

What the Bees are telling us, TAKE it TO HEART BEFORE it's TOO LATE

QUEEN OF THE SUN <https://www.youtube.com/watch?v=sYk8M2t-T0Q>

The bees are saying monoculture & its savage methods 'suck'. And it leads to soil depletion, air & water pollution & crop failure whereas polyculture encourages biodiversity and helps Mother Nature fight disease & famine

No bees & the human race has 4 years of life on earth.

WAKE UP PEOPLE !

Bees need biodiversity and responsible land management.

You can stand up for both of these 3 times a day by choosing a plant-based diet, preferably organic & not necessarily vegan, being cautious with GM food, eating simple meals slowly and side-stepping when possible processed and fast foods.

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1. **BIODIVERSITY**, a word coined in the 1980's to describe the **rich assortment of natural life on earth** referring to birds, insects, sea life, plants and mammals

The **depletion of biodiversity is as serious as climate change**. It has far reaching effect with ruinous consequence. This depletion comes about through human activity and a lack of reverence for Natural lore as seen in deforestation, industrial farming, poaching and pollution now executed on such a huge scale as to disrupt balance in the earth's natural ecosystem. This causes devastation to all life on earth, & ultimately to humankind and unless stopped will lead to extinction of life on earth.

BIODIVERSITY IS **PUT AT RISK** BY MONOCULTURE

BIODIVERSITY IS **ENCOURAGED** BY POLYCULTURE

2. **MONOCULTURE** is the agricultural practice of producing a **single crop at a time** of plant or livestock species in a farming system. It is widely used in both industrial and organic farming as initially there is increased efficiency in planting and harvest when a crop is well matched to its environment & synthesized with particular fertilizers. The result produces greater yield in a smaller area however over time monocropping, year after year, **leads to quicker build-up of pests and disease** and in time **depletes the nutrients from the earth the plant relies on**, leaving **soil weak and unable to support healthy plant growth**. This forces farmers to use chemical fertilizers for plant growth and fruit production.

Chemical fertilizers, in turn, **disrupt the natural makeup of the soil** and contribute to further **nutrient depletion** & the resulting pests and diseases are treated with yet more chemicals. The chemical pesticides and fertilizers used in monocropping make their way into the water table or become airborne, **polluting ALL LIVING ORGANISMS** harmful to the

environment . **The whole system is driven by money & monocropping puts the food supply chain at risk and leans towards GMO crops**

Single-species planting also causes crops to be **more vulnerable** when they are infected with **disease**, attacked by **insects** or affected by **adverse environmental conditions**.

Maintaining and increasing biodiversity in agriculture could help safeguard world food-supplies

In forestry, monoculture stands are planted and harvested as a unit wherein all the trees are the same size, like *Christmas trees* in temperate zones and plantations for *Palm Oil* in the tropics. These provide limited resources for wildlife that depend on variety, dead trees and openings and drastically alters natural habitat. Harvesting is usually via clear cutting and heavy machinery can compact soil which can adversely affect understory growth.

- 3. POLY CULTURE** where more than one crop is grown in the same space at the same time while further diversity can be added with sequential crop rotation. This is an **alternative** to monoculture. Studies show that planting a mixture of crop strains in the same field can combat disease effectively

For greater detail look this up in Wikipedia

Genetically Modified Organisms [GMO] result from a laboratory process where genes from the DNA of one species are extracted and artificially forced into the genes of an unrelated plant or animal. The foreign genes may come from bacteria, viruses, insects, animals or even humans. In most cases, the aim is to introduce a new trait to the plant which does not occur naturally in the species.

Most GM food primarily focuses on **cash crops** [soybean, corn, canola, and cotton]. Allegedly the primary advantage is more consistent yields, productivity and predictability which allows more people to be fed BUT according to Oxfam, the world currently produced about 20% more food calories than required for every human being to be healthy.

GM foods can have a **longer shelf life** which reduces the need for preservatives, some of which are associated with a higher carcinogen, heart disease, and allergy risk and means GM foods are easier to transport over greater distance.

In theory, because of the genetic modification in the GM crops, hazardous herbicides and pesticides are often used less, allowing the soil to recover its nutrient base over time however if the same cash crop is grown continuously in the same place, flouting the virtues of crop rotation or of leaving the land to lie fallow, how can the soil recover? Modern farming methods are seen to harvest, plough and plant a piece of land all in the same day, **by-passing the natural cycle** of soil regeneration with such certainty in the knowledge of genetic

resistance in the plant itself, that the farmer believes he will achieve a predictable yield as long as the weather holds & there are no unexpected or extreme conditions . . .

GMO crops are modified to include antibiotics and other items that kill germs and pests Any creature eating them will build an **immunity to prescribed antibiotics**, causing an illness to be more difficult to cure by reducing the effectiveness of an antibiotic or other medication when it is needed in the traditional sense

Farmers growing genetically modified foods have a **greater legal liability** because their crop will create seeds that are genetically modified many of which are patented. Cross-pollination is possible between GMO crops and non-GMO crops so farmers that aren't even involved in growing these foods are subjected to a higher level of legal liability while farmers that do grow GMO crops may also face liabilities for letting seeds go to other fields or allowing cross-pollination to occur

Genes go into different plant species including weeds and **genetic migration** is known to occur. What happens when the genes from an herbicide-resistant crop get into the weeds it is designed to kill? Interactions at the cellular level could create unforeseen complications to future crop growth where even the benefits of genetically modified foods may not outweigh the problems that they cause.

Over 50% of the seed producers that have created the GMO foods market **prohibit any independent research** on the final crops as an effort to protect their profits. 6 companies control most of the GM foods market at a core level and as most GMO foods are made from corn, wheat, or soybeans, even food manufacturers that use these crops are at the mercy of the manufacturer's preferences.

Some genetically modified foods **may present a carcinogen exposure risk**. A paper twice-published & once retracted, showed that crops tolerant to commercial pesticides greatly increased the risk of cancer development in rats and creates the impression that all GMO foods are potentially hazardous. And the advantages and disadvantages of genetically modified foods can spark a bitter debate.

Given this information it is questionable as to the advantage or actuality of providing the world with better food access if it come at the expense of personal health and some GM foods may present a carcinogen exposure risk. GMO foods are labelled in the EU [petitions in the US are seeking the same] and we deserve to know what we're eating and how that food is grown. Transparency around genetically modified foods allows us to do just that.

*Is Mother Nature wiser with her selection and cycles
than mankind with his linear inclination towards financial profit at any price ?*