

Loss of  
bee-o-diversity

*Risks and dangers for bee  
populations  
caused by a loss of  
biodiversity*

*Authors: Andrea Kürner & 3th form of the  
Federal College for Viticulture and Pomology*



# What is biodiversity?

Biodiversity is the huge variety of living things around us:

The *plants, animals, and insects* in our forests, mountains, rivers, seas, gardens and parks, right down to the organisms living in our soils.





# What is biodiversity?

- ❖ It's the living bank balance which supports all our lives and is vital for our survival.
- ❖ Biodiversity is basically our life support system, providing us with crucial resources like fresh air, food and clean water.



What are the two hypotheses?

- ❖ One, the “rivet hypothesis”, likens each species to the small rivets that hold together an airplane.
- ❖ If the rivets are removed one by one, this gradually destabilises the plane to a point where it eventually crashes.





What are the two hypotheses?

The other, the “passenger hypothesis”, holds that most species are as superfluous to nature as passengers are on a flight.

Some scientists think that only a few key species matter, namely the crew.



# Why does biodiversity require bees?

On average, one colony will pollinate more than 4 billion flowers a year.

While doing so, they preserve biodiversity.

One bee will forage up to 250 flowers per hour.

So, one colony  
20,000,000 flowers  
per day!





# Why do bees require biodiversity?





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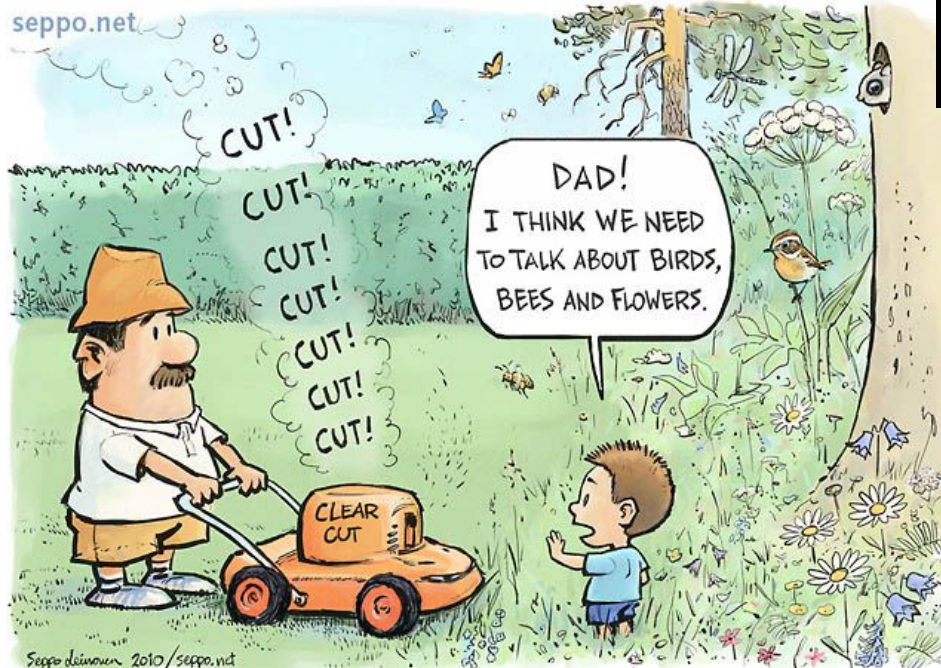
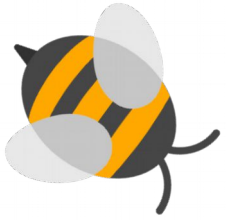


What is the status-quo in many European countries?





# What can we all do?






What can we all do?






# What can we all do?


**SPRING**



**THRIFT**  
*Armeria maritima*




**CRANESBILL**  
*Geranium macrorrhizum*




**CHIVES**  
*Allium schoenoprasum*


**EARLY SUMMER**



**LUPIN**  
*Lupinus polyphyllus*




**ROSE**  
*Rosa*




**CALIFORNIA LILAC**  
*Ceanothus "Victoria"*


**HIGH SUMMER**



**LAVENDER**  
*Lavandula angustifolia*




**GOLDENROD**  
*Solidago Canadensis*




**FENNEL**  
*Foeniculum vulgare*


**LATE SUMMER**



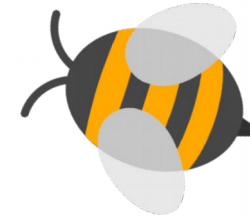
**SUNFLOWER**  
*Helianthus annuus*



**VERBENA**  
*Verbena bonariensis*



**BLACK EYED SUSAN**  
*Rudbeckia*





# What can we all do?



*Sweet Alyssum*



*Borage*



*Calendula*



*Cosmos*



*Lantana*



*Larkspur*



*Love-in-a-Mist*



*Marigold*



*Nasturtium*



*Phacelia*



*Poppy*



*Snapdragons*



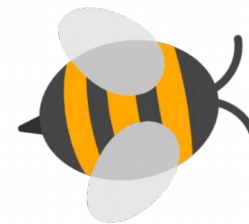
*Annual Sunflower*



*Mexican Sunflower*



*Zinnia*





# What can we all do?

