

## The role bacteria plays in the soil and how urea damages that Part 3

"The Good Guys and The Bad Guys do not live in the same place!"(

The Invisible Gardener

## Urea

*Bad for the soil?*

Because Urea is a much more concentrated source of nitrogen, the bacteria are not fed but are actually destroyed leaving behind a mutated form of bacteria which the plants cannot use. Slowly plants find themselves weakening, starving from lack of proper nutritionist and stressed out. Their root systems no longer function as they should. They depend more & more on their chemical 'hit' to provide nutrition for them. The soils natural bacterial system is converted into one that cannot be used by plants root systems for food absorption but instead the bad bacteria themselves begin to feed off the plants!

### What Urea does to the Plants:

The plants get an immediate 'relief' when you apply or spray fertilizers based on urea or some other chemical form of high nitrogen, but as it wears off the plants return to their weakened state and become even more stressed. This process is repeated over and over again. Less soil bacterium less root hair which equal less food being absorbed by the plants which means less energy, less minerals, more stress. Many chemical fertilizers are now using timed release fertilizers that release their 'hits' over a time, thus reducing down time.

However this is not the case at all, instead the timed release fertilizers merely are increasing stress. Now Plants are stressed out all of the time! Fertilizer companies are also adding more nutrients to their Urea based fertilizers to help plants last longer as well as systemic to fight off pests and diseases. Plants thus stressed out are more inclined to disease and pest attacks then organically grown plants.



GOATS ARE GREAT TOO

The very same bacteria that are normally present in the soil dies and is replaced by a different type of bacteria. Some of the bacteria are of the "bad" type. This is to say the bacteria are of the fungal disease type and are all soil born. They can establish themselves in the soil if certain conditions are right for them. The main condition being the lack of the "good" bacteria.

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text version

Urea and soil

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