



Apimoneia

Bees Caring for Europeans Europeans Caring for Bees?"

Philip McCabe Apimondia President



Current Situation

1. Abnormal bee colony mortality

Catastrophic loss of all insects

2. 600,000 Beekeepers in Europe looking for answers

4. Less and less pollinators

5. We are walking, eyes wide open, into an abyss



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Main problem

1. Abnormal bee colony mortality



Insecticides & Pesticides

New generations of molecules + their metabolites





Toxicity / Bees (LD50 ng/bee) - Dr. JM Bonmatin (CNRS) France

pesticide	R	utilisation	DL50 ng/ab	Tox/DDT
DDT	Dinocide	insecticide	27 000,0	
amitraze	Apivar	i/acaricide	12 000,0	
coumaphos	Perizin	i/acaricide	3 000,0	
tau-fluvalinate*	Apistan	i/acaricide	2 000,0	
methiocarb	Mesurol	insecticide	230,0	
carbofuran	Curater	insecticide	160,0	
λ-cyhalothrine	Karate	insecticide	38,0	
deltamethrine	Décis	insecticide	10,0	
thiaméthoxam	Cruiser	insecticide	5,0	
fipronil	Regent	insecticide	4,2	•
clothianidine	Poncho	insecticide	4,0	•
imidaclopride	Gaucho	insecticide	3,7	•



Bee diet

Decrease of pollen sources



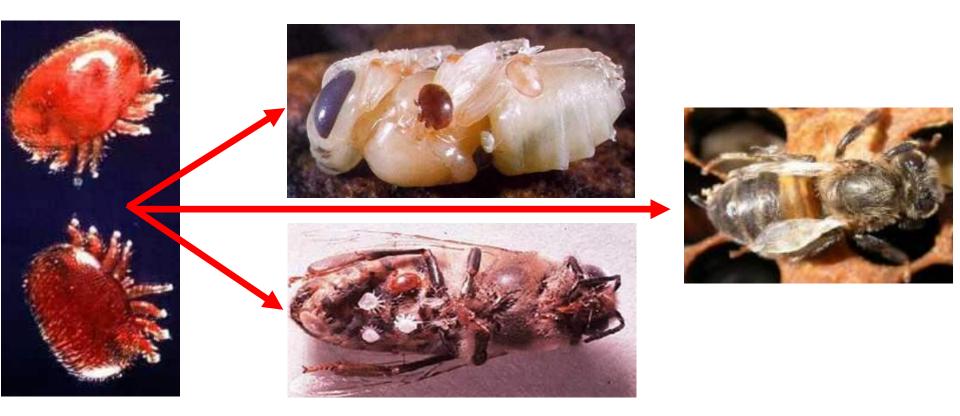
Monocultures + weedkillers

We don't like green deserts

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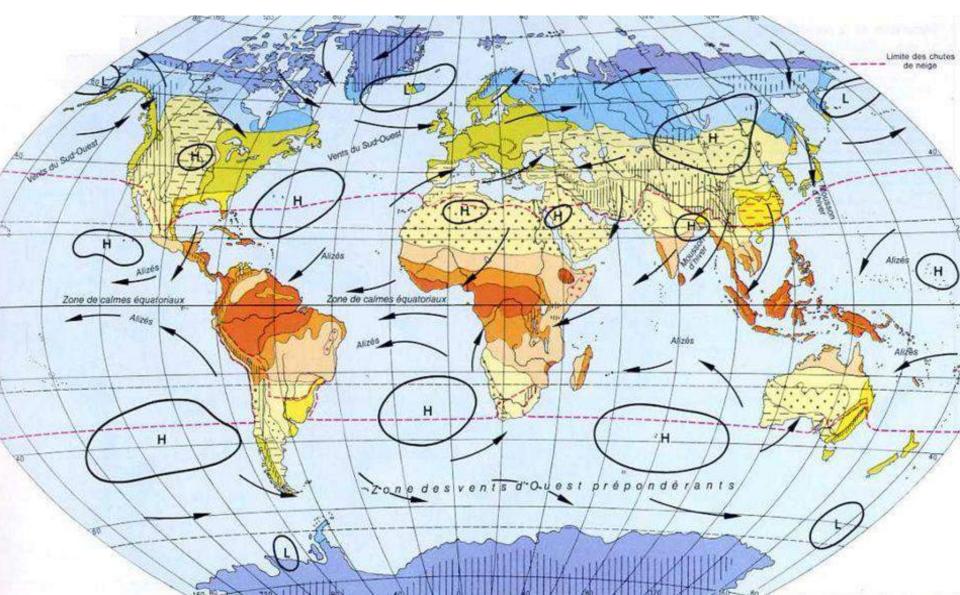


Varroas





Climate changes





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Colony management

Multiplication of migration = stress of the colonies

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Social concentration = overgrazing + unhealthy environment Major U.S. Migratory Boutes

Thousands of beehives

on the same spot



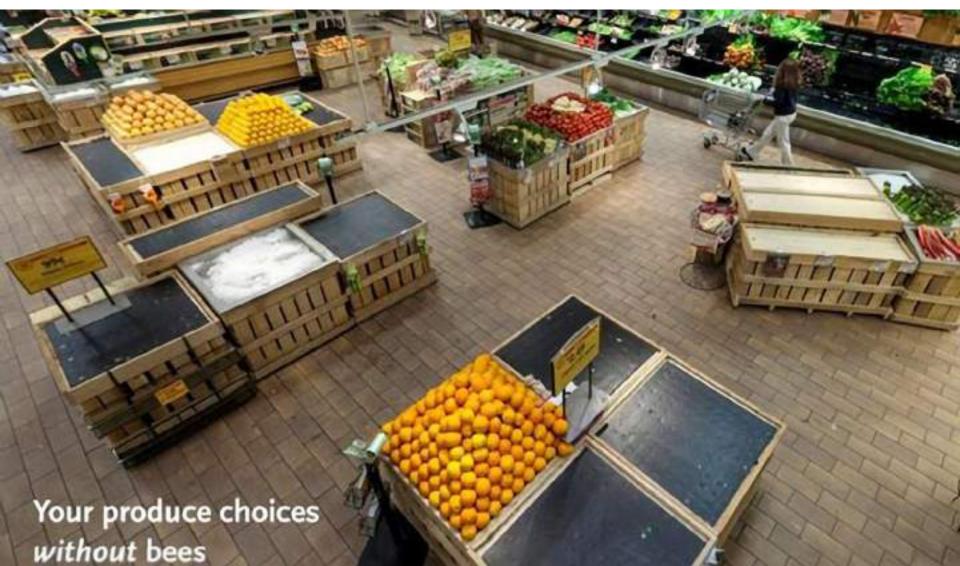
Future problems

New generations of pesticides





SO4: Ensure inclusive and efficient agricultural and food systems





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To promote management under Organic **Standards To eliminate** a large part of bee losses factors

Belgium (private)	Denmark (state)	Germany (state)
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Netherlands (state)	Norway (private)	Austria (state)
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Switzerland (private)	Finland (state)	France (state)
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Spain (state)	Czech Republic (state)	Sweden (private)
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UNEP Report (2010)

UNEP Emerging Issues: Global Honey Bee Colony Disorder and Other Threats to Insect Pollinators

The FAO estimates:

•Out of 100 crop species which provide 90% of food worldwide, 71 of these are bee-pollinated.

In Europe:

•84% of the 264 crop species are animal-pollinated
•4,000 vegetable varieties exist thanks to pollination by bees.
•The production value of one ton of pollinator-dependent crop is approximately five times higher than one of those crop categories that do not depend on insects.









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