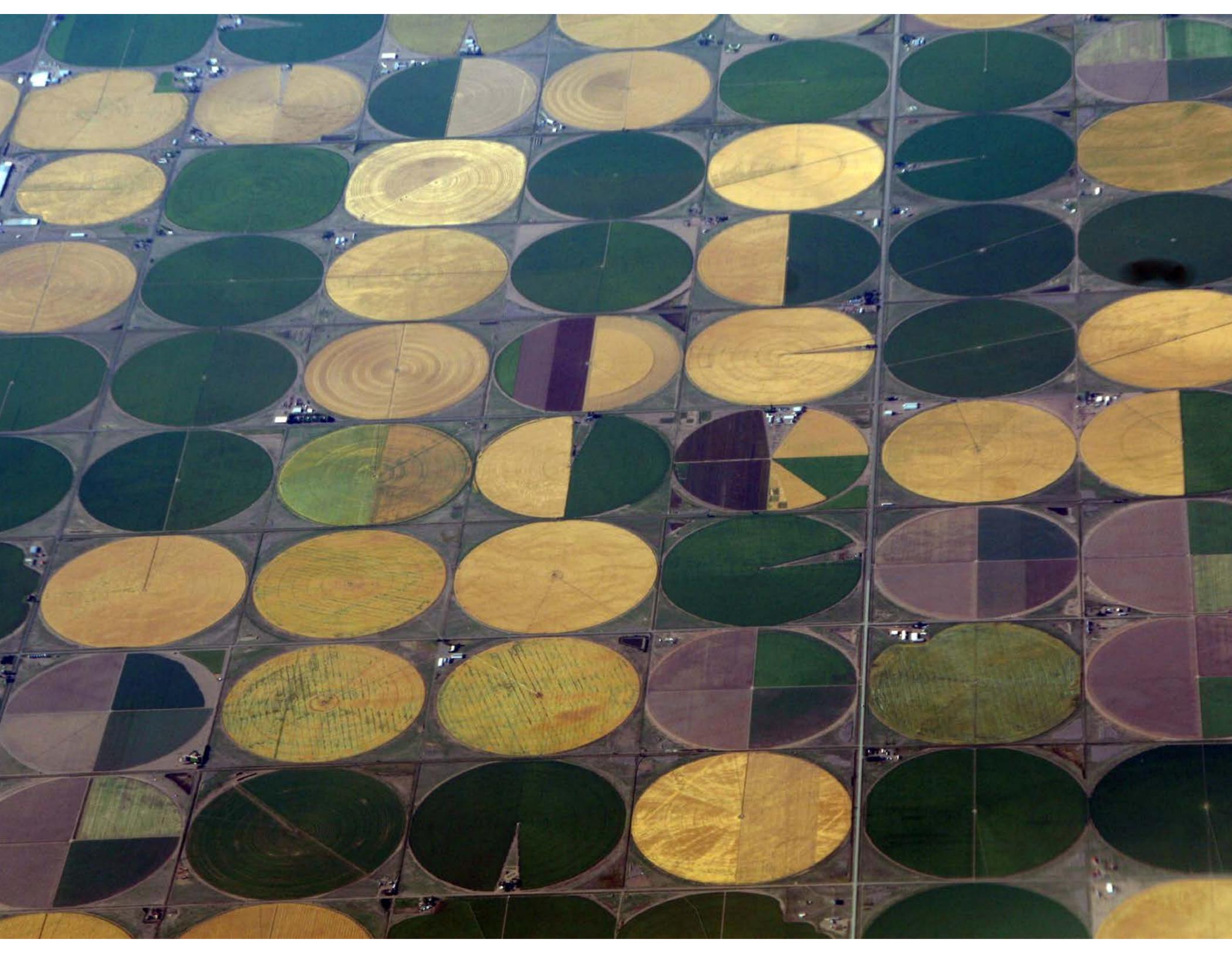




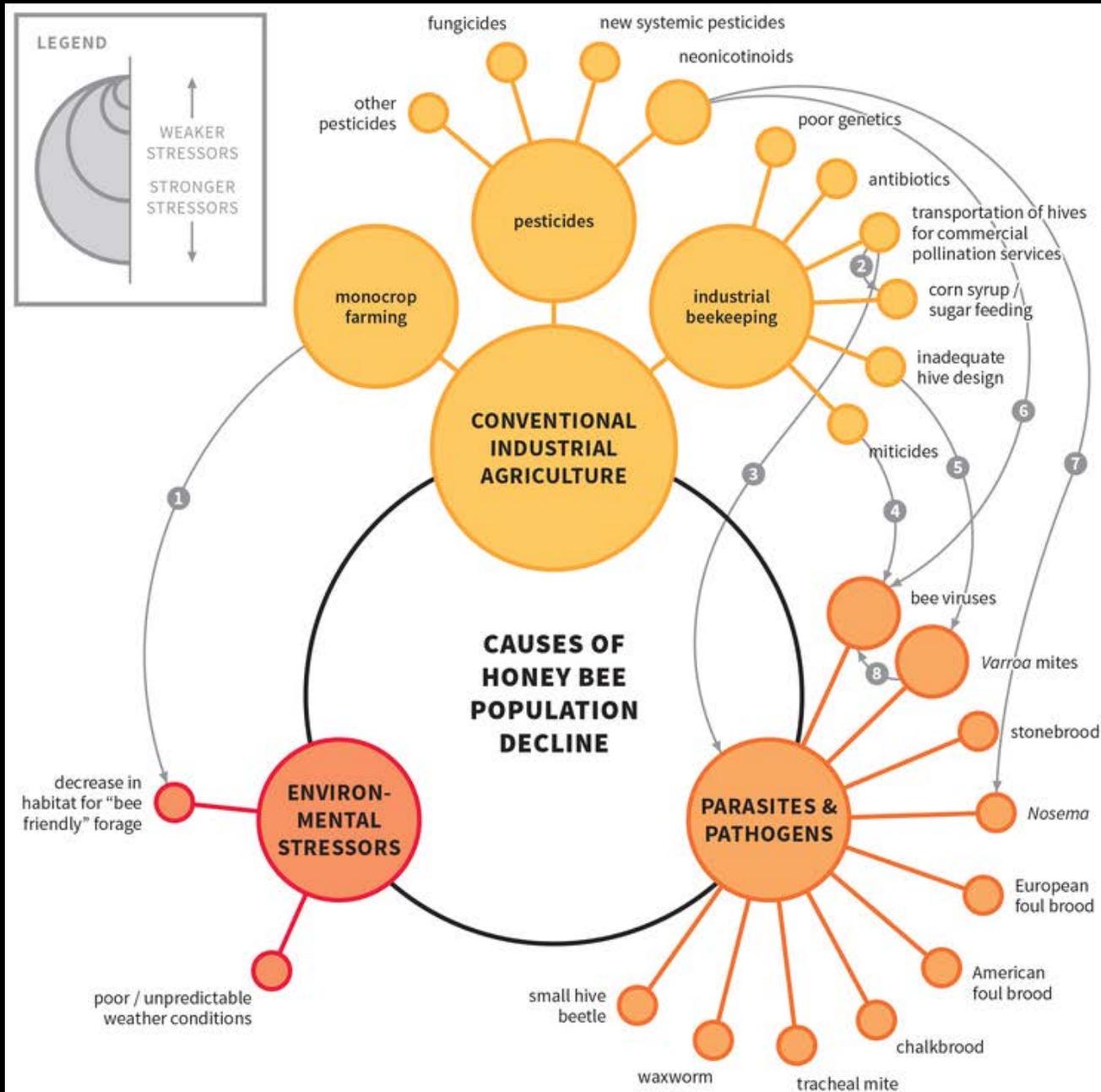












**HOW TO HELP**





**SAVE  
THE  
BEEES!**

**GIVE  
BEES  
A  
CHANCE**

**HONK  
FOR  
BEES**

**SAVE  
THE  
BEEES**

**AXLE  
24000 LBS**

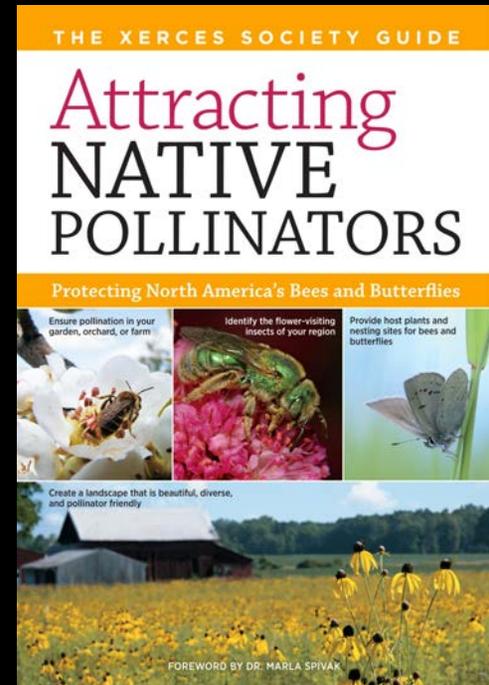
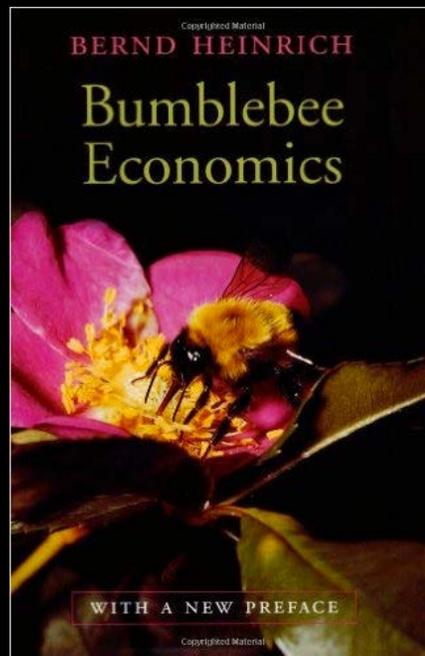
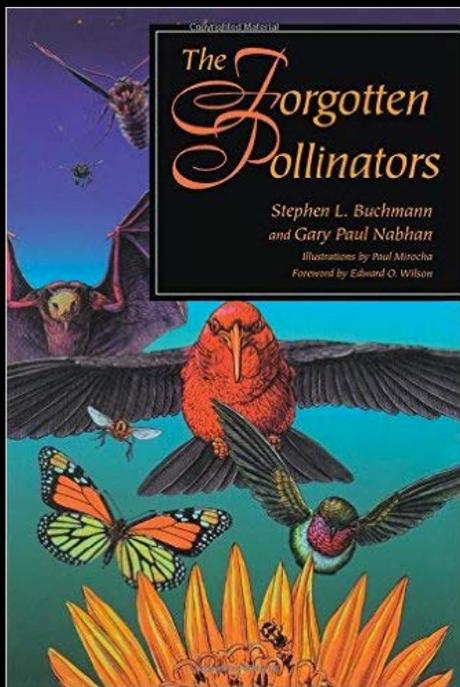
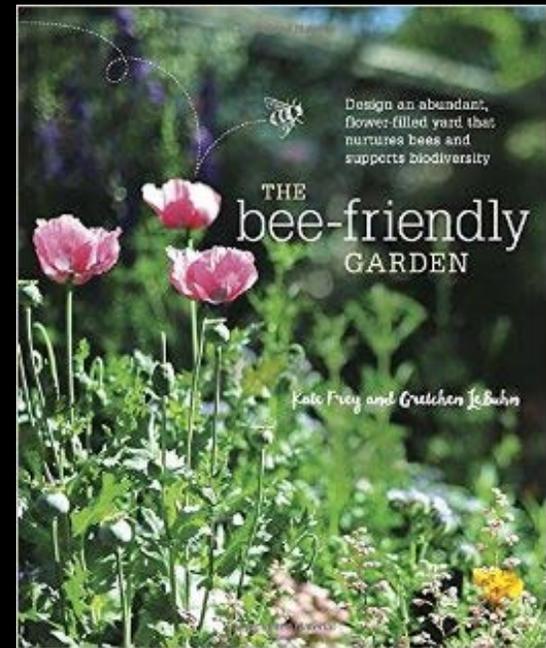
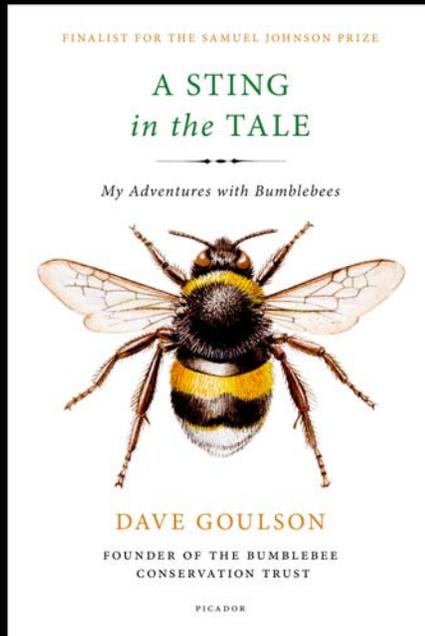
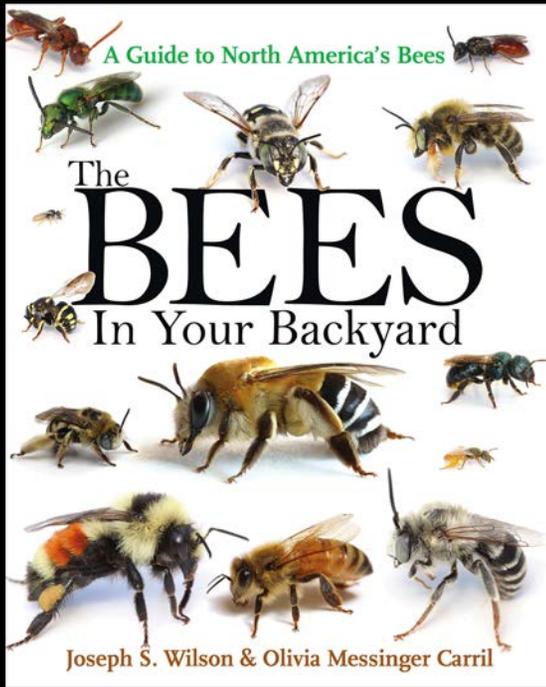


# **1. LEARN MORE ABOUT POLLINATORS**

# POLLINATOR RESEARCH AT UCR



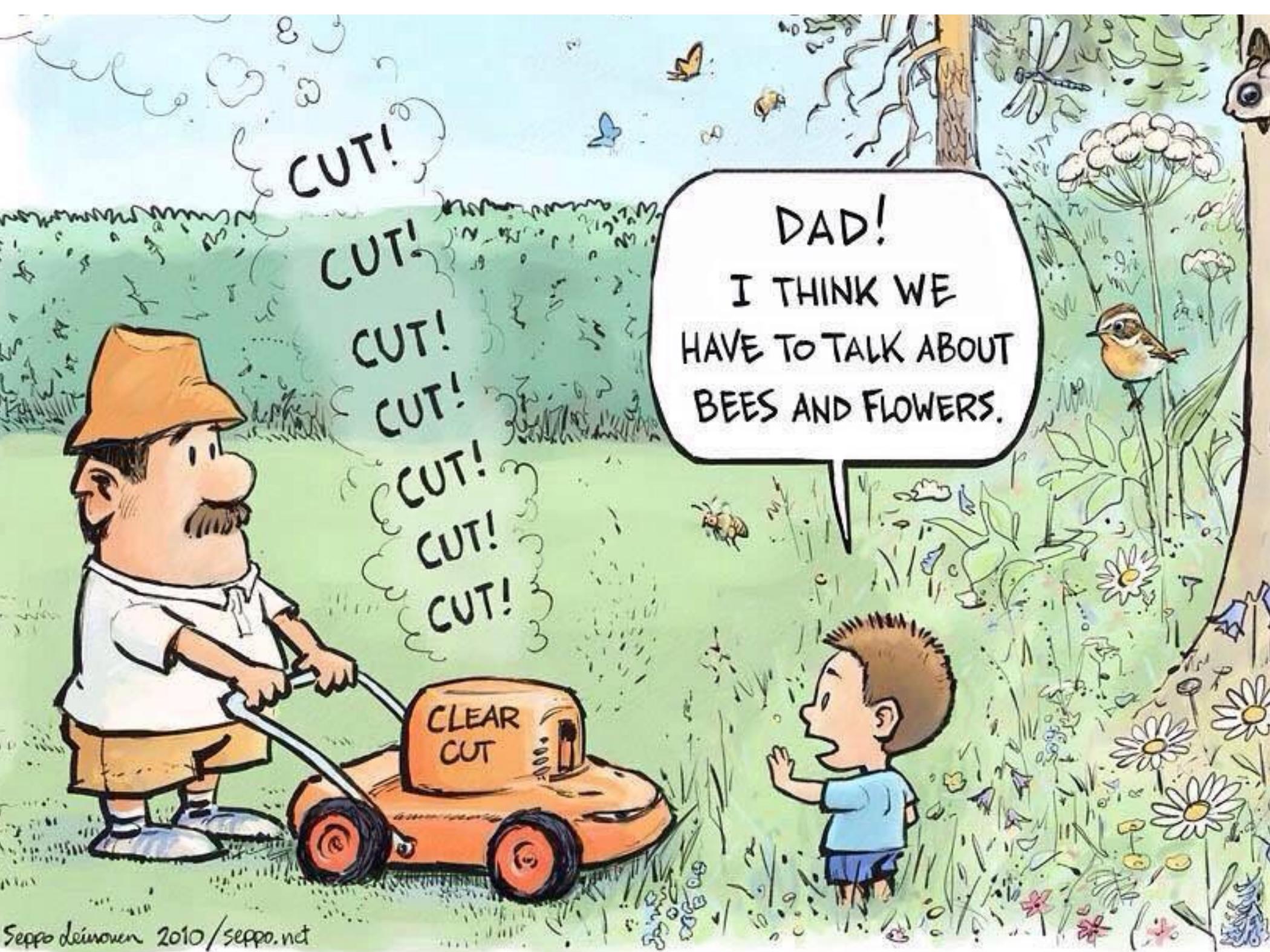
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## **2. TEACH CHILDREN ABOUT THEM**







CUT!  
CUT!  
CUT!  
CUT!  
CUT!  
CUT!

DAD!  
I THINK WE  
HAVE TO TALK ABOUT  
BEES AND FLOWERS.

**3. LEAVE SOME SPACES BE**





# 4. PLANT FLOWERS

A close-up photograph of a field of wildflowers. The foreground is filled with numerous small, bright yellow daisy-like flowers and several larger, vibrant orange poppy-like flowers. The background is softly blurred, showing more of the same floral variety. A white rectangular box is centered horizontally across the middle of the image, containing the text 'XERCES.ORG' in a bold, black, sans-serif font.

**XERCES.ORG**

# **5. STOP OVERUSE OF PESTICIDES**







**TARGET**





